



KATALOG PRODUKTÓW 2026

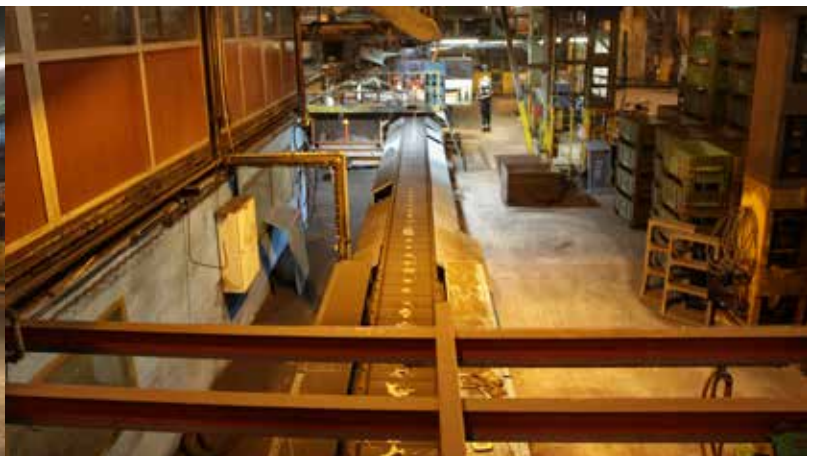
THE COMPANY

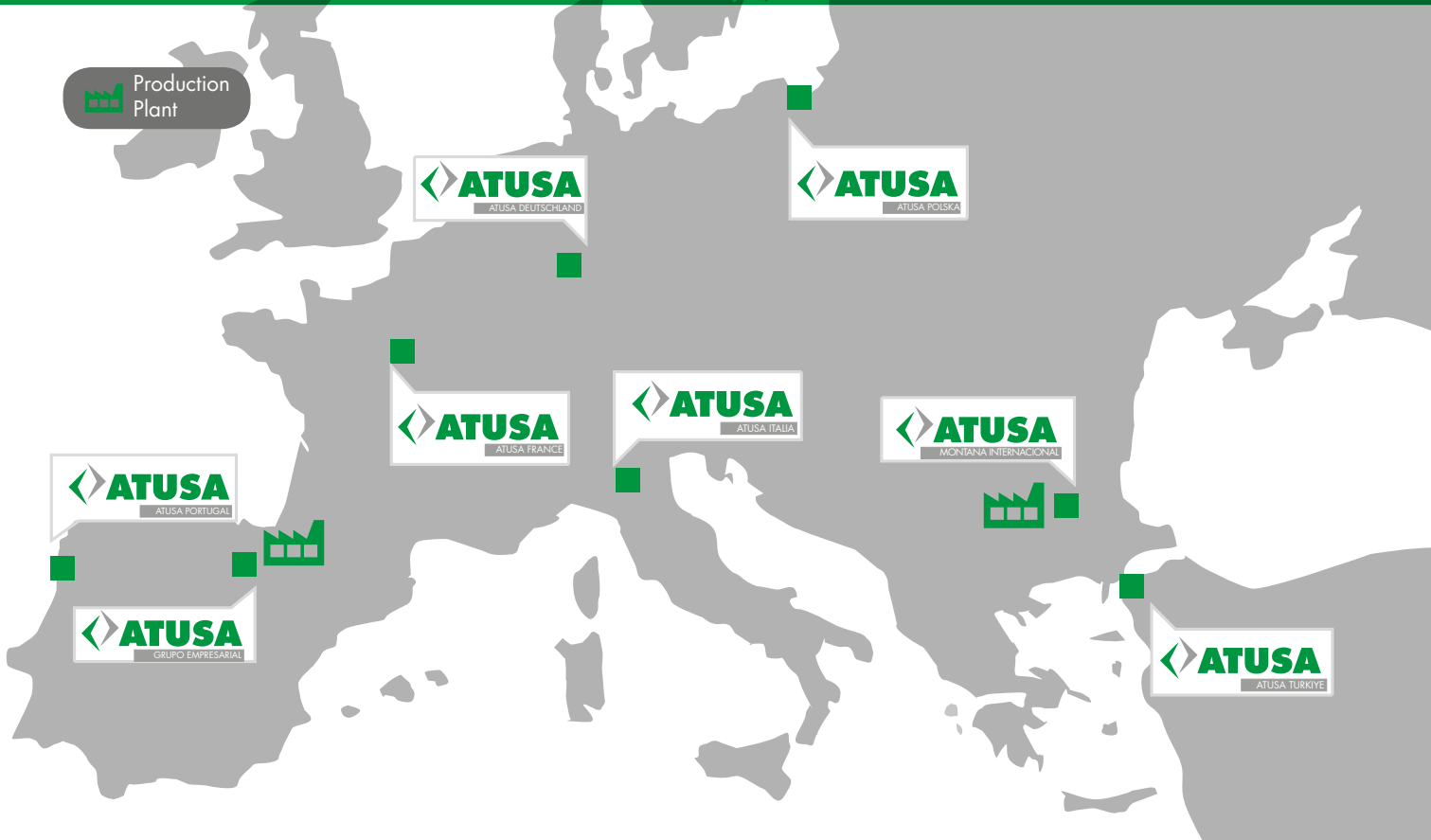
ATUSA located in the north of Spain, a centre of great importance in the iron and steel industry, has progressed so that it is now one of the leaders among the manufacturers of malleable cast iron pipe fittings.

Our long tradition which extends, in some of our plants, to over a century has helped to establish a company which is modern, versatile, up-to-date and with a great future.

Through constant evolution, new products have been incorporated among which the development and manufacturing of products upon design stands out. Product quality, logistics and the fulfilment of the necessary technical requisites, along with the important feedback service provided by our clients, make it possible to be at the forefront in the manufacturing and distribution of products which are destined for sectors such as sanitation, heating, fluid distribution, building, electronics.

The central headquarters of ATUSA is situated in Salvatierra, in the province of Alava, where one of the three production plants can also be found, another being in Mondragón (Guipúzcoa), both in Spain and the third in the city of Montana in Bulgaria.





ATUSA also has six logistic warehouses, one of which is in the central headquarters, another in the production plant of Montana and the other 4 in its subsidiaries:

Ratingen (Germany) **ATUSA** DEUTSCHLAND

Milan (Italy) **ATUSA** ITALIA

Maia (Portugal) **ATUSA** PORTUGAL

Gdansk (Poland) **ATUSA** POLSKA

Additionally, the Company also have Commercial Offices in:

Paris (France) **ATUSA** FRANCE

Istanbul (Turkey) **ATUSA** TÜRKIYE.

This vast distribution network means our clients can be reached in short delivery time and with an optimum level of service.





1 1/2

MALLEABLE CAST IRON PIPE FITTINGS**6**MALLEABLE CAST IRON **FAST** FITTINGS**24****GROOVED** SYSTEM**30****CARBON STEEL** FITTINGS**50****STAINLESS STEEL** FITTINGS**76****PRESS** FITTINGS**116****BRASS** FITTINGS**132****POLYETHYLENE** FITTINGS**153****CAST IRON** VALVES**164****ACTUATED** VALVES**188****BRASS** VALVES**208****FIXING** SYSTEM**240****HEATING** SYSTEMS**248**

MALLEABLE CAST IRON PIPE FITTINGS

ATUSA manufactures EO brand white-heart malleable cast iron pipe fittings. A meticulous manufacturing process guarantees the best fused malleable products for the most demanding markets.

The amount of references brings about a rigorous manufacturing process resulting in a high quality product. Challenged in the market by other alternative materials, malleable cast iron pipe fittings is still a leading reference when looking for a reputable product and a proved category.

There are many areas of use, those which can be singled out are: Industry, Fire Protection Systems, Piping and all manners of fluid transportation with a working pressure less than 25 bar and temperatures between -20° C and 300° C.





 **ATUSA**

MALLEABLE CAST IRON
PIPE FITTINGS

GENERAL INDICATIONS

1. STANDARD AND IDENTIFICATION

- Standard for production and use EN 10242: 1994.
- Identification: In accordance with the material selected for the production and the type of thread the EO fittings are identified as class "A", that is:
 - They are generally made of white heart malleable cast iron of high quality EN-GJMW 400 - 05.
 - The threads are cut according to ISO 7/1, i.e. parallel internal thread (Rp) and tapered external thread (R).

2. QUALITY ASSURANCE

The new UNE-EN 10242 standard requires that manufacturers establish and maintain a documented System of Quality Assurance in accordance with ISO 9001. This system has to be certified by an independent Organisation for Certification which observes the strict regulations of the EN ISO/IEC 17021, in order to guarantee that the fittings are in accordance with the requirements of the product standard EN 10242:1994. **ATUSA** fulfils these requirements and has established a System of Quality Assurance according to ISO 9001 as shown by the Certificate of Registration of the Firm AENOR/ER 076/2/95 and the certificate of the prestigious **IQNet** (The International Network for Quality System Assessment and Certification) in accordance to the criteria of the EN ISO/IEC.

3. GALVANIZATION

The EO fittings can be delivered as requested by the purchaser with black or galvanized finish. As prescribed by the standard EN 10242:1994, the mass of zinc coating shall be not less than 500 gr/m², which corresponds to a medium layer thickness of 70 µm. Both types of finish are covered with an anti rust varnish. The surfaces of the EO fittings are free from polycyclic aromatic hydrocarbons.

4. LEAK TEST

Applying the standard EN 10242:1994 each individual EO fitting is subjected to a pressure test with a min. hydrostatic pressure of 20 bar, which is equivalent to a pneumatic pressure of min. 5 bar.

5. TERMS OF DELIVERY

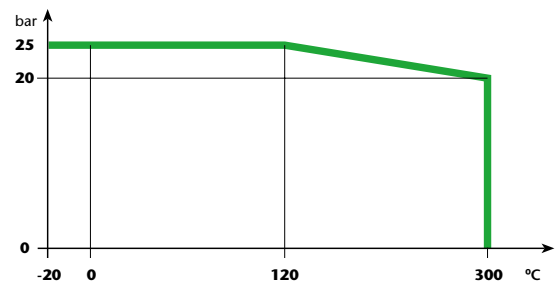
Technical aspects, design and other characteristics of the fittings are subject to possible modifications due to technical improvements or changes of standardization.

NOMINAL DIAMETER AND CONNECTING MEASURES

DN	6	8	10	15	20	25	32	40	50	65	80	100	125	150
"	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6

PRESSURE / TEMPERATURE RATINGS

Service temperature (°C)	Maximum permissible working pressure (*) (bar)
-20 a 120	25
between 120 and 300	interpolated values
300	20



(*) For higher uses, please consult our Technical Department.

 1	 1A	 2	 2A	 3	 40	 41
 60	 85	 90	 90R	 92	 92R	 94
 95	 96	 97	 98	 120	 121	 130
 130R	 131	 132	 133	 134	 135	 165
 180	 220	 221	 223	 240	 241	 245
 246	 270	 271	 280	 281	 290	 291
 294	 300	 310	 312	 320	 321	 330
 331	 334	 340	 341	 344	 370	 371
 372	 374	 471	 526	 529	 531	 596



1 LONG SWEEP BEND M/F

ISO/EN **G4**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/8"	200 10	01001000		01005000	
1/4"	250 10	01001001		01005001	
3/8"	170 10	01001002		01005002	
1/2"	110 10	01001003		01005003	
3/4"	60 10	01001004		01005004	
1"	35 1	01001005		01005005	
1 1/4"	17 1	01001006		01005006	
1 1/2"	12 1	01001007		01005007	
2"	6 1	01001008		01005008	
2 1/2"	3 1	01001009		01005009	
3"	4 1	0100100A		0100500A	
4"	2 1	0100100C		0100500C	



1A SHORT BEND M/F

ISO/EN **D4**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	250 10	01A01001		01A05001	
3/8"	130 10	01A01002		01A05002	
1/2"	100 10	01A01003		01A05003	
3/4"	60 10	01A01004		01A05004	
1"	40 1	01A01005		01A05005	
1 1/4"	20 1	01A01006		01A05006	
1 1/2"	15 1	01A01007		01A05007	
2"	8 1	01A01008		01A05008	
2 1/2"	3 1	01A01009		01A05009	
3"	4 1	01A0100A		01A0500A	
4"	2 1	01A0100C		01A0500C	



2 LONG SWEEP BEND F/F

ISO/EN **G1**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	200 10	02001001		02005001	
3/8"	140 10	02001002		02005002	
1/2"	90 10	02001003		02005003	
3/4"	50 10	02001004		02005004	
1"	28 1	02001005		02005005	
1 1/4"	14 1	02001006		02005006	
1 1/2"	10 1	02001007		02005007	
2"	5 1	02001008		02005008	
2 1/2"	2 1	02001009		02005009	
3"	4 1	0200100A		0200500A	
4"	2 1	0200100C		0200500C	



2A SHORT BEND F/F

ISO/EN **D1**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	50 10	02A01002		02A05002	
1/2"	90 10	02A01003		02A05003	
3/4"	50 10	02A01004		02A05004	
1"	35 1	02A01005		02A05005	
1 1/4"	20 1	02A01006		02A05006	
1 1/2"	14 1	02A01007		02A05007	
2"	8 1	02A01008		02A05008	
2 1/2"	4 1	02A01009		02A05009	
3"	4 1	02A0100A		02A0500A	
4"	2 1			02A0500C	



3 LONG SWEEP BEND M/M

ISO/EN **G8**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	300 10	03001001		03005001	
3/8"	200 10	03001002		03005002	
1/2"	120 10	03001003		03005003	
3/4"	70 10	03001004		03005004	
1"	40 1	03001005		03005005	
1 1/4"	20 1	03001006		03005006	
1 1/2"	14 1	03001007		03005007	
2"	7 1	03001008		03005008	
2 1/2"	3 1	03001009		03005009	
3"	5 1			0300500A	



40 45° LONG SWEEP BEND M/F

ISO/EN **G4/45°**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	300 10	04001001		04005001	
3/8"	200 10	04001002		04005002	
1/2"	120 10	04001003		04005003	
3/4"	80 10	04001004		04005004	
1"	50 1	04001005		04005005	
1 1/4"	25 1	04001006		04005006	
1 1/2"	18 1	04001007		04005007	
2"	10 1	04001008		04005008	
2 1/2"	6 1	04001009		04005009	
3"	3 1	0400100A		0400500A	
4"	4 1	0400100C		0400500C	



41 45° LONG SWEEP BEND F/F

ISO/EN **G1/45°**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/4"	220 10	04101001		04105001	
3/8"	150 10	04101002		04105002	
1/2"	100 10	04101003		04105003	
3/4"	60 10	04101004		04105004	
1"	40 1	04101005		04105005	
1 1/4"	22 1	04101006		04105006	
1 1/2"	15 1	04101007		04105007	
2"	9 1	04101008		04105008	
2 1/2"	4 1	04101009		04105009	
3"	2 1	0410100A		0410500A	
4"	2 1	0410100C		0410500C	



60 RETURN BEND



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	90 1	06001003		06005003	
3/4"	90 1	06001004		06005004	
1"	20 1	06001005		06005005	
1 1/4"	15 1			06005006	
1 1/2"	10 1	06001007		06005007	
2"	6 1			06005008	



90 90° ELBOW F/F

ISO/EN **A1**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	09001000		09005000	
1/4"	350 10	09001001		09005001	
3/8"	250 10	09001002		09005002	
1/2"	120 10	09001003		09005003	
3/4"	90 10	09001004		09005004	
1"	50 10	09001005		09005005	
1 1/4"	30 1	09001006		09005006	
1 1/2"	22 1	09001007		09005007	
2"	12 1	09001008		09005008	
2 1/2"	7 1	09001009		09005009	
3"	4 1	0900100A		0900500A	
4"	2 1	0900100C		0900500C	
5"	2 1			0900500D	
6"	1			0900500E	



85 CROSSOVER



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
3/8"	100 10	08501002		08505002	
1/2"	60 10	08501003		08505003	
3/4"	30 10	08501004		08505004	
1"	20 1	08501005		08505005	
1 1/4"	10 1	08501006		08505006	

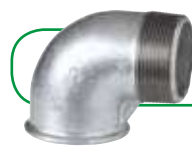


90R 90° REDUCING ELBOW F/F

ISO/EN **A1**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
3/8"-1/4"	120 10	09001021		09005021	
1/2"-1/4"	120 10	09001031		09005031	
1/2"-3/8"	120 10	09001032		09005032	
3/4"-3/8"	90 10	09001042		09005042	
3/4"-1/2"	90 10	09001043		09005043	
1"-1/2"	50 10	09001053		09005053	
1"-3/4"	50 10	09001054		09005054	
1 1/4"-1/2"	50 10	09001063		09005063	
1 1/4"-3/4"	50 10	09001064		09005064	
1 1/4"-1"	40 1	09001065		09005065	
1 1/2"-3/4"	30 1	09001074		09005074	
1 1/2"-1"	35 1	09001075		09005075	
1 1/2"-1 1/4"	25 1	09001076		09005076	
2"-1"	15 1	09001085		09005085	
2"-1 1/4"	15 1	09001086		09005086	
2"-1 1/2"	15 1	09001087		09005087	
2 1/2"-2"	8 1			09005098	



92 90° ELBOW M/F

ISO/EN **A4**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	500 10	09201000		09205000	
1/4"	350 10	09201001		09205001	
3/8"	250 10	09201002		09205002	
1/2"	150 10	09201003		09205003	
3/4"	90 10	09201004		09205004	
1"	50 10	09201005		09205005	
1 1/4"	30 1	09201006		09205006	
1 1/2"	22 1	09201007		09205007	
2"	12 1	09201008		09205008	
2 1/2"	7 1	09201009		09205009	
3"	4 1	0920100A		0920500A	
4"	2 1	0920100C		0920500C	



92R 90° REDUCING ELBOW M/F

ISO/EN **A4**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2" x 3/8"	150 10	09201032		09205032	
3/4" x 1/2"	90 10	09201043		09205043	
1" x 3/4"	60 10	09201054		09205054	
1 1/4" x 1"	30 1	09201065		09205065	
1 1/2" x 1"	20 1	09201075		09205075	
1 1/2" x 1 1/4"	20 1	09201076		09205076	
3/8" x 1/2"	150 10	09201023		09205023	
1/2" x 3/4"	90 10	09201034		09205034	
3/4" x 1"	60 10	09201045		09205045	
1" x 1 1/4"	30 1	09201056		09205056	



94 90° ELBOW M/M



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	200 10	09401002		09405002	
1/2"	150 10	09401003		09405003	
3/4"	90 10	09401004		09405004	
1"	60 10	09401005		09405005	
1 1/4"	20 1	09401006		09405006	
1 1/2"	25 1	09401007		09405007	
2"	10 1	09401008		09405008	



95 UNION ELBOW, FLAT SEAT

ISO/EN **UA1**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	70 10	09501002		09505002	
1/2"	50 10	09501003		09505003	
3/4"	40 10	09501004		09505004	
1"	28 1	09501005		09505005	
1 1/4"	14 1	09501006		09505006	
1 1/2"	10 1	09501007		09505007	
2"	6 1	09501008		09505008	

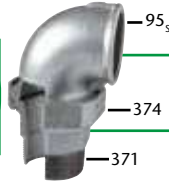


96 UNION ELBOW, TAPER SEAT

ISO/EN **UA11**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	120 10	09601001		09605001	
3/8"	80 10	09601002		09605002	
1/2"	50 10	09601003		09605003	
3/4"	40 10	09601004		09605004	
1"	28 1	09601005		09605005	
1 1/4"	14 1	09601006		09605006	
1 1/2"	10 1	09601007		09605007	
2"	6 1	09601008		09605008	
2 1/2"	4 1	09601009		09605009	
3"	2 1	0960100A		0960500A	

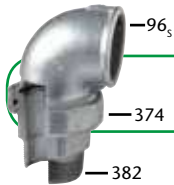


97 UNION ELBOW, FLAT SEAT

ISO/EN **UA2**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	70 10	09701002		09705002	
1/2"	50 10	09701003		09705003	
3/4"	30 10	09701004		09705004	
1"	23 1	09701005		09705005	
1 1/4"	12 1	09701006		09705006	
1 1/2"	10 1	09701007		09705007	
2"	6 1	09701008		09705008	



98 UNION ELBOW, TAPER SEAT

ISO/EN **UA12**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	120 10	09801001		09805001	
3/8"	80 10	09801002		09805002	
1/2"	50 10	09801003		09805003	
3/4"	30 10	09801004		09805004	
1"	23 1	09801005		09805005	
1 1/4"	12 1	09801006		09805006	
1 1/2"	10 1	09801007		09805007	
2"	6 1	09801008		09805008	
2 1/2"	3 1	09801009		09805009	
3"	2 1	0980100A		0980500A	



120 45° ELBOW F/F

ISO/EN **A1/45°**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	150 10	12001002		12005002	
1/2"	150 10	12001003		12005003	
3/4"	90 10	12001004		12005004	
1"	60 10	12001005		12005005	
1 1/4"	30 1	12001006		12005006	
1 1/2"	25 1	12001007		12005007	
2"	10 1	12001008		12005008	
2 1/2"	8 1	12001009		12005009	
3"	5 1	1200100A		1200500A	



121 45° ELBOW M/F

ISO/EN **A4/45°**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	200 10	12101002		12105002	
1/2"	150 10	12101003		12105003	
3/4"	100 10	12101004		12105004	
1"	50 10	12101005		12105005	
1 1/4"	30 1	12101006		12105006	
1 1/2"	25 1	12101007		12105007	
2"	12 1	12101008		12105008	
2 1/2"	8 1	12101009		12105009	
3"	5 1	1210100A		1210500A	



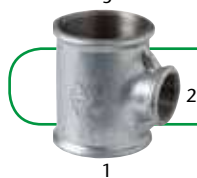
130 TEE

ISO/EN **B1**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/8"	200 10	13001000		13005000	
1/4"	220 10	13001001		13005001	
3/8"	120 10	13001002		13005002	
1/2"	70 10	13001003		13005003	
3/4"	60 10	13001004		13005004	
1"	30 10	13001005		13005005	
1 1/4"	20 1	13001006		13005006	
1 1/2"	14 1	13001007		13005007	
2"	10 1	13001008		13005008	
2 1/2"	5 1	13001009		13005009	
3"	4 1	1300100A		1300500A	
4"	2 1	1300100C		1300500C	
5"	2 1			1300500D	
6"	1			1300500E	

3



130R 90° REDUCING TEE



ISO/EN B1

Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"-1/4"-3/8"	150 10	13001212		13005212	
3/8"-1/2"-3/8"	120 10	13001232		13005232	
3/8"-3/4"-3/8"	90 10	13001242		13005242	
1/2"-1/4"-1/2"	110 10	13001313		13005313	
1/2"-3/8"-3/8"	110 10	13001322		13005322	
1/2"-3/8"-1/2"	110 10	13001323		13005323	
1/2"-1/2"-3/8"	110 10	13001332		13005332	
1/2"-3/4"-3/8"	70 10	13001342		13005342	
1/2"-3/4"-1/2"	70 10	13001343		13005343	
1/2"-1"-1/2"	60 10	13001353		13005353	
3/4"-1/4"-3/4"	70 10	13001414		13005414	
3/4"-3/8"-1/2"	70 10	13001423		13005423	
3/4"-3/8"-3/4"	70 10	13001424		13005424	
3/4"-1/2"-3/8"	70 10	13001432		13005432	
3/4"-1/2"-1/2"	70 10	13001433		13005433	
3/4"-1/2"-3/4"	60 10	13001434		13005434	
3/4"-3/4"-3/8"	60 10	13001442		13005442	
3/4"-3/4"-1/2"	60 10	13001443		13005443	
3/4"-1"-1/2"	50 10	13001453		13005453	
3/4"-1"-3/4"	40 10	13001454		13005454	
3/4"-1 1/4"-3/4"	35 1	13001464		13005464	
1"-1/4"-1"	40 10	13001515		13005515	
1"-3/8"-3/4"	50 10	13001524		13005524	
1"-3/8"-1"	50 10	13001525		13005525	
1"-1/2"-1/2"	50 10	13001533		13005533	
1"-1/2"-3/4"	50 10	13001534		13005534	
1"-1/2"-1"	40 10	13001535		13005535	
1"-3/4"-1/2"	40 10	13001543		13005543	
1"-3/4"-3/4"	40 10	13001544		13005544	
1"-3/4"-1"	40 10	13001545		13005545	
1"-1"-3/8"	40 10	13001552		13005552	
1"-1"-1/2"	40 10	13001553		13005553	
1"-1"-3/4"	30 10	13001554		13005554	
1"-1 1/4"-3/4"	30 1	13001564		13005564	
1"-1 1/4"-1"	30 1	13001565		13005565	
1"-1 1/2"-1"	22 1	13001575		13005575	
1 1/4"-3/8"-1 1/4"	30 1	13001626		13005626	
1 1/4"-1/2"-1"	35 1	13001635		13005635	
1 1/4"-1/2"-1 1/4"	30 1	13001636		13005636	
1 1/4"-3/4"-3/4"	35 1	13001644		13005644	
1 1/4"-3/4"-1"	32 1	13001645		13005645	
1 1/4"-3/4"-1 1/4"	30 1	13001646		13005646	
1 1/4"-1"-3/8"	30 1	13001652		13005652	
1 1/4"-1"-1/2"	32 1	13001653		13005653	
1 1/4"-1"-3/4"	30 1	13001654		13005654	
1 1/4"-1"-1"	28 1	13001655		13005655	
1 1/4"-1"-1 1/4"	25 1	13001656		13005656	
1 1/4"-1 1/4"-1/2"	30 1	13001663		13005663	
1 1/4"-1 1/4"-3/4"	25 1	13001664		13005664	
1 1/4"-1 1/4"-1"	25 1	13001665		13005665	
1 1/4"-1 1/2"-1"	20 1	13001675		13005675	
1 1/4"-1 1/2"-1 1/4"	18 1	13001676		13005676	
1 1/4"-2"-1 1/4"	10 1	13001686		13005686	
1 1/2"-3/8"-1 1/2"	28 1	13001727		13005727	
1 1/2"-1/2"-1 1/4"	28 1	13001736		13005736	
1 1/2"-1/2"-1 1/2"	25 1	13001737		13005737	
1 1/2"-3/4"-1 1/4"	25 1	13001746		13005746	

Ø		BLACK		GALVANIZED	
		CODE		CODE	
1 1/2"-3/4"-1 1/2"	22 1	13001747		13005747	
1 1/2"-1"-1"	25 1	13001755		13005755	
1 1/2"-1"-1 1/4"	22 1	13001756		13005756	
1 1/2"-1"-1 1/2"	20 1	13001757		13005757	
1 1/2"-1 1/4"-1"	15 1	13001765		13005765	
1 1/2"-1 1/4"-1 1/4"	18 1	13001766		13005766	
1 1/2"-1 1/4"-1 1/2"	17 1	13001767		13005767	
1 1/2"-1 1/2"-1/2"	17 1	13001773		13005773	
1 1/2"-1 1/2"-3/4"	17 1	13001774		13005774	
1 1/2"-1 1/2"-1"	17 1	13001775		13005775	
1 1/2"-1 1/2"-1 1/4"	15 1	13001776		13005776	
1 1/2"-2"-1 1/4"	10 1	13001786		13005786	
1 1/2"-2"-1 1/2"	10 1	13001787		13005787	
2"-1/2"-1 1/2"	18 1	13001837		13005837	
2"-1/2"-2"	15 1	13001838		13005838	
2"-3/4"-1 1/2"	16 1	13001847		13005847	
2"-3/4"-2"	15 1	13001848		13005848	
2"-1"-1 1/2"	15 1	13001857		13005857	
2"-1"-2"	12 1	13001858		13005858	
2"-1 1/4"-1"	12 1	13001865		13005865	
2"-1 1/4"-1 1/4"	12 1	13001866		13005866	
2"-1 1/4"-1 1/2"	12 1	13001867		13005867	
2"-1 1/4"-2"	12 1	13001868		13005868	
2"-1 1/2"-1"	12 1	13001875		13005875	
2"-1 1/2"-1 1/2"	10 1	13001877		13005877	
2"-1 1/2"-2"	10 1	13001878		13005878	
2"-2"-1/2"	10 1	13001883		13005883	
2"-2"-3/4"	10 1	13001884		13005884	
2"-2"-1"	10 1	13001885		13005885	
2"-2"-1 1/4"	10 1	13001886		13005886	
2"-2"-1 1/2"	10 1	13001887		13005887	
2"-2 1/2"-2"	6 1	13001898		13005898	
2 1/2"-1/2"-2 1/2"	8 1	13001939		13005939	
2 1/2"-3/4"-2 1/2"	8 1	13001949		13005949	
2 1/2"-1"-2 1/2"	8 1	13001959		13005959	
2 1/2"-1 1/4"-2 1/2"	8 1	13001969		13005969	
2 1/2"-1 1/2"-2 1/2"	8 1	13001979		13005979	
2 1/2"-2"-2"	6 1	13001988		13005988	
2 1/2"-2"-2 1/2"	6 1	13001989		13005989	
2 1/2"-2 1/2"-1 1/2"	6 1			13005997	
2 1/2"-2 1/2"-2	6 1			13005998	
3"-1/2"-3"	5 1			13005A3A	
3"-3/4"-3"	6 1			13005A4A	
3"-1"-3"	5 1	13001A5A		13005A5A	
3"-1 1/4"-3"	4 1	13001A6A		13005A6A	
3"-1 1/2"-3"	4 1	13001A7A		13005A7A	
3"-2"-2"	4 1			13005A88	
3"-2"-3"	4 1	13001A8A		13005A8A	
3"-2 1/2"-3"	3 1	13001A9A		13005A9A	
3"-3"-2"	2 1			13005AA8	
4"-3/4"-4"	2 1	13001C4C		13005C4C	
4"-1"-4"	2 1	13001C5C		13005C5C	
4"-1 1/2"-4"	2 1	13001C7C		13005C7C	
4"-2"-4"	2 1	13001C8C		13005C8C	
4"-2 1/2"-4"	2 1	13001C9C		13005C9C	
4"-3"-4"	2 1	13001CAC		13005CAC	
5"-4"-5"	2 1			13005DCD	



131 90° PITCHER TEE

ISO/EN E1



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	50 10	13101003		13105003	
3/4"	40 10	13101004		13105004	
1"	20 10	13101005		13105005	
1 1/4"	14 1	13101006		13105006	
1 1/2"	8 1	13101007		13105007	
2"	4 1	13101008		13105008	
2 1/2"	2 1			13105009	
3"	2 1	1310100A		1310500A	
4"	2 1			1310500C	



132 TWIN ELBOW

ISO/EN E2



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	40 1	13201003		13205003	
3/4"	25 1	13201004		13205004	
1"	15 1	13201005		13205005	
1 1/4"	10 1	13201006		13205006	
1 1/2"	8 1	13201007		13205007	
2"	3 1	13201008		13205008	



133 TEE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	150 10	13301002		13305002	
1/2"	80 10	13301003		13305003	
3/4"	50 10	13301004		13305004	
1"	15 1	13301005		13305005	



134 TEE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	80 10	13401003		13405003	
3/4"	50 10	13401004		13405004	
1"	30 1	13401005		13405005	
1 1/4"	20 1	13401006		13405006	
1 1/2"	15 1	13401007		13405007	
2"	8 1	13401008		13405008	



135 TEE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	100 10	13501003		13505003	
3/4"	60 1	13501004		13505004	
1"	40 1	13501005		13505005	



165 45° TEE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	50 10	16501003		16505003	
3/4"	30 10	16501004		16505004	
1"	20 1	16501005		16505005	
1 1/4"	10 1	16501006		16505006	
1 1/2"	6 1	16501007		16505007	
2"	4 1	16501008		16505008	



180 CROSS

ISO/EN C1



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	120 10	18001001		18005001	
3/8"	100 10	18001002		18005002	
1/2"	70 10	18001003		18005003	
3/4"	40 10	18001004		18005004	
1"	28 1	18001005		18005005	
1 1/4"	16 1	18001006		18005006	
1 1/2"	10 1	18001007		18005007	
2"	7 1	18001008		18005008	
2 1/2"	3 1	18001009		18005009	
3"	2 1	1800100A		1800500A	
4"	1	1800100C		1800500C	



220 "Y" PIECE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	100 10	22001002		22005002	
1/2"	60 10	22001003		22005003	
3/4"	40 10	22001004		22005004	
1"	20 1	22001005		22005005	



221 SIDE OUTLET ELBOW

ISO/EN **Za1**



223 SIDE OUTLET TEE

ISO/EN **Za2**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
3/8"	120 10	22101002		22105002	
1/2"	80 10	22101003		22105003	
3/4"	50 10	22101004		22105004	
1"	40 10	22101005		22105005	
1 1/4"	20 1	22101006		22105006	
1 1/2"	13 1	22101007		22105007	
2"	8 1	22101008		22105008	

Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	60 1	22301003		22305003	
3/4"	40 1	22301004		22305004	
1"	25 1	22301005		22305005	



240 REDUCING SOCKET

ISO/EN **M2**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/4" - 1/8"	400 10	24011010		24015010	
3/8" - 1/8"	400 10	24011020		24015020	
3/8" - 1/4"	400 10	24011021		24015021	
1/2" - 1/4"	150 10	24001031		24005031	
1/2" - 3/8"	200 10	24001032		24005032	
3/4" - 1/4"	140 10	24001041		24005041	
3/4" - 3/8"	140 10	24001042		24005042	
3/4" - 1/2"	140 10	24001043		24005043	
1" - 3/8"	100 10	24001052		24005052	
1" - 1/2"	90 10	24001053		24005053	
1" - 3/4"	80 10	24001054		24005054	
1 1/4" - 3/8"	60 10	24001062		24005062	
1 1/4" - 1/2"	60 10	24001063		24005063	
1 1/4" - 3/4"	60 10	24001064		24005064	
1 1/4" - 1"	50 10	24001065		24005065	
1 1/2" - 1/2"	50 1	24001073		24005073	
1 1/2" - 3/4"	50 1	24001074		24005074	
1 1/2" - 1"	45 1	24001075		24005075	
1 1/2" - 1 1/4"	40 1	24001076		24005076	
2" - 1/2"	30 1	24001083		24005083	
2" - 3/4"	30 1	24001084		24005084	
2" - 1"	25 1	24001085		24005085	
2" - 1 1/4"	22 1	24001086		24005086	
2" - 1 1/2"	22 1	24001087		24005087	
2 1/2" - 1"	16 1	24001095		24005095	
2 1/2" - 1 1/4"	14 1	24001096		24005096	
2 1/2" - 1 1/2"	14 1	24001097		24005097	
2 1/2" - 2"	10 1	24001098		24005098	
3" - 1 1/4"	10 1	240010A6		240050A6	
3" - 1 1/2"	10 1	240010A7		240050A7	
3" - 2"	10 1	240010A8		240050A8	
3" - 2 1/2"	8 1	240010A9		240050A9	
4" - 2"	6 1	240010C8		240050C8	
4" - 2 1/2"	6 1	240010C9		240050C9	
4" - 3"	6 1	240010CA		240050CA	



241 REDUCING BUSH

ISO/EN **N4**



Ø	TYP	Box	BLACK		GALVANIZED	
			CODE		CODE	
1/4"-1/8"	I	400 10	24111010		24115010	
3/8"-1/8"	II	400 10	24111020		24115020	
3/8"-1/4"	I	400 10	24111021		24115021	
1/2"-1/8"	II	400 10	24111030		24115030	
1/2"-1/4"	II	350 10	24101031		24105031	
1/2"-3/8"	I	350 10	24101032		24105032	
3/4"-1/4"	II	200 10	24101041		24105041	
3/4"-3/8"	II	200 10	24101042		24105042	
3/4"-1/2"	I	200 10	24101043		24105043	
1"-1/4"	II	140 10	24101051		24105051	
1"-3/8"	II	140 10	24101052		24105052	
1"-1/2"	II	140 10	24101053		24105053	
1"-3/4"	I	140 10	24101054		24105054	
1 1/4"-3/8"	II	80 10	24101062		24105062	
1 1/4"-1/2"	II	80 10	24101063		24105063	
1 1/4"-3/4"	II	80 10	24101064		24105064	
1 1/4"-1"	I	80 10	24101065		24105065	
1 1/2"-3/8"	II	80 10	24101072		24105072	
1 1/2"-1/2"	II	70 10	24101073		24105073	
1 1/2"-3/4"	II	70 10	24101074		24105074	
1 1/2"-1"	II	70 10	24101075		24105075	
1 1/2"-1 1/4"	I	70 10	24101076		24105076	
2"-1/2"	III	30 1	24101083		24105083	
2"-3/4"	III	30 1	24101084		24105084	
2"-1"	II	30 1	24101085		24105085	
2"-1 1/4"	II	30 1	24101086		24105086	
2"-1 1/2"	II	30 1	24101087		24105087	
2 1/2"-1"	III	20 1	24101095		24105095	
2 1/2"-1 1/4"	III	20 1	24101096		24105096	
2 1/2"-1 1/2"	II	20 1	24101097		24105097	
2 1/2"-2"	II	20 1	24101098		24105098	
3"-1"	III	10 1	241010A5		241050A5	
3"-1 1/4"	III	10 1	241010A6		241050A6	
3"-1 1/2"	III	10 1	241010A7		241050A7	
3"-2"	II	15 1	241010A8		241050A8	
3"-2 1/2"	II	15 1	241010A9		241050A9	
4"-2"	III	8 1	241010C8		241050C8	
4"-2 1/2"	III	8 1	241010C9		241050C9	
4"-3"	II	8 1	241010CA		241050CA	
5"-4"	II	11 1			241050DC	
6"-4"	III	6 1			241050EC	
6"-5"	II	6 1			241050ED	



245 REDUCING HEXAGONAL NIPPLE

ISO/EN **N8**



246 REDUCING SOCKET F/M

ISO/EN **M4**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"-1/8"	400 10	24511010		24515010	
3/8"-1/8"	400 10	24511020		24515020	
3/8"-1/4"	400 10	24511021		24515021	
1/2"-1/4"	250 10	24511031		24515031	
1/2"-3/8"	230 10	24501032		24505032	
3/4"-1/4"	150 10	24501041		24505041	
3/4"-3/8"	140 10	24501042		24505042	
3/4"-1/2"	150 10	24501043		24505043	
1"-1/2"	100 10	24501053		24505053	
1"-3/4"	100 10	24501054		24505054	
1 1/4"-1/2"	60 10	24501063		24505063	
1 1/4"-3/4"	60 10	24501064		24505064	
1 1/4"-1"	50 10	24501065		24505065	
1 1/2"-3/4"	50 1	24501074		24505074	
1 1/2"-1"	50 1	24501075		24505075	
1 1/2"-1 1/4"	45 1	24501076		24505076	
2"-1"	25 1	24501085		24505085	
2"-1 1/4"	25 1	24501086		24505086	
2"-1 1/2"	25 1	24501087		24505087	
2 1/2"-1 1/2"	15 1	24501097		24505097	
2 1/2"-2"	14 1	24501098		24505098	
3"-2"	8 1	245010A8		245050A8	
3"-2 1/2"	8 1	245010A9		245050A9	
4"-3"	4 1	245010CA		245050CA	

Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"-1/8"	400 10	24611010		24615010	
3/8"-1/4"	400 10	24611021		24615021	
1/2"-1/4"	220 10	24601031		24605031	
1/2"-3/8"	220 10	24601032		24605032	
3/4"-3/8"	150 10	24601042		24605042	
3/4"-1/2"	140 10	24601043		24605043	
1"-1/2"	80 10	24601053		24605053	
1"-3/4"	80 10	24601054		24605054	
1 1/4"-1/2"	60 10	24601063		24605063	
1 1/4"-3/4"	50 10	24601064		24605064	
1 1/4"-1"	50 10	24601065		24605065	
1 1/2"-3/4"	45 1	24601074		24605074	
1 1/2"-1"	45 1	24601075		24605075	
1 1/2"-1 1/4"	40 1	24601076		24605076	
2"-1"	30 1	24601085		24605085	
2"-1 1/4"	25 1	24601086		24605086	
2"-1 1/2"	20 1	24601087		24605087	
2 1/2"-1 1/2"	12 1	24601097		24605097	
2 1/2"-2"	12 1	24601098		24605098	
3"-2"	12 1	246010A8		246050A8	
3"-2 1/2"	12 1	246010A9		246050A9	



270 SOCKET

ISO/EN **M2**



271 RIGHT AND LEFT SOCKET

ISO/EN **M2 R-L**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	27011000		27015000	
1/4"	400 10	27011001		27015001	
3/8"	250 10	27001002		27005002	
1/2"	180 10	27001003		27005003	
3/4"	110 10	27001004		27005004	
1"	80 10	27001005		27005005	
1 1/4"	45 1	27001006		27005006	
1 1/2"	35 1	27001007		27005007	
2"	20 1	27001008		27005008	
2 1/2"	12 1	27001009		27005009	
3"	9 1	2700100A		2700500A	
4"	4 1	2700100C		2700500C	
5"	3 1			2700500D	
6"	3 1			2700500E	

Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	250 10	27101002		27105002	
1/2"	180 10	27101003		27105003	
3/4"	110 10	27101004		27105004	
1"	80 10	27101005		27105005	
1 1/4"	45 1	27101006		27105006	
1 1/2"	35 1	27101007		27105007	
2"	20 1	27101008		27105008	



280 HEXAGONAL NIPPLE

ISO/EN N8



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	28011000		28015000	
1/4"	400 10	28011001		28015001	
3/8"	300 10	28001002		28005002	
1/2"	200 10	28001003		28005003	
3/4"	130 10	28001004		28005004	
1"	80 10	28001005		28005005	
1 1/4"	40 10	28001006		28005006	
1 1/2"	40 1	28001007		28005007	
2"	20 1	28001008		28005008	
2 1/2"	10 1	28001009		28005009	
3"	8 1	2800100A		2800500A	
4"	4 1	2800100C		2800500C	
5"	3 1			2800500D	
6"	3 1			2800500E	



281 RIGHT AND LEFT HEXAGONAL NIPPLE

ISO/EN N8 R-L



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
3/8"	300 10	28101002		28105002	
1/2"	200 10	28101003		28105003	
3/4"	130 10	28101004		28105004	
1"	80 10	28101005		28105005	
1 1/4"	40 10	28101006		28105006	
1 1/2"	40 1	28101007		28105007	
2"	20 1	28101008		28105008	



290 PLUG

ISO/EN T9



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	29011000		29015000	
1/4"	400 10	29011001		29015001	
3/8"	400 10	29001002		29005002	
1/2"	300 10	29001003		29005003	
3/4"	200 10	29001004		29005004	
1"	120 10	29001005		29005005	
1 1/4"	80 10	29001006		29005006	
1 1/2"	60 10	29001007		29005007	
2"	40 1	29001008		29005008	
2 1/2"	20 1	29001009		29005009	
3"	15 1	2900100A		2900500A	
4"	8 1	2900100C		2900500C	



291 PLAIN PLUG

ISO/EN T8



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	29111000		29115000	
1/4"	400 10	29111001		29115001	
3/8"	400 10	29101002		29105002	
1/2"	300 10	29101003		29105003	
3/4"	200 10	29101004		29105004	
1"	120 10	29101005		29105005	
1 1/4"	80 10	29101006		29105006	
1 1/2"	60 10	29101007		29105007	
2"	40 1	29101008		29105008	
2 1/2"	20 1	29101009		29105009	
3"	15 1	2910100A		2910500A	
4"	8 1	2910100C		2910500C	



294 PLUG WITH HOLE IN SQUARE HEAD



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	300 10	29401003		29405003	
3/4"	200 10	29401004		29405004	
1"	120 10	29401005		29405005	
1 1/4"	80 10	29401006		29405006	
1 1/2"	60 10	29401007		29405007	
2"	40 1	29401008		29405008	

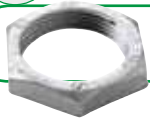


300 CAP

ISO/EN T1



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	400 10	30011000		30015000	
1/4"	400 10	30011001		30015001	
3/8"	400 10	30011002		30015002	
1/2"	280 10	30001003		30005003	
3/4"	180 10	30001004		30005004	
1"	130 10	30001005		30005005	
1 1/4"	80 10	30001006		30005006	
1 1/2"	60 10	30001007		30005007	
2"	40 1	30001008		30005008	
2 1/2"	25 1	30001009		30005009	
3"	15 1	3000100A		3000500A	
4"	8 1	3000100C		3000500C	



310 BACKNUT

ISO/EN **P4**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	400 10	31011001		31015001	
3/8"	400 10	31011002		31015002	
1/2"	400 10	31001003		31005003	
3/4"	300 10	31001004		31005004	
1"	200 10	31001005		31005005	
1 1/4"	80 1	31001006		31005006	
1 1/2"	70 1	31001007		31005007	
2"	50 1	31001008		31005008	
2 1/2"	25 1	31001009		31005009	
3"	25 1	3100100A		3100500A	



312 BACKNUT, RECESSED

ISO/EN **P4**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/4"	400 10	31211001		31215001	
3/8"	400 10	31211002		31215002	
1/2"	400 10	31201003		31205003	
3/4"	300 10	31201004		31205004	
1"	200 10	31201005		31205005	
1 1/4"	120 10	31201006		31205006	
1 1/2"	90 10	31201007		31205007	
2"	60 10	31201008		31205008	
2 1/2"	35 1	31201009		31205009	
3"	25 1	3120100A		3120500A	
4"	12 1	3120100C		3120500C	



320 OVAL FLANGE



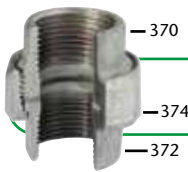
Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	140 1	32001003		32005003	
3/4"	110 1	32001004		32005004	
1"	70 1	32001005		32005005	
1 1/4"	50 1	32001006		32005006	
1 1/2"	35 1	32001007		32005007	
2"	30 1	32001008		32005008	
2 1/2"	15 1	32001009		32005009	
3"	10 1	3200100A		3200500A	
4"	6 1	3200100C		3200500C	



321 CIRCULAR FLANGE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	110 1			32105002	
1/2"	90 1	32101003		32105003	
3/4"	70 1	32101004		32105004	
1"	50 1	32101005		32105005	
1 1/4"	30 1	32101006		32105006	
1 1/2"	20 1	32101007		32105007	
2"	15 1	32101008		32105008	
2 1/2"	12 1	32101009		32105009	
3"	9 1	3210100A		3210500A	
4"	5 1	3210100C		3210500C	



330 FLAT SEAT UNION F/F

ISO/EN **U1**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	80 10	33001003		33005003	
3/4"	50 10	33001004		33005004	
1"	30 1	33001005		33005005	
1 1/4"	20 1	33001006		33005006	
1 1/2"	18 1	33001007		33005007	
2"	10 1	33001008		33005008	
2 1/2"	7 1	33001009		33005009	
3"	4 1	3300100A		3300500A	
4"	2 1	3300100C		3300500C	



331 FLAT SEAT UNION M/F

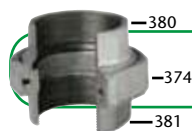
ISO/EN **U2**



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	100 10	33101002		33105002	
1/2"	60 10	33101003		33105003	
3/4"	40 10	33101004		33105004	
1"	35 1	33101005		33105005	
1 1/4"	18 1	33101006		33105006	
1 1/2"	15 1	33101007		33105007	
2"	10 1	33101008		33105008	
2 1/2"	4 1	33101009		33105009	
3"	2 1	3310100A		3310500A	

Supplied without gasket. See Page 20

Supplied without gasket. See Page 20



340 TAPER SEAT UNION F/F

ISO/EN **U11**



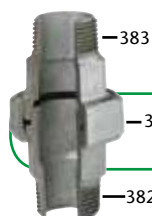
341 TAPER SEAT UNION M/F

ISO/EN **U12**



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/8"	160 10	34001000		34005000	
1/4"	140 10	34001001		34005001	
3/8"	100 10	34001002		34005002	
1/2"	80 10	34001003		34005003	
3/4"	50 10	34001004		34005004	
1"	30 1	34001005		34005005	
1 1/4"	20 1	34001006		34005006	
1 1/2"	18 1	34001007		34005007	
2"	10 1	34001008		34005008	
2 1/2"	7 1	34001009		34005009	
3"	4 1	3400100A		3400500A	
4"	2 1	3400100C		3400500C	

Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/4"	120 10	34101001		34105001	
3/8"	100 10	34101002		34105002	
1/2"	60 10	34101003		34105003	
3/4"	40 10	34101004		34105004	
1"	35 1	34101005		34105005	
1 1/4"	18 1	34101006		34105006	
1 1/2"	15 1	34101007		34105007	
2"	10 1	34101008		34105008	
2 1/2"	4 1	34101009		34105009	
3"	2 1	3410100A		3410500A	
4"	1	3410100C		3410500C	



344 TAPER SEAT UNION M/M



370 FLAT SEAT UNION BUSH F/M



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/4"	120 10	34401001		34405001	
3/8"	100 10	34401002		34405002	
1/2"	50 10	34401003		34405003	
3/4"	40 10	34401004		34405004	
1"	30 1	34401005		34405005	
1 1/4"	15 1	34401006		34405006	
1 1/2"	10 1	34401007		34405007	
2"	6 1	34401008		34405008	

Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	250 1	37001003		37005003	
3/4"	200 1	37001004		37005004	
1"	120 1	37001005		37005005	
1 1/4"	70 1	37001006		37005006	
1 1/2"	50 1	37001007		37005007	
2"	25 1	37001008		37005008	
2 1/2"	15 1	37001009		37005009	
3"	10 1	3700100A		3700500A	
4"	6 1	3700100C		3700500C	



371 FLAT SEAT UNION MALE



372 FLAT SEAT UNION FEMALE



Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	225 1	37101003		37105003	
3/4"	125 1	37101004		37105004	
1"	80 1	37101005		37105005	
1 1/4"	45 1	37101006		37105006	
1 1/2"	35 1	37101007		37105007	
2"	20 1	37101008		37105008	
2 1/2"	10 1	37101009		37105009	
3"	6 1	3710100A		3710500A	

Ø	Box	BLACK		GALVANIZED	
		CODE		CODE	
1/2"	325 1	37201003		37205003	
3/4"	210 1	37201004		37205004	
1"	150 1	37201005		37205005	
1 1/4"	80 1	37201006		37205006	
1 1/2"	55 1	37201007		37205007	
2"	30 1	37201008		37205008	
2 1/2"	16 1	37201009		37205009	
3"	10 1	3720100A		3720500A	



374 UNION NUT



Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	300 1	37401002		37405002	
1/2"	175 1	37401003		37405003	
3/4"	140 1	37401004		37405004	
1"	100 1	37401005		37405005	
1 1/4"	55 1	37401006		37405006	
1 1/2"	45 1	37401007		37405007	
2"	30 1	37401008		37405008	
2 1/2"	15 1	37401009		37405009	
3"	12 1	3740100A		3740500A	
4"	8 1	3740100C		3740500C	



334 COMPENSATION UNION

Ø		BLACK		GALVANIZED	
		CODE	€	CODE	
1/2" x 88	50 1			33405003	
3/4" x 96	30 1			33405004	
1" x 106	20 1			33405005	
1 1/4" x 118	15 1			33405006	
1 1/2" x 122	10 1			33405007	
2" x 134	8 1			33405008	



471 BRACKET ELBOW



Ø		BLACK		GALVANIZED	
		CODE	€	CODE	
1/2"	40 10			47105003	
3/4"	30 10			47105004	
1"	20 10			47105005	



526 EXTENSION TUBE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
30 x 3/8"	350 10	52601302		52605302	
30 x 1/2"	220 10	52601303		52605303	
40 x 3/8"	250 10	52601402		52605402	
40 x 1/2"	200 10	52601403		52605403	
40 x 3/4"	120 10	52601404		52605404	
50 x 1/2"	120 10	52601503		52605503	



529 EXTENSION TUBE

ISO/EN M4



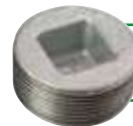
Ø		BLACK		GALVANIZED	
		CODE		CODE	
3/8"	300 10	52901002		52905002	
1/2"	200 10	52901003		52905003	
3/4"	120 10	52901004		52905004	
1"	60 10	52901005		52905005	
1 1/4"	40 1	52901006		52905006	
1 1/2"	35 1	52901007		52905007	
2"	20 1	52901008		52905008	



531 INTERNAL NIPPLE



Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/8"	100 10			53115000	
1/4"	500 10	53111001		53115001	
3/8"	400 10	53101002		53105002	
1/2"	380 10	53101003		53105003	
3/4"	240 10	53101004		53105004	
1"	140 10	53101005		53105005	
1 1/4"	80 10	53101006		53105006	
1 1/2"	60 10	53101007		53105007	
2"	35 1	53101008		53105008	
2 1/2"	18 1	53101009		53105009	
3"	12 1	5310100A		5310500A	
4"	8 1	5310100C		5310500C	



596 PLUG SQUARE INSIDE

ISO/EN T11



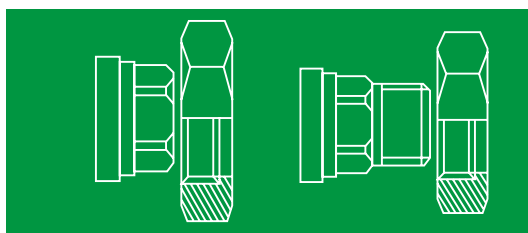
Ø		BLACK		GALVANIZED	
		CODE		CODE	
1/2"	200 10			59605003	
3/4"	150 10	59601004			
1"	150 10	59601005			
1 1/4"	140 1	59601006			
1 1/2"	125 1	59601007		59605007	
2"	60 1	59601008			

GASKET FOR FLAT SEAT UNION



Ø	Ø Int. mm.	Ø Ext. mm.	THICKNESS	CODE
1/2"	24	34	2	90000003
3/4"	27	38	2	90000004
1"	32	44	2	90000005
1 1/4"	42	55	2	90000006
1 1/2"	46	62	2	90000007
2"	60	78	2	90000008
2 1/2"	75	96	3	90000009
3"	88	109	3	9000000A
4"	113	134	3	9000000C

Gasket suitable for gas, water, oil and hydrocarbons.
Optimal quality in ratio (0-50Bar) - T^a (0 - 220° C).
Drinkable water (UBA KTW-BWGL) and gas (DVGW DIN 30653 and DVGW DIN 3536-6) certified.



PUMPS CONNECTION KITS

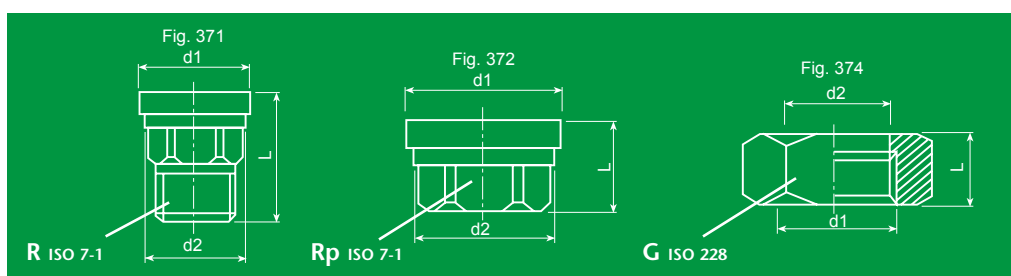
■ 1 Kit is composed by:

- 2 Backnuts Ref. 374 (P1)
Fastening threads DIN EN-ISO 228-1.
- 2 Union ends Ref. 372 or 371
Joining threads DIN 2999 / ISO 7-1 / EN 10226-1
- 2 Gaskets, free of asbestos:
 - Max. Temperature 300° C.
 - Max. Temperature with steam 200° C.
 - DVGW Certificate for industrial gases.
 - KTW Certificate for food and drinking water.

■ Kits are produced in black finish, (without galvanisation), if opposite is not specified.

■ Each kit is supplied in plastic bag and carton box, duly marked with a label.

KITS



3/4" (372 Reduced) KIT C4201047

FIG	mm.			Box	(grs.)
	d1	d2	L		
372 Rp 3/4"	44,2	40,9	26,0	20	464
374 G 1 1/2"	45,15	41,8	22,0		

1" KIT C4201057

FIG	mm.			Box	(grs.)
	d1	d2	L		
372 Rp 1"	44,2	40,9	26,5	20	474
374 G 1 1/2"	45,15	41,8	22,0		

1" (372 Reduced) KIT C4201058

FIG	mm.			Box	(grs.)
	d1	d2	L		
372 Rp 1"	56,0	52,2	31,0	15	854
374 G 2"	56,9	52,9	24,0		

1" KIT C4101057

FIG	mm.			Box	(grs.)
	d1	d2	L		
371 R 1"	44,2	40,9	49,0	18	620
374 G 1 1/2"	45,15	41,8	22,0		

1 1/4" (371 Increased) KIT C4101067

FIG	mm.			Box	(grs.)
	d1	d2	L		
371 R 1 1/4"	44,2	40,9	48,0	15	624
374 G 1 1/2"	45,15	41,8	22,0		

1 1/4" KIT C4201068

FIG	mm.			Box	(grs.)
	d1	d2	L		
372 Rp 1 1/4"	56,0	52,2	31,0	15	878
374 G 2"	56,9	52,9	24,0		

R = Male thread (taper external thread) - Rp = Female thread (parallel internal thread)
G₃₇₄ = Female thread (parallel internal thread)

PACKING

FIG.	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
1	200	250	170	110	60	35	17	12	6	3	4	2		
1A		250	130	100	60	40	20	15	8	3	4	2		
2		200	140	90	50	28	14	10	5	2	4	2		
2A			50	90	50	35	20	14	8	2	4	2		
3		300	200	120	70	40	20	14	7	3	5	2		
40		300	200	120	80	50	25	18	10	6	3	4		
41		220	150	100	60	40	22	15	9	4	2	2		
60				90	90	20	15	10	6					
85			100	60	30	20	10							
90	400	350	250	120	90	50	30	22	12	7	4	2	2	1
92	500	350	250	150	90	50	30	22	12	7	4	2		
94			200	150	90	60	20	25	10					
95			70	50	40	28	14	10	6					
96		120	80	50	40	28	14	10	6	4	2			
97			70	50	30	23	12	10	6					
98		120	80	50	30	23	12	10	6	3	2			
120			150	150	90	60	30	20	10	8	5			
121			200	150	100	50	30	25	12	8	5			
130	200	220	120	70	60	30	20	14	10	5	4	2	2	1
131				50	40	20	14	8	4	2	2	2		
132				40	25	15	10	8	3					
133			150	80	50	15								
134				80	50	30	20	15	8					
135				100	60	40								
165				50	30	20	10	6	4					
180		120	100	70	40	28	16	10	7	3	2	1		
220			100	60	40	20								
221			120	80	50	40	20	13	8					
223				60	40	25								
270	400	400	250	180	110	80	45	35	20	12	9	4	3	3
271			250	180	110	80	45	35	20					
280	400	400	300	200	130	80	40	40	20	10	8	4	3	3
281			300	200	130	80	40	40	20					
290	400	400	400	300	200	120	80	60	40	20	15	8		
291	400	400	400	300	200	120	80	60	40	20	15	8		
294				300	200	120	80	60	40					
300	400	400	400	280	180	130	80	60	40	25	15	8		
310		400	400	400	300	200	80	70	50	25	25			
312		400	400	400	300	200	120	90	60	35	25	12		
320				140	110	70	50	35	30	15	10	6		
321				90	70	50	30	20	15	12	9	5		
330				80	50	30	20	18	10	7	4	2		
331			100	60	40	35	18	15	10	4	2			
334				50	30	20	15	10	8					
340	160	140	100	80	50	30	20	18	10	7	4	2		
341		120	100	60	40	35	18	15	10	4	2	1		
344		120	100	50	40	30	15	10	6					
370				250	200	120	70	50	25	15	10	6		
371				225	125	80	45	35	20	10	6			
372				325	210	150	80	55	30	16	10			
374				175	140	100	55	45	30	15	12	8		
471				40	30	20								
529			300	200	120	60	40	35	20					
531	500	500	400	380	240	140	80	60	35	18	12	8		
596				200	150	150	140	125	60					



130R

130R

3/8 x 1/4 x 3/8	150	1 1/2 x 3/4 x 1 1/2	22
3/8 x 1/2 x 3/8	120	1 1/2 x 1 x 1	25
3/8 x 3/4 x 3/8	90	1 1/2 x 1 x 1 1/4	22
1/2 x 1/4 x 1/2	110	1 1/2 x 1 x 1 1/2	20
1/2 x 3/8 x 3/8	110	1 1/2 x 1 1/4 x 1	15
1/2 x 3/8 x 1/2	110	1 1/2 x 1 1/4 x 1 1/4	18
1/2 x 1/2 x 3/8	110	1 1/2 x 1 1/4 x 1 1/2	17
1/2 x 3/4 x 3/8	70	1 1/2 x 1 1/2 x 1/2	17
1/2 x 3/4 x 1/2	70	1 1/2 x 1 1/2 x 3/4	17
1/2 x 1 x 1/2	60	1 1/2 x 1 1/2 x 1	17
3/4 x 1/4 x 3/4	70	1 1/2 x 1 1/2 x 1 1/4	15
3/4 x 3/8 x 1/2	70	1 1/2 x 2 x 1 1/4	10
3/4 x 3/8 x 3/4	70	1 1/2 x 2 x 1 1/2	10
3/4 x 1/2 x 3/8	70	2 x 1/2 x 1 1/2	18
3/4 x 1/2 x 1/2	70	2 x 1/2 x 2	15
3/4 x 1/2 x 3/4	60	2 x 3/4 x 1 1/2	16
3/4 x 3/4 x 3/8	60	2 x 3/4 x 2	15
3/4 x 3/4 x 1/2	60	2 x 1 x 1 1/2	15
3/4 x 1 x 1/2	50	2 x 1 x 2	12
3/4 x 1 x 3/4	40	2 x 1 1/4 x 1	12
3/4 x 1 1/4 x 3/4	35	2 x 1 1/4 x 1 1/4	12
1 x 1/4 x 1	40	2 x 1 1/4 x 1 1/2	12
1 x 3/8 x 3/4	50	2 x 1 1/4 x 2	12
1 x 3/8 x 1	50	2 x 1 1/2 x 1	12
1 x 1/2 x 1/2	50	2 x 1 1/2 x 1 1/2	10
1 x 1/2 x 3/4	50	2 x 1 1/2 x 2	10
1 x 1/2 x 1	40	2 x 2 x 1/2	10
1 x 3/4 x 1/2	40	2 x 2 x 3/4	10
1 x 3/4 x 3/4	40	2 x 2 x 1	10
1 x 3/4 x 1	40	2 x 2 x 1 1/4	10
1 x 1 x 3/8	40	2 x 2 x 1 1/2	10
1 x 1 x 1/2	40	2 x 2 1/2 x 2	6
1 x 1 x 3/4	30	2 1/2 x 1/2 x 2 1/2	8
1 x 1 1/4 x 3/4	30	2 1/2 x 3/4 x 2 1/2	8
1 x 1 1/4 x 1	30	2 1/2 x 1 x 2 1/2	8
1 x 1 1/2 x 1	22	2 1/2 x 1 1/4 x 2 1/2	8
1 1/4 x 3/8 x 1 1/4	30	2 1/2 x 1 1/2 x 2 1/2	8
1 1/4 x 1/2 x 1	35	2 1/2 x 2 x 2	6
1 1/4 x 1/2 x 1 1/4	30	2 1/2 x 2 x 2 1/2	6
1 1/4 x 3/4 x 1/2	40	2 1/2 x 2 1/2 x 1 1/2	6
1 1/4 x 3/4 x 3/4	35	2 1/2 x 2 1/2 x 2	6
1 1/4 x 3/4 x 1	32	3 x 1/2 x 3	5
1 1/4 x 3/4 x 1 1/4	30	3 x 3/4 x 3	6
1 1/4 x 1 x 3/8	30	3 x 1 x 3	5
1 1/4 x 1 x 1/2	32	3 x 1 1/4 x 3	4
1 1/4 x 1 x 3/4	30	3 x 1 1/2 x 3	4
1 1/4 x 1 x 1	28	3 x 2 x 2	4
1 1/4 x 1 x 1 1/4	25	3 x 2 x 3	4
1 1/4 x 1 1/4 x 1/2	30	3 x 2 1/2 x 3	3
1 1/4 x 1 1/4 x 3/4	25	3 x 3 x 2	2
1 1/4 x 1 1/4 x 1	25	4 x 1/2 x 4	2
1 1/4 x 1 1/2 x 1	20	4 x 3/4 x 4	2
1 1/4 x 1 1/2 x 1 1/4	18	4 x 1 x 4	2
1 1/4 x 2 x 1 1/4	10	4 x 1 1/2 x 4	2
1 1/2 x 3/8 x 1 1/2	28	4 x 2 x 4	2
1 1/2 x 1/2 x 1 1/4	28	4 x 2 1/2 x 4	2
1 1/2 x 1/2 x 1 1/2	25	4 x 3 x 4	2
1 1/2 x 3/4 x 1 1/4	25	5 x 4 x 5	2



	90R	240	241	245	246
FIG.					
1/4 x 1/8		400	400	400	400
3/8 x 1/8		400	400	400	
3/8 x 1/4	120	400	400	400	400
1/2 x 1/8			400		
1/2 x 1/4	120	150	350	250	220
1/2 x 3/8	120	200	350	230	220
3/4 x 1/4		140	200	150	
3/4 x 3/8	90	140	200	140	150
3/4 x 1/2	90	140	200	150	140
1 x 1/4			140		
1 x 3/8		100	140		
1 x 1/2	50	90	140	100	80
1 x 3/4	50	80	140	100	80
1 1/4 x 3/8		60	80		
1 1/4 x 1/2	50	60	80	60	60
1 1/4 x 3/4	50	60	80	60	50
1 1/4 x 1	40	50	80	50	50
1 1/2 x 3/8			80		
1 1/2 x 1/2		50	70		
1 1/2 x 3/4	30	50	70	50	45
1 1/2 x 1	35	45	70	50	45
1 1/2 x 1 1/4	25	40	70	45	40
2 x 1/2		30	30		
2 x 3/4		30	30		
2 x 1	15	25	30	25	30
2 x 1 1/4	15	22	30	25	25
2 x 1 1/2	15	22	30	25	20
2 1/2 x 1		16	20		
2 1/2 x 1 1/4		14	20		
2 1/2 x 1 1/2		14	20	15	12
2 1/2 x 2	8	10	20	14	12
3 x 1			10		
3 x 1 1/4		10	10		
3 x 1 1/2		10	10		
3 x 2		10	15	8	12
3 x 2 1/2		8	15	8	12
4 x 2		6	8		
4 x 2 1/2		6	8		
4 x 3		6	8	4	
5 x 4			11		
6 x 4			6		
6 x 5			6		



	526
FIG.	
30 x 3/8	350
30 x 1/2	220
40 x 3/8	250
40 x 1/2	200
40 x 3/4	120
50 x 1/2	120
50 x 3/4	100



	92R
FIG.	
1/2" x 3/8"	150
3/4" x 1/2"	90
1" x 3/4"	60
1 1/4" x 1"	30
1 1/2" x 1"	20
1 1/2" x 1 1/4"	20
3/8" x 1/2"	150
1/2" x 3/4"	90
3/4" x 1"	60
1" x 1 1/4"	30

BOXES SIZES

25 x 19 x 20 cm.	37.5 x 27 x 21 cm.
STANDARD	Fig. 1, 1a, 2, 2a 3", 4" Fig. 40, 41 4" Fig. 90, 130, 270, 280 5", 6" Fig. 130R 5" x 4" x 5" Fig. 241 5" x 4" 6" x 4" 6" x 5"

PACKING

In plastic bags with 10 pieces.

Steel fittings.

The standard boxes' size is 25 x 19 x 20 cm.

MALLEABLE CAST IRON FAST FITTINGS

The EO Fast Fittings share characteristics and the manufacturing process of the malleable cast iron pipe fittings. Designed for the joining of pipes through compression adjustment, this system simplifies and optimizes the setting up of new installations as well as the maintenance and modification of already existing installations. The design parameters of this product allow optimal service conditions ensuring the tightness of the installation both in liquids and gases.

In the three design versions - fast fittings, intake and reparation clamps- this range of EO products has become a market leader, with very satisfactory results in different areas of application: water (drinkable, sanitary, irrigation), gas, fuels, compressed air, oils, etc




















 **ATUSA**

FAST FITTINGS



			
740 3/8" to 2 1/2"	740 3" and 4"	746 3/8" to 2 1/2"	746 3" and 4"
			
770 1/2" to 2 1/2"	770 3" and 4"	790 1/2" to 2"	790 2 1/2" and 3"
			
730 1/2" to 2"	730 2 1/2" and 3"	730R various Refs.	730R various Refs.
			
710 1/2" to 4"	715 1/2" to 2"	720 various Refs.	

ASSEMBLY INSTRUCTIONS






740

FEMALE STRAIGHT THREAD




Ø			CODE
3/8"	75	1	740A5002
1/2"	60	1	740A5003
3/4"	30	1	740A5004
1"	20	1	740A5005
1 1/4"	16	1	740A5006
1 1/2"	12	1	740A5007
2"	6	1	740A5008
2 1/2"	6	1	740A5009
3"	2	1	740A500A*
4"	1		740A500C*



746

MALE STRAIGHT THREAD




Ø			CODE
3/8"	75	1	746A5002
1/2"	55	1	746A5003
3/4"	30	1	746A5004
1"	20	1	746A5005
1 1/4"	16	1	746A5006
1 1/2"	12	1	746A5007
2"	6	1	746A5008
2 1/2"	6	1	746A5009
3"	2	1	746A500A*
4"	1		746A500C*



770

DOUBLE STRAIGHT



Ø			CODE
1/2"	50	1	770A5003
3/4"	25	1	770A5004
1"	16	1	770A5005
1 1/4"	12	1	770A5006
1 1/2"	9	1	770A5007
2"	6	1	770A5008
2 1/2"	4	1	770A5009
3"	2	1	770A500A*
4"	1		770A500C*



* Flanged

790

DOUBLE ELBOW



Ø			CODE
1/2"	40	1	790A5003
3/4"	20	1	790A5004
1"	15	1	790A5005
1 1/4"	10	1	790A5006
1 1/2"	6	1	790A5007
2"	4	1	790A5008
2 1/2"	2	1	790A5009*
3"	2	1	790A500A*

730

DOUBLE TEE



Ø			CODE
1/2"	30	1	730A5003
3/4"	20	1	730A5004
1"	15	1	730A5005
1 1/4"	10	1	730A5006
1 1/2"	6	1	730A5007
2"	4	1	730A5008
2 1/2"	2	1	730A5009*
3"	2	1	730A500A*

730R

DOUBLE REDUCING TEE




Ø			CODE
3/4" x 1/2"	20	1	730A5434
1" x 1/2"	15	1	730A5535
1" x 3/4"	15	1	730A5545
1 1/4" x 1/2"	10	1	730A5636
1 1/4" x 3/4"	10	1	730A5646
1 1/4" x 1"	10	1	730A5656
1 1/2" x 1/2"	6	1	730A5737
1 1/2" x 3/4"	6	1	730A5747
1 1/2" x 1"	6	1	730A5757
1 1/2" x 1 1/4"	6	1	730A5767
2" x 1/2"	4	1	730A5838
2" x 3/4"	4	1	730A5848
2" x 1"	4	1	730A5858
2" x 1 1/4"	4	1	730A5868
2" x 1 1/2"	4	1	730A5878
2 1/2" x 2"	2	1	730A5989*
3" x 2"	2	1	730A5A8A*

* Flanged

710

LONG SEALING CLAMP




Ø		CODE
1/2"	17 1	71005003
3/4"	13 1	71005004
1"	11 1	71005005
1 1/4"	9 1	71005006
1 1/2"	7 1	71005007
2"	5 1	71005008
2 1/2"	4 1	71005009
3"	2 1	7100500A
4"	1	7100500C

715

SHORT SEALING CLAMP




Ø		CODE
1/2"	40 1	71505003
3/4"	30 1	71505004
1"	20 1	71505005
1 1/4"	16 1	71505006
1 1/2"	11 1	71505007
2"	8 1	71505008

720

INTAKE CLAMP



Ø		CODE
1/2" x 1/2"	35 1	72005033
3/4" x 1/2"	30 1	72005043
1" x 1/2"	23 1	72005053
1 1/4" x 3/4"	14 1	72005064
1 1/2" x 3/4"	10 1	72005074
2" x 1"	8 1	72005085

DUCTILE CAST IRON **GROOVED** SYSTEM

Produced in Ductile iron according to ASTM A-536 grade 65-45-12, with sealing gasket (EPDM grade E according to ASTM D-2000) and together with their corresponding clamping components (bolts and nuts made of zinc-plated steel). They are available with hot dip galvanised or red painted finish.

These articles are suitable for fluid transport such water, oil free air, and a broad range of chemical products. The EO grooved fittings are fire protection systems certified according to FM Approvals 1920, UL 213 and VdS 2100-06 / 2344 standards.

Valves are also fire protection systems certified according to FM, UL and VdS standards.



FM (Factory Mutual Research Corp.)



VdS (Vertrauen durch Sicherheit)



UL (Underwriter's Laboratories, Inc.)



WRAS (Water Regulations Advisory Scheme Ltd.)

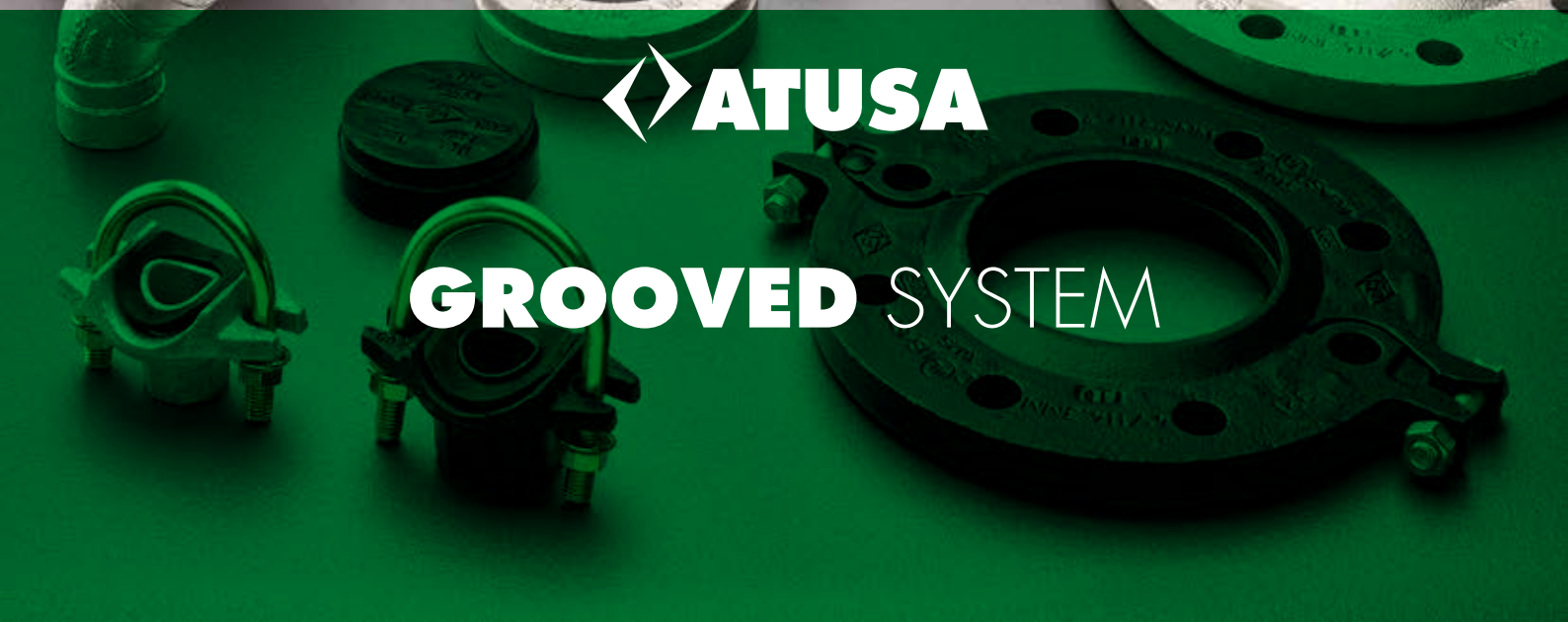
EPDM Rubber Approval

GROOVED
SYSTEM



 **ATUSA**

GROOVED SYSTEM



RN

RIGID COUPLING



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
1"	33,7	25	32	6RN2G205		6RN2G505	
1 1/4"	42,4	32	27	6RN2G206		6RN2G506	
1 1/2"	48,3	40	24	6RN2G207		6RN2G507	
2"	60,3	50	16	6RN2G208		6RN2G508	
2 1/2"	76,1	65	12	6RN2G20B		6RN2G50B	
3"	88,9	80	20	6RN2G20A		6RN2G50A	
4"	114,3	100	10	6RN2G20C		6RN2G50C	
5"	139,7	125	8	6RN2G20H		6RN2G50H	
6 1/2" O.D	165,1	150	5	6RN2G20K		6RN2G50K	
6"	168,3	150	5	6RN2G20E		6RN2G50E	
8"	219,1	200	3	6RN2G20M		6RN2G50M	
10"	273,0	250	3	6RN2G20N		6RN2G50N	
12"	323,9	300	3	6RN2G20Q		6RN2G50Q	

QR

QUICK RIGID COUPLING



Ø	Ø EXT. mm.	DN		RED CODE (RAL 300 0)		GALVANIZED CODE	
1 1/4"	42,4	32	24	6QR2G206		6QR2G506	
1 1/2"	48,3	40	22	6QR2G207		6QR2G507	
2"	60,3	50	16	6QR2G208		6QR2G508	
2 1/2"	76,1	65	12	6QR2G20B		6QR2G50B	
3"	88,9	80	20	6QR2G20A		6QR2G50A	
4"	114,3	100	10	6QR2G20C		6QR2G50C	

RS

RIGID COUPLING "S"



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
2 1/2"	76,1	65	12	6RN2G20B		6RN2G50B	
3"	88,9	80	20	6RS2G20A		6RS2G50A	
4"	114,3	100	11	6RS2G20C		6RS2G50C	
5"	139,7	125	8	6RS2G20H		6RS2G50H	
6 1/2" O.D	165,1	150	7	6RS2G20K		6RS2G50K	
6"	168,3	150	7	6RS2G20E		6RS2G50E	
8"	219,1	200	3	6RS2G20M		6RS2G50M	
10"	273,0	250	3	6RS2G20N		6RS2G50N	

FN**FLEXIBLE COUPLING**

Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1"	33,7	25	32	6FN2G205	6FN2G505
1 1/4"	42,4	32	27	6FN2G206	6FN2G506
1 1/2"	48,3	40	24	6FN2G207	6FN2G507
2"	60,3	50	16	6FN2G208	6FN2G508
2 1/2"	76,1	65	12	6FN2G20B	6FN2G50B
3"	88,9	80	20	6FN2G20A	6FN2G50A
4"	114,3	100	10	6FN2G20C	6FN2G50C
5"	139,7	125	8	6FN2G20H	6FN2G50H
6 1/2" O.D	165,1	150	5	6FN2G20K	6FN2G50K
6"	168,3	150	5	6FN2G20E	6FN2G50E
8"	219,1	200	3	6FN2G20M	6FN2G50M
10"	273,0	250	3	6FN2G20N	6FN2G50N
12"	323,9	300	3	6FN2G20Q	6FN2G50Q

FR**REDUCED COUPLING**

Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
2"x1 1/2"	60,3x48,3	50x40	16	6FR2G287	6FR2G587
2 1/2"x2"	76,1x60,3	65x50	12	6FR2G2B8	6FR2G5B8
3"x2"	88,9x60,3	80x50	16	6FR2G2A8	6FR2G5A8
3"x2 1/2"	88,9x76,1	80x65	16	6FR2G2AB	6FR2G5AB
4"x2"	114,3x60,3	100x50	8	6FR2G2C8	6FR2G5C8
4"x2 1/2"	114,3x76,1	100x65	8	6FR2G2CB	6FR2G5CB
4"x3"	114,3x88,9	100x80	8	6FR2G2CA	6FR2G5CA

DS1

THREADED MECHANICAL TEE




Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE
1 1/4"x1"	42,4x33,7	32x25	30	6DS2T265		6DS2T565
1 1/2"x1"	48,3x33,7	40x25	30	6DS2T275		6DS2T575
2"x1/2"	60,3x21,3	50x15	18	6DS2T283		6DS2T583
2"x3/4"	60,3x26,9	50x20	18	6DS2T284		6DS2T584
2"x1"	60,3x33,7	50x25	18	6DS2T285		6DS2T585
2"x1 1/4"	60,3x42,4	50x32	12	6DS2T286		6DS2T586
2"x1 1/2"	60,3x48,3	50x40	15	6DS2T287		6DS2T587
2 1/2"x1/2"	76,1x21,3	65x15	10	6DS2T2B3		6DS2T5B3
2 1/2"x3/4"	76,1x26,9	65x20	10	6DS2T2B4		6DS2T5B4
2 1/2"x1"	76,1x33,7	65x25	10	6DS2T2B5		6DS2T5B5
2 1/2"x1 1/4"	76,1x42,4	65x32	8	6DS2T2B6		6DS2T5B6
2 1/2"x1 1/2"	76,1x48,3	65x40	8	6DS2T2B7		6DS2T5B7
3"x1/2"	88,9x21,3	80x15	6	6DS2T2A3		6DS2T5A3
3"x3/4"	88,9x26,9	80x20	6	6DS2T2A4		6DS2T5A4
3"x1"	88,9x33,7	80x25	6	6DS2T2A5		6DS2T5A5
3"x1 1/4"	88,9x42,4	80x32	8	6DS2T2A6		6DS2T5A6
3"x1 1/2"	88,9x48,3	80x40	8	6DS2T2A7		6DS2T5A7
3"x2"	88,9x60,3	80x50	5	6DS2T2A8		6DS2T5A8
4"x1/2"	114,3x21,3	100x15	12	6DS2T2C3		6DS2T5C3
4"x3/4"	114,3x26,9	100x20	12	6DS2T2C4		6DS2T5C4
4"x1"	114,3x33,7	100x25	12	6DS2T2C5		6DS2T5C5
4"x1 1/4"	114,3x42,4	100x32	10	6DS2T2C6		6DS2T5C6
4"x1 1/2"	114,3x48,3	100x40	10	6DS2T2C7		6DS2T5C7
4"x2"	114,3x60,3	100x50	10	6DS2T2C8		6DS2T5C8
4"x2 1/2"	114,3x76,1	100x65	8	6DS2T2CB		6DS2T5CB
4"x3"	114,3x88,9	100x80	6	6DS2T2CA		6DS2T5CA
5"x1"	139,7x33,7	125x25	6	6DS2T2H5		6DS2T5H5
5"x2"	139,7x60,3	125x50	4	6DS2T2H8		6DS2T5H8
6 1/2" O.Dx1 1/2"	165,1x48,3	150x40	5	6DS2T2K7		6DS2T5K7
6 1/2" O.Dx2"	165,1x60,3	150x50	5	6DS2T2K8		6DS2T5K8
6 1/2" O.Dx2 1/2"	165,1x76,1	150x65	5	6DS2T2KB		6DS2T5KB
6"x1 1/4"	168,3x42,4	150x32	5	6DS2T2E6		6DS2T5E6
6"x1 1/2"	168,3x48,3	150x40	5	6DS2T2E7		6DS2T5E7
6"x2"	168,3x60,3	150x50	5	6DS2T2E8		6DS2T5E8
6"x3"	168,3x88,9	150x80	4	6DS2T2EA		6DS2T5EA
8"x2"	219,1x60,3	200x50	3	6DS2T2M8		6DS2T5M8
10"x2"	273,0x60,3	250x50	4	6DS2T2N8		6DS2T5N8
10"x2 1/2"	273,0x76,1	250x65	4	6DS2T2NB		6DS2T5NB
10"x3"	273,0x88,9	250x80	3	6DS2T2NA		6DS2T5NA

DS2

GROOVED MECHANICAL TEE




Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
2"x1 1/4"	60,3x42,4	50x32	15	6DS2G286	6DS2G586
2"x1 1/2"	60,3x48,3	50x40	15	6DS2G287	6DS2G587
2 1/2"x1"	76,1x33,7	65x25	8	6DS2G2B5	6DS2G5B5
2 1/2"x1 1/4"	76,1x42,4	65x32	8	6DS2G2B6	6DS2G5B6
2 1/2"x1 1/2"	76,1x48,3	65x40	8	6DS2G2B7	6DS2G5B7
3"x1"	88,9x33,7	80x25	8	6DS2G2A5	6DS2G5A5
3"x1 1/4"	88,9x42,4	80x32	8	6DS2G2A6	6DS2G5A6
3"x1 1/2"	88,9x48,3	80x40	8	6DS2G2A7	6DS2G5A7
3"x2"	88,9x60,3	80x50	5	6DS2G2A8	6DS2G5A8
4"x1 1/4"	114,3x42,4	100x32	12	6DS2G2C6	6DS2G5C6
4"x1 1/2"	114,3x48,3	100x40	10	6DS2G2C7	6DS2G5C7
4"x2"	114,3x60,3	100x50	10	6DS2G2C8	6DS2G5C8
4"x2 1/2"	114,3x76,1	100x65	8	6DS2G2CB	6DS2G5CB
4"x3"	114,3x88,9	100x80	8	6DS2G2CA	6DS2G5CA
5"x1 1/4"	139,7x42,4	125x32	6	6DS2G2H6	6DS2G5H6
5"x2"	139,7x60,3	125x50	4	6DS2G2H8	6DS2G5H8
5"x2 1/2"	139,7x76,1	125x65	4	6DS2G2HB	6DS2G5HB
5"x3"	139,7x88,9	125x80	4	6DS2G2HA	6DS2G5HA
6 1/2" O.Dx2"	165,1x60,3	150x50	5	6DS2G2K8	6DS2G5K8
6 1/2" O.Dx2 1/2"	165,1x76,1	150x65	5	6DS2G2KB	6DS2G5KB
6"x1 1/4"	168,3x42,4	150x32	5	6DS2G2E6	6DS2G5E6
6"x1 1/2"	168,3x48,3	150x40	5	6DS2G2E7	6DS2G5E7
6"x2"	168,3x60,3	150x50	5	6DS2G2E8	6DS2G5E8
6"x2 1/2"	168,3x76,1	150x65	4	6DS2G2EB	6DS2G5EB
6"x3"	168,3x88,9	150x80	4	6DS2G2EA	6DS2G5EA
6"x4"	168,3x114,3	150x100	4	6DS2G2EC	6DS2G5EC
8"x2"	219,1x60,3	200x50	3	6DS2G2M8	6DS2G5M8
8"x2 1/2"	219,1x76,1	200x65	3	6DS2G2MB	6DS2G5MB
8"x3"	219,1x88,9	200x80	3	6DS2G2MA	6DS2G5MA
8"x4"	219,1x114,3	200x100	3	6DS2G2MC	6DS2G5MC
10"x4"	273,0x114,3	250x100	3	6DS2G2NC	6DS2G5NC

GROOVED SYSTEM

DA1

BRANCH OUTLET (U-BOLTED)



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1 1/4"x1/2"	42,4x21,3	32x15	32	6DA2T263	6DA2T563
1 1/4"x3/4"	42,4x26,9	32x20	32	6DA2T264	6DA2T564
1 1/4"x1"	42,4x33,7	32x25	32	6DA2T265	6DA2T565
1 1/2"x1/2"	48,3x21,3	40x15	32	6DA2T273	6DA2T573
1 1/2"x3/4"	48,3x26,9	40x20	32	6DA2T274	6DA2T574
1 1/2"x1"	48,3x33,7	40x25	24	6DA2T275	6DA2T575
2"x1/2"	60,3x21,3	50x15	30	6DA2T283	6DA2T583
2"x3/4"	60,3x26,9	50x20	30	6DA2T284	6DA2T584
2"x1"	60,3x33,7	50x25	20	6DA2T285	6DA2T585
2 1/2"x1/2"	76,1x21,3	65x15	20	6DA2T2B3	6DA2T5B3
2 1/2"x3/4"	76,1x26,9	65x20	20	6DA2T2B4	6DA2T5B4
2 1/2"x1"	76,1x33,7	65x25	20	6DA2T2B5	6DA2T5B5

90

90° ELBOW



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
1"	33,7	25	40	60900205		60900505	
1 1/4"	42,4	32	32	60900206		60900506	
1 1/2"	48,3	40	24	60900207		60900507	
2"	60,3	50	14	60900208		60900508	
2 1/2"	76,1	65	6	6090020B		6090050B	
3"	88,9	80	4	6090020A		6090050A	
4"	114,3	100	4	6090020C		6090050C	
5"	139,7	125	2	6090020H		6090050H	
6 1/2" O.D	165,1	150	1	6090020K		6090050K	
6"	168,3	150	1	6090020E		6090050E	
8"	219,1	200	1	6090020M		6090050M	
10"	273,0	250	1	6090020N		6090050N	
12"	323,9	300	1	6090020Q		6090050Q	

90S

"S" STANDARD 90° ELBOW




Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
2"	60,3	50	30	6090S208		6090S508	
2 1/2"	76,1	65	14	6090S20B		6090S50B	
3"	88,9	80	10	6090S20A		6090S50A	
4"	114,3	100	10	6090S20C		6090S50C	
5"	139,7	125	6	6090S20H		6090S50H	
6 1/2" O.D	165,1	150	4	6090S20K		6090S50K	
6"	168,3	150	4	6090S20E		6090S50E	
8"	219,1	200	1	6090S20M		6090S50M	

105

11,25° ELBOW




Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
1 1/4"	42,4	32	48	61050206		61050506	
1 1/2"	48,3	40	40	61050207		61050507	
2"	60,3	50	27	61050208		61050508	
2 1/2"	76,1	65	12	6105020B		6105050B	
3"	88,9	80	12	6105020A		6105050A	
4"	114,3	100	12	6105020C		6105050C	
5"	139,7	125	5	6105020H		6105050H	
6 1/2" O.D	165,1	150	4	6105020K		6105050K	
6"	168,3	150	4	6105020E		6105050E	
8"	219,1	200	1	6105020M		6105050M	

110

22,5° ELBOW




Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
1 1/4"	42,4	32	40	61100206		61100506	
1 1/2"	48,3	40	40	61100207		61100507	
2"	60,3	50	18	61100208		61100508	
2 1/2"	76,1	65	10	6110020B		6110050B	
3"	88,9	80	8	6110020A		6110050A	
4"	114,3	100	6	6110020C		6110050C	
5"	139,7	125	3	6110020H		6110050H	
6 1/2" O.D	165,1	150	2	6110020K		6110050K	
6"	168,3	150	2	6110020E		6110050E	
8"	219,1	200	1	6110020M		6110050M	

120

45° ELBOW



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE	
1"	33,7	25	40	61200205		61200505	
1 1/4"	42,4	32	36	61200206		61200506	
1 1/2"	48,3	40	36	61200207		61200507	
2"	60,3	50	18	61200208		61200508	
2 1/2"	76,1	65	10	6120020B		6120050B	
3"	88,9	80	6	6120020A		6120050A	
4"	114,3	100	6	6120020C		6120050C	
5"	139,7	125	3	6120020H		6120050H	
6 1/2" O.D	165,1	150	2	6120020K		6120050K	
6"	168,3	150	2	6120020E		6120050E	
8"	219,1	200	1	6120020M		6120050M	
10"	273,0	250	1	6120020N		6120050N	
12"	323,9	300	1	6120020Q		6120050Q	

240

CONCENTRIC REDUCER



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1 1/4"x1"	42,4x33,7	32x25	60	62400265	62400565
1 1/2"x1"	48,3x33,7	40x25	50	62400275	62400575
1 1/2"x1 1/4"	48,3x42,4	40x32	50	62400276	62400576
2"x1"	60,3x33,7	50x25	36	62400285	62400585
2"x1 1/4"	60,3x42,4	50x32	36	62400286	62400586
2"x1 1/2"	60,3x48,3	50x40	36	62400287	62400587
2 1/2"x1"	76,1x33,7	65x25	18	624002B5	624005B5
2 1/2"x1 1/4"	76,1x42,4	65x32	18	624002B6	624005B6
2 1/2"x1 1/2"	76,1x48,3	65x40	18	624002B7	624005B7
2 1/2"x2"	76,1x60,3	65x50	18	624002B8	624005B8
3"x1"	88,9x33,7	80x25	21	624002A5	624005A5
3"x1 1/4"	88,9x42,4	80x32	21	624002A6	624005A6
3"x1 1/2"	88,9x48,3	80x40	21	624002A7	624005A7
3"x2"	88,9x60,3	80x50	21	624002A8	624005A8
3"x 2 1/2"	88,9x76,1	80x65	18	624002AB	624005AB
4"x1 1/4"	114,3x42,4	100x32	24	624002C6	624005C6
4"x1 1/2"	114,3x48,3	100x40	24	624002C7	624005C7
4"x2"	114,3x60,3	100x50	24	624002C8	624005C8
4"x 2 1/2"	114,3x76,1	100x65	24	624002CB	624005CB
4"x3"	114,3x88,9	100x80	18	624002CA	624005CA
5"x4"	139,7x114,3	125x100	4	624002HC	624005HC
6 1/2" O.Dx2 1/2"	165,1x76,1	150x65	7	624002KB	624005KB
6 1/2" O.Dx3"	165,1x88,9	150x80	7	624002KA	624005KA
6 1/2" O.Dx4"	165,1x114,3	150x100	7	624002KC	624005KC
6 1/2" O.Dx5"	165,1x139,7	150x125	4	624002KH	624005KH
6"x2"	168,3x60,3	150x50	7	624002E8	624005E8
6"x2 1/2"	168,3x76,1	150x65	7	624002EB	624005EB
6"x3"	168,3x88,9	150x80	7	624002EA	624005EA
6"x4"	168,3x114,3	150x100	7	624002EC	624005EC
6"x5"	168,3x139,7	150x125	4	624002EH	624005EH
8"x3"	219,1x88,9	200x80	4	624002MA	624005MA
8"x4"	219,1x114,3	200x100	4	624002MC	624005MC
8"x5"	219,1x139,7	200x125	3	624002MH	624005MH
8"x6 1/2" O.D	219,1x165,1	200x150	3	624002MK	624005MK
8"x6"	219,1x168,3	200x150	4	624002ME	624005ME
10"x6"	273,0x168,3	250x150	1	624002NE	624005NE
10"x8"	273,0x219,1	250x200	1	624002NM	624005NM
12"x8"	323,9x219,1	300x200	1	624002QM	624005QM
12"x10"	323,9x273,0	300x250	1	624002QN	624005QN

130

TEE



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE
1"	33,7	25	42	61300205		61300505
1 1/4"	42,4	32	22	61300206		61300506
1 1/2"	48,3	40	18	61300207		61300507
2"	60,3	50	8	61300208		61300508
2 1/2"	76,1	65	7	6130020B		6130050B
3"	88,9	80	5	6130020A		6130050A
4"	114,3	100	3	6130020C		6130050C
5"	139,7	125	1	6130020H		6130050H
6 1/2" O.D.	165,1	150	1	6130020K		6130050K
6"	168,3	150	2	6130020E		6130050E
8"	219,1	200	1	6130020M		6130050M
10"	273,0	250	1	6130020N		6130050N
12"	323,9	300	1	6130020Q		6130050Q

130S

"S" STANDARD TEE



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE
2"	60,3	50	18	6130S208		6130S508
2 1/2"	76,1	65	10	6130S20B		6130S50B
3"	88,9	80	6	6130S20A		6130S50A
4"	114,3	100	6	6130S20C		6130S50C
5"	139,7	125	4	6130S20H		6130S50H
6 1/2" O.D.	165,1	150	2	6130S20K		6130S50K
6"	168,3	150	2	6130S20E		6130S50E
8"	219,1	200	1	6130S20M		6130S50M

130R

REDUCING TEE



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)		GALVANIZED CODE
2"x1"	60,3x33,7	50x25	8	61300285		61300585
2"x1 1/2"	60,3x48,3	50x40	8	61300287		61300587
2 1/2"x1 1/4"	76,1x42,4	65x32	7	613002B6		613005B6
2 1/2"x1 1/2"	76,1x48,3	65x40	7	613002B7		613005B7
2 1/2"x2"	76,1x60,3	65x50	7	613002B8		613005B8
3"x1"	88,9x33,7	80x25	5	613002A5		613005A5
3"x1 1/4"	88,9x42,4	80x32	5	613002A6		613005A6
3"x1 1/2"	88,9x48,3	80x40	5	613002A7		613005A7
3"x2"	88,9x60,3	80x50	5	613002A8		613005A8
3"x2 1/2"	88,9x76,1	80x65	5	613002AB		613005AB
4"x1 1/2"	114,3x48,3	100x40	3	613002C7		613005C7
4"x2"	114,3x60,3	100x50	3	613002C8		613005C8
4"x2 1/2"	114,3x76,1	100x65	3	613002CB		613005CB
4"x3"	114,3x88,9	100x80	2	613002CA		613005CA
5"x4"	139,7x114,3	125x100	1	613002HC		613005HC
6 1/2" O.Dx2"	165,1x60,3	150x50	1	613002K8		613005K8
6 1/2" O.Dx2 1/2"	165,1x76,1	150x65	1	613002KB		613005KB
6 1/2" O.Dx3"	165,1x88,9	150x80	1	613002KA		613005KA
6 1/2" O.Dx4"	165,1x114,3	150x100	1	613002KC		613005KC
6 1/2" O.Dx5"	165,1x139,7	150x125	1	613002KH		613005KH
6"x2"	168,3x60,3	150x50	1	613002E8		613005E8
6"x2 1/2"	168,1x76,1	150x65	1	613002EB		613005EB
6"x3"	168,3x88,9	150x80	1	613002EA		613005EA
6"x4"	168,3x114,3	150x100	1	613002EC		613005EC
6"x5"	168,3x139,7	150x125	1	613002EH		613005EH
8"x3"	219,1x88,9	200x80	1	613002MA		613005MA
8"x4"	219,1x114,3	200x100	1	613002MC		613005MC
8"x5"	219,1x139,7	200x125	1	613002MH		613005MH
10"x6"	273,0x168,3	250x150	1	613002NE		613005NE

180

CROSS



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1 1/2"	48,3	40	8	61800207	61800507
2"	60,3	50	4	61800208	61800508
2 1/2"	76,1	65	2	6180020B	6180050B
3"	88,9	80	2	6180020A	6180050A
4"	114,3	100	1	6180020C	6180050C
5"	139,7	125	1	6180020H	6180050H
6"	168,3	150	1	6180020E	6180050E

300

CAP



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1"	33,7	25	165	63000205	63000505
1 1/4"	42,4	32	160	63000206	63000506
1 1/2"	48,3	40	160	63000207	63000507
2"	60,3	50	96	63000208	63000508
2 1/2"	76,1	65	52	6300020B	6300050B
3"	88,9	80	36	6300020A	6300050A
4"	114,3	100	20	6300020C	6300050C
5"	139,7	125	12	6300020H	6300050H
6 1/2" O.D	165,1	150	10	6300020K	6300050K
6"	168,3	150	10	6300020E	6300050E
8"	219,1	200	1	6300020M	6300050M
10"	273,0	250	1	6300020N	6300050N
12"	323,9	300	1	6300020Q	6300050Q

315

DRAIN CAP (2") CONCENTRIC THREADED



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
2 1/2"x2"	76,1x60,3	65x50	52	631502B8	631505B8
3"x2"	88,9x60,3	80x50	36	631502A8	631505A8
4"x2"	114,3x60,3	100x50	20	631502C8	631505C8
5"x2"	139,7x60,3	125x50	12	631502H8	631505H8
6 1/2" O.Dx2"	165,1x60,3	150x50	10	631502K8	631505K8
6"x2"	168,3x60,3	150x50	10	631502E8	631505E8

316

DRAIN CAP (2") ECCENTRIC THREADED



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
3"x2"	88,9x60,3	80x50	36	631602A8	631605A8
4"x2"	114,3x60,3	100x50	20	631602C8	631605C8
5"x2"	139,7x60,3	125x50	12	631602H8	631605H8
6"x2"	168,3x60,3	150x50	10	631602E8	631605E8
8"x2"	219,1x60,3	200x50	3	631602M8	631605M8

321

ADAPTOR FLANGE



PN 10



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1"	33,7	25	12	63210205	63210505
1 1/4"	42,4	32	10	63210206	63210506
1 1/2"	48,3	40	8	63210207	63210507
2"	60,3	50	4	63210208	63210508
2 1/2"	76,1	65	4	6321020B	6321050B
3"	88,9	80	5	6321020A	6321050A
4"	114,3	100	4	6321020C	6321050C
5"	139,7	125	2	6321020H	6321050H
6 1/2" O.D	165,1	150	4	6321020K	6321050K
6"	168,3	150	4	6321020E	6321050E
8"	219,1	200	1	6321020M	6321050M
10"	273,0	250	1	6321020N	6321050N
12"	323,9	300	1	6321020Q	6321050Q
8" PN10	219,1	200	1	6321120M	6321150M
10" PN10	273,0	250	1	6321120N	6321150N
12" PN10	323,9	300	1	6321120Q	6321150Q

322

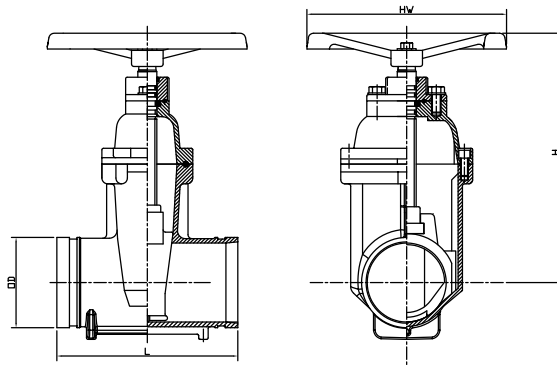
HINGED ADAPTOR FLANGE



Ø	Ø EXT. mm.	DN		RED CODE (RAL 3000)	GALVANIZED CODE
1 1/2"	48,3	40	16	63220207	63220507
2"	60,3	50	14	63220208	63220508
2 1/2"	76,1	65	12	6322020B	6322050B
3"	88,9	80	12	6322020A	6322050A
4"	114,3	100	10	6322020C	6322050C
5"	139,7	125	7	6322020H	6322050H
6 1/2" O.D	165,1	150	7	6322020K	6322050K
6"	168,3	150	7	6322020E	6322050E
8"	219,1	200	2	6322020M	6322050M
10"	273,0	250	2	6322020N	6322050N
12"	323,9	300	2	6322020Q	6322050Q

600

GROOVED RESILIENT GATE VALVE (HANDWHEEL, NRS)



TECHNICAL FEATURES

Production according to BS 5163.
Grooves according to ISO 6182.
Working pressure: PN16 (230 PSI; 1.6 MPa).
Working temperature: 0° C to 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
UL and FM standards approval.

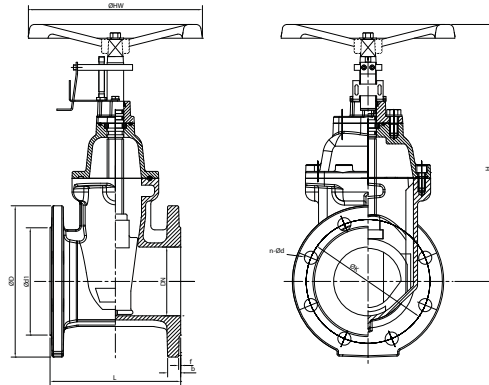
COMPONENTS

- Body and bonnet:** ductile iron EN-GJS-450-10
- Wedge (disc):** ductile iron EN-GJS-450-10
- Wedge coating:** EPDM
- Stem:** stainless steel 2Cr13
- O-ring:** NBR
- Handwheel:** ductile iron EN-GJS-450-10
- Gland flange:** ductile iron EN-GJS-450-10

STEEL TUBE			DIMENSION			CODE
Ø	Ø D mm.	DN	L mm.	H mm.	Ø HW mm.	
2"	60,3	50	178	218	180	6V600208
2 1/2"	76,1	65	190	230	180	6V60020B
3"	88,9	80	203	281	200	6V60020A
4"	114,3	100	229	316	254	6V60020C
5"	139,7	125	254	393	280	6V60020H
6"	168,3	150	267	420	305	6V60020E
8"	219,1	200	292	490	350	6V60020M

660

FLANGED RESILIENT GATE VALVE (HANDWHEEL, NRS)



(Ref. 6VSWITC1), see page 48.

* Possibility of incorporating an opening control electronic device.



TECHNICAL FEATURES

Connection ends: flanges acc. EN-1092-2.
Working pressure: PN10/16 (150/230 PSI ; 1.0/1.6 MPa).
Working temperature: 0° C to 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
VdS, UL and FM standards approval.

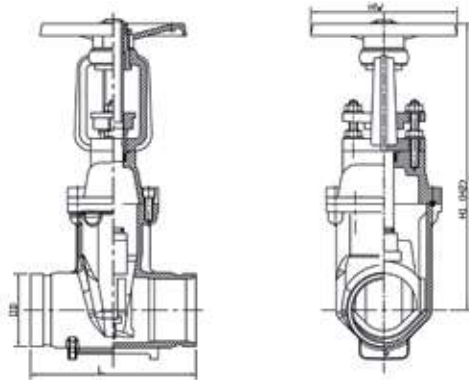
COMPONENTS

- Body and bonnet:** ductile iron EN-GJS-450-10
- Wedge (disc):** ductile iron EN-GJS-450-10
- Wedge coating:** EPDM
- Stem*:** stainless steel 2Cr13
- O-ring:** NBR
- Handwheel:** ductile iron EN-GJS-450-10
- Gland flange:** ductile iron EN-GJS-450-10

STEEL TUBE			DIMENSION									CODE
Ø	Ø D mm.	DN	L (F4) mm.	D mm.	K mm.	d1 mm.	H mm.	HW mm.	b mm.	f mm.	n-Ød mm.	
2"	60,3	50	150	165	125	99	282	180	19,0	3	4x19	6V660208
2 1/2"	76,1	65	170	185	145	118	290	180	19,0	3	4x19	6V66020B
3"	88,9	80	180	200	160	132	331	200	19,0	3	8x19	6V66020A
4"	114,3	100	190	220	180	156	366	254	19,0	3	8x19	6V66020C
5"	139,7	125	200	250	210	184	447	280	19,0	3	8x19	6V66020H
6"	168,3	150	210	285	240	211	490	305	19,0	3	8x23	6V66020E
8"	219,1	200	230	340	295	266	560	350	20,0	3	12x23	6V66020M
10"	273,0	250	250	405	355	319	706	450	22,0	3	12x28	6V66020N
12"	323,9	300	270	460	410	370	802	450	24,5	4	12x28	6V66020Q

610

GROOVED RESILIENT OS&Y GATE VALVE (RS, Pre-Grooved Stem)



(Ref. 6VSWITC2), see page 48.

* Possibility of incorporating an opening control electronic device.



TECHNICAL FEATURES

Production according to BS 5163.
Grooves according to ISO 6182.
Working pressure: PN16 (230 PSI; 1.6 MPa).
Working temperature: 0° C to 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
UL and FM standards approval.

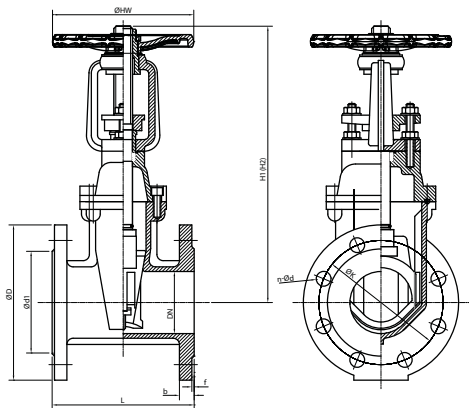
COMPONENTS

Body, bonnet and yoke: ductile iron EN-GJS-450-10
Wedge (disc): ductile iron EN-GJS-450-10
Wedge coating: EPDM
Stem*: stainless steel 2Cr13
O-ring: NBR
Handwheel: ductile iron EN-GJS-450-10
Gland flange: ductile iron EN-GJS-450-10

STEEL TUBE			DIMENSION				CODE
Ø	Ø D mm.	DN	L mm.	H1 CLOSED mm.	H2 OPENED mm.	Ø HW mm.	
2"	60,3	50	178	323	373	180	6V610208
2 1/2"	76,1	65	190	343	408	180	6V61020B
3"	88,9	80	203	370	450	200	6V61020A
4"	114,3	100	229	442	542	254	6V61020C
5"	139,7	125	254	540	665	280	6V61020H
6"	168,3	150	267	608	758	305	6V61020E
8"	219,1	200	292	720	920	350	6V61020M

670

FLANGED RESILIENT OS&Y GATE VALVE (HANDWHEEL, RS, pre-NOTCHED STEM)



(Ref. 6VSWITC2), see page 48.

* Possibility of incorporating an opening control electronic device.



TECHNICAL FEATURES

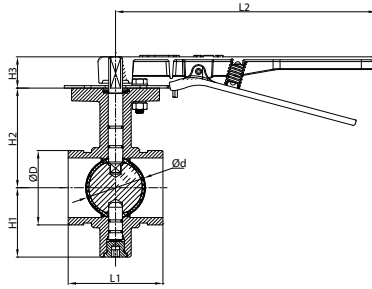
Connection ends: flanges acc. EN-1092-2.
Working pressure: PN10/16 (150/230 PSI ; 1.0/1.6 MPa).
Working temperature: 0° C to 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
VdS, UL and FM standards approval.

COMPONENTS

Body, bonnet and yoke: ductile iron EN-GJS-450-10
Wedge (disc): ductile iron EN-GJS-450-10
Wedge coating: EPDM
Stem*: stainless steel 2Cr13
O-ring: NBR
Handwheel: ductile iron EN-GJS-450-10
Gland flange: ductile iron EN-GJS-450-10

STEEL TUBE			DIMENSION										CODE
Ø	Ø D mm.	DN	L (F4) mm.	D mm.	K mm.	d1 mm.	H1 CLOSED mm.	H2 OPENED mm.	HW mm.	b mm.	f mm.	n-Ød mm.	
2"	60,3	50	150	165	125	99	323	373	180	19,0	3	4x19	6V670208
2 1/2"	76,1	65	170	185	145	118	343	408	180	19,0	3	4x19	6V67020B
3"	88,9	80	180	200	160	132	370	450	200	19,0	3	8x19	6V67020A
4"	114,3	100	190	220	180	156	442	542	254	19,0	3	8x19	6V67020C
5"	139,7	125	200	250	210	184	540	665	280	19,0	3	8x19	6V67020H
6"	168,3	150	210	285	240	211	608	758	305	19,0	3	8x23	6V67020E
8"	219,1	200	230	340	295	266	720	920	350	20,0	3	12x23	6V67020M
10"	273,0	250	250	405	355	319	940	1190	450	22,0	3	12x28	6V67020N
12"	323,9	300	270	460	410	370	1065	1365	450	24,5	4	12x28	6V67020Q

620 GROOVED RESILIENT CENTERLINE BUTTERFLY VALVE (LEVER)



TECHNICAL FEATURES

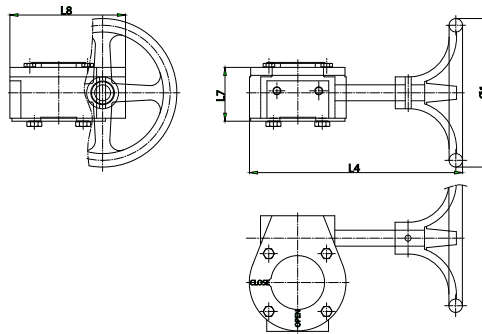
Production according to MSS SP-67.
Grooves according to ISO 6182.
Top flange: ISO 5211.
Working pressure: PN16 (230 PSI; 1.6 MPa).
Working temperature: 0° C to 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.

COMPONENTS

Body: ductile iron EN-GJS-450-10
Disc: ductile iron EN-GJS-450-10
Disc coating: EPDM
Lever: ductile iron EN-GJS-450-10
O-ring: NBR
Stem: stainless steel SS431

STEEL TUBE			DIMENSION						CODE
Ø	Ø D mm.	DN	Ø d mm.	H1 mm.	H2 mm.	H3 mm.	L1 mm.	L2 mm.	
2"	60,3	50	50,3	65	89	32	81	267	6V620208
2 1/2"	76,1	65	60,8	71	102	32	97	267	6V62020B
3"	88,9	80	76,0	81	109	32	97	267	6V62020A
4"	114,3	100	98,5	95	128	32	116	267	6V62020C
5"	139,7	125	122,6	111	141	32	148	267	6V62020H
6"	168,3	150	148,0	133	153	32	148	267	6V62020E
8"	219,1	200	199,0	164	184	45	133	356	6V62020M

VOL HANDWHEEL (SPARE)



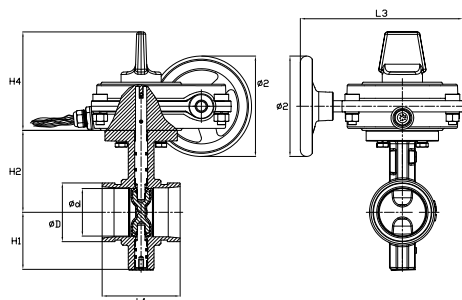
COMPONENTES

Body: ductile iron EN-GJS-450-10
Handwheel: ductile iron EN-GJS-450-10
Stem: stainless steel UNS S43100 (SS431)

STEEL TUBE			DIMENSION				CODE
Ø	Ø D mm.	DN	Ø 1 mm.	L4 mm.	L7 mm.	L8 mm.	
2" - 2 1/2" - 3"	60,3 - 76,1 - 88,9	50 - 65 - 80	150	210	54	114	6VVOL8BA*
5" - 6"	139,7 - 168,3	125 - 150	150	210	54	114	6VVOLHKE*

* AVAILABLE WHILE STOCK LASTS

630 GROOVED RESILIENT CENTERLINE BUTTERFLY VALVE (HANDWHEEL)



TECHNICAL FEATURES

Production according to MSS SP-67.
Grooves according to ISO 6182.
Top flange: ISO 5211.
Working pressure: PN16 (230 PSI; 1.6 MPa).
Working temperature: 0° C a 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
Vds, UL and FM standards approval.

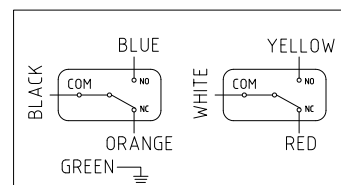
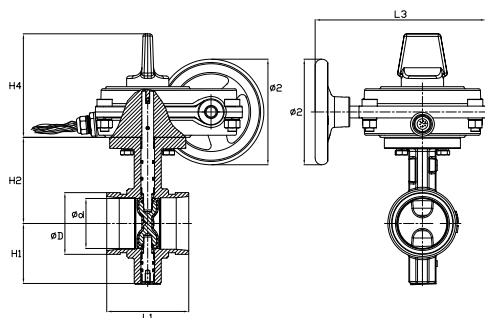
STEEL TUBE			DIMENSION							CODE
Ø	Ø D mm.	DN	Ø d mm.	Ø 2 mm.	H1 mm.	H2 mm.	H4 mm.	L1 mm.	L3 mm.	
2"	60,3	50	50,3	125	65	89	123	81	202	6V630208
2 1/2"	76,1	65	60,8	125	71	102	123	97	202	6V63020B
3"	88,9	80	76,0	125	81	109	123	97	202	6V63020A
4"	114,3	100	98,5	125	95	128	123	116	202	6V63020C
5"	139,7	125	122,6	125	111	141	123	148	202	6V63020H
6"	168,3	150	148,0	225	133	153	123	148	202	6V63020E
8"	219,1	200	199,0	225	164	184	123	133	260	6V63020M
10"	273,0	250	252,0	225	196	216	123	159	260	6V63020N

COMPONENTS

- Body: ductile iron EN-GJS-450-10
- Disc: ductile iron EN-GJS-450-10
- Disc coating: EPDM
- Gear Handwheel: ductile iron ASTM A126
- Handwheel: ductile iron ASTM A536
- O-Ring: NBR
- Stem: stainless steel SS431

GROOVED SYSTEM

635 GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH



TECHNICAL FEATURES

Production according to MSS SP-67.
Grooves according to ISO 6182.
Top flange: ISO 5211.
Working pressure: PN16 (230 PSI; 1.6 MPa).
Working temperature: 0° C a 80° C.
Applications: supply and sanitary water services, irrigation, fire protection systems.
Vds, UL and FM standards approval.

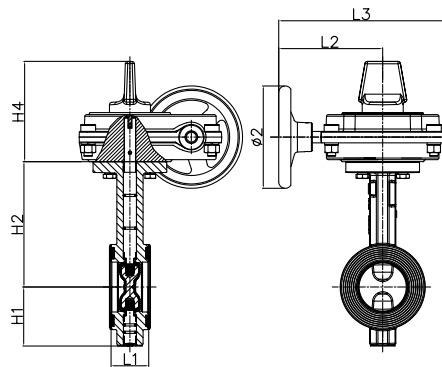
STEEL TUBE			DIMENSION							CODE
Ø	Ø D mm.	DN	Ø d mm.	Ø 2 mm.	H1 mm.	H2 mm.	H4 mm.	L1 mm.	L3 mm.	
2"	60,3	50	50,3	125	65	89	123	81	202	6V635208
2 1/2"	76,1	65	60,8	125	71	102	123	97	202	6V63520B
3"	88,9	80	76,0	125	81	109	123	97	202	6V63520A
4"	114,3	100	98,5	125	95	128	123	116	202	6V63520C
5"	139,7	125	122,6	125	111	141	123	148	202	6V63520H
6"	168,3	150	148,0	225	133	153	123	148	202	6V63520E
8"	219,1	200	199,0	225	164	184	123	133	260	6V63520M
10"	273,0	250	252,0	225	196	216	123	159	260	6V63520N

COMPONENTS

- Body: ductile iron EN-GJS-450-10
- Disc: ductile iron EN-GJS-450-10
- Disc coating: EPDM
- Gear Handwheel: ductile iron ASTM A536
- O-Ring: NBR
- Stem: stainless steel SS431

636

GROOVED WAFER BUTTERFLY VALVE (HANDWHEEL)



TECHNICAL FEATURES

Production according to s/ EN 593.
 Top flange: ISO 5211.
 Working pressure: PN10/16/25 (150/230/360 PSI; 1.0/1.6/2.5 MPa).
 Applications: supply and sanitary water service, irrigation, fire protection systems.
 UL and FM standards approval.

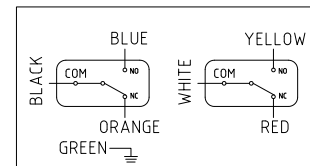
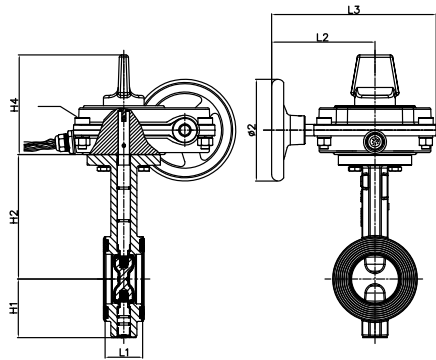
COMPONENTS

- Body:** ductil iron EN-GJS-450-10
- Disc:** ductil iron EN-GJS-450-10
- Disc Coating:** EPDM
- Gear Handwheel:** EN-GJS-450-10
- O-Ring:** NBR
- Stem:** stainless steel UNS S43100 (SS431)

STEEL TUBE			DIMENSION							CODE
Ø	Ø D mm.	DN	Ø 2 mm.	H1 mm.	H2 mm.	H4 mm.	L1 (±2) mm.	L2 mm.	L3 mm.	
2"	60,3	50	125	65	140,5	122,5	43	127,0	202	6V636208
2 1/2"	76,1	65	125	71	153,0	122,5	46	127,0	202	6V63620B
3"	88,9	80	125	81	157,5	122,5	46	127,0	202	6V63620A
4"	114,3	100	125	95	176,0	122,5	52	127,0	202	6V63620C
5"	139,7	125	125	111	191,0	122,5	56	127,0	202	6V63620H
6"	168,3	150	225	133	202,5	122,5	56	139,5	215	6V63620E
8"	219,1	200	225	164	243,5	122,5	60	198,5	274	6V63620M
10"	273,0	250	225	196	273,0	122,5	68	198,5	274	6V63620N
12"	323,9	300	225	226	311,0	132,0	78	202,0	293	6V63620Q

637

BUTTERFLY VALVE WITH TAMPER SWITCH (HANDWHEEL)



TECHNICAL FEATURES

Production according to s/ EN 593.
 Top flange: ISO 5211.
 Working pressure: PN10/16/25 (150/230/360 PSI; 1.0/1.6/2.5 MPa).
 Applications: supply and sanitary water service, irrigation, fire protection systems.
 UL and FM standards approval.

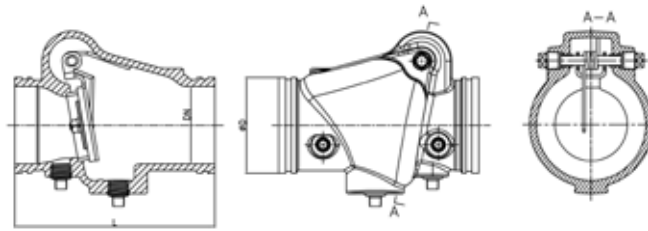
COMPONENTS

- Body:** ductil iron EN-GJS-450-10
- Disc:** ductil iron EN-GJS-450-10
- Disc Coating:** EPDM
- Gear Handwheel:** EN-GJS-450-10
- O-Ring:** NBR
- Stem:** stainless steel UNS S43100 (SS431)

STEEL TUBE			DIMENSION							CODE
Ø	Ø D mm.	DN	Ø 2 mm.	H1 mm.	H2 mm.	H4 mm.	L1 (±2) mm.	L2 mm.	L3 mm.	
2"	60,3	50	125	65	140,5	122,5	43	127,0	202	6V637208
2 1/2"	76,1	65	125	71	153,0	122,5	46	127,0	202	6V63720B
3"	88,9	80	125	81	157,5	122,5	46	127,0	202	6V63720A
4"	114,3	100	125	95	176,0	122,5	52	127,0	202	6V63720C
5"	139,7	125	125	111	191,0	122,5	56	127,0	202	6V63720H
6"	168,3	150	225	133	202,5	122,5	56	139,5	215	6V63720E
8"	219,1	200	225	164	243,5	122,5	60	198,5	274	6V63720M
10"	273,0	250	225	196	273,0	122,5	68	198,5	274	6V63720N
12"	323,9	300	225	226	311,0	132,0	78	202,0	293	6V63720Q

640

GROOVED RESILIENT SWING CHECK VALVE



STEEL TUBE			DIMENSION		CODE
Ø	Ø D mm.	DN	L mm.		
2"	60,3	50	172		6V640208
2 1/2"	76,1	65	184		6V64020B
3"	88,9	80	197		6V64020A
4"	114,3	100	210		6V64020C
5"	139,7	125	248		6V64020H
6"	168,3	150	325		6V64020E
8"	219,1	200	372		6V64020M
10"	273,0	250	457		6V64020N
12"	323,9	300	535		6V64020Q

TECHNICAL FEATURES

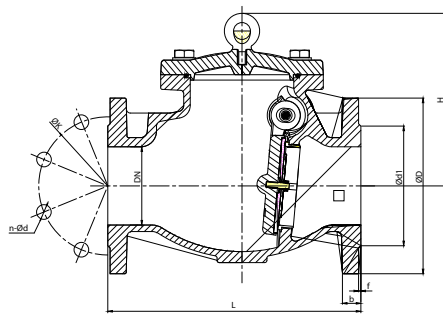
Grooves according to ISO 6182.
 Working pressures: PN16 (230 PSI; 1.6 MPa).
 Working temperature: 0° C to 80° C.
 Applications: supply and sanitary water services, irrigation, fire protection systems.
 VdS, UL and FM standards approval.

COMPONENTS

Body: ductile iron EN-GJS-450-10
Spring: stainless steel UNS S30400 (SS304)
Disc (DN50-DN100): stainless steel UNS S30400 (SS304)
Disc (DN150-DN300): ductile iron EN-GJS-450-10
Sealing ring: EPDM
Seat: bronze according to ASTM B62 UNS C83600

645

FLANGED RESILIENT SWING CHECK VALVE



STEEL TUBE			DIMENSION								CODE
Ø	Ø D mm.	DN	L (F4) mm.	D mm.	K mm.	d1 mm.	H mm.	b mm.	f mm.	n-Ød mm.	
2"	60,3	50	203	165	125	99	133	19,0	3	4x19	6V645208
2 1/2"	76,1	65	216	185	145	118	150	19,0	3	4x19	6V64520B
3"	88,9	80	241	200	160	132	150	19,0	3	8x19	6V64520A
4"	114,3	100	292	220	180	156	218	19,0	3	8x19	6V64520C
5"	139,7	125	330	250	210	184	245	19,0	3	8x19	6V64520H
6"	168,3	150	356	285	240	211	290	19,0	3	8x23	6V64520E
8"	219,1	200	495	340	295	266	330	20,0	3	12x23	6V64520M
10"	273,0	250	622	405	355	319	350	22,0	3	12x28	6V64520N
12"	323,9	300	698	460	410	370	376	24,5	4	12x28	6V64520Q

TECHNICAL FEATURES

Connection ends : flanges acc. EN 1092-2.
 Working pressure : PN10/16 (150/230 PSI ; 1.0/1.6 MPa).
 Working temperature : 0° C a 80° C.
 Applications: supply and sanitary water services, irrigation, fire protection systems.
 UL and FM standards approval.

COMPONENTS

Body and bonnet : ductile iron EN-GJS-450-10
Clapper : ductile iron EN-GJS-450-10
Disc : ductile iron EN-GJS-450-10
O-rings : EPDM
Seat: bronze according to ASTM B62 UNS C83600

SW1

TAMPER SWITCH FOR NRS GATE VALVES



DN	DESCRIPTION	CODE
50 to 300	Switch for NRS gate valve 660	6VSWITC1

SW2

TAMPER SWITCH FOR RS GATE VALVES



DN	DESCRIPTION	CODE
50 to 300	Switch for NRS gate valve 610 and 670	6VSWITC2

GROOVED BARREL NIPPLE

See page 73



FLEXIBLE CONNECTORS FOR SPRINKLERS CONNECTION



- 1 - (1 pc) input barrel nipple (thread R1xM33).
- 2 - (1 pc) variable length DN25 hose (corrugated or braided). Threaded ends M33xM33.
- 3 - (1 pc) output reduced barrel nipple (thread M33x1/2"NPT or M33x3/4"NPT).
- 4 - (1 pc) 635 mm. length stand rod.
- 5 - (1pc central y 2 pcs sides) Butterfly type Wider height 70 mm.

GROOVED SYSTEM

STEEL BRAIDED HOSES KIT



OUTPUT 1/2" NPT			
CODE	LENGTH mm.	KITS/BOX	
LFB30700	700	10	
LFB31000	1000	10	
LFB31200	1200	10	
LFB31500	1500	10	
LFB31800	1800	10	

OUTPUT 3/4" NPT			
CODE	LENGTH mm.	KITS/BOX	
LFB40700	700	10	
LFB41000	1000	10	
LFB41200	1200	10	
LFB41500	1500	10	
LFB41800	1800	10	

STEEL CORRUGATED HOSES KIT



OUTPUT 1/2" NPT			
CODE	LENGTH mm.	KITS/BOX	
LFU30700	700	10	
LFU31000	1000	10	
LFU31200	1200	10	
LFU31500	1500	10	
LFU31800	1800	10	

OUTPUT 3/4" NPT			
CODE	LENGTH mm.	KITS/BOX	
LFU40700	700	10	
LFU41000	1000	10	
LFU41200	1200	10	
LFU41500	1500	10	
LFU41800	1800	10	

ACCESSORIES



CODE	DESCRIPTION		
LFAT0070	BOLT WIDER KIT (1 CENTRAL + 2 SIDES) 70 mm. 70 mm.	70	1
LFAT0102	BOLT WIDER KIT (1 CENTRAL + 2 SIDES) 70 mm. 102 mm.	50	1
LFAM0070	BUTTERFLY WIDER KIT (1 CENTRAL + 2 SIDES) 70 mm.	70	1
LFAM0102	BUTTERFLY WIDER KIT (1 CENTRAL + 2 SIDES) 102 mm.	50	1



CODE	DESCRIPTION		
LFCR0385	REDUCED ELBOW Mx F (M33/DN25 x 1/2" NPT) 85 mm.	128	1
LFCR3115	REDUCED ELBOW Mx F (M33/DN25 x 1/2" NPT) 115 mm.	96	1
LFCR0485	REDUCED ELBOW Mx F (M33/DN25 x 3/4" NPT) 85 mm.	128	1
LFCR4115	REDUCED ELBOW Mx F (M33/DN25 x 3/4" NPT) 115 mm.	96	1

CODE	DESCRIPTION		
LFBS0635	GALVANIZED STAND ROD. 635 mm.	100	10
LFBS1270	GALVANIZED STAND ROD. 1270 mm.	50	10

Other accessories on request

CARBON STEEL FITTINGS

ATUSA is a benchmark in the world of steel and markets high quality products in accordance with European and American standards.

Carbon steel welding fittings:

- **P265GH** quality in accordance with European standard EN 10253-2, intended for installations subject to pressure and high temperatures, mainly used in industrial and energy applications.
- **ASTM A-234 WPB ASME B16.9** quality, widely used in piping for high pressure and high temperature services.
- Fittings under **ASTM A-420 WPL6 ASME B 16.9**, designed for cryogenic applications, manufactured in low temperature carbon steel, guaranteeing resistance and ductility, even at temperatures below 0° C.

Carbon steel flanges:

- **ASTM ANSI B 16.5** flanges manufactured for forged steel piping systems. **ATUSA** offers 150 Lbs. and 300 Lbs. pressure classes for use in demanding industrial environments.
- **EN 1092-1** flanges in **P245GH** steel quality are designed for pressure applications, offering good weldability and temperature resistance.
- Neck flanges according to **EN 1092-1** in steel quality **P250GH**, oriented to steam and hot water services.

Carbon steel nipples and sockets:

- Grooved nipples: According to **EN 10255**, in steel quality **S195T M-series**.
- Threaded nipples: With tapered thread **ISO 7/1 (EN 10226-1)** according to **DIN 2982 (EN 10241)**, in steel quality ST 37.2.
- Steel sockets with cylindrical thread **ISO 7/1 (EN 10226-1)** according to **DIN 2986 (EN 10226-1)**, and in steel quality ST 37.2.



 **ATUSA**

CARBON STEEL FITTINGS



CARBON STEEL BUTT-WELDING PIPE FITTINGS - EN STANDARD
3D ELBOW EN 10253-2 - STEEL P265GH

DIMENSION		45°		90°		90° GALVANIZED		90° WELDED		180°	
Ø	Ø EXT. x THICKNESS mm.	CODE		CODE		CODE		CODE		CODE	
1/2"	21,3 x 2,0	C3450021		C3XXXX21		C3GXXX21				C3180021	
3/4"	26,9 x 2,3	C3450027		C3XXXX27		C3GXXX27		C3HXXX27		C3180027	
1"	33,7 x 2,6	C3450033		C3XXXX33		C3GXXX33		C3HXXX33		C3180033	
	38,0 x 2,6			C3XXXX38							
1 1/4"	42,4 x 2,6	C3450042		C3XXXX42		C3GXXX42		C3HXXX42		C3180042	
	44,5 x 2,6			C3XXXX44 *							
1 1/2"	48,3 x 2,6	C3450048		C3XXXX48		C3GXXX48		C3HXXX48		C3180048	
	51,0 x 2,6			C3XXXX51							
	54,0 x 2,6			C3XXXX54 *							
	57,0 x 2,9			C3XXXX57							
2"	60,3 x 2,9	C3450060		C3XXXX60		C3GXXX60		C3HXXX60		C3180060	
	70,0 x 2,9			C3XXXX70		C3GXXX70					
2 1/2"	76,1 x 2,9	C3450076		C3XXXX76		C3GXXX76		C3HXXX76		C3180076	
3"	88,9 x 3,2	C3450089		C3XXXX89		C3GXXX89		C3HXXX89		C3180089	
3 1/2"	101,6 x 3,6	C3450101		C3XXX101		C3GXX101		C3HXX101		C3180101	
	108,0 x 3,6			C3XXX108		C3GXX108					
4"	114,3 x 3,6	C3450114		C3XXX114		C3GXX114		C3HXX114		C3180114	
	133,0 x 4,0			C3XXX133		C3GXX133					
5"	139,7 x 4,0	C3450139		C3XXX139		C3GXX139		C3HXX139		C3180139	
	159,0 x 4,5			C3XXX159		C3GXX159					
6"	168,3 x 4,5	C3450168		C3XXX168		C3GXX168		C3HXX168		C3180168	
7"	193,7 x 5,6			C3XXX193							
8"	219,1 x 6,3	C3450219		C3XXX219		C3GXX219					
	244,5 x 6,3			C3XXX244							
10"	273,0 x 6,3	C3450273		C3XXX273		C3GXX273					
12"	323,9 x 7,1	C3450324		C3XXX324							
14"	355,6 x 8,0	C3450355		C3XXX355							
16"	406,4 x 8,8	C3450406		C3XXX406							
18"	457,0 x 10,0			C3XXX457							
20"	508,0 x 10,0			C3XXX508							
24"	610,0 x 10,0			C3XXX609							



* Manufactured according to EN 10253-1 standard.
Possible supply in S235 steel quality while stocks last.

5D ELBOW EN 10253-2 - STEEL P265GH

DIMENSION		45°		90°		90° GALVANIZED		180°	
Ø	Ø EXT. x THICKNESS mm.	CODE		CODE		CODE		CODE	
1/2"	21,3 x 2,0	C5450021		C5XXXX21					
3/4"	26,9 x 2,3	C5450027		C5XXXX27		C5GXXX27		C5180027	
1"	33,7 x 2,6	C5450033		C5XXXX33		C5GXXX33		C5180033	
1 1/4"	42,4 x 2,6	C5450042		C5XXXX42		C5GXXX42		C5180042	
1 1/2"	48,3 x 2,6	C5450048		C5XXXX48		C5GXXX48		C5180048	
2"	60,3 x 2,9	C5450060		C5XXXX60		C5GXXX60		C5180060	
	70,0 x 2,9			C5XXXX70					
2 1/2"	76,1 x 2,9	C5450076		C5XXXX76		C5GXXX76		C5180076	
3"	88,9 x 3,2	C5450089		C5XXXX89		C5GXXX89		C5180089	
3 1/2"	101,6 x 3,6	C5450101		C5XXX101					
	108,0 x 3,6			C5XXX108					
4"	114,3 x 3,6	C5450114		C5XXX114		C5GXX114		C5180114	
	133,0 x 4,0			C5XXX133					
5"	139,7 x 4,0			C5XXX139		C5GXX139			
	159,0 x 4,5			C5XXX159					
6"	168,3 x 4,5			C5XXX168		C5GXX168			
8"	219,1 x 6,3			C5XXX219		C5GXX219			
10"	273,0 x 6,3			C5XXX273		C5GXX273			
12"	323,9 x 7,1			C5XXX324					



CAP EN 10253-1 - STEEL S235



Ø	Ø EXT. mm.	THICKNESS mm.	CODE
3/4"	26,9	2,3	CCXXXX27
1"	33,7	2,6	CCXXXX34
1 1/4"	42,4	2,6	CCXXXX42
1 1/2"	48,3	2,6	CCXXXX48
2"	60,3	2,9	CCXXXX60
	70,0	2,9	CCXXXX70
2 1/2"	76,1	2,9	CCXXXX76
3"	88,9	3,2	CCXXXX89
3 1/2"	101,6	3,6	CCXXX101
	108,0	3,6	CCXXX108
4"	114,3	3,6	CCXXX114
	133,0	4,0	CCXXX133

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
5"	139,7	4,0	CCXXX140
	159,0	4,5	CCXXX159
6"	168,3	4,5	CCXXX168
7"	193,7	5,6	CCXXX193
8"	219,1	6,3	CCXXX219
	244,5	6,3	CCXXX245
10"	273,0	6,3	CCXXX273
12"	323,9	7,1	CCXXX324
14"	355,6	8,0	CCXXX356
16"	406,4	8,8	CCXXX406
18"	457,0	8,0	CCXXX457*
20"	508,0	8,0	CCXXX508*
24"	610,0	8,0	CCXXX610*

TEE EN 10253-2 - STEEL P265GH



Ø	Ø EXT. mm.	THICKNESS mm.	CODE
1/2"	21,3	2,0	CTDXXX21
3/4"	26,9	2,3	CTDXXX27
1"	33,7	2,6	CTDXXX33
1 1/4"	42,4	2,6	CTDXXX42
1 1/2"	48,3	2,6	CTDXXX48
2"	60,3	2,9	CTDXXX60
2 1/2"	76,1	2,9	CTDXXX76
3"	88,9	3,2	CTDXXX89
3 1/2"	101,6	3,6	CTDXX101

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
4"	114,3	3,6	CTDXX114
5"	139,7	4,0	CTDXX139
6"	168,3	4,5	CTDXX168
8"	219,1	6,3	CTDXX219
10"	273,0	6,3	CTDXX273
12"	323,9	7,1	CTDXX323
14"	355,6	8,0	CTDXX355
16"	406,4	8,8	CTDXX406

* Not according to EN 10253-1 Standard.



CONCENTRIC REDUCER EN 10253-2 - STEEL P265GH

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
3/4" x 1/2"	26,9 x 21,3	2,3 - 2,0	CRXX2721
1" x 1/2"	33,7 x 21,3	2,6 - 2,0	CRXX3321
1" x 3/4"	33,7 x 26,9	2,6 - 2,3	CRXX3327
1 1/4" x 1/2"	42,4 x 21,3	2,6 - 2,0	CRXX4221
1 1/4" x 3/4"	42,4 x 26,9	2,6 - 2,3	CRXX4227
1 1/4" x 1"	42,4 x 33,7	2,6 - 2,6	CRXX4233
1 1/2" x 1/2"	48,3 x 21,3	2,6 - 2,0	CRXX4821
1 1/2" x 3/4"	48,3 x 26,9	2,6 - 2,3	CRXX4827
1 1/2" x 1"	48,3 x 33,7	2,6 - 2,6	CRXX4833
1 1/2" x 1 1/4"	48,3 x 42,4	2,6 - 2,6	CRXX4842
2" x 3/4"	60,3 x 26,9	2,9 - 2,3	CRXX6027
2" x 1"	60,3 x 33,7	2,9 - 2,6	CRXX6033
2" x 1 1/4"	60,3 x 42,4	2,9 - 2,6	CRXX6042
2" x 1 1/2"	60,3 x 48,3	2,9 - 2,6	CRXX6048
2 1/2" x 1"	76,1 x 33,7	2,9 - 2,6	CRXX7633
2 1/2" x 1 1/4"	76,1 x 42,4	2,9 - 2,6	CRXX7642
2 1/2" x 1 1/2"	76,1 x 48,3	2,9 - 2,6	CRXX7648
2 1/2" x 2"	76,1 x 60,3	2,9 - 2,9	CRXX7660
3" x 1 1/4"	88,9 x 42,4	3,2 - 2,6	CRXX8942
3" x 1 1/2"	88,9 x 48,3	3,2 - 2,6	CRXX8948
3" x 2"	88,9 x 60,3	3,2 - 2,9	CRXX8960
3" x 2 1/2"	88,9 x 76,1	3,2 - 2,9	CRXX8976
3 1/2" x 2"	101,6 x 60,3	3,6 - 2,9	CRX10160*
3 1/2" x 2 1/2"	101,6 x 76,1	3,6 - 2,9	CRX10176*
3 1/2" x 3"	101,6 x 88,9	3,6 - 3,2	CRX10189*
	108,0 x 60,3	3,6 - 2,9	CRX10860
	108,0 x 76,1	3,6 - 2,9	CRX10876
	108,0 x 88,9	3,6 - 3,2	CRX10889
4" x 1 1/2"	114,3 x 48,3	3,6 - 2,6	CRX11448
4" x 2"	114,3 x 60,3	3,6 - 2,9	CRX11460
4" x 2 1/2"	114,3 x 76,1	3,6 - 2,9	CRX11476
4" x 3"	114,3 x 88,9	3,6 - 3,2	CRX11489
4" x 3 1/2"	114,3 x 101,6	3,6 - 3,6	CR114101*
	133,0 x 76,1	4,0 - 2,9	CRX13376
	133,0 x 88,9	4,0 - 3,2	CRX13389
	133,0 x 101,6	4,0 - 3,6	CR133101*
	133,0 x 108,0	4,0 - 3,6	CR133108*
	133,0 x 114,3	4,0 - 3,6	CR133114

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
5" x 2"	139,7 x 60,3	4,0 - 2,9	CRX13960
5" x 2 1/2"	139,7 x 76,1	4,0 - 2,9	CRX13976
5" x 3"	139,7 x 88,9	4,0 - 3,2	CRX13989
5" x 3 1/2"	139,7 x 101,6	4,0 - 3,6	CR139101*
	139,7 x 108,0	4,0 - 3,6	CR139108*
5" x 4"	139,7 x 114,3	4,0 - 3,6	CR139114
	159,0 x 88,9	4,5 - 3,2	CRX15989
	159,0 x 108,0	4,5 - 3,6	CR159108*
	159,0 x 114,3	4,5 - 3,6	CR159114
	159,0 x 133,0	4,5 - 4,0	CR159133*
	159,0 x 139,7	4,5 - 4,0	CR159139
6" x 2 1/2"	168,3 x 76,1	4,5 - 2,9	CRX16876
6" x 3"	168,3 x 88,9	4,5 - 3,2	CRX16889
6" x 4"	168,3 x 114,3	4,5 - 3,6	CR168114
6" x 5"	168,3 x 139,7	4,5 - 4,0	CR168139
	193,7 x 114,3	5,6 - 3,6	CR193114*
	193,7 x 133,0	5,6 - 4,0	CR193133*
	193,7 x 159,0	5,6 - 4,5	CR193159*
	193,7 x 168,3	5,6 - 4,5	CR193168*
8" x 4"	219,1 x 114,3	6,3 - 3,6	CR219114
	219,1 x 133,0	6,3 - 4,0	CR219133*
8" x 5"	219,1 x 139,7	6,3 - 4,0	CR219139
	219,1 x 159,0	6,3 - 4,5	CR219159*
8" x 6"	219,1 x 168,3	6,3 - 4,5	CR219168
10" x 5"	273,0 x 139,7	6,3 - 4,0	CR273139
10" x 6"	273,0 x 168,3	6,3 - 4,5	CR273168
10" x 8"	273,0 x 219,1	6,3 - 6,3	CR273219
12" x 6"	323,9 x 168,3	7,1 - 4,5	CR323168
12" x 8"	323,9 x 219,1	7,1 - 6,3	CR323219
12" x 10"	323,9 x 273,0	7,1 - 6,3	CR323273
14" x 8"	355,6 x 219,1	8,0 - 6,3	CR355219
14" x 10"	355,6 x 273,0	8,0 - 6,3	CR355273
14" x 12"	355,6 x 323,9	8,0 - 7,1	CR355323
16" x 10"	406,4 x 273,0	8,8 - 6,3	CR406273
16" x 12"	406,4 x 323,9	8,8 - 7,1	CR406323
16" x 14"	406,4 x 355,6	8,8 - 8,0	CR406355

* Not according to EN 10253-2 Standard.

CARBON STEEL BUTT-WELDING PIPE FITTINGS - ASTM STANDARD

ELBOW ASTM A-234 WPB - ASME B 16.9



DIMENSION		SCH. 20		STD						XS		
		LONG RADIUS		LONG RADIUS				SHORT RADIUS		LONG RADIUS		SHORT RADIUS
		90°		90°	45°		180°	90°		90°	45°	90°
Ø	Ø EXT. mm.	CODE	€	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
1/2"	21,3			CSTL900M		CSTL450M				CXSL900M	CXSL450M	
3/4"	26,7			CSTL900T		CSTL450T				CXSL900T	CXSL450T	
1"	33,4			CSTL9001		CSTL4501			CSTS9001	CXSL9001	CXSL4501	CXSS9001
1 1/4"	42,2			CSTL901C		CSTL451C			CSTS901C	CXSL901C	CXSL451C	CXSS901C
1 1/2"	48,3			CSTL901M		CSTL451M	CSTL181M		CSTS901M	CXSL901M	CXSL451M	CXSS901M
2"	60,3			CSTL9002		CSTL4502	CSTL1802		CSTS9002	CXSL9002	CXSL4502	CXSS9002
2 1/2"	73,0			CSTL902M		CSTL452M	CSTL182M		CSTS902M	CXSL902M	CXSL452M	CXSS902M
3"	88,9			CSTL9003		CSTL4503	CSTL1803		CSTS9003	CXSL9003	CXSL4503	CXSS9003
3 1/2"	101,6			CSTL903M		CSTL453M				CXSL903M	CXSL453M	
4"	114,3			CSTL9004		CSTL4504	CSTL1804		CSTS9004	CXSL9004	CXSL4504	CXSS9004
5"	141,3			CSTL9005		CSTL4505	CSTL1805		CSTS9005	CXSL9005	CXSL4505	CXSS9005
6"	168,3			CSTL9006		CSTL4506	CSTL1806		CSTS9006	CXSL9006	CXSL4506	CXSS9006
8"	219,1	C2TL9008		CSTL9008		CSTL4508			CSTS9008	CXSL9008	CXSL4508	CXSS9008
10"	273,0	C2TL9010		CSTL9010		CSTL4510			CSTS9010	CXSL9010	CXSL4510	CXSS9010
12"	323,8	C2TL9012		CSTL9012		CSTL4512			CSTS9012	CXSL9012	CXSL4512	CXSS9012
14"	355,6	C2TL9014		CSTL9014		CSTL4514			CSTS9014	CXSL9014	CXSL4514	CXSS9014
16"	406,4	C2TL9016		CSTL9016		CSTL4516			CSTS9016	CXSL9016	CXSL4516	CXSS9016
18"	457,0	C2TL9018		CSTL9018		CSTL4518						
20"	508,0			CSTL9020		CSTL4520						
24"	610,0			CSTL9024		CSTL4524						



CAP ASTM A-234 WPB - ASME B 16.9



TEE ASTM A-234 WPB - ASME B 16.9



DIMENSION		STD		XS	
Ø	Ø EXT. mm.	CODE		CODE	
1/2"	21,3	CCSTXX0M		CCXSXX0M	
3/4"	26,7	CCSTXX0T		CCXSXX0T	
1"	33,4	CCSTXX01		CCXSXX01	
1 1/4"	42,2	CCSTXX1C		CCXSXX1C	
1 1/2"	48,3	CCSTXX1M		CCXSXX1M	
2"	60,3	CCSTXX02		CCXSXX02	
2 1/2"	73,0	CCSTXX2M		CCXSXX2M	
3"	88,9	CCSTXX03		CCXSXX03	
3 1/2"	101,6	CCSTXX3M		CCXSXX3M	
4"	114,3	CCSTXX04		CCXSXX04	
5"	141,3	CCSTXX05		CCXSXX05	
6"	168,3	CCSTXX06		CCXSXX06	
8"	219,1	CCSTXX08		CCXSXX08	
10"	273,0	CCSTXX10		CCXSXX10	
12"	323,8	CCSTXX12		CCXSXX12	
14"	355,6	CCSTXX14		CCXSXX14	
16"	406,4	CCSTXX16		CCXSXX16	
18"	457,0	CCSTXX18		CCXSXX18	
20"	508,0	CCSTXX20		CCXSXX20	
24"	610,0	CCSTXX24		CCXSXX24	

DIMENSION		STD		XS	
Ø	Ø EXT. mm.	CODE		CODE	
1/2"	21,3	CTXXXX21		CTXSXX0M	
3/4"	26,7	CTXXXX27		CTXSXX0T	
1"	33,4	CTXXXX33		CTXSXX01	
1 1/4"	42,2	CTXXXX42		CTXSXX1C	
1 1/2"	48,3	CTXXXX48		CTXSXX1M	
2"	60,3	CTXXXX60		CTXSXX02	
2 1/2"	73,0	CTXXXX76		CTXSXX2M	
3"	88,9	CTXXXX89		CTXSXX03	
3 1/2"	101,6	CTXXX101		CTXSXX3M	
4"	114,3	CTXXX114		CTXSXX04	
5"	141,3	CTXXX140		CTXSXX05	
6"	168,3	CTXXX168		CTXSXX06	
8"	219,1	CTXXX219		CTXSXX08	
10"	273,0	CTXXX273		CTXSXX10	
12"	323,8	CTXXX324		CTXSXX12	
14"	355,6	CTXXX355		CTXSXX14	
16"	406,4	CTXXX406		CTXSXX16	
18"	457,0	CTXXX457			
20"	508,0	CTXXX508			
24"	610,0	CTXXX610			

REDUCING TEE AND CONCENTRIC AND ECCENTRIC REDUCER ASTM A-234 WPB - ASME B 16.9



DIMENSION		REDUCING TEE		CONCENTRIC REDUCER			ECCENTRIC REDUCER	
		STD		STD		XS	STD	
Ø	Ø EXT. mm.	CODE		CODE		CODE		CODE
3/4" x 1/2"	26,7 x 21,3	CTST0T0M		CRST0T0M		CRXS0T0M		CREX0T0M
1" x 1/2"	33,4 x 21,3	CTST010M		CRST010M		CRXS010M		CREX010M
1" x 3/4"	33,4 x 26,7	CTST010T		CRST010T		CRXS010T		CREX010T
1 1/4" x 1/2"	42,2 x 21,3	CTST1C0M		CRST1C0M		CRXS1C0M		CREX1C0M
1 1/4" x 3/4"	42,2 x 26,7	CTST1C0T		CRST1C0T		CRXS1C0T		CREX1C0T
1 1/4" x 1"	42,2 x 33,4	CTST1C01		CRST1C01		CRXS1C01		CREX1C01
1 1/2" x 1/2"	48,3 x 21,3	CTST1M0M		CRST1M0M		CRXS1M0M		CREX1M0M
1 1/2" x 3/4"	48,3 x 26,7	CTST1M0T		CRST1M0T		CRXS1M0T		CREX1M0T
1 1/2" x 1"	48,3 x 33,4	CTST1M01		CRST1M01		CRXS1M01		CREX1M01
1 1/2" x 1 1/4"	48,3 x 42,2	CTST1M1C		CRST1M1C		CRXS1M1C		CREX1M1C
2" x 1/2"	60,3 x 21,3			CRST020M				
2" x 3/4"	60,3 x 26,7			CRST020T				CREX020T
2" x 1"	60,3 x 33,4	CTST0201		CRST0201		CRXS0201		CREX0201
2" x 1 1/4"	60,3 x 42,2	CTST021C		CRST021C		CRXS021C		CREX021C
2" x 1 1/2"	60,3 x 48,3	CTST021M		CRST021M		CRXS021M		CREX021M
2 1/2" x 1"	73,0 x 33,4	CTST2M01		CRST2M01				CREX2M01
2 1/2" x 1 1/4"	73,0 x 42,2	CTST2M1C		CRST2M1C		CRXS2M1C		CREX2M1C
2 1/2" x 1 1/2"	73,0 x 48,3	CTST2M1M		CRST2M1M		CRXS2M1M		CREX2M1M
2 1/2" x 2"	73,0 x 60,3	CTST2M02		CRST2M02		CRXS2M02		CREX2M02
3" x 1"	88,9 x 33,4	CTST0301		CRST0301				
3" x 1 1/4"	88,9 x 42,2	CTST031C		CRST031C		CRXS031C		CREX031C
3" x 1 1/2"	88,9 x 48,3	CTST031M		CRST031M		CRXS031M		CREX031M
3" x 2"	88,9 x 60,3	CTST0302		CRST0302		CRXS0302		CREX0302
3" x 2 1/2"	88,9 x 73,0	CTST032M		CRST032M		CRXS032M		CREX032M
4" x 1 1/4"	114,3 x 42,2			CRST041C				
4" x 1 1/2"	114,3 x 48,3	CTST041M		CRST041M		CRXS041M		CREX041M
4" x 2"	114,3 x 60,3	CTST0402		CRST0402		CRXS0402		CREX0402
4" x 2 1/2"	114,3 x 73,0	CTST042M		CRST042M		CRXS042M		CREX042M
4" x 3"	114,3 x 88,9	CTST0403		CRST0403		CRXS0403		CREX0403
5" x 2"	141,3 x 60,3	CTST0502		CRST0502				CREX0502
5" x 2 1/2"	141,3 x 73,0	CTST052M		CRST052M		CRXS052M		CREX052M
5" x 3"	141,3 x 88,9	CTST0503		CRST0503		CRXS0503		CREX0503
5" x 4"	141,3 x 114,3	CTST0504		CRST0504		CRXS0504		CREX0504
6" x 2"	168,3 x 60,3	CTST0602		CRST0602				
6" x 2 1/2"	168,3 x 73,0	CTST062M		CRST062M		CRXS062M		CREX062M
6" x 3"	168,3 x 88,9	CTST0603		CRST0603		CRXS0603		CREX0603
6" x 4"	168,3 x 114,3	CTST0604		CRST0604		CRXS0604		CREX0604
6" x 5"	168,3 x 141,3	CTST0605		CRST0605		CRXS0605		CREX0605
8" x 3"	219,1 x 88,9	CTST0803		CRST0803				
8" x 4"	219,1 x 114,3	CTST0804		CRST0804		CRXS0804		CREX0804
8" x 5"	219,1 x 141,3	CTST0805		CRST0805		CRXS0805		CREX0805
8" x 6"	219,1 x 168,3	CTST0806		CRST0806		CRXS0806		CREX0806
10" x 4"	273,0 x 114,3	CTST1004		CRST1004				CREX1004
10" x 5"	273,0 x 141,3	CTST1005		CRST1005		CRXS1005		CREX1005
10" x 6"	273,0 x 168,3	CTST1006		CRST1006		CRXS1006		CREX1006
10" x 8"	273,0 x 219,1	CTST1008		CRST1008		CRXS1008		CREX1008
12" x 6"	323,8 x 168,3	CTST1206		CRST1206		CRXS1206		CREX1206
12" x 8"	323,8 x 219,1	CTST1208		CRST1208		CRXS1208		CREX1208
12" x 10"	323,8 x 273,0	CTST1210		CRST1210		CRXS1210		CREX1210
14" x 8"	355,6 x 219,1			CRST1408				CREX1408
14" x 10"	355,6 x 273,0	CTST1410		CRST1410		CRXS1410		CREX1410
14" x 12"	355,6 x 323,8	CTST1412		CRST1412		CRXS1412		CREX1412
16" x 8"	406,4 x 219,1			CRST1608				CREX1608
16" x 10"	406,4 x 273,0	CTST1610		CRST1610		CRXS1610		CREX1610
16" x 12"	406,4 x 323,8	CTST1612		CRST1612		CRXS1612		CREX1612
16" x 14"	406,4 x 355,6	CTST1614		CRST1614		CRXS1614		CREX1614
18" x 16"	457,0 x 406,4	CTST1816		CRST1816				
20" x 16"	508,0 x 406,4	CTST2016		CRST2016				
20" x 18"	508,0 x 457,0	CTST2018		CRST2018				
24" x 18"	610,0 x 457,0	CTST2418		CRST2418				
24" x 20"	610,0 x 508,0	CTST2420		CRST2420				

**45° ELBOW ASTM A-420
WPL6
ASME B 16.9**



DIMENSION		STD - LONG RADIUS	
Ø	Ø EXT.	CODE	
1/2"	21,3	CL45460M	
3/4"	26,7	CL45460T	
1"	33,4	CL454601	
1 1/4"	42,2	CL45461C	
1 1/2"	48,3	CL45461M	
2"	60,3	CL454602	
2 1/2"	73,0	CL45462M	
3"	88,9	CL454603	
4"	114,3	CL454604	
5"	141,3	CL454605	
6"	168,3	CL454606	
8"	219,1	CL454608	
10"	273,0	CL454610	

**90° ELBOW ASTM A-420
WPL6
ASME B 16.9**



DIMENSION		STD - LONG RADIUS	
Ø	Ø EXT.	CODE	
1/2"	21,3	CL90460M	
3/4"	26,7	CL90460T	
1"	33,4	CL904601	
1 1/4"	42,2	CL90461C	
1 1/2"	48,3	CL90461M	
2"	60,3	CL904602	
2 1/2"	73,0	CL90462M	
3"	88,9	CL904603	
4"	114,3	CL904604	
5"	141,3	CL904605	
6"	168,3	CL904606	
8"	219,1	CL904608	
10"	273,0	CL904610	

**TEE ASTM A-420
WPL6
ASME B 16.9**



DIMENSION		STD	
Ø	Ø EXT.	CODE	
1/2"	21,3	CTX4060M	
3/4"	26,7	CTX4060T	
1"	33,4	CTX40601	
1 1/4"	42,2	CTX4061C	
1 1/2"	48,3	CTX4061M	
2"	60,3	CTX40602	
2 1/2"	73,0	CTX4062M	
3"	88,9	CTX40603	
4"	114,3	CTX40604	
5"	141,3	CTX40605	
6"	168,3	CTX40606	
8"	219,1	CTX40608	
10"	273,0	CTX40610	

**CONCENTRIC REDUCER
ASTM A-420 WPL6
ASME B 16.9**



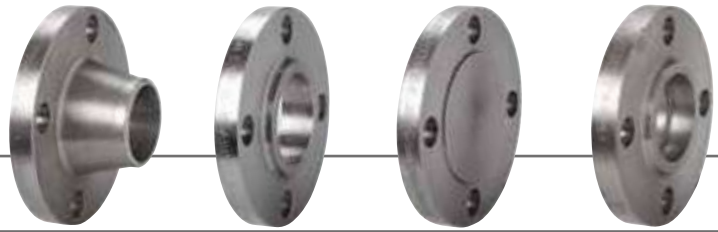
DIMENSION		STD	
Ø	Ø EXT.	CODE	
3/4" x 1/2"	26,7 x 21,3	CR460T0M	
1" x 1/2"	33,4 x 21,3	CR46010M	
1" x 3/4"	33,4 x 26,7	CR46010T	
1 1/4" x 1/2"	42,2 x 21,3	CR461C0M	
1 1/4" x 3/4"	42,2 x 26,7	CR461C0T	
1 1/4" x 1"	42,2 x 33,4	CR461C01	
1 1/2" x 1/2"	48,3 x 21,3	CR461M0M	
1 1/2" x 3/4"	48,3 x 26,7	CR461M0T	
1 1/2" x 1"	48,3 x 33,4	CR461M01	
1 1/2" x 1 1/4"	48,3 x 42,2	CR461M1C	
2" x 1/2"	60,3 x 21,3	CR46020M	
2" x 3/4"	60,3 x 26,7	CR46020T	
2" x 1"	60,3 x 33,4	CR460201	
2" x 1 1/4"	60,3 x 42,2	CR46021C	
2" x 1 1/2"	60,3 x 48,3	CR46021M	
2 1/2" x 2"	73,0 x 60,3	CR462M02	
3" x 2"	88,9 x 60,3	CR460302	
3" x 2 1/2"	88,9 x 73,0	CR46032M	
4" x 2"	114,3 x 60,3	CR460402	
4" x 3"	114,3 x 88,9	CR460403	
5" x 3"	141,3 x 88,9	CR460503	
5" x 4"	141,3 x 114,3	CR460504	
6" x 4"	168,3 x 114,3	CR460604	
6" x 5"	168,3 x 141,3	CR460605	
8" x 6"	219,1 x 168,3	CR460806	
10" x 6"	273,0 x 168,3	CR461006	
12" x 10"	323,8 x 273,0	CR461210	
14" x 10"	355,6 x 273,0	CR461410	
14" x 12"	355,6 x 323,8	CR461412	
16" x 10"	406,4 x 273,0	CR461610	
16" x 12"	406,4 x 323,8	CR461612	
16" x 14"	406,4 x 355,6	CR461614	

**FONDS BOMBÉS
ASTM A-420
WPL6 ASME B 16.9**



DIMENSION		STD	
Ø	Ø EXT.	CODE	
2"	60,3	CCX40602	
2 1/2"	73,0	CCX4062M	
3"	88,9	CCX40603	
4"	114,3	CCX40604	
5"	141,3	CCX40605	
6"	168,3	CCX40606	
8"	219,1	CCX40608	
10"	273,0	CCX40610	

STEEL FLANGES



FORGED FLANGE - ASTM STANDARD ANSI B 16.5 (A105)

DIMENSION			WELDING NECK 150 Lbs.		WELDING NECK 300 Lbs.		SLIP - ON 150 Lbs.		SLIP - ON 300 Lbs.	
DN	Ø	mm.	CODE		CODE		CODE		CODE	
15	1/2"	21,3	FN150015		FN300015		FO150015		FO300015	
20	3/4"	26,7	FN150020		FN300020		FO150020		FO300020	
25	1"	33,4	FN150025		FN300025		FO150025		FO300025	
32	1 1/4"	42,2	FN150032		FN300032		FO150032		FO300032	
40	1 1/2"	48,3	FN150040		FN300040		FO150040		FO300040	
50	2"	60,3	FN150050		FN300050		FO150050		FO300050	
65	2 1/2"	73,0	FN150065		FN300065		FO150065		FO300065	
80	3"	88,9	FN150080		FN300080		FO150080		FO300080	
100	4"	114,3	FN150100		FN300100		FO150100		FO300100	
125	5"	141,3	FN150125		FN300125		FO150125		FO300125	
150	6"	168,3	FN150150		FN300150		FO150150		FO300150	
200	8"	219,1	FN150200		FN300200		FO150200		FO300200	
250	10"	273,0	FN150250		FN300250		FO150250		FO300250	
300	12"	323,8	FN150300		FN300300		FO150300		FO300300	
350	14"	355,6	FN150350		FN300350		FO150350		FO300350	
400	16"	406,4	FN150400		FN300400		FO150400		FO300400	
450	18"	457,0	FN150450		FN300450		FO150450		FO300450	
500	20"	508,0	FN150500		FN300500		FO150500		FO300500	
600	24"	610,0	FN150600		FN300600		FO150600		FO300600	

DIMENSION			BLIND 150 Lbs.		BLIND 300 Lbs.		SOCKET WELDING 150 Lbs.		WELDING NECK XS 150 Lbs.	
DN	Ø	mm.	CODE		CODE		COD		CODE	
15	1/2"	21,3	FB150015		FB300015		FW150015		FNX15015	
20	3/4"	26,7	FB150020		FB300020		FW150020		FNX15020	
25	1"	33,4	FB150025		FB300025		FW150025		FNX15025	
32	1 1/4"	42,2	FB150032		FB300032		FW150032		FNX15032	
40	1 1/2"	48,3	FB150040		FB300040		FW150040		FNX15040	
50	2"	60,3	FB150050		FB300050		FW150050		FNX15050	
65	2 1/2"	73,0	FB150065		FB300065				FNX15065	
80	3"	88,9	FB150080		FB300080				FNX15080	
100	4"	114,3	FB150100		FB300100				FNX15100	
125	5"	141,3	FB150125		FB300125				FNX15125	
150	6"	168,3	FB150150		FB300150				FNX15150	
200	8"	219,1	FB150200		FB300200				FNX15200	
250	10"	273,0	FB150250		FB300250					
300	12"	323,8	FB150300		FB300300					
350	14"	355,6	FB150350		FB300350					
400	16"	406,4	FB150400		FB300400					
450	18"	457,0	FB150450		FB300450					
500	20"	508,0	FB150500		FB300500					
600	24"	610,0	FB150600		FB300600					

STEEL FLANGES - EN 1092-1 STANDARD







FLAT FLANGE EN 1092-1 01 STANDARD

DIMENSION			FLAT FLANGE ACCORDING TO EN 1092-1 01 STANDARD					
DN	"	mm.	PN 6		PN 10			
			CODE		CODE			
15	1/2"	21,3	FC010015				FC014015	
20	3/4"	26,9	FC010020				FC014020	
25	1"	33,7	FC010025				FC014025	
32	1 1/4"	42,4	FC010032				FC014032	
40	1 1/2"	48,3	FC010040				FC014040	
50	2"	60,3	FC010050				FC016050	
65	2 1/2"	76,1					F2576065	
			FC010065				FC016065	
80	3"	88,9	FC010080		F2576080		FC016080	
90	3 1/2"	101,6			F2576101			
100	4"	108,0			F2576108			
		114,3	FC010100				FC016100	
125	5"	133,0			F2576133			
		139,7	FC010125				FC016125	
150	6"	159,0			F2576159			
		168,3	FC010150				FC016150	
175	7"	193,7			F2576175			
200	8"	219,1	FC010200				FC011200	
250	10"	273,0	FC010250				FC011250	
300	12"	323,9	FC010300				FC011300	
350	14"	355,6	FC010350				FC011350	
400	16"	406,4	FC010400				FC011400	
450	18"	457,0	FC010450				FC011450	
500	20"	508,0	FC010500				FC011500	
600	24"	610,0					FC011600	
							F2576600	
700	28"	711,0					F2576700	
800	32"	813,0					F2576800	
900	36"	914,0					F2576900	
1000	40"	1.016,0					F2576999	



*Not standardized flanges
 4 Holes
 According to DIN 2576

FLAT FLANGE ACCORDING TO EN 1092-1 01 STANDARD

PN 16		PN 25		PN 40	
CODE		CODE DIN		CODE DIN	
FC014015		FC014015		FC014015	
FC014020		FC014020		FC014020	
FC014025		FC014025		FC014025	
FC014032		FC014032		FC014032	
FC014040		FC014040		FC014040	
FC016050		FC016050		FC016050	
F2576065					
FC016065		FC014065		FC014065	
FC016080		FC014080		FC014080	
FC016100		FC014100		FC014100	
FC016125		FC014125		FC014125	
FC016150		FC014150		FC014150	
FC016200		FC012200		FC014200	
FC016250		FC012250		FC014250	
FC016300		FC012300		FC014300	
FC016350		FC012350		FC014350	
FC016400		FC012400		FC014400	
FC016450					
FC016500		FC012500		FC014500	
FC016600					
F2502600					
F2502700					
F2502800					
F2502900					
F2502999					
 					

*Not standardized flanges 4 Holes







BLIND FLANGE EN 1092-1 05 STANDARD

DIMENSION			BLIND FLANGE ACCORDING TO EN 1092-1 01 STANDARD			
			PN 6		PN 10	
DN	"	mm.	CODE		CODE	
15	1/2"	21,3	FC050015		FC054015	
20	3/4"	26,9	FC050020		FC054020	
25	1"	33,7	FC050025		FC054025	
32	1 1/4"	42,4	FC050032		FC054032	
40	1 1/2"	48,3	FC050040		FC054040	
50	2"	60,3	FC050050		FC056050	
65	2 1/2"	76,1			F2527065	
			FC050065		FC056065	
80	3"	88,9	FC050080		FC056080	
100	4"	114,3	FC050100		FC056100	
125	5"	139,7	FC050125		FC056125	
150	6"	168,3	FC050150		FC056150	
200	8"	219,1	FC050200		FC051200	
250	10"	273,0	FC050250		FC051250	
300	12"	323,9	FC050300		FC051300	
350	14"	355,6			FC051350	
400	16"	406,4			FC051400	
450	18"	457,0			FC051450	
500	20"	508,0			FC051500	
600	24"	610,0			FC051600	
					F5271600	
700	28"	711,0			F5271700	
800	32"	813,0			F5271800	
900	36"	914,0			F5271900	
1000	40"	1.016,0			F5271999	

*Not standardized flanges 4 Holes

BLIND FLANGE ACCORDING TO EN 1092-1 01 STANDARD

PN 16		PN 25		PN 40	
CODE		CODE		CODE	
FC054015		FC054015		FC054015	
FC054020		FC054020		FC054020	
FC054025		FC054025		FC054025	
FC054032		FC054032		FC054032	
FC054040		FC054040		FC054040	
FC056050		FC054050		FC054050	
F2527065					
FC056065		FC054065		FC054065	
FC056080		FC054080		FC054080	
FC056100		FC054100		FC054100	
FC056125		FC054125		FC054125	
FC056150		FC054150		FC054150	
FC056200		FC052200		FC054200	
FC056250		FC052250		FC054250	
FC056300		FC052300		FC054300	
FC056350		FC052350		FC054350	
FC056400		FC052400		FC054400	
FC056450					
FC056500		FC052500		FC054500	
FC056600					
F2527600					
F2527700					
F2527800					
F2527900					
F2527999					
 					

*Not standardized flanges

4 Holes



NECK FLANGE EN 1092-1 11 STANDARD

DIMENSION			NECK FLANGE ACCORDING TO EN 1092-1 11 STANDARD						
			PN 6		PN 10				
			MATERIAL P250GH		MATERIAL P250GH		MATERIAL P245GH		
DN	"	mm.	CODE		CODE		CODE		
15	1/2"	21,3	F2631015		F2633015		FC114015		
20	3/4"	26,9	F2631020		F2633020		FC114020		
25	1"	33,7	F2631025		F2633025		FC114025		
32	1 1/4"	42,4	F2631032		F2633032		FC114032		
40	1 1/2"	48,3	F2631040		F2633040		FC114040		
50	2"	60,3	F2631050		F2633050		FC116050		
65	2 1/2"	76,1	F2631065		F2633065		FC116065		
80	3"	88,9	F2631080		F2633080		FC116080		
90	3 1/2"	108,0			F2633108				
100	4"	114,3	F2631100		F2633100		FC116100		
125	5"	133,0			F2633133				
		139,7	F2631125		F2633125		FC116125		
150	6"	159,0			F2633159				
		168,3	F2631150		F2633150		FC116150		
200	8"	219,1	F2631200		F2632200		FC111200		
250	10"	273,0	F2631250		F2632250		FC111250		
300	12"	323,9	F2631300		F2632300		FC111300		
350	14"	355,6	F2631350		F2632350		FC111350		
400	16"	406,4	F2631400		F2632400		FC111400		
450	18"	457,0			F2632450				
500	20"	508,0	F2631500		F2632500		FC111500		
600	24"	609,0					FC111600		
700	28"	711,0							
800	32"	813,0							
900	36"	914,0							
1000	40"	1.016,0							

4 HOLES
 According to DIN 2633

NECK FLANGE ACCORDING TO EN 1092-1 11 STANDARD

PN 16		PN 25		PN 40	
MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH
CODE	CODE	CODE	CODE	CODE	CODE
F2633015	FC114015	F2635015	FC114015	F2635015	FC114015
F2633020	FC114020	F2635020	FC114020	F2635020	FC114020
F2633025	FC114025	F2635025	FC114025	F2635025	FC114025
F2633032	FC114032	F2635032	FC114032	F2635032	FC114032
F2633040	FC114040	F2635040	FC114040	F2635040	FC114040
F2633050	FC116050	F2635050	FC114050	F2635050	FC114050
F2633065	FC116065	F2635065	FC114065	F2635065	FC114065
F2633080	FC116080	F2635080	FC114080	F2635080	FC114080
F2633108					
F2633100	FC116100	F2635100	FC114100	F2635100	FC114100
F2633133					
F2633125	FC116125	F2635125	FC114125	F2635125	FC114125
F2633159					
F2633150	FC116150	F2635150	FC114150	F2635150	FC114150
F2633200	FC116200	F2634200		F2635200	FC114200
F2633250	FC116250	F2634250		F2635250	FC114250
F2633300	FC116300	F2634300		F2635300	FC114300
F2633350	FC116350	F2634350		F2635350	
F2633400	FC116400	F2634400		F2635400	
F2633450		F2634450		F2635450	
F2633500	FC116500	F2634500		F2635500	
F2633600	FC116600				
F2633700					
F2633800					
F2633900					
F2633999					



Not standardized flanges

4 HOLES

According to DIN 2633



DIMENSION			IRRIGATION FLANGE	DIN 2642 FLANGE		2573 THREADED FLANGE		2576 THREADED FLANGE	
DN	"	mm.		PN 10 ZINCATED	PN 6 ZINCATED	PN 10/16 ZINCATED			
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	
15	1/2"	21,3				F573O015		F576O015	
20	3/4"	26,9				F573O020		F576O020	
25	1"	33,7		F2642025	F573O025		F576O025		
32	1 1/4"	42,4		F2642032	F573O032		F576O032		
40	1 1/2"	48,3	F576R040	F2642040	F573O040		F576O040		
50	2"	60,3	F576R050	F2642050	F573O050		F576O050		
65	2 1/2"	76,1	F576R065	F2642065	F573O065		F576O065		
80	3"	88,9	F576R080	F2642080	F573O080		F576O080 PN 10		
			F576R816				F576O086 PN 16		
100	4"	114,3	F576R100	F2642100	F573O100		F576O100		
125	5"	139,7	F576R125	F2642125	F573O125		F576O125		
150	6"	168,3	F576R150	F2642150	F573O150		F576O150		
200	8"	219,1	F576R200	F2642200					
			F576R216						
250	10"	273,0	F576R250	F2642250					
300	12"	323,9	F576R300	F2642300					

- 8 Holes PN 16
- 12 Holes PN 16
- 4 Holes



ZINCATED FLANGE FOR POLYETHYLENE STUB-END

DIMENSION			ZINCATED PE FLANGE							
DN	PE Ø EXT (mm)	PVC Ø EXT (mm)	NORMAL SERIES PN 10		LIGHT SERIES PN 10		NORMAL SERIES PN 16		LIGHT SERIES PN 16	
			CODE		CODE		CODE		CODE	
15	20		FPE10015				FPE10015			
20	25		FPE10020				FPE10020			
25	32		FPE10025				FPE10025			
32	40		FPE10032				FPE10032			
40	50		FPE10040		FPR10040		FPE10040		FPR10040	
50	63	50								
		63	FPE10050		FPR10050		FPE10050		FPR10050	
65	75	63								
		75	FPE10065		FPR10065		FPE10065		FPR10065	
80	90	90	FPE10080		FPR10080		FPE10080		FPR10080	
100	110	110	FPE10100		FPR10100		FPE10100		FPR10100	
	125		FPE10101		FPR10101		FPE10101		FPR10101	
125	125	125	FPE10125		FPR10125		FPE10125		FPR10125	
	140	140	FPE10126		FPR10126		FPE10126		FPR10126	
150	160	160	FPE10150		FPR10150		FPE10150		FPR10150	
	180		FPE10151		FPR10151		FPE10151		FPR10151	
200	200	200	FPE10200		FPR10200		FPE16200		FPR16200	
	225						FPE16201		FPR16201	
250	250	250	FPE10250		FPR10250		FPE16250		FPR16250	
300	315	315	FPE10300		FPR10300		FPE16300		FPR16300	
350	355		FPE10350		FPR10350		FPE16350		FPR16350	
400	400		FPE10400		FPR10400		FPE16400		FPR16400	
450	450				FPR10450				FPR16450	
500	500				FPR10500				FPR16500	
600	560				FPR10600					
	630				FPR10601					
700	710				FPR10700					
800	800				FPR10800					

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RUBBER GASKET

Type 1



Type 2



According to EN 1514-1 (Type 1) and DIN 2690 (Type 2).
3 mm. thickness.

Preserve their properties:

SBR: between -10° C and 100° C.

NBR: between -10° C and 80° C.

■ PN 10
 ■ PN 10/16
 ■ PN 16

DN	TYPE 1		TYPE 1 SBR		TYPE 1 NBR		TYPE 2 SBR	
	N° HOLES		CODE		CODE		CODE	
25	4	10	JBG10025		JBG1N025		JBG20025	
32	4	10	JBG10032		JBG1N032		JBG20032	
40	4	10	JBG10040		JBG1N040		JBG20040	
50	4	10	JBG10050		JBG1N050		JBG20050	
65	8	10	JBG10065		JBG1N065		JBG20065	
80	8	10	JBG10080		JBG1N080		JBG20080	
80		10					JBG20086	
100	8	10	JBG10100		JBG1N100		JBG20100	
125	8	10	JBG10125		JBG1N125		JBG20125	
150	8	10	JBG10150		JBG1N150		JBG20150	
175	8	10	JBG10175				JBG20175	
200	8	10	JBG10200		JBG1N200		JBG20200	
200	12	10	JBG10216				JBG20206	
250	12	10	JBG10250				JBG20250	
250	12	10	JBG10256				JBG20256	
300	12	10	JBG10300				JBG20300	
300	12	10	JBG10306				JBG20306	
350	16	5	JBG10350				JBG20350	
350	16	5	JBG10356				JBG20356	
400	16	5	JBG10400				JBG20400	
400	16	5	JBG10406				JBG20406	
450	20	5	JBG10450				JBG20450	
450	20	5	JBG10456				JBG20456	
500	20	5	JBG10500				JBG20500	
500	20	5	JBG10506				JBG20506	

COMPRESSED CARDBOARD GASKET



Made with organic and mineral fibers
WITHOUT ASBESTOS.

1.5 mm thickness.

Maximum working temperature 150° C.

Maximum pressure 35 kgs./cm².

Applications: water, air, oil and grease,
dissolvent.

GASKET FOR FLANGES WITHOUT HOLES DIN 2690

DN	Ø EXT.	Ø INT.		CODE	
15	50	20	25	JBKSA015	
20	60	25	25	JBKSA020	
25	70	30	25	JBKSA025	
32	82	40	25	JBKSA032	
40	92	50	25	JBKSA040	
50	107	60	25	JBKSA050	
65	127	77	25	JBKSA065	
80	142	90	25	JBKSA080	
100	162	114	25	JBKSA100	
125	192	140	25	JBKSA125	
150	218	168	25	JBKSA150	
200	273	220	25	JBKSA200	
250	328	273	10	JBKSA250	
300	378	325	10	JBKSA300	
350	438	368	10	JBKSA350	
400	490	420	5	JBKSA400	
500	595	520	5	JBKSA500	
600	680	620	1	JBKSA600	

SYNTHETIC GASKET



Their exclusive design allows precise centring on different flanges.

Made of polyethylene.

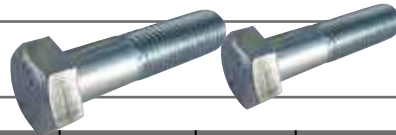
Maximum working temperature 40° C. Maximum pressure 16 kgs. cm².


Resistant to mild acids, saline solutions, water, alcohol, esters, oils.


They are waterproof, rot proof and anti-corrosion.

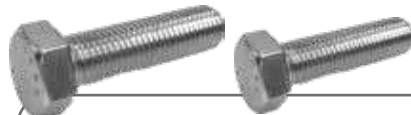
DN	Ø	CODE	
40	1 1/2"	JBP00040	
50	2"	JBP00050	
65	2 1/2"	JBP00065	
80	3"	JBP00080	
100	4"	JBP00100	
125	5"	JBP00125	
150	6"	JBP00150	
200	8"	JBP00200	
250	10"	JBP00250	
300	12"	JBP00300	
400	16"	JBP00400	
500	20"	JBP00500	

DIN 931 HEXAGONAL BOLT - 8.8 - Zincated




SIZE	LENGTH		CODE
M8	60	200	T8310860
M10	50	100	T8311050
M10	60	100	T8311060
M10	70	100	T8311070
M10	80	100	T8311080
M10	90	100	T8311090
M10	100	50	T8311010
M10	120	50	T8311012
M12	40	100	T8311240
M12	50	100	T8311250
M12	55	100	T8311255
M12	60	100	T8311260
M12	70	50	T8311270
M12	80	50	T8311280
M12	90	50	T8311290
M12	100	50	T8311210
M12	110	50	T8311211
M12	120	50	T8311212
M12	140	50	T8311214
M14	50	50	T8311450
M14	55	50	T8311455
M14	60	50	T8311460
M14	70	50	T8311470
M14	80	50	T8311480
M14	90	50	T8311490
M14	100	50	T8311410
M14	120	50	T8311412
M14	130	50	T8311413
M14	140	50	T8311414
M16	50	50	T8311650
M16	55	50	T8311655
M16	60	50	T8311660
M16	65	50	T8311665
M16	70	50	T8311670
M16	75	50	T8311675
M16	80	25	T8311680
M16	90	25	T8311690
M16	100	25	T8311610
M16	110	25	T8311611
M16	120	25	T8311612
M16	130	25	T8311613
M16	140	25	T8311614
M16	150	25	T8311615
M16	160	25	T8311616
M16	180	25	T8311618
M16	200	25	T8311620
M18	60	25	T8311860
M18	70	25	T8311870
M18	80	25	T8311880
M18	90	25	T8311890
M18	100	25	T8311810
M18	110	25	T8311811
M18	120	25	T8311812
M18	130	25	T8311813
M18	140	25	T8311814
M18	150	25	T8311815
M18	160	25	T8311816
M18	180	25	T8311818
M18	200	20	T8311820

SIZE	LENGTH		CODE
M20	60	25	T8312060
M20	70	25	T8312070
M20	80	25	T8312080
M20	90	25	T8312090
M20	100	25	T8312010
M20	110	25	T8312011
M20	120	25	T8312012
M20	130	25	T8312013
M20	140	25	T8312014
M20	150	25	T8312015
M20	160	25	T8312016
M20	180	20	T8312018
M20	200	20	T8312020
M22	70	50	T8312270
M22	80	50	T8312280
M22	90	25	T8312290
M22	100	20	T8312210
M22	110	30	T8312211
M24	100	30	T8312410
M24	110	30	T8312411
M24	120	30	T8312412
M24	130	30	T8312413
M24	140	25	T8312414
M24	150	25	T8312415
M24	160	25	T8312416
M24	180	20	T8312418
M24	200	20	T8312420
M27	120	10	T8312712
M30	130	25	T8313013
M33	140	5	T8313314

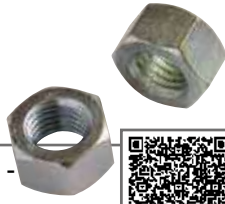


DIN 933 HEXAGONAL BOLT - 8.8 Zincated



SIZE	LENGTH		CODE
M16	30	50	T8331630
M16	35	50	T8331635
M16	40	50	T8331640
M16	45	50	T8331645
M16	60	50	T8331660
M16	70	50	T8331670
M16	80	25	T8331680
M16	90	25	T8331690
M16	100	25	T8331610
M18	50	50	T8331850
M20	50	25	T8332050
M20	60	25	T8332060
M20	70	25	T8332070
M20	80	25	T8332080
M20	90	25	T8332090
M20	100	25	T8332010
M24	60	60	T8332460
M24	70	50	T8332470
M24	100	30	T8332410

DIN 934 HEXAGONAL NUT- 8 - Zincated



SIZE		CODE	
M4	250	T9340004	
M5	250	T9340005	
M6	150	T9340006	
M8	125	T9340008	
M10	100	T9340010	
M12	100	T9340012	
M14	50	T9340014	
M16	50	T9340016	
M18	25	T9340018	
M20	25	T9340020	
M22	20	T9340022	
M24	10	T9340024	
M27	10	T9340027	
M30	10	T9340030	
M33	5	T9340033	

DIN 125 WASHER Zincated



SIZE		CODE	
M4	300	T1250004	
M5	300	T1250005	
M6	150	T1250006	
M8	125	T1250008	
M10	100	T1250010	
M12	100	T1250012	
M14	70	T1250014	
M16	70	T1250016	
M18	50	T1250018	
M20	50	T1250020	
M22	50	T1250022	
M24	50	T1250024	
M27	50	T1250027	
M30	50	T1250030	
M33	30	T1250033	

DIN 975 THREADED ROD 1.000 mm - 4.8 Zincated



SIZE		CODE	
M4	100	T9750004	
M5	100	T9750005	
M6	50	T9750006	
M8	25	T9750008	
M10	25	T9750010	
M12	20	T9750012	
M14	15	T9750014	
M16	10	T9750016	
M18	5	T9750018	
M20	5	T9750020	
M22	5	T9750022	
M24	5	T9750024	
M27	4	T9750027	
M30	2	T9750030	

DIN 9021 WASHER Zincated



SIZE		CODE	
M6	100	T9021006	
M8	100	T9021008	
M10	50	T9021010	
M12	40	T9021012	
M14	40	T9021014	
M16	30	T9021016	
M18	30	T9021018	
M20	30	T9021020	



NIPPLE (GROOVED-THREAD, GROOVED-WELDED)
STEEL EN 10255 (M/S195T)



Ø	Ø mm.	L mm.		TYPE	CODE
1 1/2"	48,3	70	50 10	RR-G	BRRG0770
2"	60,3	70	33 3	RR-G	BRRG0870
2 1/2"	76,1	70	12 2	RR-G	BRRG0B70
3"	88,9	70	12 2	RR-G	BRRG0A70
1"	33,7	80	100 10	RR-G	BRRG0580
1 1/4"	42,4	80	60 10	RR-G	BRRG0680
1 1/2"	48,3	80	50 10	RR-G	BRRG0780
2"	60,3	80	30 3	RR-G	BRRG0880
2 1/2"	76,1	80	12 2	RR-G	BRRG0B80
3"	88,9	80	12 2	RR-G	BRRG0A80
3"	88,9	110	9 1	RR-G	BRRGA110
4"	114,3	150	4 1	RR-G	BRRGC150
2"	60,3	100	24 3	RS-N	BRSN8100
2 1/2"	76,1	100	12 2	RS-N	BRSNB100
3"	88,9	100	10 1	RS-N	BRSNA100
4"	114,3	100	4 1	RS-N	BRSNC100
6"	168,3	100	2 1	RS-N	BRSNE100

RR-G = GROOVE-THREAD GALVANIZED
RS-N = GROOVE-WELDING BLACK



SLIDING BARREL NIPPLE TAPER THREAD DIN 2981
GALVANIZED STEEL ST 37,2



Ø	LENGTH		CODE
3/8"	100	230 10	B5322100
1/2"	100	140 10	B5323100
3/4"	120	70 10	B5324120
1"	140	50 10	B5325140
1 1/4"	150	25 5	B5326150
1 1/2"	150	20 5	B5327150
2"	170	12 4	B5328170

BLACK STUB END TAPER THREAD ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)
BLACK STEEL ST 37,2



Ø	LENGTH		CODE
1/4"	40	500 20	B6000140
3/8"	40	450 10	B6000240
3/8"	100	230 10	B6002100
3/8"	150	120 10	B6002150
3/8"	200	80 10	B6002200
3/8"	250	60 10	B6002250
3/8"	300	80 10	B6002300
1/2"	40	370 10	B6000340
1/2"	100	140 10	B6003100
1/2"	150	100 10	B6003150
1/2"	200	70 10	B6003200
1/2"	250	70 10	B6003250
1/2"	300	70 10	B6003300
3/4"	40	220 10	B6000440
3/4"	50	220 10	B6000450
3/4"	100	100 10	B6004100
3/4"	150	60 10	B6004150
3/4"	200	50 10	B6004200
3/4"	250	40 10	B6004250
3/4"	300	50 10	B6004300
1"	40	140 10	B6000540
1"	50	140 10	B6000550
1"	100	60 10	B6005100
1"	150	40 10	B6005150
1"	200	30 10	B6005200
1"	250	30 10	B6005250
1"	300	30 10	B6005300
1 1/4"	50	60 10	B6000650
1 1/4"	100	40 10	B6006100
1 1/4"	150	25 5	B6006150
1 1/4"	200	20 5	B6006200
1 1/4"	250	15 5	B6006250
1 1/4"	300	20 5	B6006300

Ø	LENGTH		CODE
1 1/2"	50	40 10	B6000750
1 1/2"	100	30 5	B6007100
1 1/2"	150	20 5	B6007150
1 1/2"	200	15 5	B6007200
1 1/2"	250	10 5	B6007250
1 1/2"	300	20 5	B6007300
2"	60	30 5	B6000860
2"	100	20 5	B6008100
2"	150	12 4	B6008150
2"	200	12 4	B6008200
2"	250	9 3	B6008250
2"	300	12 4	B6008300
2 1/2"	60	18 6	B6000A60
2 1/2"	100	12 4	B600A100
2 1/2"	150	6 3	B600A150
2 1/2"	200	6 3	B600A200
2 1/2"	250	4 4	B600A250
2 1/2"	300	8 4	B600A300
3"	60	12 4	B6000B60
3"	80	12 4	B6000B80
3"	100	8 2	B600B100
3"	150	6 2	B600B150
3"	200	4 2	B600B200
3"	250	4 2	B600B250
3"	300	6 2	B600B300
4"	80	5 1	B6000C80
4"	100	4 2	B600C100
4"	150	3 1	B600C150
4"	200	6 2	B600C200
4"	250	4 2	B600C250
4"	300	3 1	B600C300

SOCKET AND HALF SOCKET PARALLEL THREAD ISO 7/1 (EN 10226-1) DIN 2986 (EN 10241) STEEL ST 37,2



MANGUITO					
Ø	LENGTH		CODE BLACK		CODE ZINCADO
1/8"	17	1000 10	M1100000		M5100000
1/4"	25	500 10	M1100001		M5100001
3/8"	26	400 10	M1100002		M5100002
1/2"	34	200 10	M1100003		M5100003
1/2"	50	170 10	M1100350		
1/2"	60	170 10	M1100063		
3/4"	36	160 10	M1100004		M5100004
3/4"	48	120 10			M5100484
1"	43	100 10	M1100005		M5100005
1 1/4"	48	60 10	M1100006		M5100006
1 1/2"	48	50 10	M1100007		M5100007
2"	56	24 4	M1100008		M5100008
2 1/2"	65	18 3	M110000A		M510000A
3"	71	24 1	M110000B		M510000B
4"	83	12 1	M110000D		M510000D
5"	92	6 1	M110000F		M510000F
6"	92	4 1	M110000G		M510000G

MEDIO MANGUITO					
Ø	LENGTH		CODE BLACK		CODE ZINCADO
1/4"	11	800 10	M1400001		
3/8"	12	800 10	M1400002		
1/2"	15	400 10	M1400003		
3/4"	17	300 10	M1400004		
1"	19,5	180 10	M1400005		
1 1/4"	22	120 10	M1400006		
1 1/2"	22	90 10	M1400007		
2"	26	48 8	M1400008		
2 1/2"	30,5	36 12	M140000A		
3"	34	24 12	M140000B		
4"	40	10 2	M140000D		

BARREL NIPPLE TAPER THREAD ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)





Ø	LENGTH		CODE BLACK		CODE ZINCADO
1/8"	50	500 20			B5100050
1/8"	60	500 20			B5100060
1/4"	40	500 20	B1100140		
1/4"	50	500 20	B1100150		B5100150
1/4"	60	500 20	B1100160		B5100160
1/4"	80	200 20	B1100180		B5100180
1/4"	100	200 20	B1101100		B5101100
1/4"	120	200 20	B1101120		B5101120
1/4"	150	120 20	B1101150		B5101150
1/4"	200	90 10	B1101200		B5101200
1/4"	250	90 10	B1101250		
1/4"	300	90 10	B1101300		
3/8"	40	450 10	B1100240		B5100240
3/8"	50	250 10	B1100250		B5100250
3/8"	60	320 10	B1100260		B5100260
3/8"	70	230 10	B1100270		B5100270
3/8"	80	280 10	B1100280		B5100280
3/8"	90	210 10	B1100290		B5100290
3/8"	100	230 10	B1102100		B5102100
3/8"	120	200 10	B1102120		B5102120
3/8"	140	180 10	B1102140		B5102140
3/8"	150	120 10	B1102150		B5102150
3/8"	160	90 10	B1102160		B5102160
3/8"	180	90 10	B1102180		B5102180
3/8"	200	80 10	B1102200		B5102200
3/8"	250	60 10	B1102250		B5102250
3/8"	300	80 10	B1102300		B5102300
3/8"	400	60 10	B1102400		B5102400
3/8"	500	60 10	B1102500		B5102500
3/8"	1000	1			B5121000
1/2"	30	520 10	B1100330		B5100330
1/2"	40	370 10	B1100340		B5100340
1/2"	50	300 10	B1100350		B5100350
1/2"	60	250 10	B1100360		B5100360
1/2"	70	240 10	B1100370		B5100370
1/2"	80	210 10	B1100380		B5100380
1/2"	90	150 10	B1100390		B5100390
1/2"	100	140 10	B1103100		B5103100
1/2"	110	140 10	B1103110		
1/2"	120	120 10	B1103120		B5103120

Ø	LENGTH		CODE BLACK		CODE ZINCADO
1/2"	140	80 10	B1103140		B5103140
1/2"	150	110 10	B1103150		B5103150
1/2"	160	100 10	B1103160		B5103160
1/2"	180	100 10	B1103180		B5103180
1/2"	200	70 10	B1103200		B5103200
1/2"	220	70 10	B1103220		
1/2"	250	70 10	B1103250		B5103250
1/2"	300	70 10	B1103300		B5103300
1/2"	400	50 5	B1103400		B5103400
1/2"	500	40 5	B1103500		B5103500
1/2"	600	1			B5103600
1/2"	800	1			B5103800
1/2"	1000	1	B1131000		B5131000
1/2"	1500	1			B5131500
1/2"	2000	1			B5132000
3/4"	30	230 10			B5100430
3/4"	40	220 10	B1100440		B5100440
3/4"	50	180 10	B1100450		B5100450
3/4"	60	150 10	B1100460		B5100460
3/4"	70	130 10			B5100470
3/4"	80	120 10	B1100480		B5100480
3/4"	90	120 10			B5100490
3/4"	100	100 10	B1104100		B5104100
3/4"	110	100 10			B5104110
3/4"	120	70 10	B1104120		B5104120
3/4"	140	70 10	B1104140		B5104140
3/4"	150	60 10	B1104150		B5104150
3/4"	160	60 10	B1104160		B5104160
3/4"	180	60 10	B1104180		B5104180
3/4"	200	50 10	B1104200		B5104200
3/4"	250	40 10	B1104250		B5104250
3/4"	300	50 10	B1104300		B5104300
3/4"	400	30 5	B1104400		B5104400
3/4"	500	30 5	B1104500		B5104500
3/4"	600	1			B5104600
3/4"	800	1			B5104800
3/4"	1000	1			B5141000
3/4"	1500	1			B5141500
3/4"	2000	1			B5142000

**BARREL NIPPLE
TAPER THREAD ISO 7/1 (EN 10226-1)
DIN 2982 (EN 10241)**



Ø	LENGTH		CODE BLACK	CODE ZINCADO
1"	40	140 10	B1100540	B5100540
1"	50	140 10	B1100550	B5100550
1"	60	120 10	B1100560	B5100560
1"	70	100 10		B5100570
1"	80	80 10	B1100580	B5100580
1"	90	80 10		B5100590
1"	100	60 10	B1105100	B5105100
1"	120	60 10	B1105120	B5105120
1"	140	50 10	B1105140	B5105140
1"	150	40 10	B1105150	B5105150
1"	160	40 10	B1105160	B5105160
1"	180	40 10	B1105180	B5105180
1"	200	30 10	B1105200	B5105200
1"	250	30 10	B1105250	B5105250
1"	300	30 10	B1105300	B5105300
1"	400	25 5	B1105400	B5105400
1"	500	20 5	B1105500	B5105500
1"	600	1		B5105600
1"	800	1		B5105800
1"	1000	1		B5151000
1"	1500	1		B5151500
1"	2000	1		B5152000
1 1/4"	40	80 10	B1100640	B5100640
1 1/4"	50	60 10	B1100650	B5100650
1 1/4"	60	60 10	B1100660	B5100660
1 1/4"	70	40 10	B1100670	B5100670
1 1/4"	80	50 10	B1100680	B5100680
1 1/4"	100	40 10	B1106100	B5106100
1 1/4"	120	30 10	B1106120	B5106120
1 1/4"	140	25 5	B1106140	B5106140
1 1/4"	150	25 5	B1106150	B5106150
1 1/4"	160	25 5	B1106160	B5106160
1 1/4"	180	25 5	B1106180	B5106180
1 1/4"	200	20 5	B1106200	B5106200
1 1/4"	250	15 5	B1106250	B5106250
1 1/4"	300	20 5	B1106300	B5106300
1 1/4"	400	16 2	B1106400	B5106400
1 1/4"	500	16 2	B1106500	B5106500
1 1/4"	600	1		B5106600
1 1/4"	800	1		B5106800
1 1/4"	1000	1		B5161000
1 1/2"	40	80 10	B1100740	B5100740
1 1/2"	50	40 10	B1100750	B5100750
1 1/2"	60	50 10	B1100760	B5100760
1 1/2"	70	40 10		B5100770
1 1/2"	80	40 10	B1100780	B5100780
1 1/2"	100	30 5	B1107100	B5107100
1 1/2"	120	25 5	B1107120	B5107120
1 1/2"	140	20 5	B1107140	B5107140
1 1/2"	150	20 5	B1107150	B5107150
1 1/2"	160	20 5	B1107160	B5107160
1 1/2"	180	20 5	B1107180	B5107180
1 1/2"	200	15 5	B1107200	B5107200
1 1/2"	250	10 5	B1107250	B5107250
1 1/2"	300	20 5	B1107300	B5107300
1 1/2"	400	12 2	B1107400	B5107400
1 1/2"	500	12 2	B1107500	B5107500
1 1/2"	600	1		B5107600
1 1/2"	700	1		B5107700
1 1/2"	800	1		B5107800
1 1/2"	1000	1		B5171000

Ø	LENGTH		CODE BLACK	CODE ZINCADO
2"	40	40 5		B5100840
2"	50	40 5		B5100850
2"	60	30 5	B1100860	B5100860
2"	80	24 6	B1100880	B5100880
2"	90	20 5		B5100890
2"	100	20 5	B1108100	B5108100
2"	120	16 4	B1108120	B5108120
2"	140	12 4	B1108140	B5108140
2"	150	12 4	B1108150	B5108150
2"	160	12 4	B1108160	B5108160
2"	180	12 4	B1108180	B5108180
2"	200	12 4	B1108200	B5108200
2"	250	9 3	B1108250	B5108250
2"	300	12 4	B1108300	B5108300
2"	400	10 2	B1108400	B5108400
2"	500	12 2	B1108500	B5108500
2"	600	1		B5108600
2"	800	1		B5108800
2"	1000	1		B5181000
2 1/2"	80	12 4	B1100A80	B5100A80
2 1/2"	100	12 4	B1100A100	B5100A100
2 1/2"	120	8 4	B1100A120	B5100A120
2 1/2"	140	6 3	B1100A140	B5100A140
2 1/2"	150	6 3	B1100A150	B5100A150
2 1/2"	160	6 3	B1100A160	B5100A160
2 1/2"	180	6 3	B1100A180	B5100A180
2 1/2"	200	6 3	B1100A200	B5100A200
2 1/2"	250	4 4	B1100A250	B5100A250
2 1/2"	300	8 2	B1100A300	B5100A300
2 1/2"	400	6 2		B5100A400
2 1/2"	500	5 1		B5100A500
2 1/2"	600	1		B5100A600
2 1/2"	800	1		B5100A800
2 1/2"	1000	1		B5100A1000
3"	80	12 4	B1100B80	B5100B80
3"	100	8 2	B1100B100	B5100B100
3"	120	8 2	B1100B120	B5100B120
3"	140	4 2	B1100B140	B5100B140
3"	150	6 2	B1100B150	B5100B150
3"	160	4 2		B5100B160
3"	180	4 2	B1100B180	B5100B180
3"	200	4 2	B1100B200	B5100B200
3"	250	4 2	B1100B250	B5100B250
3"	300	6 2	B1100B300	B5100B300
3"	400	4 2		B5100B400
3"	500	4 2		B5100B500
4"	80	5 1	B1100C80	B5100C80
4"	100	4 2	B1100C100	B5100C100
4"	120	3 1	B1100C120	B5100C120
4"	140	3 1	B1100C140	B5100C140
4"	150	3 1	B1100C150	B5100C150
4"	160	3 1	B1100C160	B5100C160
4"	180	2 1	B1100C180	B5100C180
4"	200	6 2	B1100C200	B5100C200
4"	250	4 2	B1100C250	B5100C250
4"	300	3 1	B1100C300	B5100C300
4"	400	3 1		B5100C400
4"	500	3 1		B5100C500

OTHER SIZES - ON REQUEST

STAINLESS STEEL FITTINGS

Stainless Steel is a ferrite alloy whose carbon content (C) is less than 2%.

A great resistance to corrosion is the main feature of stainless steel because one of the largest components, the chrome (Cr), is present in the alloy with a percentage not less than 12%.

Main groups of stainless steel

- Ferritic steel: Fe + Cr (12-30%) + C (0.02-0.1%)
- Martensitic steel: Fe + Cr (12-19%) + C (0.08-1.2%)
- Austenitic steel: Fe + Cr (16-28%) + C (0.02-0.1%) + Ni (6-32%)

ATUSA only deals with austenitic steels, where the main points are a great resistance to corrosion and remarkable mechanical properties at high temperatures.

Austenitic stainless steels are commonly used in installations where materials able to withstand severe service conditions are requested.

Main austenitic stainless steels:

AISI 304 (EN 1.4301): This presents high resistance to fatigue with a low sensitivity to impacts and is particularly suitable to be used at low temperatures.

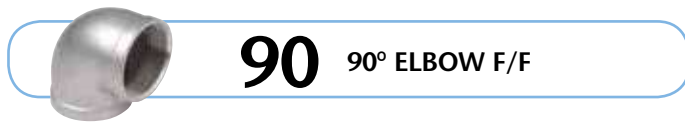
AISI 316 (EN 1.4401): The AISI 316 differs from the 304 due to the presence of Molybdenum (Mo) to a level of 2 - 3%. This gives it good resistance to corrosion and better mechanical properties at high temperatures.

The AISI 304L (EN 1.4307) and the 316L (EN 1.4404) are different from those previously mentioned due to the lower content of Carbon (C) in the alloy. This allows soldering to be carried out at higher temperatures. The other properties are similar to those of the 304 and the 316 when used at room temperature, while they are slightly inferior for higher temperatures.



 **ATUSA**

STAINLESS STEEL FITTINGS



90 90° ELBOW F/F

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	400 10	I0906000	
1/4"	400 10	I0906001	
3/8"	290 10	I0906002	
1/2"	160 10	I0906003	I090L003
3/4"	80 10	I0906004	I090L004
1"	50 10	I0906005	I090L005
1 1/4"	24 4	I0906006	I090L006
1 1/2"	18 2	I0906007	I090L007
2"	10 1	I0906008	I090L008
2 1/2"	6 1	I0906009	
3"	3 1	I090600A	
4"	1	I090600C	
3/4" x 1/2"	90 10		I090L043
1" x 3/4"	50 10		I090L054
1 1/4" x 3/4"	30 10		I090L064
1 1/4" x 1"	30 10		I090L065



92 90° ELBOW M/F

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	500 10	I0926000	
1/4"	350 10	I0926001	
3/8"	260 10	I0926002	
1/2"	160 10	I0926003	I092L003
3/4"	100 10	I0926004	I092L004
1"	50 10	I0926005	I092L005
1 1/4"	25 5	I0926006	I092L006
1 1/2"	18 2	I0926007	I092L007
2"	10 1	I0926008	I092L008
2 1/2"	4 1	I0926009	
3"	3 1	I092600A	
4"	1	I092600C	



96 UNION CONICAL ELBOW F/F



Ø		CODE
1/2"	50 5	I0966003
3/4"	40 5	I0966004
1"	20 2	I0966005
1 1/4"	15 1	I0966006
1 1/2"	12 1	I0966007
2"	6 1	I0966008



98 UNION CONICAL ELBOW M/F



Ø		CODE
1/2"	50 5	I0986003
3/4"	30 5	I0986004
1"	14 2	I0986005
1 1/4"	12 1	I0986006
1 1/2"	8 1	I0986007
2"	6 1	I0986008



120 45° ELBOW F/F



Ø		CODE
1/4"	400 10	I1206001
3/8"	300 10	I1206002
1/2"	150 5	I1206003
3/4"	90 5	I1206004
1"	60 5	I1206005
1 1/4"	30 1	I1206006
1 1/2"	20 1	I1206007
2"	12 1	I1206008
2 1/2"	8 1	I1206009
3"	4 1	I120600A



121 45° ELBOW M/F



Ø		CODE
1/4"	400 10	I1216001
3/8"	200 10	I1216002
1/2"	150 5	I1216003
3/4"	90 5	I1216004
1"	60 5	I1216005
1 1/4"	30 1	I1216006
1 1/2"	20 1	I1216007
2"	12 1	I1216008
2 1/2"	8 1	I1216009
3"	4 1	I121600A



130 TEE

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	380 10	I1306000	
1/4"	250 10	I1306001	
3/8"	160 10	I1306002	
1/2"	100 5	I1306003	I130L003
3/4"	50 5	I1306004	I130L004
1"	30 5	I1306005	I130L005
1 1/4"	18 2	I1306006	I130L006
1 1/2"	14 2	I1306007	I130L007
2"	10 1	I1306008	I130L008
2 1/2"	4 1	I1306009	
3"	2 1	I130600A	
4"	1	I130600C	



130R REDUCING TEE

Ø		ISO 4144 CODE	PN 16 CODE
1/2" x 3/8" x 1/2"	120 5	I1306323	
3/4" x 1/2" x 3/4"	60 5	I1306434	I130L434
1" x 1/2" x 1"	40 5	I1306535	I130L535
1" x 3/4" x 1"	30 5	I1306545	I130L545
1" x 1" x 1/2"	30 5	I1306553	
1 1/4" x 1/2" x 1 1/4"	30 10		I130L636
1 1/4" x 3/4" x 1 1/4"	30 10		I130L646
1 1/4" x 1" x 1 1/4"	20 5		I130L656
1 1/2" x 1" x 1 1/2"	20 5		I130L757
1 1/2" x 1 1/4" x 1 1/2"	15 5		I130L767
2" x 1" x 2"	12 3		I130L858



241 HEXAGONAL BUSHING M/F

Ø		ISO 4144 CODE	PN 16 CODE
1/4" x 1/8"	650 10	I2416010	
3/8" x 1/8"	580 10	I2416020	
3/8" x 1/4"	580 10	I2416021	
1/2" x 1/8"	500 10	I2416030	
1/2" x 1/4"	380 10	I2416031	I241L031
1/2" x 3/8"	400 10	I2416032	I241L032
3/4" x 1/4"	240 5	I2416041	
3/4" x 3/8"	250 5	I2416042	
3/4" x 1/2"	240 5	I2416043	I241L043
1" x 3/8"	120 10	I2416052	
1" x 1/2"	140 5	I2416053	I241L053
1" x 3/4"	140 5	I2416054	I241L054
1 1/4" x 1/2"	100 5	I2416063	I241L063
1 1/4" x 3/4"	80 5	I2416064	I241L064
1 1/4" x 1"	100 5	I2416065	I241L065
1 1/2" x 1/2"	60 5	I2416073	I241L073
1 1/2" x 3/4"	60 5	I2416074	I241L074
1 1/2" x 1"	70 2	I2416075	I241L075
1 1/2" x 1 1/4"	70 2	I2416076	I241L076
2" x 1/2"	35 5	I2416083	I241L083
2" x 3/4"	35 5	I2416084	I241L084
2" x 1"	30 5	I2416085	I241L085
2" x 1 1/4"	30 5	I2416086	I241L086
2" x 1 1/2"	30 2	I2416087	I241L087
2 1/2" x 1"	24 2	I2416095	
2 1/2" x 1 1/4"	24 4	I2416096	
2 1/2" x 1 1/2"	24 2	I2416097	
2 1/2" x 2"	24 2	I2416098	
3" x 2"	16 1	I24160A8	
3" x 2 1/2"	16 1	I24160A9	
4" x 2"	8 1	I24160C8	
4" x 2 1/2"	8 1	I24160C9	
4" x 3"	8 1	I24160CA	



180 CROSS



Ø		CODE
1/8"	250 10	I1806000
1/4"	160 10	I1806001
3/8"	120 10	I1806002
1/2"	60 10	I1806003
3/4"	36 6	I1806004
1"	20 5	I1806005
1 1/4"	16 4	I1806006
1 1/2"	12 4	I1806007
2"	6 2	I1806008
2 1/2"	3 1	I1806009
3"	2 1	I180600A
4"	1	I180600C



240 REDUCING SOCKET

Ø		ISO 4144 CODE	PN 16 CODE
1/4" x 1/8"	300 10	I2406010	
3/8" x 1/4"	300 10	I2406021	
1/2" x 1/4"	150 10	I2406031	
1/2" x 3/8"	200 10	I2406032	I240L032
3/4" x 1/4"	140 10	I2406041	
3/4" x 1/2"	120 5	I2406043	I240L043
1" x 1/2"	90 5	I2406053	I240L053
1" x 3/4"	70 5	I2406054	I240L054
1 1/4 x 3/4"	60 5	I2406064	I240L064
1 1/4" x 1"	40 5	I2406065	I240L065
1 1/2" x 1"	40 5	I2406075	I240L075
1 1/2" x 1 1/4"	30 5	I2406076	I240L076
2" x 1"	30 5	I2406085	I240L085
2" x 1 1/4"	25 5	I2406086	I240L086
2" x 1 1/2"	25 5	I2406087	I240L087
2 1/2" x 2"	12 2	I2406098	
3" x 2"	12 2	I24060A8	





245 HEXAGONAL REDUCING NIPPLE

Ø		ISO 4144 CODE	PN 16 CODE
1/4" x 1/8"	520 10	I2456010	
3/8" x 1/8"	400 10	I2456020	
3/8" x 1/4"	400 10	I2456021	
1/2" x 1/4"	280 10	I2456031	
1/2" x 3/8"	200 10	I2456032	I245L032
3/4" x 1/4"	200 10	I2456041	
3/4" x 3/8"	100 10	I2456042	I245L042
3/4" x 1/2"	180 10	I2456043	I245L043
1" x 1/2"	100 5	I2456053	I245L053
1" x 3/4"	100 5	I2456054	I245L054
1 1/4" x 1/2"	60 5	I2456063	I245L063
1 1/4" x 3/4"	70 5	I2456064	I245L064
1 1/4" x 1"	60 5	I2456065	I245L065
1 1/2" x 1/2"	45 3	I2456073	
1 1/2" x 3/4"	54 3	I2456074	I245L074
1 1/2" x 1"	40 2	I2456075	I245L075
1 1/2" x 1 1/4"	36 2	I2456076	I245L076
2" x 1"	28 2	I2456085	I245L085
2" x 1 1/4"	30 2	I2456086	I245L086
2" x 1 1/2"	26 2	I2456087	I245L087
2 1/2" x 1"	12 2	I2456095	
2 1/2" x 1 1/4"	12 2	I2456096	
2 1/2" x 1 1/2"	12 2	I2456097	
2 1/2" x 2"	20 1	I2456098	
3" x 2"	10 1	I24560A8	
3" x 2 1/2"	10 1	I24560A9	



246 REDUCING SOCKET F/M



Ø		CODE
1/4" x 1/8"	300 10	I2466010
3/8" x 1/4"	300 10	I2466021
3/8" x 3/8"	300 10	I2466022
1/2" x 3/8"	200 10	I2466032
1/2" x 1/2"	200 10	I2466033
3/4" x 1/2"	120 5	I2466043
3/4" x 3/4"	120 5	I2466044
1" x 3/4"	70 5	I2466054
1" x 1"	70 5	I2466055



270 MANGUITO



Ø		COD.
1/8"	800 10	I2706000
1/4"	450 10	I2706001
3/8"	400 10	I2706002
1/2"	240 10	I2706003
3/4"	180 5	I2706004
1"	80 5	I2706005
1 1/4"	50 2	I2706006
1 1/2"	40 2	I2706007
2"	24 1	I2706008
2 1/2"	12 1	I2706009
3"	8 1	I270600A
4"	4 1	I270600C



280 HEXAGONAL NIPPLE

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	700 10	I2806000	
1/4"	500 10	I2806001	
3/8"	400 10	I2806002	
1/2"	240 10	I2806003	I280L003
3/4"	120 5	I2806004	I280L004
1"	80 5	I2806005	I280L005
1 1/4"	45 3	I2806006	I280L006
1 1/2"	30 2	I2806007	I280L007
2"	20 1	I2806008	I280L008
2 1/2"	12 1	I2806009	
3"	8 1	I280600A	
4"	4 1	I280600C	



285 WALL CONNECTOR



Ø		CODE
3/8"	100 5	I2856002
1/2"	100 5	I2856003
3/4"	60 5	I2856004
1"	40 5	I2856005
1 1/4"	20 2	I2856006
1 1/2"	16 2	I2856007
2"	16 2	I2856008



290 PLUG

Ø	ISO 4144 CODE		PN 16 CODE
1/8"	800	10	I2906000
1/4"	600	10	I2906001
3/8"	500	10	I2906002
1/2"	300	10	I2906003
3/4"	200	5	I2906004
1"	140	5	I2906005
1 1/4"	81	3	I2906006
1 1/2"	60	3	I2906007
2"	30	1	I2906008
2 1/2"	24	1	I2906009
3"	16	1	I290600A
4"	8	1	I290600C



300 HEXAGONAL CAP

Ø	ISO 4144 CODE		PN 16 CODE
1/8"	600	10	I3006000
1/4"	600	10	I3006001
3/8"	400	10	I3006002
1/2"	250	5	I3006003
3/4"	180	5	I3006004
1"	120	5	I3006005
1 1/4"	60	3	I3006006
1 1/2"	46	2	I3006007
2"	30	1	I3006008
2 1/2"	20	1	I3006009
3"	12	1	I300600A
4"	8	1	I300600C



312 BACK NUT



Ø	CODE	
1/8"	1000	10
1/4"	800	10
3/8"	600	10
1/2"	400	5
3/4"	300	5
1"	200	5
1 1/4"	120	3
1 1/2"	100	2
2"	20	1
2 1/2"	25	1
3"	20	1
4"	10	1



315 HOSE NIPPLE



Ø	CODE	
1/8" x 8 mm.	500	10
1/4" x 9 mm.	500	10
3/8" x 11 mm.	350	10
1/2" x 15 mm.	200	10
3/4" x 20 mm.	120	5
1" x 27 mm.	60	5
1 1/4" x 33 mm.	40	2
1 1/2" x 40 mm.	35	1
2" x 53 mm.	15	1
2 1/2" x 66 mm.	10	1
3" x 80 mm.	8	1
4" x 105 mm.	2	1



332 BUTT-WELDING UNION WITH FLAT SEAT



Ø	COD.	
1/2" - 21,3 mm	80	10
3/4" - 26,9 mm	50	10
1" - 33,7 mm	30	5



342 BUTT-WELDING UNION WITH CONICAL SEAT



Ø	COD.	
1/2" - 21,3 mm	100	10
3/4" - 26,9 mm	50	10
1" - 33,7 mm	40	10



330 FLAT SEAT UNION F/F

Ø		ISO 4144 CODE	PN 16 CODE
1/4"	120 10	I3306001	
3/8"	100 10	I3306002	
1/2"	100 10	I3306003	I330L003
3/4"	60 10	I3306004	I330L004
1"	40 10	I3306005	I330L005
1 1/4"	20 5	I3306006	I330L006
1 1/2"	18 3	I3306007	I330L007
2"	16 2	I3306008	I330L008
2 1/2"	6 2	I3306009	
3"	4 1	I330600A	
4"	2 1	I330600C	



331 FLAT SEAT UNION M/F

Ø		ISO 4144 CODE	PN 16 CODE
1/4"	200 10	I3316001	
3/8"	150 10	I3316002	
1/2"	100 10	I3316003	I331L003
3/4"	60 5	I3316004	I331L004
1"	42 3	I3316005	I331L005
1 1/4"	21 3	I3316006	I331L006
1 1/2"	16 2	I3316007	I331L007
2"	10 1	I3316008	
2 1/2"	6 1	I3316009	
3"	4 1	I331600A	
4"	2 1	I331600C	



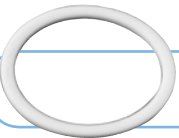
340 CONICAL SEAT UNION F/F

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	250 10	I3406000	
1/4"	200 10	I3406001	
3/8"	150 10	I3406002	
1/2"	100 10	I3406003	I340L003
3/4"	60 5	I3406004	I340L004
1"	42 3	I3406005	I340L005
1 1/4"	21 3	I3406006	I340L006
1 1/2"	16 2	I3406007	I340L007
2"	16 1	I3406008	I340L008
2 1/2"	6 1	I3406009	
3"	4 1	I340600A	
4"	2 1	I340600C	



341 CONICAL SEAT UNION M/F

Ø		ISO 4144 CODE	PN 16 CODE
1/8"	250 10	I3416000	
1/4"	200 10	I3416001	
3/8"	120 10	I3416002	
1/2"	100 10	I3416003	I341L003
3/4"	50 5	I3416004	I341L004
1"	30 3	I3416005	I341L005
1 1/4"	21 3	I3416006	I341L006
1 1/2"	16 2	I3416007	I341L007
2"	10 1	I3416008	I341L008
2 1/2"	5 1	I3416009	
3"	2 1	I341600A	
4"	1	I341600C	



PTFE FLAT GASKET FOR FIG. 330 AND FIG. 331

Ø		ISO 4144 CODE	PN 16 CODE
1/4"	100 10	I33J0001	
3/8"	100 10	I33J0002	
1/2"	100 10	I33J0003	I33LJ003
3/4"	100 10	I33J0004	I33LJ004
1"	100 10	I33J0005	I33LJ005
1 1/4"	100 10	I33J0006	I33LJ006
1 1/2"	100 10	I33J0007	I33LJ007
2"	100 10	I33J0008	I33LJ008
2 1/2"	100 10	I33J0009	
3"	100 10	I33J000A	
4"	100 10	I33J000C	



530 BARREL NIPPLE



531 PARALLEL NIPPLE



Ø		CODE
1/8" x 40 mm.	800 10	I5306000
1/4" x 40 mm.	500 10	I5306001
3/8" x 40 mm.	400 10	I5306002
1/2" x 60 mm.	180 10	I5306003
3/4" x 60 mm.	120 10	I5306004
1" x 60 mm.	120 5	I5306005
1 1/4" x 80 mm.	40 2	I5306006
1 1/2" x 80 mm.	25 1	I5306007
2" x 100 mm.	18 1	I5306008
2 1/2" x 100 mm.	10 1	I5306009
3" x 120 mm.	5 1	I530600A
4" x 120 mm.	2 1	I530600C
3/8" x 80 mm.	280 10	I5362080
3/8" x 150 mm.	120 10	I5362150
1/2" x 80 mm.	210 10	I5363080
1/2" x 120 mm.	120 10	I5363120
1/2" x 150 mm.	110 10	I5363150
1/2" x 1.000 mm.	5 1	I5331000
3/4" x 100 mm.	60 10	I5364100
3/4" x 120 mm.	70 10	I5364120
3/4" x 150 mm.	60 10	I5364150
3/4" x 200 mm.	50 10	I5364200
3/4" x 1.000 mm.	5 1	I5341000
1" x 40 mm.	140 10	I5365040
1" x 80 mm.	70 10	I5365080
1" x 100 mm.	60 10	I5365100
1" x 150 mm.	40 10	I5365150
1" x 200 mm.	30 10	I5365200
1" x 1.000 mm.	5 1	I5351000
1 1/4" x 100 mm.	40 10	I5366100
1 1/4" x 150 mm.	25 1	I5366150
1 1/2" x 150 mm.	20 1	I5367150
2" x 60 mm.	30 10	I5368060
2" x 150 mm.	12 1	I5368150



600 WELDING NIPPLE



Ø		AISI 304 CODE	AISI 316 CODE
1/8" x 30mm	1200 10	I6004000	I6006000
1/4" x 30mm	500 10	I6004001	I6006001
3/8" x 30mm	500 10	I6004002	I6006002
1/2" x 35mm	300 5	I6004003	I6006003
3/4" x 40mm	180 5	I6004004	I6006004
1" x 40 mm	120 5	I6004005	I6006005
1 1/4" x 50 mm	60 3	I6004006	I6006006
1 1/2" x 50 mm	40 2	I6004007	I6006007
2" x 50 mm	30 1	I6004008	I6006008
2 1/2" x 60 mm	18 1	I6004009	I6006009
3" x 70 mm	12 1	I600400A	I600600A
4" x 80mm	4 1	I600400C	I600600C



700 THREADED HOSE COUPLING



800 HOSE COUPLING



Ø		CODE
1/4" x 70 mm.	400 10	I7001070
3/8" x 70 mm.	250 10	I7002070
1/2" x 70 mm.	180 10	I7003070
3/4" x 70 mm.	120 10	I7004070
1" x 70 mm.	90 5	I7005070
1 1/4" x 70 mm.	40 5	I7006070
1 1/2" x 100 mm.	25 5	I7007100
2" x 100 mm.	20 1	I7008100



Ø		CODE
1/4" x 66 mm.	300 10	I8001066
3/8" x 76 mm.	250 10	I8002076
1/2" x 86 mm.	160 10	I8003086
3/4" x 100 mm.	80 10	I8004100
1" x 114 mm.	50 5	I8005114
1 1/4" x 114 mm.	30 5	I8006114
1 1/2" x 122 mm.	25 5	I8007122
2" x 130 mm.	15 1	I8008130

OTHER SIZES - ON REQUEST

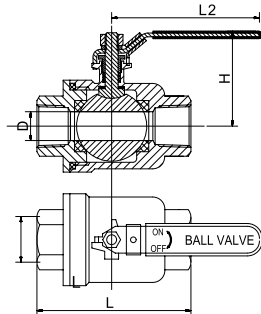
VALVES - AISI 316



2-PC BALL VALVE WITH FULL BORE



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threads according to ISO 7/1 (R-Rp).
Working Temperature from -20° C to 180° C.
Working Pressure:
1000 WOG/PN 63 from 1/4" to 2".
600 WOG/PN 40 from 2 1/2" to 4".
Locking system.



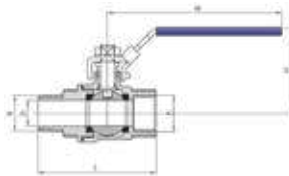
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/4"	12,5	49,0	100	47	60 1	IVB20061
3/8"	12,5	49,0	100	47	60 1	IVB20062
1/2"	15,0	56,0	102	48	45 1	IVB20063
3/4"	20,0	64,5	112	59	25 1	IVB20064
1"	25,0	78,0	120	56	16 1	IVB20065
1 1/4"	32,0	88,0	135	68	10 1	IVB20066
1 1/2"	38,0	96,5	148	83	6 1	IVB20067
2"	50,0	116,5	165	99	4 1	IVB20068
2 1/2"	65,0	146,5	235	128	4 1	IVB20069
3"	76,0	168,0	235	135	2 1	IVB2006A
4"	94,0	214,0	308	172	2 1	IVB2006C



2-PCS BALL VALVE M/F



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threads according to ISO 7/1 (R-Rp).
Working Temperature from -10° C to 150° C.
Working Pressure 1000 WOG/PN 63.
Locking system.



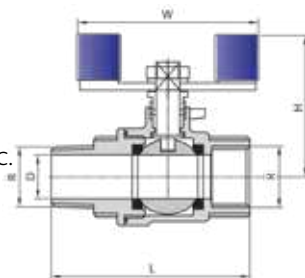
Ø	D mm.	L mm.	H mm.	W mm.		CODE
3/8"	12,5	57,0	47,0	100	50 1	IVB2MH62
1/2"	15,0	68,0	48,0	100	36 1	IVB2MH63
3/4"	20,0	77,0	57,5	112	25 1	IVB2MH64
1"	25,0	90,6	61,0	112	16 1	IVB2MH65
1 1/4"	32,0	101,5	77,5	145	10 1	IVB2MH66
1 1/2"	38,0	113,0	82,0	145	6 1	IVB2MH67
2"	50,0	138,0	98,0	165	4 1	IVB2MH68



2-PCS BALL VALVE M/F



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threads according to ISO 7/1 (R-Rp).
Working Temperature from -10° C to 150° C.
Working Pressure 1000 WOG/PN 63.



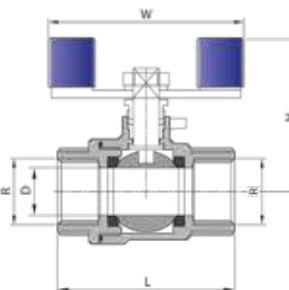
Ø	D mm.	L mm.	H mm.	W mm.		CODE
3/8"	12,5	57,0	46,0	63	60 1	IVB2MHM2
1/2"	15,0	68,0	47,0	63	45 1	IVB2MHM3
3/4"	20,0	77,0	55,5	63	35 1	IVB2MHM4
1"	25,0	90,6	59,0	63	25 1	IVB2MHM5



2-PCS BALL VALVE



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threads according to ISO 7/1 (R-Rp).
Working Temperature from -10° C to 150° C.
Working Pressure 1000 WOG/PN 63.



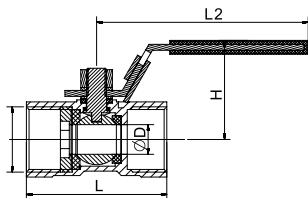
Ø	D mm.	L mm.	H mm.	W mm.		CODE
3/8"	12,5	49	46,0	63	60 1	IVB2HMHM2
1/2"	15,0	56	47,0	63	45 1	IVB2HMHM3
3/4"	20,0	64	55,5	63	35 1	IVB2HMHM4
1"	25,0	75	59,0	63	25 1	IVB2HMHM5



1-PC BALL VALVE



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15% GF.
Threads according to ISO 7/1 (R-Rp).
Working Temperature from -20° C to 180° C.
Working Pressure 1000 WOG/PN 63.
Locking system.



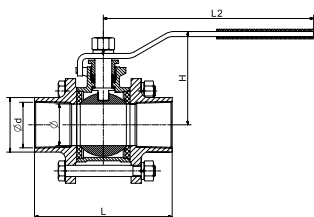
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/4"	5,0	40	62,5	30,7	200 1	IVB10061
3/8"	7,0	44	74,5	34,7	120 1	IVB10062
1/2"	9,2	56	86,5	40,7	70 1	IVB10063
3/4"	12,5	59	88,5	43,2	50 1	IVB10064
1"	15,0	71	107,0	49,2	30 1	IVB10065
1 1/4"	20,0	78	107,0	52,8	24 1	IVB10066
1 1/2"	25,0	83	132,0	66,4	16 1	IVB10067
2"	32,0	95	132,0	72,2	12 1	IVB10068



3-PC BALL VALVE WITH FULL BORE



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Working Temperature from -20° C to 180° C.
Working Pressure:
1000 WOG/PN 63 from 1/4" to 1 1/2".
600 WOG/PN 40 from 2" to 4".
Locking system.
Direct mounting for actuators ISO 5211.
Welding ends according to Butt Weld ANSI B 16.25.



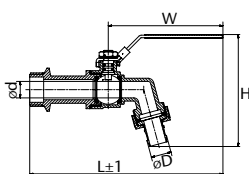
Ø	d mm.	L mm.	L2 mm.	H mm.		CODE
1/4"	12,50	51	100	45	40 1	IVB30061
3/8"	12,50	51	100	45	36 1	IVB30062
1/2"	15,00	62	100	49	30 1	IVB30063
3/4"	20,00	69	112	60	16 1	IVB30064
1"	25,00	79	112	64	11 1	IVB30065
1 1/4"	32,00	96	145	80	6 1	IVB30066
1 1/2"	38,00	102	145	83	4 1	IVB30067
2"	50,00	124	165	97	2 1	IVB30068
2 1/2"	65,00	159	230	118	2 1	IVB30069
3"	76,00	179	230	125	1 1	IVB3006A
4"	94,00	220	300	169	1 1	IVB3006C



BIBCOCK BALL VALVE



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in SS301 covered in blue PVC.
Rubber seal gasket: Viton.
Threads BSP.
Working Temperature from -20° C to 160° C.
Working pressure PN 16.



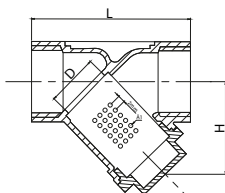
Ø	D mm.	L mm.	H mm.	W mm.		CODE
1/2"	13,0	145,0	87	92	40 1	IVG06003
3/4"	16,0	154,0	92	105	30 1	IVG06004
1"	27,5	183,5	115	105	20 1	IVG06005



Y-STRAINER



Made of CF8M (AISI 316).
Working Temperature from -20° C to 160° C.
Threads according to ISO 7/1 (R-Rp).
Working pressure PN 50.
Gasket: PTFE.



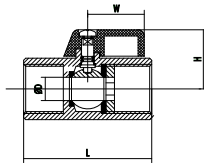
Ø	D mm.	L mm.	H mm.		CODE
1/2"	10	63	38	70 1	IVF00063
3/4"	20	80	55	45 1	IVF00064
1"	25	90	56	25 1	IVF00065
1 1/4"	32	108	60	14 1	IVF00066
1 1/2"	40	120	70	12 1	IVF00067
2"	50	142	82	6 1	IVF00068



MINI BALL VALVE F/F



Made of CF8M (AISI 316).
Aluminium handle.
Ball in CF8M.
O-ring: Viton.
Threads according to ISO 7/1 (R-Rp).



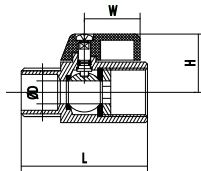
Ø	D mm.	L mm.	H mm.	W mm.		CODE
1/4"	7,0	42	25,0	22,8	160 1	IVBHH061
3/8"	7,0	42	25,0	22,8	160 1	IVBHH062
1/2"	9,2	47	28,3	22,8	80 1	IVBHH063



MINI BALL VALVE M/F



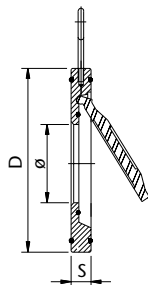
Made of CF8M (AISI 316).
Aluminium handle.
Ball in CF8M.
O-ring: Viton.
Threads according to ISO 7/1 (R-Rp).



Ø	D mm.	L mm.	H mm.	W mm.		CODE
1/4"	7,0	42	25,0	22,8	160 1	IVBMH061
3/8"	7,0	42	25,0	22,8	160 1	IVBMH062
1/2"	9,2	47	28,3	22,8	80 1	IVBMH063



WAFER SWING CHECK VALVE



DN	S mm.	D mm.	Ø mm.	CODE
40	14	94	22	VF540040
50	14	107	32	VF540050
65	14	127	40	VF540065
80	14	142	54	VF540080
100	18	162	70	VF540100
125	18	192	92	VF540125
150	20	218	114	VF540150
200	22	273	154	VF540200
250	26	329	200	VF540250
300	28	384	235	VF540300

TECHNICAL FEATURES

Working pressure: PN 16.
Working temperature: -10° C to 150° C.
Suitable for flanges DIN 2501 (EN 1092-2 PN 16).

COMPONENTS

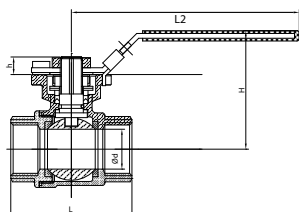
Body: Stainless Steel AISI 316
Disc: Stainless Steel AISI 316
Seat body O-ring: Viton
Seat disc O-ring: Viton
Eye screw: Stainless Steel AISI 316



2-PC BALL VALVE WITH FULL BORE – THREADED



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threaded ends according to ISO 7/1 (R-Rp).
Working Temperature from -20 °C to 180 °C.
Working pressure 1000 WOG/PN 63.
Locking system.
Direct mounting for actuators ISO 5211.



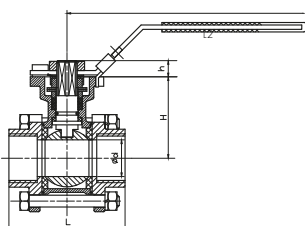
Ø	d mm.	L mm.	L2 mm.	H mm.	h mm.		CODE	
1/4"	9,0	48,0	120,5	37,0	9	60	1	IVB2P061
3/8"	12,5	48,0	120,5	39,0	9	60	1	IVB2P062
1/2"	15,0	56,0	120,5	39,0	9	45	1	IVB2P063
3/4"	20,0	64,0	120,5	41,5	9	25	1	IVB2P064
1"	25,0	76,0	140,0	47,0	11	16	1	IVB2P065
1 1/4"	32,0	86,5	140,0	52,0	11	10	1	IVB2P066
1 1/2"	38,0	97,5	170,0	62,0	14	6	1	IVB2P067
2"	50,0	117,5	170,0	71,0	14	4	1	IVB2P068



3-PC BALL VALVE WITH FULL BORE – THREADED



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Threaded ends according to ISO 7/1 (R-Rp).
Working Temperature from -20 °C to 180 °C.
Working pressure:
1000 WOG/PN 63 from 1/2" to 1 1/2".
600 WOG/PN 40 from 2" to 4".
Locking system.
Direct mounting for actuators ISO 5211.



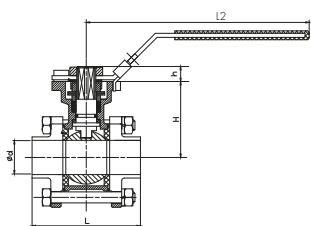
Ø	d mm.	L mm.	L2 mm.	H mm.	h mm.		CODE	
1/2"	15	61	120,5	39,0	9	30	1	IVB3P063
3/4"	20	69	120,5	41,5	9	16	1	IVB3P064
1"	25	79	140,0	47,0	11	11	1	IVB3P065
1 1/4"	32	96	140,0	52,0	11	6	1	IVB3P066
1 1/2"	38	102	170,0	62,0	14	4	1	IVB3P067
2"	50	124	170,0	71,0	14	2	1	IVB3P068
2 1/2"	65	158	230,0	89,0	18	2	1	IVB3P069
3"	76	179	230,0	98,0	18	1	1	IVB3P06A
4"	94	220	300,0	129,0	22	1	1	IVB3P06C



3-PC BALL VALVE WITH FULL BORE – BUTT WELD



Made of CF8M (AISI 316).
Stem in AISI 316.
Handle in AISI 304 covered in blue PVC.
Ball Seat PTFE + 15 % GF.
Working Temperature from -20 °C to 180 °C.
Working pressure:
1000 WOG/PN 63 from 1/2" to 1 1/2".
600 WOG/PN 40 from 2" to 4".
Locking system.
Direct mounting for actuators ISO 5211.
Welding ends according to Butt Weld ANSI B 16.25.



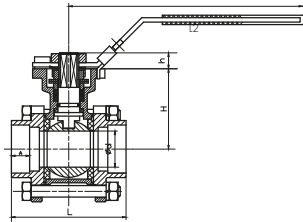
Ø	d mm.	L mm.	L2 mm.	H mm.	h mm.		CODE	
1/2"	15	61	120,5	39,0	9	30	1	IVB3PB63
3/4"	20	69	120,5	41,5	9	16	1	IVB3PB64
1"	25	79	140,0	47,0	11	11	1	IVB3PB65
1 1/4"	32	96	140,0	52,0	11	6	1	IVB3PB66
1 1/2"	38	102	170,0	62,0	14	4	1	IVB3PB67
2"	50	124	170,0	71,0	14	2	1	IVB3PB68
2 1/2"	65	158	230,0	89,0	18	2	1	IVB3PB69
3"	76	179	230,0	98,0	18	1	1	IVB3PB6A
4"	94	220	300,0	129,0	22	1	1	IVB3PB6C



3-PC BALL VALVE WITH FULL BORE – SOCKET WELD



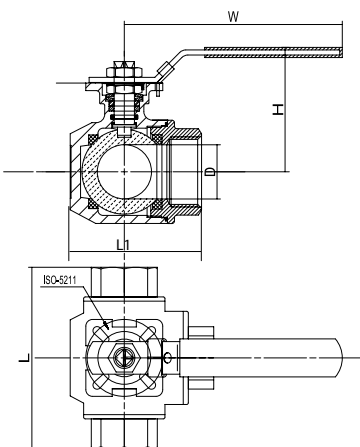
Made of CF8M (AISI 316).
 Stem in AISI 316.
 Handle in AISI 304 covered in blue PVC.
 Ball Seat PTFE + 15 % GF.
 Working Temperature from
 -20 °C to 180 °C.
 Working pressure:
 1000 WOG/PN 63 from 1/2" to 1 1/2".
 600 WOG/PN 40 from 2" to 4".
 Locking system.
 Direct mounting for actuators ISO 5211.
 Welding ends according to Socket Weld ANSI B 16.11.



Ø	d mm.	L mm.	L2 mm.	H mm.	h mm.		CODE
1/2"	15	61	120,5	39,0	9	30 1	IVB3PS63
3/4"	20	69	120,5	41,5	9	16 1	IVB3PS64
1"	25	79	140,0	47,0	11	11 1	IVB3PS65
1 1/4"	32	96	140,0	52,0	11	6 1	IVB3PS66
1 1/2"	38	102	170,0	62,0	14	4 1	IVB3PS67
2"	50	124	170,0	71,0	14	2 1	IVB3PS68
2 1/2"	65	158	230,0	89,0	18	2 1	IVB3PS69
3"	76	179	230,0	98,0	18	1 1	IVB3PS6A
4"	94	220	300,0	129,0	22	1 1	IVB3PS6C



THREE WAYS BALL VALVE - "T" AND "L" TYPES



Ø	DN	L1 ±2 mm.	Ø D mm.	H mm.	W mm.	ISO 5211		CODE TYPE "T"	CODE TYPE "L"
1/4"	8	64	9,0	76	143	F04/03	15 1	IVBT0061	IVBL0061
3/8"	10	64	11,0	76	143	F04/03	15 1	IVBT0062	IVBL0062
1/2"	15	64	12,5	76	143	F04/03	13 1	IVBT0063	IVBL0063
3/4"	20	68	16,0	80	143	F04/03	7 1	IVBT0064	IVBL0064
1"	25	82	20,0	95	163	F05/04	5 1	IVBT0065	IVBL0065
1 1/4"	32	90	25,0	98	163	F05/04	4 1	IVBT0066	IVBL0066
1 1/2"	40	107	32,0	110	188	F07/05	3 1	IVBT0067	IVBL0067
2"	50	124	38,0	119	188	F07/05	2 1	IVBT0068	IVBL0068

TECHNICAL FEATURES

Working Pressure 1000 WOG / PN 63.
 Working Temperature from -20° C to 180° C.
 Direct mounting for actuators ISO 5211.
 Threads according to ISO 7/1 (R-Rp).

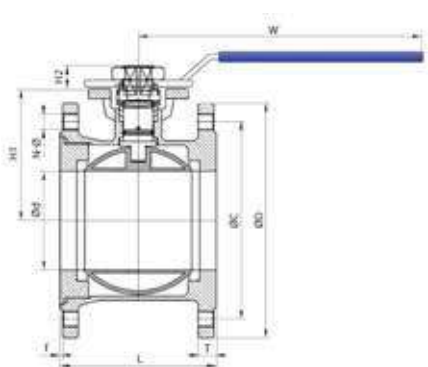
COMPONENTS

Body: Made of CF8M (AISI 316).
Gasket: PTFE + 15 % GF.
O-ring: Viton.
Stem: AISI 316.
 Handle in AISI 304 covered in blue PVC.
Ball: AISI 316

1-PC FLANGED BALL VALVE



Ø	DN	L mm.	Ø d mm.	Ø C mm.	Ø D mm.	W mm.	H1 mm.	H2 mm.	f mm.	T mm.	ISO 5211		CODE
1/2"	15	39	15	65	95	120,5	48,5	9	2	9	F03/F04	1	IVB1P015
3/4"	20	44	20	75	105	120,5	53,5	9	2	9	F03/F04	1	IVB1P020
1"	25	50	25	85	115	140,0	60,0	11	2	12	F04/F05	1	IVB1P025
1 1/4"	32	54	32	100	140	140,0	72,0	11	3	16	F04/F05	1	IVB1P032
1 1/2"	40	62	38	110	150	170,0	83,5	14	3	16	F05/F07	1	IVB1P040
2"	50	75	50	125	165	170,0	86,0	14	3	18	F05/F07	1	IVB1P050
2 1/2"	65	90	65	145	185	230,0	106,0	17	3	18	F07/F10	1	IVB1P065
3"	80	110	76	160	200	230,0	115,0	17	3	20	F07/F10	1	IVB1P080
4"	100	140	94	180	220	320,0	140,8	22	3	20	F07/F10	1	IVB1P100



TECHNICAL FEATURES

Working Pressure: PN 16,
Working Temperature from -10° C to 150° C.
Flanges according to UNE-EN 1092-1.
Handle in AISI 304 covered in blue PVC.
Direct mounting for actuators ISO 5211.
Unit pressure test according to UNE-EN 12266-1.

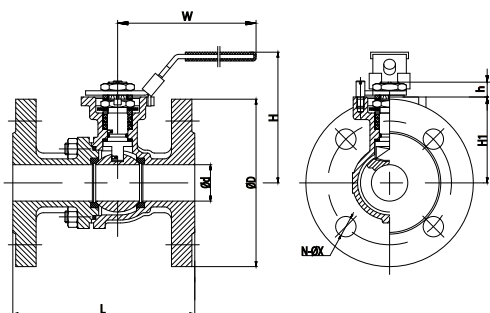
COMPONENTS

Body: AISI 316
Gasket: PTFE+15%GF
O-ring: Viton
Stem: AISI 316
Handle: AISI 304 covered in blue PVC
Ball: AISI 316

2-PC FLANGED BALL VALVE



Ø	DN	L mm.	Ø d mm.	Ø D mm.	H mm.	W mm.	ISO 5211		CODE
1/2"	15	115	15	95	76	110	F03-F04	1	IVB20015
3/4"	20	120	20	105	81	110	F03-F04	1	IVB20020
1"	25	125	25	115	90	140	F04-F05	1	IVB20025
1 1/4"	32	130	32	140	102	140	F04-F05	1	IVB20032
1 1/2"	40	140	38	150	114	185	F05-F07	1	IVB20040
2"	50	150	50	165	122	185	F05-F07	1	IVB20050
2 1/2"	65	170	65	185	168	305	F07-F10	1	IVB20B65
3"	80	180	78	200	178	305	F07-F10	1	IVB20080
4"	100	190	100	220	198	305	F07-F10	1	IVB20100
5"	125	325	125	250	234	500	F10-F12	1	IVB20125
6"	150	350	150	285	250	645	F10-F12	1	IVB20150
8"	200	400	200	340	288	845	F12-F14	1	IVB20200



TECHNICAL FEATURES

Working Pressure from DN 15 to DN 40 PN 40, from DN 50 to DN 150 PN16.
Working Temperature from -30° C to 180° C.
Flanges DIN 2635 from DN 15 to DN 40 DIN 2633, from DN 50 to DN 150.
Length face to face according to DIN 3202-F4.
Fire Safe API 607.
Anti-static device.
Direct mounting for actuators ISO 5211.
ATEX Certificate according to 2014/34/EU Directive.

COMPONENTS

Body: AISI 316.
Gasket: PTFE+15%GF.
O-Ring: Viton.
Stem: AISI 316.
Handle: A 276 201 covered in blue PVC.
Ball: AISI 316.

PN 63 CHECK VALVE



Ø	Ø d mm.	Ø D mm.	C mm.	L mm.	CODE
1/4"	10,5	30,0	12	54	IV130601
3/8"	13,0	30,0	12	54	IV130602
1/2"	15,0	34,5	14	57	IV130603
3/4"	20,0	41,5	15	64	IV130604
1"	25,0	48,6	18	80	IV130605
1 1/4"	32,0	60,5	17	82	IV130606
1 1/2"	40,0	71,0	18	93	IV130607
2"	50,0	87,0	17	100	IV130608

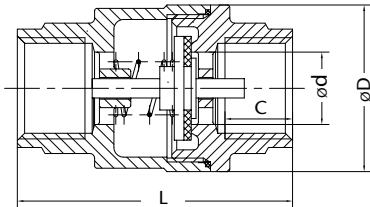
TECHNICAL FEATURES

Threads according to ISO 7/1 (R-Rp).

Working Temperature from -20° C to 150° C.

Working Pressure PN 63.

All positions (respect the flow direction indicated by the arrow).



COMPONENTS

Body: CF8M (AISI 316).

Spring: AISI 316.

Disc: CF8M (AISI 316).

Disc Gasket: Viton.

Cap: CF8M (AISI 316).

Seat: PTFE.

PN 63 DISK CHECK VALVE "WAFER TYPE"



Ø	DN	Ø D mm.	F mm.	Ø D1 mm.	L1	L mm.	CODE
1/2"	15	53	46	43	4	16,5	IV566015
3/4"	20	63	55	53	5	19,5	IV566020
1"	25	73	65	63	4	22,0	IV566025
1 1/4"	32	84	78	75	6	28,0	IV566032
1 1/2"	40	94	88	86	6	32,0	IV566040
2"	50	107	98	94	7	40,0	IV566050
2 1/2"	65	126	118	115	7	46,0	IV566065
3"	80	144	134	130	8	50,0	IV566080
4"	100	164	154	152	9	60,0	IV566100
5"	125	190				82,0	IV566125
6"	150	217				102,0	IV566150

TECHNICAL FEATURES

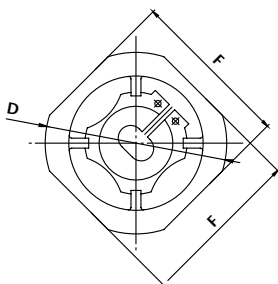
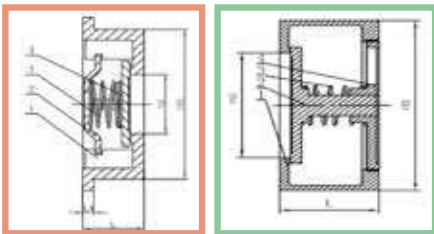
Working Pressure PN 63.

Working Temperature from -20° C to 425° C .

Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air, etc.

All positions (respect the flow direction indicated by the arrow).

Face to face according to EN 558 SERIESs 49 (except DN 125 and DN 150).



COMPONENTS

Body: CF8M (AISI 316).

Spring support: AISI 316.

Spring: AISI 316.



Disc: CF8M (AISI 316).

BUTT WELDING FITTINGS - ISO STANDARD



90° WELDED ELBOW



Ø	Ø mm	DN	AISI 304L			AISI 316L		
			THICK. 2 mm CODE		THICK. 3 mm CODE	THICK. 2 mm CODE		THICK. 3 mm CODE
1/2"	21,3	15	IC934203			IC936203		
3/4"	26,9	20	IC934204			IC936204		
1"	33,7	25	IC934205		IC934305	IC936205		IC936305
1 1/4"	42,4	32	IC934206		IC934306	IC936206		IC936306
1 1/2"	48,3	40	IC934207		IC934307	IC936207		IC936307
2"	60,3	50	IC934208		IC934308	IC936208		IC936308
2 1/2"	76,1	65	IC934209		IC934309	IC936209		IC936309
3"	88,9	80	IC93420A		IC93430A	IC93620A		IC93630A
4"	114,3	100	IC93420C		IC93430C	IC93620C		IC93630C
5"	139,7	125	IC93420D		IC93430D	IC93620D		IC93630D
6"	168,3	150	IC93420E		IC93430E	IC93620E		IC93630E
8"	219,1	200	IC93420F		IC93430F	IC93620F		IC93630F
10"	273,0	250	IC93420G			IC93620G		
12"	323,9	300	IC93420H			IC93620H		

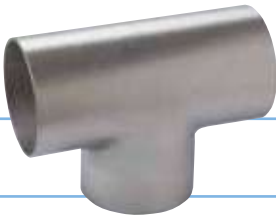





LAP JOINT

Ø	Ø mm	DN	AISI 304L		AISI 316L	
			THICK. 2 mm CODE		THICK. 2 mm CODE	
1/2"	21,3	15	ICT04203		ICT06203	
3/4"	26,9	20	ICT04204		ICT06204	
1"	33,7	25	ICT04205		ICT06205	
1 1/4"	42,4	32	ICT04206		ICT06206	
1 1/2"	48,3	40	ICT04207		ICT06207	
2"	60,3	50	ICT04208		ICT06208	
2 1/2"	76,1	65	ICT04209		ICT06209	
3"	88,9	80	ICT0420A		ICT0620A	
4"	114,3	100	ICT0420C		ICT0620C	
5"	139,7	125	ICT0420D		ICT0620D	
6"	168,3	150	ICT0420E		ICT0620E	
8"	219,1	200	ICT0420F		ICT0620F	
10"	273,0	250	ICT0420G		ICT0620G	
12"	323,9	300	ICT0420H		ICT0620H	



TEE

Ø	Ø mm	DN	AISI 304L		AISI 316L	
			THICK. 2 mm CODE		THICK. 2 mm CODE	
1/2"	21,3	15	IT104203		IT106203	
3/4"	26,9	20	IT104204		IT106204	
1"	33,7	25	IT104205		IT106205	
1 1/4"	42,4	32	IT104206		IT106206	
1 1/2"	48,3	40	IT104207		IT106207	
2"	60,3	50	IT104208		IT106208	
2 1/2"	76,1	65	IT104209		IT106209	
3"	88,9	80	IT10420A		IT10620A	
4"	114,3	100	IT10420C		IT10620C	
5"	139,7	125	IT10420D		IT10620D	
6"	168,3	150	IT10420E		IT10620E	
8"	219,1	200	IT10420F		IT10620F	
10"	273,0	250	IT10420G		IT10620G	
12"	323,9	300	IT10420H		IT10620H	



CAP

Ø	Ø mm	DN	AISI 304L		AISI 316L	
			THICK. 2 mm CODE		THICK. 2 mm CODE	
1/2"	21,3	15	ICA04203		ICA06203	
3/4"	26,9	20	ICA04204		ICA06204	
1"	33,7	25	ICA04205		ICA06205	
1 1/4"	42,4	32	ICA04206		ICA06206	
1 1/2"	48,3	40	ICA04207		ICA06207	
2"	60,3	50	ICA04208		ICA06208	
2 1/2"	76,1	65	ICA04209		ICA06209	
3"	88,9	80	ICA0420A		ICA0620A	
4"	114,3	100	ICA0420C		ICA0620C	
5"	139,7	125	ICA0420D		ICA0620D	
6"	168,3	150	ICA0420E		ICA0620E	
8"	219,1	200	ICA0420F		ICA0620F	
10"	273,0	250	ICA0420G		ICA0620G	
12"	323,9	300	ICA0420H		ICA0620H	



CONCENTRIC REDUCER

Ø	Ø mm.	DN	HEIGHT mm.	AISI 304L		AISI 316L	
				CODE		CODE	
3/4" x 1/2"	26,9 x 21,3	20 x 15	38	IRC04243		IRC06243	
1" x 1/2"	33,7 x 21,3	25 x 15	51	IRC04253		IRC06253	
1" x 3/4"	33,7 x 26,9	25 x 20	51	IRC04254		IRC06254	
1 1/4" x 1"	42,4 x 33,7	32 x 25	51	IRC04265		IRC06265	
1 1/2" x 1/2"	48,3 x 21,3	40 x 15	64	IRC04273		IRC06273	
1 1/2" x 1"	48,3 x 33,7	40 x 25	64	IRC04275		IRC06275	
1 1/2" x 1 1/4"	48,3 x 42,4	40 x 32	64	IRC04276		IRC06276	
2" x 1/2"	60,3 x 21,3	50 x 15	76	IRC04283		IRC06283	
2" x 3/4"	60,3 x 26,9	50 x 20	76	IRC04284		IRC06284	
2" x 1"	60,3 x 33,7	50 x 25	76	IRC04285		IRC06285	
2" x 1 1/4"	60,3 x 42,4	50 x 32	76	IRC04286		IRC06286	
2" x 1 1/2"	60,3 x 48,3	50 x 40	76	IRC04287		IRC06287	
2 1/2" x 1 1/2"	76,1 x 48,3	65 x 40	89	IRC04297		IRC06297	
2 1/2" x 2"	76,1 x 60,3	65 x 50	89	IRC04298		IRC06298	
3" x 1"	88,9 x 33,7	80 x 25	89	IRC042A5		IRC062A5	
3" x 1 1/2"	88,9 x 48,3	80 x 40	89	IRC042A7		IRC062A7	
3" x 2"	88,9 x 60,3	80 x 50	89	IRC042A8		IRC062A8	
3" x 2 1/2"	88,9 x 76,1	80 x 65	89	IRC042A9		IRC062A9	
4" x 1 1/2"	114,3 x 48,3	100 x 40	102	IRC042C7		IRC062C7	
4" x 2"	114,3 x 60,3	100 x 50	102	IRC042C8		IRC062C8	
4" x 2 1/2"	114,3 x 76,1	100 x 65	102	IRC042C9		IRC062C9	
4" x 3"	114,3 x 88,9	100 x 80	102	IRC042CA		IRC062CA	
5" x 3"	139,7 x 88,9	125 x 80	127	IRC042DA		IRC062DA	
5" x 4"	139,7 x 114,3	125 x 100	127	IRC042DC		IRC062DC	
6" x 4"	168,3 x 114,3	150 x 100	140	IRC042EC		IRC062EC	
6" x 5"	168,3 x 139,7	150 x 125	140	IRC042ED		IRC062ED	
8" x 3"	219,1 x 88,9	200 x 80	152			IRC062FA	
8" x 4"	219,1 x 114,3	200 x 100	152	IRC042FC		IRC062FC	
8" x 5"	219,1 x 139,7	200 x 125	152	IRC042FD		IRC062FD	
8" x 6"	219,1 x 168,3	200 x 150	152	IRC042FE		IRC062FE	
10" x 6"	273,0 x 168,3	250 x 150	178	IRC042GE		IRC062GE	
10" x 8"	273,0 x 219,1	250 x 200	178	IRC042GF		IRC062GF	
12" x 8"	323,9 x 219,1	300 x 200	203	IRC042HF		IRC062HF	
12" x 10"	323,9 x 273,0	300 x 250	203	IRC042HG		IRC062HG	



BUTT WELDING FITTINGS - MILIMETRIC


90° WELDED ELBOW


Ø	Ø mm.	DN	R mm.	THICK. mm.	AISI 304L		AISI 316L	
					CODE		CODE	
1/2"	18,0	15	25,0	1,5	IC341018		IC361018	
1/2"	20,0	15	30,0	1,5	IC341020		IC361020	
3/4"	23,0	20	35,0	1,5	IC341023			
3/4"	25,0	20	37,0	1,5	IC341025		IC361025	
3/4"	28,0	20	40,0	1,5	IC341028		IC361028	
3/4"	30,0	20	45,0	1,5	IC341030		IC361030	
1"	33,0	25	50,0	1,5	IC341033		IC361033	
1 1/4"	35,0	32	52,5	1,5	IC341035			
1 1/4"	38,0	32	55,0	1,5	IC341038			
1 1/2"	40,0	40	60,0	1,5	IC341040		IC361040	
1 1/2"	43,0	40	65,0	1,5	IC341043		IC361043	
2"	50,8	50	76,0	1,5	IC341051		IC361050	
2"	53,0	50	80,0	1,5	IC341053		IC361053	
2"	63,5	50	95,0	1,5	IC341063		IC361063	
2"	54,0	50	80,0	2,0	IC342054			
2"	57,0	50	85,5	2,0	IC342057			
2 1/2"	70,0	65	92,0	2,0	IC342070		IC362070	
2 1/2"	73,0	65	110,0	1,5	IC341073		IC361073	
2 1/2"	76,0	65	115,0	1,5	IC341076		IC361076	
3"	84,0	80	125,0	2,0	IC342084		IC362084	
4"	104,0	100	155,0	2,0	IC342104		IC362104	
5"	129,0	125	190,0	2,0	IC342129		IC362129	
6"	154,0	150	225,0	2,0	IC342154		IC362154	
8"	204,0	200	300,0	2,0	IC342204		IC362204	
10"	254,0	250	380,0	2,0	IC342254			



TEE

Ø mm.	DN	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
25,0	20	1,5	ITM41025		ITM61025	
28,0	20	1,5	ITM41028		ITM61028	
33,0	25	1,5	ITM41033		ITM61033	
43,0	40	1,5	ITM41043		ITM61043	
50,8	50	1,5	ITM41050		ITM61050	
53,0	50	1,5	ITM41053		ITM61053	
63,5	50	1,5	ITM41063		ITM61063	
73,0	65	1,5	ITM41073		ITM61073	
84,0	80	2,0	ITM42084		ITM62084	
104,0	100	2,0	ITM42104		ITM62104	
129,0	125	2,0	ITM42129		ITM62129	
154,0	150	2,0	ITM42154		ITM62154	
204,0	200	2,0	ITM42204		ITM62204	
254,0	250	2,0	ITM42254		ITM62254	
304,0	300	2,0			ITM62304	
354,0	300	2,0			ITM62354	









CAP

Ø mm.	DN	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
25,0	20	1,5	ICAM4025		ICAM6025	
28,0	20	1,5	ICAM4028		ICAM6028	
33,0	25	1,5	ICAM4033		ICAM6033	
43,0	40	1,5	ICAM4043		ICAM6043	
50,8	50	1,5	ICAM4050		ICAM6050	
53,0	50	1,5	ICAM4053		ICAM6053	
63,5	50	1,5	ICAM4063		ICAM6063	
70,0	65	2,0	ICAM4070		ICAM6070	
73,0	65	1,5	ICAM4073		ICAM6073	
84,0	80	2,0	ICAM4084		ICAM6084	
104,0	100	2,0	ICAM4104		ICAM6104	
129,0	125	2,0	ICAM4129		ICAM6129	
154,0	150	2,0	ICAM4154		ICAM6154	
204,0	200	2,0	ICAM4204		ICAM6204	
254,0	250	2,0	ICAM4254		ICAM6254	
304,0	300	2,0	ICAM4304		ICAM6304	
354,0	300	2,0	ICAM4354		ICAM6354	







LAP JOINT

Ø	DN	THICK.mm.	AISI 304L		AISI 316L	
			CODE		CODE	
25,0	20	1,5	ICM41025		ICM61025	
28,0	20	1,5	ICM41028		ICM61028	
33,0	25	1,5	ICM41033		ICM61033	
43,0	40	1,5	ICM41043		ICM61043	
50,8	50	1,5	ICM41050		ICM61050	
53,0	50	1,5	ICM41053		ICM61053	
63,5	50	1,5	ICM41063		ICM61063	
70,0	65	2,0	ICM42070		ICM62070	
73,0	65	1,5	ICM41073		ICM61073	
84,0	80	2,0	ICM42084		ICM62084	
104,0	100	2,0	ICM42104		ICM62104	
129,0	125	2,0	ICM42129		ICM62129	
154,0	150	2,0	ICM42154		ICM62154	
204,0	200	2,0	ICM42204		ICM62204	
254,0	250	2,0	ICM42254		ICM62254	
304,0	300	2,0	ICM42304		ICM62304	
354,0	300	2,0	ICM42354		ICM62354	



CONCENTRIC REDUCER

Ø mm.	DN	THICK.mm.	AISI 304L		AISI 316L	
			CODE		CODE	
53,0 x 43,0	50 x 40	1,5	IRM45343		IRM65343	
63,5 x 43,0	50 x 40	1,5	IRM46343		IRM66343	
63,5 x 53,0	50 x 50	1,5	IRM46353		IRM66353	
73,0 x 43,0	65 x 40	2,0	IRM47343		IRM67343	
73,0 x 53,0	65 x 50	2,0	IRM47353		IRM67353	
73,0 x 63,5	65 x 50	2,0	IRM47363		IRM67363	
84,0 x 43,0	80 x 40	2,0	IRM48443		IRM68443	
84,0 x 53,0	80 x 50	2,0	IRM48453		IRM68453	
84,0 x 63,5	80 x 50	2,0	IRM48463		IRM68463	
84,0 x 73,0	80 x 65	2,0	IRM48473		IRM68473	
104,0 x 43,0	100 x 40	2,0	IRM41043		IRM61043	
104,0 x 53,0	100 x 50	2,0	IRM41053		IRM61053	
104,0 x 63,5	100 x 50	2,0	IRM41063		IRM61063	
104,0 x 73,0	100 x 65	2,0	IRM41073		IRM61073	
104,0 x 84,0	100 x 80	2,0	IRM41084		IRM61084	
129,0 x 73,0	125 x 65	2,0	IRM41273		IRM61273	
129,0 x 84,0	125 x 80	2,0	IRM41284		IRM61284	
129,0 x 104,0	125 x 100	2,0	IRM41210		IRM61210	
154,0 x 73,0	150 x 65	2,0	IRM41573		IRM61573	
154,0 x 84,0	150 x 80	2,0	IRM41584		IRM61584	
154,0 x 104,0	150 x 100	2,0	IRM41510		IRM61510	
154,0 x 129,0	150 x 125	2,0	IRM41512		IRM61512	
204,0 x 104,0	200 x 100	2,0	IRM42010		IRM62010	
204,0 x 129,0	200 x 125	2,0	IRM42012		IRM62012	
204,0 x 154,0	200 x 150	2,0	IRM42015		IRM62015	





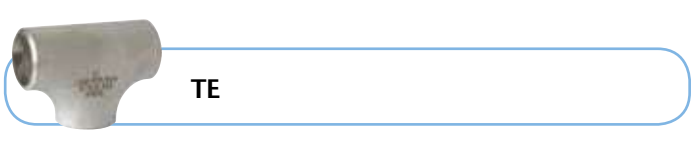
WELDING FITTINGS-ASTM STANDARDS - SCH 10S

PRODUCED FROM WELDED TUBE





Ø	Ø EXT mm.	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
1/2"	21,3	2,11	I1CL940M		I1CL960M	
3/4"	26,7	2,11	I1CL940T		I1CL960T	
1"	33,4	2,77	I1CL9401		I1CL9601	
1 1/4"	42,2	2,77	I1CL941C		I1CL961C	
1 1/2"	48,3	2,77	I1CL941M		I1CL961M	
2"	60,3	2,77	I1CL9402		I1CL9602	
2 1/2"	73,0	3,05	I1CL942M		I1CL962M	
3"	88,9	3,05	I1CL9403		I1CL9603	
4"	114,3	3,05	I1CL9404		I1CL9604	
5"	141,3	3,40	I1CL9405		I1CL9605	
6"	168,3	3,40	I1CL9406		I1CL9606	
8"	219,1	3,76	I1CL9408		I1CL9608	
10"	273,0	4,19	I1CL9410		I1CL9610	





Ø	Ø EXT mm.	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
1/2"	21,3	2,11	I1T4000M		I1T6000M	
3/4"	26,7	2,11	I1T4000T		I1T6000T	
1"	33,4	2,77	I1T40001		I1T60001	
1 1/4"	42,2	2,77	I1T4001C		I1T6001C	
1 1/2"	48,3	2,77	I1T4001M		I1T6001M	
2"	60,3	2,77	I1T40002		I1T60002	
2 1/2"	73,0	3,05	I1T4002M		I1T6002M	
3"	88,9	3,05	I1T40003		I1T60003	
4"	114,3	3,05	I1T40004		I1T60004	
5"	141,3	3,40	I1T40005		I1T60005	
6"	168,3	3,40	I1T40006		I1T60006	
8"	219,1	3,76	I1T40008		I1T60008	





Ø	Ø EXT mm.	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
1/2"	21,3	2,11	I1CC400M		I1CC600M	
3/4"	26,7	2,11	I1CC400T		I1CC600T	
1"	33,4	2,77	I1CC4001		I1CC6001	
1 1/4"	42,2	2,77	I1CC401C		I1CC601C	
1 1/2"	48,3	2,77	I1CC401M		I1CC601M	
2"	60,3	2,77	I1CC4002		I1CC6002	
2 1/2"	73,0	3,05	I1CC402M		I1CC602M	
3"	88,9	3,05	I1CC4003		I1CC6003	
4"	114,3	3,05	I1CC4004		I1CC6004	
5"	141,3	3,40	I1CC4005		I1CC6005	
6"	168,3	3,40	I1CC4006		I1CC6006	
8"	219,1	3,76	I1CC4008		I1CC6008	
10"	273,0	4,19	I1CC4010		I1CC6010	



Ø	Ø EXT mm.	THICK. mm.	AISI 304L		AISI 316L	
			CODE		CODE	
1/2"	21,3	2,11	I1SE400M		I1SE600M	
3/4"	26,7	2,11	I1SE400T		I1SE600T	
1"	33,4	2,77	I1SE4001		I1SE6001	
1 1/4"	42,2	2,77	I1SE401C		I1SE601C	
1 1/2"	48,3	2,77	I1SE401M		I1SE601M	
2"	60,3	2,77	I1SE4002		I1SE6002	
2 1/2"	73,0	3,05	I1SE402M		I1SE602M	
3"	88,9	3,05	I1SE4003		I1SE6003	
4"	114,3	3,05	I1SE4004		I1SE6004	
5"	141,3	3,40	I1SE4005		I1SE6005	
6"	168,3	3,40	I1SE4006		I1SE6006	
8"	219,1	3,76	I1SE4008		I1SE6008	
10"	273,0	4,19	I1SE4010		I1SE6010	


CONCENTRIC REDUCER

Ø	Ø EXT mm.	AISI 304L		AISI 316L	
		CODE		CODE	
3/4" x 1/2"	26,7 x 21,3	I1R40T0M		I1R60T0M	
1" x 1/2"	33,4 x 21,3	I1R4010M		I1R6010M	
1" x 3/4"	33,4 x 26,7	I1R4010T		I1R6010T	
1 1/4" x 3/4"	42,2 x 26,7	I1R41C0T		I1R61C0T	
1 1/4" x 1"	42,2 x 33,4	I1R41C01		I1R61C01	
1 1/2" x 3/4"	48,3 x 26,7	I1R41M0T		I1R61M0T	
1 1/2" x 1"	48,3 x 33,4	I1R41M01		I1R61M01	
1 1/2" x 1 1/4"	48,3 x 42,2	I1R41M1C		I1R61M1C	
2" x 1"	60,3 x 33,4	I1R40201		I1R60201	
2" x 1 1/4"	60,3 x 42,2	I1R4021C		I1R6021C	
2" x 1 1/2"	60,3 x 48,3	I1R4021M		I1R6021M	
2 1/2" x 1 1/2"	73,0 x 48,3	I1R42M1M		I1R62M1M	
2 1/2" x 2"	73,0 x 60,3	I1R42M02		I1R62M02	
3" x 1 1/2"	88,9 x 48,3	I1R4031M		I1R6031M	
3" x 2"	88,9 x 60,3	I1R40302		I1R60302	
3" x 2 1/2"	88,9 x 73,0	I1R4032M		I1R6032M	
4" x 2"	114,3 x 60,3	I1R40402		I1R60402	
4" x 2 1/2"	114,3 x 73,0	I1R4042M		I1R6042M	
4" x 3"	114,3 x 88,9	I1R40403		I1R60403	
5" x 3"	141,3 x 88,9	I1R40503		I1R60503	
5" x 4"	141,3 x 114,3	I1R40504		I1R60504	
6" x 3"	168,3 x 88,9	I1R40603		I1R60603	
6" x 4"	168,3 x 114,3	I1R40604		I1R60604	
6" x 5"	168,3 x 141,3	I1R40605		I1R60605	
8" x 6"	219,1 x 168,3	I1R40806		I1R60806	
10" x 6"	273,0 x 168,3	I1R41006		I1R61006	



WELDING FITTINGS-ASTM STANDARDS - SCH 40S PRODUCED FROM WELDED TUBE

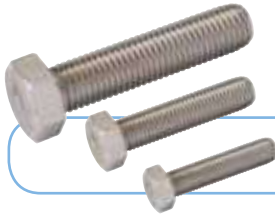


90° LONG RADIUS ELBOW



Ø	Ø EXT mm.	THICKNESS	AISI 316L	
			CODE	
1/2"	21,3	2,77	I4CL960M	
3/4"	26,7	2,87	I4CL960T	
1"	33,4	3,38	I4CL9601	
1 1/4"	42,2	3,56	I4CL961C	
1 1/2"	48,3	3,68	I4CL961M	
2"	60,3	3,91	I4CL9602	
2 1/2"	73,0	5,16	I4CL962M	
3"	88,9	5,46	I4CL9603	
4"	114,3	6,02	I4CL9604	
5"	141,3	6,55	I4CL9605	
6"	168,3	7,11	I4CL9606	
8"	219,1	8,18	I4CL9608	
10"	273,0	9,27	I4CL9610	

FASTENERS - INOX A2



DIN 933 HEXAGONAL HEAD BOLT



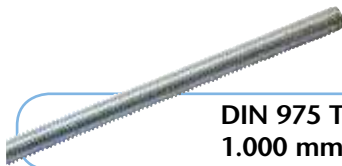
SIZE	LENGTH		CODE
M12	50	300 50	TI331250
M12	60	300 50	TI331260
M14	60	200 50	TI331460
M14	70	150 50	TI331470
M14	80	150 50	TI331480
M16	40	200 25	TI331640
M16	50	150 25	TI331650
M16	60	150 25	TI331660
M16	70	150 25	TI331670
M16	80	100 25	TI331680
M16	90	100 25	TI331690
M16	100	100 25	TI331610
M16	110	100 25	TI331611
M16	120	75 25	TI331612
M20	70	75 25	TI332070
M20	80	75 25	TI332080
M20	90	50 25	TI332090
M20	100	50 25	TI332010
M20	110	50 25	TI332011
M20	120	50 25	TI332012
M24	90	40 20	TI332490
M27	120	20 10	TI332712
M30	130	20 10	TI333013
M33	140	15 5	TI333314



DIN 934 NUT HEXAGONAL



SIZE		CODE
M6	7.200 150	TI934006
M8	3.750 125	TI934008
M10	1.600 100	TI934010
M12	1.200 100	TI934012
M14	800 50	TI934014
M16	600 50	TI934016
M18	400 25	TI934018
M20	300 25	TI934020
M24	160 10	TI934024
M27	100 10	TI934027
M30	80 10	TI934030
M33	50 5	TI934033



DIN 975 THREADED ROD – 1.000 mm.



SIZE		CODE
M6	50	TI975006
M8	25	TI975008
M10	25	TI975010
M12	20	TI975012
M14	15	TI975014
M16	10	TI975016
M18	5	TI975018
M20	5	TI975020



DIN 125 FLAT WASHER




SIZE		CODE
M6	7.200 150	TI125006
M8	6.000 125	TI125008
M10	4.800 100	TI125010
M12	3.000 100	TI125012
M14	2.100 70	TI125014
M16	1.680 70	TI125016
M18	1.200 50	TI125018
M20	1.200 50	TI125020
M24	600 50	TI125024
M27	400 50	TI125027
M30	300 50	TI125030
M33	240 30	TI125033

FIXINGS - AISI 304



M8/M10 CLAMP

2,5 mm. Band thickness.


INCHES	mm.	NUT		CODE
3/8"	16-18	M8	150 2	IRAF5102
1/2"	20-22	M8	100 2	IRAF5103
3/4"	25-28	M8	100 2	IRAF5104
1"	31-34	M8	100 2	IRAF5105
1 1/4"	39-43	M8	100 2	IRAF5106
1 1/2"	45-48.5	M8	100 2	IRAF5107
2"	58-61	M8	100 2	IRAF5108
2 1/2"	73-76.5	M10	50 2	IRAF5109
3"	86-89	M10	50 2	IRAF510A
4"	110-115	M10	50 2	IRAF510C

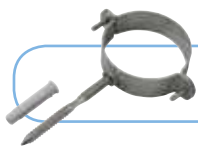


"U" BOLT




Set with 2 DIN 934 nuts and 2 DIN 125 washers. M6 and M8 assembled with washers and nuts.

Ø PIPE	INCHES	THREAD		CODE
17,1	3/8"	M6	100 10	RFABI202
21,3	1/2"	M6	100 10	RFABI203
26,9	3/4"	M6	100 10	RFABI204
33,7	1"	M6	100 10	RFABI205
38,0	-	M6	100 10	RFABI238
42,2	1 1/4"	M6	100 5	RFABI206
48,3	1 1/2"	M8	50 5	RFABI207
54,0	-	M8	50 5	RFABI254
60,3	2"	M8	50 5	RFABI208
65,0	-	M8	50 5	RFABI265
76,1	2 1/2"	M8	25 5	RFABI20A
84,0	-	M8	25 5	RFABI284
88,9	3"	M8	25 5	RFABI20B
104,0	-	M10	20 2	RFABI210
114,4	4"	M10	20 2	RFABI20D
129,0	-	M10	20 2	RFABI213
139,7	5"	M10	20 2	RFABI20E
154,0	-	M10	16 2	RFABI215
168,3	6"	M10	16 2	RFABI20F
204,0	-	M10	10 2	RFABI220
219,1	8"	M10	10 2	RFABI20H
254,0	-	M10	6 2	RFABI225
273,0	10"	M10	6 2	RFABI20N
304,0	-	M10	6 2	RFABI230




M8/M10 CLAMP WITH PLUG AND SCREW

2,5 mm. Band thickness.

INCHES	mm.	BOLT	PLUG		CODE
3/8"	16-18	M8x100	10x50	100 2	IRAF5502
1/2"	20-22	M8x100	10x50	100 2	IRAF5503
3/4"	25-28	M8x100	10x50	100 2	IRAF5504
1"	31-34	M8x100	10x50	100 2	IRAF5505
1 1/4"	39-43	M8x100	10x50	100 2	IRAF5506
1 1/2"	45-48.5	M8x100	10x50	50 2	IRAF5507
2"	58-61	M8x100	10x50	50 2	IRAF5508
2 1/2"	73-76.5	M10x120	12x60	20 2	IRAF5509
3"	86-89	M10x120	12x60	20 2	IRAF550A
4"	110-115	M10x120	12x60	20 2	IRAF550C

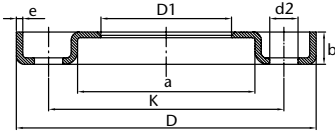


DOUBLE THREAD SCREW

THREAD	mm.		CODE
M8	90	500 10	IRAFTD08
M10	120	500 10	IRAFTD10



PRESSED FLANGE

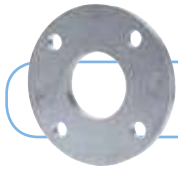


The assembly of pressed flanges is done with their corresponding lap-joints and gaskets. An appropriate tightening torque and a suitable gasket guarantees a perfect seal.

DN	Ø mm.	DIMENSION (mm.)								AISI 304L		AISI 316L	
		D1	D	K	a	e	b	d2	Nº HOLES	CODE		CODE	
15	21,3	24	95	65	38	3	11,5	13,5	4	I4642015		I6642015	
20	26,9	30	105	75	48	3	14,0	13,5	4	I4642020		I6642020	
25	33,7	37	115	85	53	3	16,0	13,5	4	I4642025		I6642025	
32	42,4	46	140	100	68	3	16,5	17,5	4	I4642032		I6642032	
40	48,3	54	150	110	77	3	17,5	17,5	4	I4642040		I6642040	
50	60,3	65	165	125	91	3	19,5	17,5	4	I4642050		I6642050	
	53,0	58	165	125	91	3	19,5	17,5	4	I4642053			
65	76,1	81	185	145	108	4	21,0	17,5	4	I4642065		I6642065	
	73,0	78	185	145	108	4	21,0	17,5	4	I4642073			
80	88,9	94	200	160	123	4	22,0	17,5	8	I4642080		I6642080	
	84,0	89	200	160	123	4	22,0	17,5	8	I4642084			
100	114,3	119	220	180	141	4	23,0	17,5	8	I4642100		I6642100	
	104,0	110	220	180	141	4	23,0	17,5	8	I4642104			
125	139,7	145	250	210	168	5	25,0	17,5	8	I4642125		I6642125	
	129,0	135	250	210	168	5	25,0	17,5	8	I4642129			
150	168,3	173	285	240	192	5	27,0	21,5	8	I4642150		I6642150	
	154,0	160	285	240	192	5	27,0	21,5	8	I4642154			
200	219,1	225	340	295	245	6	31,0	21,5	8	I4642200		I6642200	
	204,0	212	340	295	245	6	31,0	21,5	8	I4642204			
250	273,1	279	395	350	295	6	31,0	22,0	12	I4642250		I6642250	
	254,0	262	395	350	295	6	31,0	22,0	12	I4642254			
300	323,9	329	445	400	345	6	34,0	22,0	12	I4642300		I6642300	



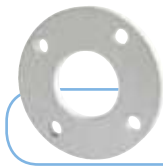
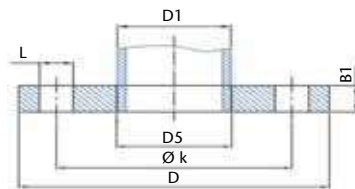
ALUMINUM FLANGES



DIN 2642 ALUMINUM FLAT FLANGE - PN 10



DN	Ø	D1	PN	DIMENSION (mm)			BOLT		B1	CODE
				D	K	D5 (ISO)	NR	L		
40	1 1/2"	48,3	10	150	110	54	4	18	16	FPA10040
50	2"	60,3	10	165	125	65	4	18	16	FPA10050
65	2 1/2"	76,1	10	185	145	81	4	18	16	FPA10065
80	3"	88,9	10	200	160	94	8	18	18	FPA10080
100	4"	114,3	10	220	180	119	8	18	18	FPA10100
125	5"	139,7	10	250	210	145	8	18	18	FPA10125
150	6"	168,3	10	285	240	173	8	22	18	FPA10150
200	8"	219,1	10	340	295	225	8	22	20	FPA10200
250	10"	273,0	10	395	350	279	12	22	22	FPA10250
300	12"	323,9	10	445	400	329	12	22	22	FPA10300



DIN 2642 WHITE ALUMINUM FLAT FLANGE - PN 10



DN	Ø	D1	PN	NORM	DIMENSION (mm)			BOLT		B1	CODE
					D	K	D5 (ISO)	NR	L		
25	1"	33,7	10	ISO	115	85	36	4	M12	12	FPAB0025
32	1 1/4"	42,4	10	ISO	140	100	46	4	M16	16	FPAB0032
40	1 1/2"	43,0	10	METRIC	150	110	48	4	M16	16	FPABM043
		48,3	10	ISO	150	110	54	4	M16	16	FPAB0040
50	2"	53,0	10	METRIC	165	125	60	4	M16	16	FPABM053
		60,3	10	ISO	165	125	65	4	M16	16	FPAB0050
65	2 1/2"	73,0	10	METRIC	185	145	75	4	M16	16	FPABM073
		76,1	10	ISO	185	145	81	4	M16	16	FPAB0065
80	3"	84,0	10	METRIC	200	160	90	8	M16	18	FPABM084
		88,9	10	ISO	200	160	94	8	M16	18	FPAB0080
100	4"	104,0	10	METRIC	220	180	111	8	M16	18	FPABM104
		114,3	10	ISO	220	180	119	8	M16	18	FPAB0100
125	5"	129,0	10	METRIC	250	210	136	8	M16	18	FPABM129
		139,7	10	ISO	250	210	145	8	M16	18	FPAB0125
150	6"	154,0	10	METRIC	285	240	161	8	M20	18	FPABM154
		168,3	10	ISO	285	240	173	8	M20	18	FPAB0150
200	8"	204,0	10	METRIC	340	295	212	8	M20	20	FPABM204
		219,1	10	ISO	340	295	225	8	M20	20	FPAB0200
		219,1	16	ISO	340	295	225	12	M20	26	FPAB0206
250	10"	254,0	10	METRIC	395	350	264	12	M20	22	FPABM254
		273,0	10	ISO	395	350	279	12	M20	22	FPAB0250
		273,0	16	ISO	405	355	279	12	M24	28	FPAB0256
300	12"	304,0	10	METRIC	445	400	315	12	M20	22	FPABM304
		323,9	10	ISO	445	400	329	12	M20	22	FPAB0300



STAINLESS STEEL FORGED FLANGES

DIMENSION			FLAT FLANGE ACCORDING TO EN 1092-1 01							
			AISI 304L							
			PN 10		PN 16		PN 25		PN 40	
DN	INCHES	mm.	CODE	CODE EN			CODE			
15	1/2"	21,3	IF414015	IF414015		IF414015	IF414015			
20	3/4"	26,9	IF414020	IF414020		IF414020	IF414020			
25	1"	33,7	IF414025	IF414025		IF414025	IF414025			
32	1 1/4"	42,4	IF414032	IF414032		IF414032	IF414032			
40	1 1/2"	48,3	IF414040	IF414040		IF414040	IF414040			
50	2"	60,3	IF416050	IF416050		IF416050	IF416050			
65	2 1/2"	76,1	I4576065	I4576065						
			IF416065	IF416065		IF414065	IF414065			
80	3"	88,9	IF416080	IF416080		IF414080	IF414080			
100	4"	114,3	IF416100	IF416100		IF414100	IF414100			
125	5"	139,7	IF416125	IF416125		IF414125	IF414125			
150	6"	168,3	IF416150	IF416150		IF414150	IF414150			
200	8"	219,1	IF411200	IF416200		IF412200	IF414200			
250	10"	273,0	IF411250	IF416250		IF412250	IF414250			
300	12"	323,9	IF411300	IF416300		IF412300	IF414300			
350	14"	355,6	IF411350	IF416350						
400	16"	406,4	IF411400	IF416400						
450	18"	457,0	IF411450	IF416450						
500	20"	508,0	IF411500	IF416500						
600	24"	610,0	IF411600	IF416600						
700	28"	711,0	IF411700	IF416700						
800	32"	813,0	IF411800	IF416800						

4 HOLES

Not standardized flanges

DIMENSION			BLIND FLANGE ACCORDING TO EN 1092-1 05							
			AISI 304L							
			PN 10		PN 16		PN 25		PN 40	
DN	INCHES	mm.	CODE	CODE EN			CODE			
15	1/2"	21,3	IF454015	IF454015			IF454015			
20	3/4"	26,9	IF454020	IF454020			IF454020			
25	1"	33,7	IF454025	IF454025			IF454025			
32	1 1/4"	42,4	IF454032	IF454032			IF454032			
40	1 1/2"	48,3	IF454040	IF454040			IF454040			
50	2"	60,3	IF456050	IF456050			IF456050			
65	2 1/2"	76,1	IF456065	IF456065						
80	3"	88,9	IF456080	IF456080						
100	4"	114,3	IF456100	IF456100						
125	5"	139,7	IF456125	IF456125						
150	6"	168,3	IF456150	IF456150						
200	8"	219,1	IF451200	IF456200						
250	10"	273,0	IF451250	IF456250						
300	12"	323,9	IF451300	IF456300						
350	14"	355,6	IF451350	IF456350						
400	16"	406,4	IF451400	IF456400						
500	20"	508,0	IF451500	IF456500						
600	24"	610,0	IF451600	IF456600						

FLAT FLANGE ACCORDING TO EN 1092-1 01

AISI 316L

PN 10		PN 16		PN 25		PN40	
CODE DIN		CODE EN		CODE		CODE	
IF614015		IF614015		IF614015		IF614015	
IF614020		IF614020		IF614020		IF614020	
IF614025		IF614025		IF614025		IF614025	
IF614032		IF614032		IF614032		IF614032	
IF614040		IF614040		IF614040		IF614040	
IF616050		IF616050		IF616050		IF616050	
I6576065		I6576065					
IF616065		IF616065		IF614065		IF614065	
IF616080		IF616080		IF614080		IF614080	
IF616100		IF616100		IF614100		IF614100	
IF616125		IF616125		IF614125		IF614125	
IF616150		IF616150		IF614150		IF614150	
IF611200		IF616200		IF612200		IF614200	
IF611250		IF616250		IF612250		IF614250	
IF611300		IF616300		IF612300		IF614300	
IF611350		IF616350					
IF611400		IF616400					
IF611450		IF616450					
IF611500		IF616500					
IF611600		IF616600					
IF611700		IF616700					
IF611800		IF616800					



BLIND FLANGE ACCORDING TO EN 1092-1 05

AISI 316L

PN 10		PN 16		PN40	
CODE		CODE		CODE	
IF654015		IF654015		IF654015	
IF654020		IF654020		IF654020	
IF654025		IF654025		IF654025	
IF654032		IF654032		IF654032	
IF654040		IF654040		IF654040	
IF656050		IF656050		IF656050	
IF656065		IF656065			
IF656080		IF656080			
IF656100		IF656100			
IF656125		IF656125			
IF656150		IF656150			
IF651200		IF656200			
IF651250		IF656250			
IF651300		IF656300			
IF651350		IF656350			
IF651400		IF656400			
IF651500		IF656500			
IF651600		IF656600			



DIMENSION			NECK FLANGE ACCORDING TO EN 1092-1 11						
			AISI 304L						
			PN 10		PN 16		PN 40		
DN	INCHES	mm.	CODE		CODE		CODE		
15	1/2"	21,3	I4633015		I4633015			IF424015	
			IF424015		IF424015			IF424015	
20	3/4"	26,9	I4633020		I4633020			IF424020	
			IF424020		IF424020			IF424020	
25	1"	33,7	IF424025		IF424025			IF424025	
32	1 1/4"	42,4	I4633032		I4633032			IF424032	
			IF424032		IF424032			IF424032	
40	1 1/2"	48,3	IF424040		IF424040			IF424040	
50	2"	60,3	IF426050		IF426050			IF426050	
65	2 1/2"	76,1	I4633065		I4633065				
			IF426065		IF426065				
80	3"	88,9	IF426080		IF426080				
100	4"	114,3	IF426100		IF426100				
125	5"	139,7	IF426125		IF426125				
150	6"	168,3	IF426150		IF426150				
200	8"	219,1			IF426200				
250	10"	273,0			IF426250				
300	12"	323,9			IF426300				
350	14"	355,6			IF426350				
400	16"	406,4			IF426400				
500	20"	508,0			IF426500				

4 HOLES



DIMENSION			MM FLAT FORGED FLANGE ACCORDING TO EN 1092-1 01 / DIN 2576									
			AISI 304L						AISI 316L			
			PN 10		PN 16		PN 40		PN 10		PN 16	PN 40
DN	INCHES	mm.	CODE		CODE		CODE		CODE		CODE	
15	1/2"	18	IM414015		IM414015		IM414015		IM614015		IM614015	
20	3/4"	23	IM414020		IM414020		IM414020		IM614020		IM614020	
25	1"	28	IM414025		IM414025		IM414025		IM614025		IM614025	
32	1 1/4"	38	IM414032		IM414032		IM414032		IM614032		IM614032	
40	1 1/2"	43	IM414040		IM414040		IM414040		IM614040		IM614040	
50	2"	53	IM416050		IM416050		IM416050		IM616050		IM616050	
65	2 1/2"	73	IM416065		IM416065				IM616065		IM616065	
80	3"	84	IM416080		IM416080				IM616080		IM616080	
100	4"	104	IM416100		IM416100				IM616100		IM616100	
125	5"	129	IM416125		IM416125				IM616125		IM616125	
150	6"	154	IM416150		IM416150				IM616150		IM616150	
200	8"	204	IM411200		IM416200				IM611200		IM616200	
250	10"	254	IM411250		IM416250				IM611250		IM616250	
300	12"	304	IM411300		IM416300				IM611300		IM616300	



NECK FLANGE ACCORDING TO EN 1092-1 11



AISI 316L					
PN 10		PN 16		PN40	
CODE		CODE		CODE	
IF624015		IF624015		IF624015	
IF624020		IF624020		IF624020	
IF624025		IF624025		IF624025	
IF624032		IF624032		IF624032	
IF624040		IF624040		IF624040	
IF626050		IF626050		IF626050	
I6633065		I6633065			
IF626065		IF626065			
IF626080		IF626080			
IF626100		IF626100			
IF626125		IF626125			
IF626150		IF626150			
		IF626200			
		IF626250			
		IF626300			
		IF626350			
		IF626400			
		IF626500			



DIMENSION			FORGED FLANGE ACCORDING TO ASME B 16.5 ASTM A182 - 150 LBS.					
			AISI 316L					
			WELDING NECK		SLIP ON		BLIND	
DN	INCHES	mm.	CODE		CODE		CODE	
15	1/2"	21,3	IN150015		IO150015		IB150015	
20	3/4"	26,7	IN150020		IO150020		IB150020	
25	1"	33,4	IN150025		IO150025		IB150025	
32	1 1/4"	42,2	IN150032		IO150032		IB150032	
40	1 1/2"	48,3	IN150040		IO150040		IB150040	
50	2"	60,3	IN150050		IO150050		IB150050	
65	2 1/2"	73,0	IN150065		IO150065		IB150065	
80	3"	88,9	IN150080		IO150080		IB150080	
100	4"	114,3	IN150100		IO150100		IB150100	
125	5"	141,3	IN150125		IO150125		IB150125	
150	6"	168,3	IN150150		IO150150		IB150150	
200	8"	219,1	IN150200		IO150200		IB150200	
250	10"	273,0	IN150250		IO150250		IB150250	



DIMENSION			THREADED FORGED FLANGE ACCORDING TO EN 1092-1 01							
			AISI 304L				AISI 316L			
			PN 10-16		PN 40		PN 10-16		PN 40	
DN	INCHES	mm.	CODE		CODE		CODE DIN		CODE EN	
15	1/2"	21,3	IR416015		IR416015		IR616015		IR616015	
20	3/4"	26,9	IR416020		IR416020		IR616020		IR616020	
25	1"	33,7	IR416025		IR416025		IR616025		IR616025	
32	1 1/4"	42,4	IR416032		IR416032		IR616032		IR616032	
40	1 1/2"	48,3	IR416040		IR416040		IR616040		IR616040	
50	2"	60,3	IR416050		IR416050		IR616050		IR616050	
65	2 1/2"	76,1	IR416065				IR616065			
80	3"	88,9	IR416080				IR616080			
100	4"	114,3	IR416100				IR616100			

ACCESSORIES



**PTFE GASKET SET FOR 2 PCS
FLANGED STAINLESS STEEL VALVE**

Ø	CODE	
1/2"	IVB2J015	
3/4"	IVB2J020	
1"	IVB2J025	
1 1/4"	IVB2J032	
1 1/2"	IVB2J040	
2"	IVB2J050	
2 1/2"	IVB2J065	
3"	IVB2J080	
4"	IVB2J100	
5"	IVB2J125	
6"	IVB2J150	



**PTFE GASKET SET FOR 3 PCS
STAINLESS STEEL VALVE**

Ø	CODE	
1/2"	IVB3PJP3	
3/4"	IVB3PJP4	
1"	IVB3PJP5	
1 1/4"	IVB3PJP6	
1 1/2"	IVB3PJP7	
2"	IVB3PJP8	
2 1/2"	IVB3PJP9	
3"	IVB3PJPA	
4"	IVB3PJPC	



**RED PLASTIC SLEEVE
FOR STAINLESS STEEL
VALVE 1 PC**

Ø	CODE	
1/4"	IVB1PMR1	
3/8"	IVB1PMR2	
1/2" - 3/4"	IVB1PMR3	
1" - 1 1/4"	IVB1PMR5	
1 1/2"	IVB1PMR7	
2"	IVB1PMR8	



**RED PLASTIC SLEEVE
FOR STAINLESS STEEL
VALVE 2 PCS**

Ø	CODE	
1/4" - 1/2"	IVB2PMR1	
3/4"	IVB2PMR4	
1"	IVB2PMR5	
1 1/4"	IVB2PMR6	
1 1/2"	IVB2PMR7	
2"	IVB2PMR8	
2 1/2" - 3"	IVB2PMR9	
4"	IVB2PMRC	



**RED PLASTIC SLEEVE
FOR STAINLESS STEEL
VALVE 3 PCS**

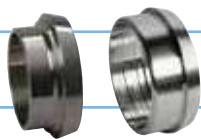
Ø	CODE	
1/4" - 1/2"	IVB3PMR1	
3/4" - 1"	IVB3PMR4	
1 1/4" - 1 1/2"	IVB3PMR6	
2"	IVB3PMR8	
2 1/2" - 3"	IVB3PMR9	
4"	IVB3PMRC	



**SIEVE FOR
"Y" FILTER AISI 316**

Ø	CODE	
1/2"	IVFM0063	
3/4"	IVFM0064	
1"	IVFM0065	
1 1/4"	IVFM0066	
1 1/2"	IVFM0067	
2"	IVFM0068	

NW ALIMENTARY FITTINGS - DIN 11851



WELDING LINER

DN			SERIES 1			SERIES 2			BORING	
			CODE AISI 304	CODE AISI 316L	CODE AISI 304	CODE AISI 316L	CODE AISI 316L			
10	700	10							I3816M02	
15	700	10		I3816003			I3816203		I3816M03	
20	400	10		I3816004			I3816204		I3816M04	
25	225	5	I3814005	I3816005	I3814205		I3816205		I3816M05	
32	180	5	I3814006	I3816006	I3814206		I3816206		I3816M06	
40	150	5	I3814007	I3816007	I3814207		I3816207		I3816M07	
50	90	5	I3814008	I3816008	I3814208		I3816208		I3816M08	
65	48	2	I3814009	I3816009	I3814209		I3816209		I3816M09	
80	28	2	I381400A	I381600A	I381420A		I381620A		I3816M0A	
100	20	2	I381400C	I381600C	I381420C		I381620C		I3816M0C	
125	10	1		I381600D			I381620D			
150	5	1		I381600E			I381620E			



MALE

DN			SERIES 1			SERIES 2			BORING	
			CODE AISI 304	CODE AISI 316L	CODE AISI 304	CODE AISI 316L	CODE AISI 316L			
10	500	10							I3806M02	
15	500	10		I3806003			I3806203		I3806M03	
20	300	10		I3806004			I3806204		I3806M04	
25	160	5	I3804005	I3806005	I3804205		I3806205		I3806M05	
32	120	5	I3804006	I3806006	I3804206		I3806206		I3806M06	
40	75	5	I3804007	I3806007	I3804207		I3806207		I3806M07	
50	60	5	I3804008	I3806008	I3804208		I3806208		I3806M08	
65	36	2	I3804009	I3806009	I3804209		I3806209		I3806M09	
80	24	2	I380400A	I380600A	I380420A		I380620A		I3806M0A	
100	12	2	I380400C	I380600C	I380420C		I380620C		I3806M0C	
125	10	1		I380600D			I380620D			
150	5	1		I380600E			I380620E			



INOX AISI 304 THREADED NUT



Ø			CODE
15	300	10	I3744003
20	180	10	I3744004
25	150	5	I3744005
32	125	5	I3744006
40	80	5	I3744007
50	55	5	I3744008
65	30	2	I3744009
80	16	2	I374400A
100	14	2	I374400C
125	12	1	I374400D
150	10	1	I374400E



INOX AISI 304 BLIND NUT WITH EPDM GASKET AND CHAIN



Ø			CODE
25	85	5	I3834005
32	60	5	I3834006
40	60	5	I3834007
50	50	5	I3834008
65	36	2	I3834009
80	20	2	I383400A
100	12	2	I383400C



SEALING RING



Ø			CODE EPDM	CODE NBR
15	300	10	IJAL0003	IJALN003
20	300	10	IJAL0004	IJALN004
25	680	10	IJAL0005	IJALN005
32	900	10	IJAL0006	IJALN006
40	700	10	IJAL0007	IJALN007
50	700	10	IJAL0008	IJALN008
65	600	10	IJAL0009	IJALN009
80	600	10	IJAL000A	IJALN00A
100	500	10	IJAL000C	IJALN00C
125	-	6	IJAL000D	IJALN00D
150	-	5	IJAL000E	IJALN00E



EPDM GASKET FOR BLIND NUT



Ø			CODE
25	680	10	IJALCE05
32	900	10	IJALCE06
40	700	10	IJALCE07
50	700	10	IJALCE08
65	300	10	IJALCE09
80	300	10	IJALCE0A
100	250	10	IJALCE0C

ALIMENTARY FITTINGS - SMS 1146



WELDING LINER AISI 316L



Ø			CODE
25	225	5	I3816S05
38	150	5	I3816S06
51	90	5	I3816S07
63,5	48	2	I3816S08
76	40	2	I3816S09
101,6	20	2	I3816S0A
104	16	2	I3816S0C



INOX AISI 304 THREADED NUT



Ø			CODE
25	150	5	I3744S05
38	60	5	I3744S06
51	40	5	I3744S07
63,5	30	2	I3744S08
76	16	2	I3744S09
101,6	14	2	I3744S0A
104	14	2	I3744S0C



MALE AISI 316L



Ø			CODE
25	160	5	I3806S05
38	120	5	I3806S06
51	60	5	I3806S07
63,5	36	2	I3806S08
76	24	2	I3806S09
101,6	12	2	I3806S0A
104	12	2	I3806S0C



SEALING RING



Ø			CODE EPDM	CODE SILICONA
25	680	10	IJASE005	IJASS005
38	900	10	IJASE006	IJASS006
51	700	10	IJASE007	IJASS007
63,5	700	10	IJASE008	IJASS008
76	600	10	IJASE009	IJASS009
101,6	600	10	IJASE00A	IJASS00A
104	500	10	IJASE00C	IJASS00C

CLAMP ACCESSORIES



**INOX AISI 304 DOUBLE PIN
HEAVY CLAMP**



Ø	INCHES	CLAMP COLLAR mm.		CODE
10-15-20	1/2" - 3/4"	25,0	150 1	IRFC4008
		34,0	100 1	IRFC4010
25-32-40	1" - 1.5"	50,5	80 1	IRFC4025
		64,0	70 1	IRFC4050
65	2 1/2"	77,5	60 1	IRFC4060
		91,0	50 1	IRFC4065
80	3.5"	106,0	40 1	IRFC4080
100	4"	119,0	40 1	IRFC4100



**INOX AISI 316L
BLIND FERRULE**



Ø	STANDARD	DIAM. EXT CLAMP		CODE
1/2" - 3/4"	3A	25,4	800 20	IRCB6009
	DIN	34,0	800 20	IRCB6010
10 - 15 - 20	DIN	34,0	800 20	IRCB6010
	DIN	50,5	300 20	IRCB6025
25 - 32 - 40	DIN	50,5	300 20	IRCB6025
	DIN	64,0	200 20	IRCB6050
50	DIN	64,0	200 20	IRCB6050
	3A	77,5	100 5	IRCB6060
65	DIN	91,0	60 5	IRCB6065
	DIN	91,0	60 5	IRCB6065
80	DIN	106,0	60 5	IRCB6080
	DIN	106,0	60 5	IRCB6080
100	DIN	119,0	40 5	IRCB6100
	DIN	119,0	40 5	IRCB6100



INOX AISI 316L WELDING FERRULE



Ø	STANDARD	DIAM. EXT TUBE	DIAM. EXT. CLAMP	LENGTH		CODE
1/2"	3A	12,7	25,4	28,6	350 10	IRCC6009
10	DIN	12,0	34,0	21,5	350 10	IRCC6010
15	DIN	18,0	34,0	21,5	350 10	IRCC6015
3/4"	3A	19,0	25,4	28,6	350 10	IRCC6016
20	DIN	22,0	34,0	21,5	250 10	IRCC6020
1"	3A	25,4	50,5	28,6	150 10	IRCC6022
25	DIN	28,0	50,5	21,5	180 10	IRCC6025
32	DIN	34,0	50,5	21,5	180 10	IRCC6032
1 1/2"	3A	38,1	50,5	28,6	150 10	IRCC6035
40	DIN	40,0	50,5	21,5	180 10	IRCC6040
2"	3A	50,8	64,0	28,6	120 10	IRCC6048
50	DIN	52,0	64,0	21,5	150 10	IRCC6050
2 1/2"	3A	63,5	77,5	28,6	70 10	IRCC6060
65	DIN	70,0	91,0	21,5	70 5	IRCC6065
3"	3A	76,2	91,0	28,6	40 5	IRCC6073
80	DIN	85,0	106,0	21,5	60 5	IRCC6080
4"	3A	101,6	119,0	28,6	25 5	IRCC6097
100	DIN	104,0	119,0	21,5	30 5	IRCC6100



GASKET FOR FERRULE



Ø	STANDARD	DIAM. INT.	DIAM. EXT.		CODE EPDM	CODE NBR
1/2"	3A	9,9	25,4	800 10	IRCJE009	IRCJN009
10	DIN	10,2	34,0	800 10	IRCJE010	IRCJN010
15	DIN	16,2	34,0	800 10	IRCJE015	IRCJN015
3/4"	3A	16,2	25,4	800 10	IRCJE016	IRCJN016
20	DIN	20,2	34,0	600 10	IRCJE020	IRCJN020
1"	3A	22,8	50,5	600 10	IRCJE022	IRCJN022
25	DIN	26,2	50,5	500 10	IRCJE025	IRCJN025
32	DIN	32,2	50,5	500 10	IRCJE032	IRCJN032
1 1/2"	3A	35,8	50,5	500 10	IRCJE035	IRCJN035
40	DIN	38,2	50,5	500 10	IRCJE040	IRCJN040
2"	3A	48,8	64,0	400 10	IRCJE048	IRCJN048
50	DIN	50,2	64,0	400 10	IRCJE050	IRCJN050
2 1/2"	3A	60,5	77,5	350 10	IRCJE060	IRCJN060
65	DIN	66,2	91,0	350 5	IRCJE065	IRCJN065
3"	3A	73,1	91,0	150 5	IRCJE073	IRCJN073
80	DIN	81,2	106,0	150 5	IRCJE080	IRCJN080
4"	3A	97,8	119,0	125 5	IRCJE097	IRCJN097
100	DIN	100,2	119,0	125 5	IRCJE100	IRCJN100

ALIMENTARY BUTT WELDING FITTINGS - DIN 11852

90° WELDED ELBOW


DN	THICK. mm.	R mm.		DIAM. EXT. mm.	SERIES 1				SERIES 2					
					AISI 304		AISI 316L		DIAM. EXT. mm.	AISI 304		AISI 316L		
					CODE		CODE			CODE		CODE		
10	1,5	26,0	10	12			IAC96010							
15	1,5	35,0	10	18			IAC96015		19			I2C96015		
20	1,5	40,0	9	22			IAC96020		23			I2C96020		
25	1,5	50,0	7	28	IAC94025		IAC96025		29	I2C94025		I2C96025		
32	1,5	55,0	5	34	IAC94032		IAC96032		35	I2C94032		I2C96032		
40	1,5	60,0	5	40	IAC94040		IAC96040		41	I2C94040		I2C96040		
50	1,5	70,0	4	52	IAC94050		IAC96050		53	I2C94050		I2C96050		
65	2,0	80,0	3	70	IAC94065		IAC96065							
80	2,0	90,0	2	85	IAC94080		IAC96080							
100	2,0	100,0	1	104	IAC94100		IAC96100							
125	2,0	187,5	1	129			IAC96125							
150	2,0	225,0	1	154			IAC96150							


WELDED TEE

DN	THICK. mm.	R mm.		DIAM. EXT. mm.	SERIES 1				SERIES 2					
					AISI 304		AISI 316L		DIAM. EXT. mm.	AISI 304		AISI 316L		
					CODE		CODE			CODE		CODE		
10	1,5	26,0	4	12			IATL6010							
15	1,5	35,0	4	18			IATL6015		19			I2TL6015		
20	1,5	40,0	4	22			IATL6020		23			I2TL6020		
25	1,5	50,0	4	28	IATL4025		IATL6025		29	I2TL4025		I2TL6025		
32	1,5	55,0	4	34	IATL4032		IATL6032		35	I2TL4032		I2TL6032		
40	1,5	60,0	4	40	IATL4040		IATL6040		41	I2TL4040		I2TL6040		
50	1,5	70,0	3	52	IATL4050		IATL6050		53	I2TL4050		I2TL6050		
65	2,0	80,0	3	70	IATL4065		IATL6065							
80	2,0	90,0	2	85	IATL4080		IATL6080							
100	2,0	100,0	1	104	IATL4100		IATL6100							
125	2,0	187,5	1	129			IATL6125							
150	2,0	225,0	1	154			IATL6150							



INOX AISI 316L CONCENTRIC REDUCER

DN	THICK. mm.		DIAM. EXT. mm.	SERIES 1		DIAM. EXT. mm.	SERIES 2	
				CODE			CODE	
DN 15 - DN 10	1,5	10	18 x 12	IARC6032				
DN 20 - DN 10	1,5	10	22 x 12	IARC6042				
DN 20 - DN 15	1,5	10	22 x 18	IARC6043		23 x 19	I2RC6043	
DN 25 - DN 10	1,5	10	28 x 12	IARC6052				
DN 25 - DN 15	1,5	10	28 x 18	IARC6053				
DN 25 - DN 20	1,5	10	28 x 22	IARC6054		29 x 23	I2RC6054	
DN 32 - DN 15	1,5	10	34 x 18	IARC6063				
DN 32 - DN 20	1,5	10	34 x 22	IARC6064		35 x 23	I2RC6064	
DN 32 - DN 25	1,5	10	34 x 28	IARC6065		35 x 29	I2RC6065	
DN 40 - DN 20	1,5	10	40 x 22	IARC6074		41 x 23	I2RC6074	
DN 40 - DN 25	1,5	10	40 x 28	IARC6075		41 x 29	I2RC6075	
DN 40 - DN 32	1,5	10	40 x 34	IARC6076		41 x 35	I2RC6076	
DN 50 - DN 25	1,5	10	52 x 28	IARC6085		53 x 29	I2RC6085	
DN 50 - DN 32	1,5	10	52 x 34	IARC6086		53 x 35	I2RC6086	
DN 50 - DN 40	1,5	10	52 x 40	IARC6087		53 x 41	I2RC6087	
DN 65 - DN 32	2,0	1	70 x 34	IARC6096		70 x 35	I2RC6096	
DN 65 - DN 40	2,0	1	70 x 40	IARC6097		70 x 41	I2RC6097	
DN 65 - DN 50	2,0	1	70 x 52	IARC6098		70 x 53	I2RC6098	
DN 80 - DN 40	2,0	1	85 x 40	IARC60A7		85 x 41	I2RC60A7	
DN 80 - DN 50	2,0	1	85 x 52	IARC60A8		85 x 53	I2RC60A8	
DN 80 - DN 65	2,0	1	85 x 70	IARC60A9				
DN 100 - DN 50	2,0	1	104 x 52	IARC60C8		104 x 53	I2RC60C8	
DN 100 - DN 65	2,0	1	104 x 70	IARC60C9				
DN 100 - DN 80	2,0	1	104 x 85	IARC60CA				



ALIMENTARY BUTT WELDING FITTINGS - SMS 1146

90° ELBOW

DN	THICK. mm.	DIAM. EXT. mm.	R mm.		AISI 304		AISI 316L	
					CODE		CODE	
25	1,5	25,4	38,1	7	ISC94025		ISC96025	
38	1,5	38,1	57,2	5	ISC94038		ISC96038	
51	1,5	50,8	76,1	4	ISC94051		ISC96051	
63	1,5	63,5	95,2	3	ISC94063		ISC96063	
76	2,0	76,1	114,0	2	ISC94076		ISC96076	
101	2,0	101,6	110,0	1	ISC94101		ISC96101	

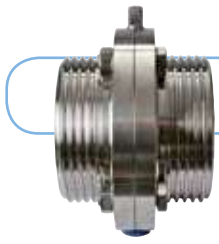

AISI 316L TEE


DN	THICK. mm.	DIAM. EXT. mm.		CODE	
25	1,5	25,4	4	ISTL6025	
38	1,5	38,1	4	ISTL6038	
51	1,5	50,8	2	ISTL6051	
63	1,5	63,5	1	ISTL6063	
76	2,0	76,1	1	ISTL6076	
101	2,0	101,6	1	ISTL6101	


**AISI 316L
CONCENTRIC REDUCER**


DN	DIAM. EXT. mm.		CODE	
DN 38 - DN 25	38,1 x 25,4	10	ISR63825	
DN 51 - DN 25	50,8 x 25,4	10	ISR65125	
DN 51 - DN 38	50,8 x 38,1	10	ISR65138	
DN 63 - DN 38	63,5 x 38,1	1	ISR66338	
DN 63 - DN 51	63,5 x 50,8	1	ISR66351	
DN 76 - DN 51	76,1 x 50,8	1	ISR67651	
DN 76 - DN 63	76,1 x 63,5	1	ISR67663	
DN 101 - DN 63	101,6 x 63,5	1	ISR61063	
DN 101 - DN 76	101,6 x 76,1	1	ISR61076	

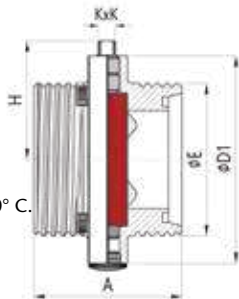
ALIMENTARY VALVES - DIN 11851



ALIMENTARY BUTTERFLY VALVE – THREAD / THREAD



Made of Stainless Steel AISI 304.
Elastomer in EPDM.
Thread ends according with DIN 11851.
Working pressure: PN 10.
Working Temperature from -20° C to 130° C.



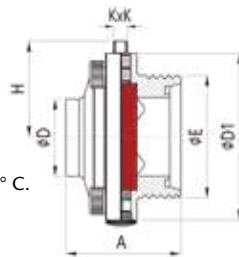
Ø	H	Ø E	KxK	A	Ø D1		CODE
25	50,5	RD52x1/6"	8 x 8	66	78	16 1	IV90E025
32	54,5	RD58x1/6"	8 x 8	70	86	16 1	IV90E032
40	56,0	RD65x1/6"	8 x 8	74	95	16 1	IV90E040
50	64,0	RD78x1/6"	8 x 8	76	108	8 1	IV90E050
65	74,0	RD95x1/6"	8 x 8	84	125	8 1	IV90E065
80	81,5	RD110x1/4"	10 x 10	90	140	6 1	IV90E080
100	91,5	RD130x1/4"	10 x 10	104	160	4 1	IV90E100



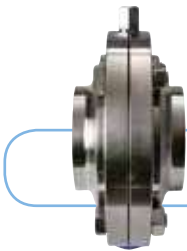
ALIMENTARY BUTTERFLY VALVE – THREAD / WELD



Made of Stainless Steel AISI 304.
Elastomer in EPDM.
Thread ends according with DIN 11851 / weld.
Working pressure: PN 10.
Working Temperature from -20° C to 130° C.



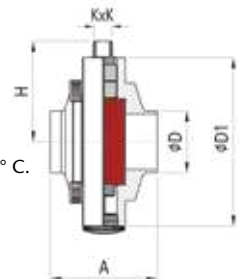
Ø	H	Ø D	Ø E	KxK	A	Ø D1		CODE
25	50,5	28	RD52x1/6"	8 x 8	58	78	16 1	IV91E025
32	54,5	34	RD58x1/6"	8 x 8	58	86	16 1	IV91E032
40	56,0	40	RD65x1/6"	8 x 8	60	95	16 1	IV91E040
50	64,0	52	RD78x1/6"	8 x 8	64	108	12 1	IV91E050
65	74,0	70	RD95x1/6"	8 x 8	68	125	8 1	IV91E065
80	81,5	85	RD110x1/4"	10 x 10	71	140	8 1	IV91E080
100	91,5	104	RD130x1/4"	10 x 10	84	160	4 1	IV91E100



ALIMENTARY BUTTERFLY VALVE – WELD / WELD



Made of Stainless Steel AISI 304.
Elastomer in EPDM.
Ends weld / weld.
Working pressure: PN 10.
Working Temperature from -20° C to 130° C.



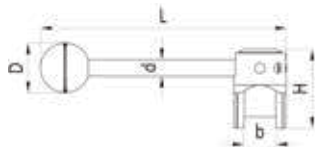
Ø	H	Ø D	KxK	A	Ø D1		CODE
25	50,5	28	8 x 8	50	78	16 1	IV92E025
32	54,5	34	8 x 8	50	86	16 1	IV92E032
40	56,0	40	8 x 8	50	95	16 1	IV92E040
50	64,0	52	8 x 8	52	108	12 1	IV92E050
65	74,0	70	8 x 8	56	125	8 1	IV92E065
80	81,5	85	10 x 10	60	140	8 1	IV92E080
100	91,5	104	10 x 10	64	160	4 1	IV92E100



HANDLE



Made of Stainless Steel AISI 304.
Manual drive on 3 positions.



Ø	D	d	b	H	L		CODE
25-65	32	10,5	20,2	50	153	60 1	IV9P0025
80-100	40	12,0	22,1	56	203	40 1	IV9P0080



GASKET



Ø		CODE EPDM	CODE NBR	CODE SILICONE
25	384 2	IV9GE025	IV9GN025	IV9GS025
32	210 2	IV9GE032	IV9GN032	IV9GS032
40	148 2	IV9GE040	IV9GN040	IV9GS040
50	160 2	IV9GE050	IV9GN050	IV9GS050
65	84 2	IV9GE065	IV9GN065	IV9GS065
80	30 2	IV9GE080	IV9GN080	IV9GS080
100	36 2	IV9GE100	IV9GN100	IV9GS100



DISC

Ø		CODE
25	1	IV9D0025
32	1	IV9D0032
40	1	IV9D0040
50	1	IV9D0050
65	1	IV9D0065
80	1	IV9D0080
100	1	IV9D0100

PRESS **FITTING** - M PROFILE

ATUSA PRESS is an easily and quickly assembled system. The most frequent applications are in civil, industry and naval sectors.

The advantages of **ATUSA** PRESS system are:

- Reliability and safety.
- Absence of the risk of fire during installation.
- High resistance to corrosion.

The diameters available in 316 Stainless steel and Carbon steel are from 15 mm. to 108 mm.

ATUSA press fittings are available in AISI 316L stainless steel and electro zincated steel.





PRESS
FITTING

ATUSA

PRESS **FITTING**

STAINLESS STEEL PRESS FITTINGS

45° BEND F/F

Ø mm		CODE
15	350 10	P0410015
18	300 10	P0410018
22	150 10	P0410022
28	120 5	P0410028
35	120 5	P0410035
42	80 2	P0410042
54	40 2	P0410054
76,1	12 1	P0410076
88,9	5 1	P0410088
108	2 1	P04100A0


45° BEND M/F

Ø mm		CODE
15	400 10	P40W0015
18	350 10	P40W0018
22	150 10	P40W0022
28	120 5	P40W0028
35	120 5	P40W0035
42	80 2	P40W0042
54	40 2	P40W0054
76,1	12 1	P40W0076
88,9	5 1	P40W0088
108	2 1	P40W00A0


90° BEND F/F

Ø mm		CODE
15	300 10	P0020015
18	250 10	P0020018
22	150 10	P0020022
28	175 5	P0020028
35	100 5	P0020035
42	50 2	P0020042
54	30 2	P0020054
76,1	10 1	P0020076
88,9	5 1	P0020088
108	2 1	P00200A0


90° BEND M/F

Ø mm		CODE
15	300 10	P01W0015
18	250 10	P01W0018
22	150 10	P01W0022
28	175 5	P01W0028
35	100 5	P01W0035
42	50 2	P01W0042
54	30 2	P01W0054
76,1	10 1	P01W0076
88,9	5 1	P01W0088
108	2 1	P01W00A0


90° ELBOW MALE

Ø mm		CODE
15 x 1/2"	220 10	P92M0153
18 x 1/2"	200 10	P92M0183
22 x 3/4"	150 10	P92M0224
28 x 1"	100 5	P92M0285
35 x 1 1/4"	60 5	P92M0356


90° WELDED ELBOW TRANS. F/M

Ø mm		CODE
15 x 1/2"	220 10	P93M0153
18 x 1/2"	200 10	P93M0183
22 x 3/4"	150 10	P93M0224
28 x 1"	100 5	P93M0285
35 x 1 1/4"	60 5	P93M0356
42 x 1 1/2"	30 2	P93M0427
54 x 2"	12 2	P93M0548


90° BEND ADAPTOR WITH FEMALE THREAD F/F

Ø mm		CODE
15 x 1/2"	220 10	P92F0153
18 x 1/2"	200 10	P92F0183
22 x 3/4"	150 10	P92F0224
35 x 1 1/4"	60 5	P92F0356


90° WELDED ELBOW TRANS. F/F

Ø mm		CODE
15 x 1/2"	220 10	P93F0153
18 x 1/2"	200 10	P93F0183
22 x 3/4"	150 10	P93F0224
28 x 1/2"	100 5	P93F0283
28 x 1"	80 5	P93F0285
35 x 1 1/4"	50 5	P93F0356



TEE

Ø mm			CODE
15	250	10	P130M015
18	200	10	P130M018
22	120	10	P130M022
28	75	5	P130M028
35	75	5	P130M035



WELDED TEE

Ø mm			CODE
15	250	10	P1300015
18	200	10	P1300018
22	150	10	P1300022
28	75	5	P1300028
35	75	5	P1300035
42	50	2	P1300042
54	30	2	P1300054
76,1	10	1	P1300076
88,9	10	1	P1300088
108	4	1	P13000A0



REDUCED TEE

Ø mm			CODE
18 x 15 x 18	180	10	P13R1815
22 x 15 x 22	150	10	P13R2215
22 x 18 x 22	150	10	P13R2218
28 x 15 x 28	100	5	P13R2815
28 x 18 x 28	100	5	P13R2818
28 x 22 x 28	100	5	P13R2822
35 x 15 x 35	100	5	P13R3515
35 x 18 x 35	90	5	P13R3518
35 x 22 x 35	85	5	P13R3522
35 x 28 x 35	80	5	P13R3528
42 x 22 x 42	70	2	P13R4222
42 x 28 x 42	70	2	P13R4228
42 x 35 x 42	70	2	P13R4235
54 x 22 x 54	36	2	P13R5422
54 x 28 x 54	36	2	P13R5428
54 x 35 x 54	36	2	P13R5435
54 x 42 x 54	36	2	P13R5442
76,1 x 22 x 76,1	8	1	P13R7622
76,1 x 28 x 76,1	8	1	P13R7628
76,1 x 35 x 76,1	8	1	P13R7635
76,1 x 42 x 76,1	8	1	P13R7642
76,1 x 54 x 76,1	8	1	P13R7654
88,9 x 22 x 88,9	5	1	P13R8822
88,9 x 28 x 88,9	5	1	P13R8828
88,9 x 35 x 88,9	5	1	P13R8835
88,9 x 42 x 88,9	5	1	P13R8842
88,9 x 54 x 88,9	5	1	P13R8854
88,9 x 76,1 x 88,9	6	1	P13R8876
108 x 22 x 108	6	1	P13RA022
108 x 28 x 108	6	1	P13RA028
108 x 35 x 108	6	1	P13RA035
108 x 42 x 108	6	1	P13RA042
108 x 54 x 108	6	1	P13RA054
108 x 76,1 x 108	6	1	P13RA076
108 x 88,9 x 108	5	1	P13RA088



FEMALE THREADED TEE

Ø mm			CODE
15 x 1/2" x 15	250	10	P136M153
22 x 1/2" x 22	150	10	P136M223
22 x 3/4" x 22	150	10	P136M224
28 x 1/2" x 28	75	5	P136M283
28 x 3/4" x 28	75	5	P136M284
35 x 1/2" x 35	75	5	P136M353
35 x 3/4" x 35	75	5	P136M354



WELDED TEE WITH FEMALE THREAD

Ø mm			CODE
15 x 1/2" x 15	250	10	P1360153
18 x 1/2" x 18	200	10	P1360183
18 x 3/4" x 18	200	10	P1360184
22 x 1/2" x 22	150	10	P1360223
22 x 3/4" x 22	150	10	P1360224
28 x 1/2" x 28	75	5	P1360283
28 x 3/4" x 28	75	5	P1360284
35 x 1/2" x 35	75	5	P1360353
35 x 3/4" x 35	75	5	P1360354
42 x 1/2" x 42	50	2	P1360423
42 x 3/4" x 42	50	2	P1360424
54 x 1/2" x 54	30	2	P1360543
54 x 3/4" x 54	30	2	P1360544
54 x 2" x 54	30	2	P1360548
76,1 x 3/4" x 76,1	10	1	P1360764
76,1 x 2" x 76,1	10	1	P1360768
88,9 x 3/4" x 88,9	10	1	P1360884
88,9 x 2" x 88,9	10	1	P1360888
108 x 3/4" x 108	6	1	P1360A04
108 x 2" x 108	4	1	P1360A08

INOX

**STRAIGHT COUPLING
REDUCTION F/F**

Ø mm			CODE
18 x 15	500	10	P2401815
22 x 15	350	10	P2402215
22 x 18	300	10	P2402218
28 x 15	250	5	P2402815
28 x 18	250	5	P2402818
28 x 22	250	5	P2402822
35 x 15	150	5	P2403515
35 x 18	150	5	P2403518
35 x 22	150	5	P2403522
35 x 28	125	5	P2403528
42 x 15	100	2	P2404215
42 x 18	100	2	P2404218
42 x 22	100	2	P2404222
42 x 28	100	2	P2404228
42 x 35	100	2	P2404235
54 x 15	100	2	P2405415
54 x 18	100	2	P2405418
54 x 22	100	2	P2405422
54 x 28	100	2	P2405428
54 x 35	100	2	P2405435
54 x 42	100	2	P2405442
76,1 x 42	25	1	P2407642
76,1 x 54	25	1	P2407654
88,9 x 54	15	1	P2408854
88,9 x 76,1	15	1	P2408876
108 x 54	10	1	P240A054
108 x 76,1	10	1	P240A076
108 x 88,9	10	1	P240A088


COUPLING

Ø mm			CODE
15	500	10	P2700015
18	400	10	P2700018
22	300	10	P2700022
28	300	5	P2700028
35	100	5	P2700035
42	70	2	P2700042
54	70	2	P2700054
76,1	22	1	P2700076
88,9	12	1	P2700088
108	5	1	P27000A0


SLIP COUPLING F/F

Ø mm			CODE
15	350	10	P27L0015
18	300	10	P27L0018
22	180	10	P27L0022
28	250	5	P27L0028
35	120	5	P27L0035
42	70	2	P27L0042
54	60	2	P27L0054
76,1	12	1	P27L0076
88,9	9	1	P27L0088
108	5	1	P27L00A0


JOINT CONNECTOR F/F

Ø mm			CODE
15 x 1/2"	300	10	P27N0153
15 x 3/4"	300	10	P27N0154
18 x 1/2"	200	10	P27N0183
18 x 3/4"	200	10	P27N0184
22 x 1"	150	10	P27N0225
28 x 1 1/4"	100	5	P27N0286
35 x 1 1/2"	80	5	P27N0357
76,1 x 2 1/2"	15	1	P27N0769


JOINT CONNECTION F/F

Ø mm			CODE
15	200	5	P3300015
18	150	5	P3300018
22	100	5	P3300022
28	75	2	P3300028
35	50	2	P3300035
42	30	2	P3300042
54	20	2	P3300054


WELDED WALLPLATE F/F

Ø mm			CODE
15 x 1/2"	200	10	P92E0153
18 x 1/2"	150	10	P92E0183
22 x 3/4"	120	10	P92E0224
28 x 1"	75	5	P92E0285


ENDCAP

Ø mm			CODE
15	500	10	P3000015
18	400	10	P3000018
22	300	10	P3000022
28	200	5	P3000028
35	100	5	P3000035
42	80	2	P3000042
54	60	2	P3000054
76,1	25	1	P3000076
88,9	15	1	P3000088
108	10	1	P30000A0



**ADAPTOR UNION WITH MALE THREAD,
BRASS NUT AND EPDM FLAT SEAL**

Ø mm			CODE
15 x 1/2"	200	10	P33M0153
15 x 3/4"	200	10	P33M0154
18 x 1/2"	150	10	P33M0183
18 x 3/4"	150	10	P33M0184
22 x 1/2"	100	5	P33M0223
22 x 3/4"	100	5	P33M0224
22 x 1"	100	5	P33M0225
28 x 1"	75	5	P33M0285
35 x 1 1/4"	50	5	P33M0356
42 x 1 1/2"	30	2	P33M0427
54 x 2"	20	2	P33M0548



**ADAPTOR UNION WITH FEM. THREAD,
BRASS NUT AND EPDM FLAT SEAL**

Ø mm			CODE
15 x 1/2"	200	10	P33F0153
18 x 1/2"	150	10	P33F0183
22 x 3/4"	100	5	P33F0224
28 x 1"	75	5	P33F0285
35 x 1 1/4"	50	5	P33F0356
42 x 1 1/2"	30	2	P33F0427
54 x 2"	20	2	P33F0548



WELDED STRAIGHT ADAPTER F/M

Ø mm			CODE
15 x 3/8"	300	10	P27M0152
15 x 1/2"	300	10	P27M0153
15 x 3/4"	300	10	P27M0154
18 x 1/2"	250	10	P27M0183
18 x 3/4"	250	10	P27M0184
22 x 1/2"	250	10	P27M0223
22 x 3/4"	200	10	P27M0224
22 x 1"	200	10	P27M0225
28 x 3/4"	150	5	P27M0284
28 x 1"	120	5	P27M0285
28 x 1 1/4"	100	5	P27M0286
35 x 1"	100	5	P27M0355
35 x 1 1/4"	100	5	P27M0356
35 x 1 1/2"	100	5	P27M0357
42 x 1 1/4"	60	2	P27M0426
42 x 1 1/2"	50	2	P27M0427
54 x 1 1/2"	40	2	P27M0547
54 x 2"	30	2	P27M0548
76,1 x 2 1/2"	12	1	P27M0769
88,9 x 3"	10	1	P27M099B



WELDED STRAIGHT ADAPTER F/F

Ø mm			CODE
15 x 1/2"	300	10	P27F0153
15 x 3/4"	300	10	P27F0154
18 x 1/2"	250	10	P27F0183
18 x 3/4"	250	10	P27F0184
22 x 1/2"	200	10	P27F0223
22 x 3/4"	200	10	P27F0224
22 x 1"	200	10	P27F0225
28 x 3/4"	125	5	P27F0284
28 x 1"	120	5	P27F0285
28 x 1 1/4"	100	5	P27F0286
35 x 1"	100	5	P27F0355
35 x 1 1/4"	100	5	P27F0356
35 x 1 1/2"	100	5	P27F0357
42 x 1 1/4"	60	2	P27F0426
42 x 1 1/2"	50	2	P27F0427
54 x 1 1/2"	40	2	P27F0547
54 x 2"	30	2	P27F0548


PIPE BRIDGE SHORT

Ø mm			CODE
15	250	10	P0860015
18	200	10	P0860018
22	150	10	P0860022


15° BEND

Ø mm			CODE
28	90	5	PE150028
35	65	5	PE150035
42	30	2	PE150042
54	26	2	PE150054


30° BEND

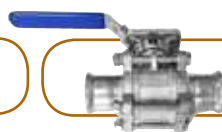
Ø mm			CODE
28	80	5	PE300028
35	60	5	PE300035
42	28	2	PE300042
54	24	2	PE300054


60° BEND

Ø mm			CODE
28	80	5	PE600028
35	55	5	PE600035
42	26	2	PE600042
54	22	2	PE600054


90° BEND

Ø mm			CODE
15	150	10	PE900015
18	120	10	PE900018
22	100	10	PE900022
28	75	5	PE900028
35	50	5	PE900035
42	24	2	PE900042
54	20	2	PE900054


FULL BORE BALL VALVE F/F

Ø mm			CODE
35	1	1	PV300035
42	1	1	PV300042
54	1	1	PV300054
76,1	1	1	PV300076
88,9	1	1	PV300088
108	1	1	PV3000A0


PN 16 FLANGE WITH PRESS JOINT

Ø mm			CODE
15	1	1	P3200015
18	1	1	P3200018
22	1	1	P3200022
28	1	1	P3200028
35	1	1	P3200035
42	1	1	P3200042
54	1	1	P3200054
76,1	1	1	P3200076
88,9	1	1	P3200088
108	1	1	P32000A0

* Price on request

CARBON STEEL PRESS FITTINGS

45° BEND F/F

Ø mm			CODE
15	350	10	Q0410015
18	300	10	Q0410018
22	150	10	Q0410022
28	120	5	Q0410028
35	120	5	Q0410035
42	80	2	Q0410042
54	40	2	Q0410054
76,1	12	1	Q0410076
88,9	5	1	Q0410088
108	2	1	Q04100A0


45° BEND M/F

Ø mm			CODE
15	400	10	Q40W0015
18	350	10	Q40W0018
22	150	10	Q40W0022
28	120	5	Q40W0028
35	120	5	Q40W0035
42	80	2	Q40W0042
54	40	2	Q40W0054
76,1	12	1	Q40W0076
88,9	5	1	Q40W0088
108	2	1	Q40W00A0


90° BEND F/F

Ø mm			CODE
15	300	10	Q0020015
18	250	10	Q0020018
22	150	10	Q0020022
28	175	5	Q0020028
35	100	5	Q0020035
42	50	2	Q0020042
54	30	2	Q0020054
76,1	10	1	Q0020076
88,9	5	1	Q0020088
108	2	1	Q00200A0


90° BEND M/F

Ø mm			CODE
15	300	10	Q01W0015
18	250	10	Q01W0018
22	150	10	Q01W0022
28	175	5	Q01W0028
35	100	5	Q01W0035
42	50	2	Q01W0042
54	30	2	Q01W0054
76,1	10	1	Q01W0076
88,9	5	1	Q01W0088
108	2	1	Q01W00A0


90° THREADED BEND F/M

Ø mm			CODE
15 x 3/8"	250	10	Q0010152
15 x 1/2"	250	10	Q0010153
18 x 1/2"	200	10	Q0010183
22 x 3/4"	100	10	Q0010224
28 x 1"	75	5	Q0010285
35 x 1 1/4"	30	5	Q0010356
42 x 1 1/2"	20	2	Q0010427
54 x 2"	12	2	Q0010548


TEE

Ø mm			CODE
15	250	10	Q1300015
18	180	10	Q1300018
22	120	10	Q1300022
28	100	5	Q1300028
35	75	5	Q1300035
42	50	2	Q1300042
54	30	2	Q1300054
76,1	8	1	Q1300076
88,9	5	1	Q1300088
108	4	1	Q13000A0

CARBONE

TEE FEMALE THREADED

Ø mm		CODE
15 x 1/2" x 15	250 10	Q1360153
18 x 1/2" x 18	200 10	Q1360183
18 x 3/4" x 18	200 10	Q1360184
22 x 1/2" x 22	150 10	Q1360223
22 x 3/4" x 22	150 10	Q1360224
28 x 1/2" x 28	75 5	Q1360283
28 x 3/4" x 28	75 5	Q1360284
35 x 1/2" x 35	75 5	Q1360353
35 x 3/4" x 35	75 5	Q1360354
42 x 1/2" x 42	50 2	Q1360423
42 x 3/4" x 42	50 2	Q1360424
54 x 1/2" x 54	30 2	Q1360543
54 x 3/4" x 54	30 2	Q1360544
76,1 x 3/4" x 76,1	10 1	Q1360764
88,9 x 3/4" x 88,9	10 1	Q1360884
108 x 3/4" x 108	6 1	Q1360A04


REDUCING TEE

Ø mm		CODE
18 x 15 x 18	180 10	Q13R1815
22 x 15 x 22	150 10	Q13R2215
22 x 18 x 22	150 10	Q13R2218
28 x 15 x 28	100 5	Q13R2815
28 x 18 x 28	100 5	Q13R2818
28 x 22 x 28	100 5	Q13R2822
35 x 15 x 35	100 5	Q13R3515
35 x 18 x 35	90 5	Q13R3518
35 x 22 x 35	85 5	Q13R3522
35 x 28 x 35	80 5	Q13R3528
42 x 22 x 42	70 2	Q13R4222
42 x 28 x 42	70 2	Q13R4228
42 x 35 x 42	70 2	Q13R4235
54 x 22 x 54	36 2	Q13R5422
54 x 28 x 54	36 2	Q13R5428
54 x 35 x 54	36 2	Q13R5435
54 x 42 x 54	36 2	Q13R5442
76,1 x 22 x 76,1	8 1	Q13R7622
76,1 x 28 x 76,1	8 1	Q13R7628
76,1 x 35 x 76,1	8 1	Q13R7635
76,1 x 42 x 76,1	8 1	Q13R7642
76,1 x 54 x 76,1	8 1	Q13R7654
88,9 x 28 x 88,9	5 1	Q13R8828
88,9 x 35 x 88,9	5 1	Q13R8835
88,9 x 42 x 88,9	5 1	Q13R8842
88,9 x 54 x 88,9	5 1	Q13R8854
88,9 x 76,1 x 88,9	5 1	Q13R8876
108 x 28 x 108	6 1	Q13RA028
108 x 35 x 108	6 1	Q13RA035
108 x 42 x 108	6 1	Q13RA042
108 x 54 x 108	6 1	Q13RA054
108 x 76,1 x 108	6 1	Q13RA076
108 x 88,9 x 108	5 1	Q13RA088


JOINT CONNECTOR F/F

Ø mm		CODE
15 x 3/4"	300 10	Q27N0154
18 x 3/4"	200 10	Q27N0184
22 x 1"	150 10	Q27N0225
28 x 1 1/4"	100 5	Q27N0286
35 x 1 1/2"	80 5	Q27N0357
42 x 1 3/4"	50 2	Q27N042U
54 x 2 3/8"	30 2	Q27N054T


SLIP COUPLING F/F

Ø mm		CODE
15	500 10	Q2700015
18	400 10	Q2700018
22	300 10	Q2700022
28	300 5	Q2700028
35	100 5	Q2700035
42	70 2	Q2700042
54	70 2	Q2700054
76,1	22 1	Q2700076
88,9	12 1	Q2700088
108	8 1	Q27000A0

Ø mm		CODE
15	350 10	Q27L0015
18	300 10	Q27L0018
22	180 10	Q27L0022
28	250 5	Q27L0028
35	120 5	Q27L0035
42	70 2	Q27L0042
54	60 2	Q27L0054
76,1	12 1	Q27L0076
88,9	9 1	Q27L0088
108	5 1	Q27L00A0



STRAIGHT COUPLING REDUCTION

Ø mm		CODE
18 x 15	500 10	Q2401815
22 x 15	350 10	Q2402215
22 x 18	300 10	Q2402218
28 x 15	250 5	Q2402815
28 x 18	250 5	Q2402818
28 x 22	250 5	Q2402822
35 x 15	150 5	Q2403515
35 x 18	150 5	Q2403518
35 x 22	150 5	Q2403522
35 x 28	125 5	Q2403528
42 x 18	100 5	Q2404218
42 x 22	100 5	Q2404222
42 x 28	100 2	Q2404228
42 x 35	100 2	Q2404235
54 x 18	100 2	Q2405418
54 x 22	100 2	Q2405422
54 x 28	100 2	Q2405428
54 x 35	100 2	Q2405435
54 x 42	100 2	Q2405442
76,1 x 42	25 1	Q2407642
76,1 x 54	25 1	Q2407654
88,9 x 54	15 1	Q2408854
88,9 x 76,1	15 1	Q2408876
108 x 54	10 1	Q240A054
108 x 76,1	10 1	Q240A076
108 x 88,9	10 1	Q240A088



ENDCAP

Ø mm		CODE
15	500 10	Q3000015
18	400 10	Q3000018
22	300 10	Q3000022
28	200 5	Q3000028
35	100 5	Q3000035
42	80 2	Q3000042
54	60 2	Q3000054
76,1	25 1	Q3000076
88,9	15 1	Q3000088
108	10 1	Q30000A0



FLANGE PN 16 WITH PRESS JOINT

Ø mm		CODE
22	1 1	Q3200022
28	1 1	Q3200028
35	1 1	Q3200035
42	1 1	Q3200042
54	1 1	Q3200054
76,1	1 1	Q3200076
88,9	1 1	Q3200088
108	1 1	Q32000A0



JOINT CONNECTION F/M

Ø mm		CODE
15 x 1/2"	200 10	Q33M0153
15 x 3/4"	200 10	Q33M0154
18 x 1/2"	150 10	Q33M0183
18 x 3/4"	150 10	Q33M0184
22 x 1/2"	100 10	Q33M0223
22 x 3/4"	100 10	Q33M0224
22 x 1"	100 10	Q33M0225
28 x 1"	75 5	Q33M0285
35 x 1 1/4"	50 5	Q33M0356
42 x 1 1/2"	30 2	Q33M0427
54 x 2"	20 2	Q33M0548



JOINT CONNECTION F/F

Ø mm		CODE
15 x 1/2"	200 10	Q33F0153
18 x 1/2"	150 10	Q33F0183
22 x 3/4"	100 10	Q33F0224
22 x 1"	100 10	Q33F0225
28 x 1"	75 5	Q33F0285
35 x 1 1/4"	50 5	Q33F0356
42 x 1 1/2"	30 2	Q33F0427
54 x 2"	20 2	Q33F0548


STRAIGHT ADAPTER F/M

Ø mm			CODE
15 x 3/8"	300	10	Q27M0152
15 x 1/2"	300	10	Q27M0153
15 x 3/4"	300	10	Q27M0154
18 x 1/2"	250	10	Q27M0183
18 x 3/4"	250	10	Q27M0184
22 x 1/2"	250	10	Q27M0223
22 x 3/4"	200	10	Q27M0224
22 x 1"	200	10	Q27M0225
28 x 3/4"	150	5	Q27M0284
28 x 1"	120	5	Q27M0285
35 x 1"	100	5	Q27M0355
35 x 1 1/4"	100	5	Q27M0356
35 x 1 1/2"	100	5	Q27M0357
42 x 1 1/4"	60	2	Q27M0426
42 x 1 1/2"	50	2	Q27M0427
54 x 2"	30	2	Q27M0548
76,1 x 2 1/2"	12	1	Q27M0769
88,9 x 3"	10	1	Q27M099B
108 x 4"	5	1	Q27MA00D


STRAIGHT ADAPTER F/F

Ø mm			CODE
15 x 1/2"	350	10	Q27F0153
18 x 1/2"	300	10	Q27F0183
18 x 3/4"	250	10	Q27F0184
22 x 1/2"	200	10	Q27F0223
22 x 3/4"	200	10	Q27F0224
22 x 1"	200	10	Q27F0225
28 x 3/4"	125	5	Q27F0284
28 x 1"	150	5	Q27F0285
35 x 1"	60	5	Q27F0355
35 x 1 1/4"	75	5	Q27F0356
42 x 1 1/2"	50	2	Q27F0427
54 x 2"	30	2	Q27F0548


STRAIGHT ADAPTER F/F

Ø mm			CODE
15 x 1/2"	350	10	Q60F0153
18 x 1/2"	300	10	Q60F0183
22 x 1/2"	200	10	Q60F0223
18 x 3/4"	300	10	Q60F0184
22 x 3/4"	200	10	Q60F0224


STRAIGHT ADAPTER F/M

Ø mm			CODE
15 x 1/2"	350	10	Q60M0153
18 x 1/2"	300	10	Q60M0183
15 x 3/4"	350	10	Q60M0154
18 x 3/4"	300	10	Q60M0184
22 x 3/4"	200	10	Q60M0224


ASYMMETRICAL STRAIGHT BY-PASS

Ø mm			CODE
15	200	10	Q0850015
18	150	10	Q0850018
22	100	10	Q0850022
28	80	5	Q0850028


90° BEND


Ø mm			CODE
15	150	10	QE900015
18	120	10	QE900018
22	100	10	QE900022
28	75	5	QE900028
35	50	5	QE900035
42	24	2	QE900042
54	20	2	QE900054

* Price on request

JOINTS



EPDM O-RING

Ø mm		CODE
15	10	9000N015
18	10	9000N018
22	10	9000N022
28	10	9000N028
35	10	9000N035
42	10	9000N042
54	10	9000N054
76,1	1	9000N076
88,9	1	9000N088
108	1	9000N0A0

FEATURES TECHNIQUES


Working temperature: -10° C a 110° C (120° C)
Diameter: Ø12 - Ø108 mm.

APPLICATIONS

- Drinking water.
- Deleble water.
- Rainwater.
- HEATING installations.
- Circulation pipes.
- Fire protection systems.



FPM O-RING (GREEN) - DIN ISO 1629

Ø mm		CODE
15	10	9000V015
18	10	9000V018
22	10	9000V022
28	10	9000V028
35	10	9000V035
42	10	9000V042
54	10	9000V054
76,1	1	9000V076
88,9	1	9000V088
108	1	9000V0A0

TECHNICAL FEATURES


Working temperatura: -30° C a 160° C (200° C).
Diameter: Ø15 - Ø108 mm.

APPLICATIONS

- Air pressure systems.
- Steam and condensate installations.
- Solar installations.
- Refrigeration facilities.
- Hydrocarbons, except diesel.
- Mineral, vegetable and synthetic oil.



FPM O-RING (RED) - DIN ISO 1629

Ø mm		CODE
15	10	9000R015
18	10	9000R018
22	10	9000R022
28	10	9000R028
35	10	9000R035
42	10	9000R042
54	10	9000R054
76,1	1	9000R076
88,9	1	9000R088
108	1	9000R0A0

TECHNICAL FEATURES

Working temperatura: -30° C a 160° C (200° C).
Diameter: Ø15 - Ø108 mm.

APPLICATIONS

- Air pressure systems.
- Mineral, vegetable and synthetic oil.
- Greases and industrial applications.
- Hydrocarbons, except heavy diesel.
- Liquefied petroleum gas (LPG).

PIPE

AISI 304L Pipe:

Stainless Pipe EN10312, in its AISI 304L steel variant. With EPDM gaskets is suitable for compressed air installations, cold drinking water, heating and air conditioning (up to temperatures of 110° C). Not compatible with well water.

AISI 316L Pipe:

Stainless Pipe EN10312, in AISI 316L Steel variant. With EPDM gaskets it is suitable for compressed air, heating and air conditioning, condensate and steam, drinking water and domestic hot water (up to temperatures of 110° C), according to DVGW. Not compatible with well water.

In ACS facilities, the amount of residual combined chlorine should never exceed 2 mg/l, while residual free chlorine should not exceed 1 mg/l. The maximum allowable concentration of chlorides is 250 ppm.



STAINLESS STEEL SANITARY PIPE

Ø (mm)	INOX 304L (1.4307) EN-10312-1			INOX 316L (1.4404) EN-10312-1			INOX 316L (1.4404) DVGW		
	CODE	THICKNESS (mm)	LENGTH (m)	CODE	THICKNESS (mm)	LENGTH (m)	CODE	THICKNESS (mm)	LENGTH (m)
15	S0934015	0,6	5	S0931015	0,6	5	S0930015	1,0	6
18	S0934018	0,7	5	S0931018	0,7	5	S0930018	1,0	6
22	S0934022	0,7	5	S0931022	0,7	5	S0930022	1,2	6
28	S0934028	0,8	5	S0931028	0,8	5	S0930028	1,2	6
35	S0934035	1,0	5	S0931035	1,0	5	S0930035	1,5	6
42	S0934042	1,2	5	S0931042	1,2	5	S0930042	1,5	6
54	S0934054	1,2	5	S0931054	1,2	5	S0930054	1,5	6
76,1	S0934076	2,0	6				S0930076	2,0	6
88,9	S0934088	2,0	6				S0930088	2,0	6
108	S09340A0	2,0	6				S09300A0	2,0	6



CARBON STEEL PIPE - EN 10305-3

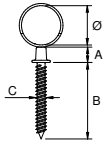
Ø (mm)	GALVANIZED OUTSIDE			GALVANIZED BOTH SIDES		
	CODE	THICKNESS (mm)	LENGTH (m)	CODE	THICKNESS (mm)	LENGTH (m)
15	Q0930015	1,2	6	Q0932015	1,2	6
18	Q0930018	1,2	6	Q0932018	1,2	6
22	Q0930022	1,2	6	Q0932022	1,2	6
28	Q0930028	1,5	6	Q0932028	1,5	6
35	Q0930035	1,5	6	Q0932035	1,5	6
42	Q0930042	1,5	6	Q0932042	1,5	6
54	Q0930054	1,5	6	Q0932054	1,5	6
76,1	Q0930076	2,0	6	Q0932076	2,0	6
88,9	Q0930088	2,0	6	Q0932088	2,0	6
108	Q09300A0	2,0	6	Q09320A0	2,0	6

CHECK PRICES AND AVAILABILITY.

FIXING SYSTEMS



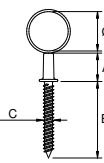
STAINLESS STEEL AISI 304 SINGLE WOOD-SCREW



Ø mm	A mm	B mm	C mm		CODE	
15	7	35	4,8	90	PF4S0015	
18	7	35	4,8	60	PF4S0018	
22	7	35	4,8	40	PF4S0022	
28	7	35	4,8	20	PF4S0028	



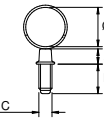
STAINLESS STEEL AISI 304 PLUS WOOD-SCREW



Ø mm	A mm	B mm	C mm		CODE	
15	13	35	4,8	75	PF4P0015	
18	13	35	4,8	50	PF4P0018	



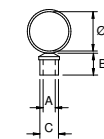
STAINLESS STEEL AISI 304 METRIC MALE PIPE CLAMP



Ø mm	A mm	B mm	C mm		CODE	
15	6	12	6	90	PF4M0015	
18	6	12	6	60	PF4M0018	
22	6	12	6	40	PF4M0022	
28	6	12	6	20	PF4M0028	



STAINLESS STEEL AISI 304 METRIC FEMALE PIPE CLAMP



Ø mm	A mm	B mm	C mm		CODE	
15	6	10	12	90	PF4F0015	
18	6	10	12	60	PF4F0018	
22	6	10	12	40	PF4F0022	
28	6	10	12	20	PF4F0028	

PRESSING MACHINES



CODE
PRG0000K



CODE
PRG0002K

TECHNICAL FEATURES	PRG0000K	PRG0002K
Bluetooth	NO	SI
OLED-Screen	NO	SI
Real time clock	NO	SI
Pressure sensor	NO	SI
Clamping force	32KN	32KN
Battery	230V	18V 4,0 Ah Li-Ion Makita
No. Of pressings / Charging time	-	400 (NS20)* / 22 Min
Weight with battery / without jaw	7,6 kg.	7,98 kg.
Head turning	350°	350°

JAW, ADAPTOR AND CHAIN

DIMENSION (mm)	CODE	DESCRIPTION	MACHINE
Ø 15	PRP00015	PRESS STANDARD JAWS 32KN Ø15mm	PRG0000K, PRG0002K
Ø 18	PRP00018	PRESS STANDARD JAWS 32KN Ø18mm	PRG0000K, PRG0002K
Ø 22	PRP00022	PRESS STANDARD JAWS 32KN Ø22mm	PRG0000K, PRG0002K
Ø 28	PRP00028	PRESS STANDARD JAWS 32KN Ø28mm	PRG0000K, PRG0002K
Ø 35	PRP00035	PRESS STANDARD JAWS 32KN Ø35mm	PRG0000K, PRG0002K
Ø 42 and 54	PRP04254	KIT 3 SEGMENT CHAIN 32KN Ø42-Ø54mm + ADAPTOR	PRG0000K, PRG0002K
Ø 76.1	PRP00076	4 SEGMENT CHAIN FOR PRESSMACHINE UAP432 Ø76.1mm	PRG0002K
Ø 88.9	PRP00088	4 SEGMENT CHAIN FOR PRESSMACHINE UAP432 Ø88.9mm	PRG0002K
Ø 108	PRP00108	4 SEGMENT CHAIN FOR PRESSMACHINE UAP432 Ø108mm	PRG0002K
Ø 76.1, 88.9 and 108	PRPADCAD	PRESS CHAIN ADAPTOR Ø76-Ø88-Ø108mm	-



CODE
PRP00015
PRP00018
PRP00022
PRP00028
PRP00035



CODE
PRPADCAD



CODE
PRP00076
PRP00088
PRP00108



CODE
PRP04254

CHECK PRICES AND AVAILABILITY.

TECHNICAL FEATURES

APPLICATION FIELDS	PIPE QUALITY	GASKET	COMMENTS	STAINLESS STEEL	CARBON STEEL
Drinking Water	A-316L	EPDM	A-304 chloride <200mg/l A-316 chloride <250 mg/l	Suitable	Not Suitable
Heating	A-304 A-316L	EPDM	Glycol solutions <25%. For higher percentage use FKM/FPM gaskets.	Suitable	Suitable Zinc Tube (Ext.)
Solar	A-316L	FKM	Max. Temp. 160°C, with tips of 180°C. Primary circuit according to DB HE of the CTE always in Stainless Steel.	Suitable with FKM gasket (green).	Suitable for secondary ring FKM (Green). Zinc Tube (Ext.)
Fuel (Diesel)	A-304 A-316L	FKM	Oleo-hydraulic installations, including Hydrocarbons except heavy diesel.	Suitable with FKM gasket (red).	Suitable with FKM gasket (red). Zinc Tube (Ext.)
Pressurised Air	A-304 A-316L	EPDM FKM	The system is not SILICON-FREE. The system is suitable for inert gases, not explosive or toxic (Nitrogen, Carbon Dioxide, Argon).	Suitable with EPDM Inst. Class 1-4 (ISO 8573-1). Inst. Class 5 use FKM ring (Green).	Zinc tube 2 sides (Ext./Int.). Suitable with EPDM Inst. Class 1-4 (ISO 8573-1). Inst. Class 5, use FKM ring (Green).
Rainwater	A-304 A-316L	EPDM	Select A-304 / A-316L depending on the location and external conditions of the installation.	Suitable	Not Suitable
Condensed Steam	A-304 A-316L	FKM	Max. Temp. 160°C, with tips of 180°C.	Suitable with FKM gasket (green).	Not Suitable
Industry	A-316L	EPDM FKM	Consult application	By order	By order
PCI (Bies / Sprayer)	A-304 A-316L	EPDM	PCI certified system for light and ordinary risks 1 to 4 (Cinemas, Theatres, Concert Halls, Parkings).	Suitable	Suitable with Zinc tube 2 sides (Ext./Int.)
Vacuum	A-304 A-316L	EPDM	The system is suitable for vacuum reduction to 200 mbar relative value (reduction atmospheric pressure to -0.8 bar).	Suitable	Suitable with Zinc tube 2 sides (Ext./Int.)
Well water	A-304 A-316L	EPDM	Never use well water, or spring water, or untreated water.	Not Suitable	Not Suitable

BRASS FITTINGS

The excellent resistance of brass to corrosion and high temperatures, make this alloy an ideal material for use in the distribution and supply of water.

ATUSA, following the policy of offering products according to the most demanding quality standards, presents a wide range of brass fittings and solutions for connecting different types of pipes.





BRASS
FITTINGS

◀▶ **ATUSA**

BRASS FITTINGS



BRASS FITTINGS FOR POLYETHYLENE PIPES – “GORBEA” TYPE

Brass compression fittings for polyethylene pipe, produced in CW617N brass according to EN 12165 standard.
 Compression system using EXTERNAL THREAD.
 Fitting produced according to EN 1254.4 standard.
 Thread according to ISO 7-1 standard.

The use of a reinforcement part is recommended in order to avoid leakage problems because of ovality reasons.
 Maximum working pressure: PN 25.
 Maximum working temperature: 60° C.
 DVGW certification for drinkable water.


DOUBLE STRAIGHT


Ø		CODE
20	50 10	LPGRD020
25	30 10	LPGRD025
32	20 5	LPGRD032
40	12 4	LPGRD040
50	8 4	LPGRD050
63	3	LPGRD063


MALE STRAIGHT


Ø		CODE
1/2" x 20	90 10	LPGRM320
3/4" x 25	60 10	LPGRM425
1" x 32	35 5	LPGRM532
1 1/4" x 40	20 5	LPGRM640
1 1/2" x 50	12 4	LPGRM750
2" x 63	6 3	LPGRM863


FEMALE STRAIGHT


Ø		CODE
1/2" x 20	80 10	LPGRH320
3/4" x 25	60 10	LPGRH425
1" x 32	30 5	LPGRH532
1 1/4" x 40	20 5	LPGRH640
1 1/2" x 50	8 4	LPGRH750
2" x 63	6 3	LPGRH863


DOUBLE ELBOW


Ø		CODE
20	40 10	LPGCD020
25	20 10	LPGCD025
32	15 5	LPGCD032
40	10 5	LPGCD040
50	5	LPGCD050
63	3	LPGCD063


MALE ELBOW


Ø		CODE
1/2" x 20	70 10	LPGCM320
3/4" x 25	40 10	LPGCM425
1" x 32	25 5	LPGCM532
1 1/4" x 40	10 5	LPGCM640
1 1/2" x 50	10 5	LPGCM750
2" x 63	4	LPGCM863


FEMALE ELBOW


Ø		CODE
1/2" x 20	70 10	LPGCH320
3/4" x 25	40 10	LPGCH425
1" x 32	25 5	LPGCH532
1 1/4" x 40	10 5	LPGCH640
1 1/2" x 50	8 4	LPGCH750
2" x 63	4	LPGCH863


TEE


Ø		CODE
20	30 10	LPGTD020
25	20 5	LPGTD025
32	10 5	LPGTD032
40	6	LPGTD040
50	4	LPGTD050
63	3	LPGTD063


FEMALE TEE


Ø		CODE
1/2" x 20	30 10	LPGTH320
3/4" x 25	20 5	LPGTH425
1" x 32	15 5	LPGTH532
1 1/4" x 40	6	LPGTH640
1 1/2" x 50	4	LPGTH750
2" x 63	3	LPGTH863



WALLPLATE ELBOW



Ø			CODE
1/2" x 20	40	10	LPGCP320
3/4" x 25	20	5	LPGCP425
1" x 32	15	5	LPGCP532



45° MALE ELBOW



Ø			CODE
1" x 32	25	5	LPGC4532
1 1/4" x 40	10	5	LPGC4540
1 1/2" x 50	10	5	LPGC4550



LONG DOUBLE STRAIGHT COUPLING



Ø			CODE
32	18	1	LPGRR032
40	10	1	LPGRR040
50	5	1	LPGRR050
63	3	1	LPGRR063



REINFORCEMENT PART



Ø			CODE
20	250	10	LPGVR020
25	150	10	LPGVR025
32	100	10	LPGVR032
40	50	10	LPGVR040
50	40	10	LPGVR050
63	20	1	LPGVR063

BRASS FITTINGS FOR POLYETHYLENE PIPES – “URBASA” TYPE



Brass compression fittings for polyethylene pipe, produced in CW617N brass according to EN 12165 standard.
DVGW certification (water PN 16 – gas PN 10).
Compression system using EXTERNAL THREAD.

Maximum working temperature: 60° C.
The use of a reinforcement part is recommended in order to avoid leakage problems because of ovality reasons.
General Applications: Cold and hot sanitary water.



DOUBLE STRAIGHT

Ø			CODE
20	40	10	LPERD020
25	20	10	LPERD025
32	15	5	LPERD032
40	12		LPERD040
50	8		LPERD050
63	3		LPERD063



MALE STRAIGHT

Ø			CODE
1/2" x 20	60	10	LPERM320
3/4" x 25	40	10	LPERM425
1" x 32	30	5	LPERM532
1 1/4" x 40	20		LPERM640
1 1/2" x 50	10		LPERM750
2" x 63	6		LPERM863



FEMALE STRAIGHT

Ø			CODE
1/2" x 20	60	10	LPERH320
3/4" x 25	40	10	LPERH425
1" x 32	20	5	LPERH532
1 1/4" x 40	20		LPERH640
1 1/2" x 50	10		LPERH750
2" x 63	6		LPERH863



DOUBLE ELBOW

Ø			CODE
20	40	10	LPECD020
25	20	10	LPECD025
32	15		LPECD032
40	10		LPECD040
50	5		LPECD050
63	3		LPECD063


MALE ELBOW

Ø			CODE
1/2" x 20	60	10	LPECM320
3/4" x 25	30	10	LPECM425
1" x 32	25		LPECM532
1 1/4" x 40	10		LPECM640
1 1/2" x 50	6		LPECM750
2" x 63	3		LPECM863


FEMALE ELBOW

Ø			CODE
1/2" x 20	60	10	LPECH320
3/4" x 25	30	10	LPECH425
1" x 32	25		LPECH532
1 1/4" x 40	10		LPECH640
1 1/2" x 50	6		LPECH750
2" x 63	3		LPECH863


TEE

Ø			CODE
20	30	10	LPETD020
25	15	5	LPETD025
32	10		LPETD032
40	6		LPETD040
50	4		LPETD050
63	2		LPETD063


MALE TEE

Ø			CODE
1/2" x 20	30	10	LPETH320
3/4" x 25	20	5	LPETH425
1" x 32	15		LPETH532
1 1/4" x 40	6		LPETH640
1 1/2" x 50	4		LPETH750
2" x 63	3		LPETH863


WALLPLATE ELBOW

Ø			CODE
1/2" x 20	30	10	LPECP320
3/4" x 25	20	5	LPECP425
1" x 32	15		LPECP532



BRASS FITTINGS FOR POLYETHYLENE PIPES – “RONCAL” TYPE

Brass compression fittings for polyethylene pipe.
 Compression system using internal thread.
 The use of a reinforcement part is recommended in order to avoid leakage problems because of ovality reasons.

Maximum working temperature: 60° C.
 ACS certification.
 Fittings are delivered with single label.
 General Applications: Cold and hot sanitary water.


DOUBLE STRAIGHT


Ø			CODE
20	40	10	LPORD020
25	30	10	LPORD025
32	20	5	LPORD032
40	15	5	LPORD040
50	9	3	LPORD050
63	4	2	LPORD063


MALE STRAIGHT


Ø			CODE
1/2" x 20	70	10	LPORM320
3/4" x 25	50	10	LPORM425
1" x 32	30	5	LPORM532
1 1/4" x 40	20	5	LPORM640
1 1/2" x 50	10	5	LPORM750
2" x 63	6	3	LPORM863



FEMALE STRAIGHT



Ø			CODE
1/2" x 20	70	10	LPORH320
3/4" x 25	50	10	LPORH425
1" x 32	30	5	LPORH532
1 1/4" x 40	20	5	LPORH640
1 1/2" x 50	10	5	LPORH750
2" x 63	6	3	LPORH863



DOUBLE ELBOW



Ø			CODE
20	40	10	LPOCD020
25	20	10	LPOCD025
32	15	5	LPOCD032
40	8	4	LPOCD040
50	4		LPOCD050
63	3		LPOCD063



MALE ELBOW



Ø			CODE
1/2" x 20	50	10	LPOCM320
3/4" x 25	40	10	LPOCM425
1" x 32	20	5	LPOCM532
1 1/4" x 40	12	4	LPOCM640
1 1/2" x 50	9	3	LPOCM750
2" x 63	4	2	LPOCM863



FEMALE ELBOW



Ø			CODE
1/2" x 20	50	10	LPOCH320
3/4" x 25	40	10	LPOCH425
1" x 32	20	5	LPOCH532
1 1/4" x 40	15	5	LPOCH640
1 1/2" x 50	10	5	LPOCH750
2" x 63	4		LPOCH863



TEE



Ø			CODE
20	20	10	LPOTD020
25	15	5	LPOTD025
32	15	5	LPOTD032
40	8	4	LPOTD040
50	4		LPOTD050
63	2		LPOTD063



FEMALE TEE



Ø			CODE
1/2" x 20	30	10	LPOTH320
3/4" x 25	20	5	LPOTH425
1" x 32	15	5	LPOTH532
1 1/4" x 40	8	4	LPOTH640
1 1/2" x 50	4		LPOTH750
2" x 63	3		LPOTH863



LONG DOUBLE STRAIGHT COUPLING



Ø			CODE
25	24	1	LPORR025
32	20	1	LPORR032
40	12	1	LPORR040
50	7	1	LPORR050



WALLPLATE ELBOW



Ø			CODE
1/2" x 20	40	10	LPOCP320
3/4" x 25	20	5	LPOCP425
1" x 32	15	5	LPOCP532

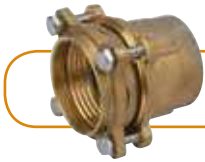
BRASS FITTINGS FOR POLYETHYLENE PIPES – “FLANGED” TYPE

DOUBLE STRAIGHT


Ø		CODE
75	4 1	LPGRD075
90	4 1	LPGRD090
110	2 1	LPGRD110


MALE STRAIGHT


Ø		CODE
2 1/2" x 75	6 1	LPGRMA75
3" x 90	5 1	LPGRMB90
4" x 110	3 1	LPGRM110


FEMALE STRAIGHT


Ø		CODE
2 1/2" x 75	6 1	LPGRHA75
3" x 90	5 1	LPGRHB90
4" x 110	3 1	LPGRH110


DOUBLE ELBOW


Ø		CODE
75	3 1	LPGCD075
90	1	LPGCD090
110	1	LPGCD110


MALE ELBOW


Ø		CODE
2 1/2" x 75	4 1	LPGCMA75
3" x 90	2 1	LPGCMB90
4" x 110	1	LPGCM110


FEMALE ELBOW


Ø		CODE
2 1/2" x 75	4 1	LPGCHA75
3" x 90	2 1	LPGCHB90
4" x 110	1	LPGCH110


TEE


Ø		CODE
75	2 1	LPGTD075
90	1	LPGTD090
110	1	LPGTD110


FEMALE TEE


Ø		CODE
2 1/2" x 75	2 1	LPGTHA75
3" x 90	1	LPGTHB90
4" x 110	1	LPGTH110

BRASS THREADED FITTINGS



2 90° BEND F/F



Ø	Box		CODE
1/2"	120	10	LS002003
3/4"	80	10	LS002004
1"	40	10	LS002005
1 1/4"	40	5	LS002006
1 1/2"	25	5	LS002007
2"	18	1	LS002008



90R 90° REDUCING ELBOW F/F



Ø	Box		CODE
1/2" x 3/8"	250	10	LS090032
3/4" x 1/2"	150	10	LS090043
1" x 1/2"	100	10	LS090053
1" x 3/4"	80	10	LS090054
1 1/4" x 1"	80	5	LS090065
1 1/2" x 1"	80	5	LS090075
1 1/2" x 1 1/4"	60	5	LS090076



130 TEE

Ø	CODE	Box		CODE ISO 7-1	Box
3/8"	LS130002	250	10		
1/2"	LS130003	150	10	LS130703	120 10
3/4"	LS130004	60	10	LS130704	60 10
1"	LS130005	40	10	LS130705	40 10
1 1/4"	LS130006	50	5	LS130706	20 5
1 1/2"	LS130007	40	5	LS130707	15 5
2"	LS130008	20	5	LS130708	10 5
2 1/2"	LS13000A	11	1		
3"	LS13000B	8	1		
4"	LS13000D	4	1		



180 CROSS



Ø	Box		CODE
3/8"	200	10	LS180002
1/2"	110	10	LS180003
3/4"	60	10	LS180004
1"	30	10	LS180005
1 1/4"	40	5	LS180006
1 1/2"	30	5	LS180007
2"	16	1	LS180008



90 90° ELBOW F/F

Ø	CODE	Box		CODE ISO 7-1	Box
3/8"	LS090002	350	10		
1/2"	LS090003	200	10	LS090703	150 10
3/4"	LS090004	100	10	LS090704	80 10
1"	LS090005	60	10	LS090705	40 10
1 1/4"	LS090006	80	5	LS090706	30 5
1 1/2"	LS090007	55	5	LS090707	25 5
2"	LS090008	30	5	LS090708	10 5
2 1/2"	LS09000A	16	1		
3"	LS09000B	8	1		
4"	LS09000D	4	1		



92 90° ELBOW M/F

Ø	CODE	Box		CODE ISO 7-1	Box
3/8"	LS092002	350	10		
1/2"	LS092003	200	10	LS092703	160 10
3/4"	LS092004	100	10	LS092704	80 10
1"	LS092005	60	10	LS092705	50 10
1 1/4"	LS092006	35	5	LS092706	30 5
1 1/2"	LS092007	25	5	LS092707	20 5
2"	LS092008	25	5	LS092708	10 5
2 1/2"	LS09200A	14	1		
3"	LS09200B	10	1		



130R REDUCING TEE



Ø	Box		CODE
3/4" x 1/2" x 3/4"	80	10	LS130434
1" x 1/2" x 1"	60	10	LS130535
1" x 3/4" x 1"	50	10	LS130545
1 1/4" x 1/2" x 1 1/4"	40	5	LS130636
1 1/4" x 3/4" x 1 1/4"	35	5	LS130646
1 1/4" x 1" x 1 1/4"	60	5	LS130656
1 1/2" x 1/2" x 1 1/2"	60	5	LS130737
1 1/2" x 3/4" x 1 1/2"	30	5	LS130747
1 1/2" x 1" x 1 1/2"	25	5	LS130757
1 1/2" x 1 1/4" x 1 1/2"	40	5	LS130767
2" x 1/2" x 2"	15	5	LS130838
2" x 3/4" x 2"	15	5	LS130848
2" x 1" x 2"	25	5	LS130858
2" x 1 1/4" x 2"	15	5	LS130868
2" x 1 1/2" x 2"	10	5	LS130878



180 SPECIAL CROSS

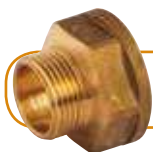
Ø		CODE
1 1/4" x 1/2"	40 1	LS180062



241 HEXAGONAL BUSHING M/F



Ø		CODE
1/4" M x 1/8" H	1400 10	LS241010
3/8" M x 1/8" H	1200 10	LS241020
3/8" M x 1/4" H	1200 10	LS241021
1/2" M x 1/4" H	500 10	LS241031
1/2" M x 3/8" H	500 10	LS241032
3/4" M x 3/8" H	300 10	LS241042
3/4" M x 1/2" H	300 10	LS241043
1" M x 1/2" H	250 10	LS241053
1" M x 3/4" H	250 10	LS241054
1 1/4" M x 1/2" H	150 10	LS241063
1 1/4" M x 3/4" H	150 10	LS241064
1 1/4" M x 1" H	150 10	LS241065
1 1/2" M x 1/2" H	140 10	LS241073
1 1/2" M x 3/4" H	140 10	LS241074
1 1/2" M x 1" H	140 10	LS241075
1 1/2" M x 1 1/4" H	140 10	LS241076
2" M x 1/2" H	60 5	LS241083
2" M x 3/4" H	60 5	LS241084
2" M x 1" H	60 5	LS241085
2" M x 1 1/4" H	60 5	LS241086
2" M x 1 1/2" H	60 5	LS241087
2 1/2" M x 1 1/4" H	40 1	LS2410A6
2 1/2" M x 1 1/2" H	40 1	LS2410A7
2 1/2" M x 2" H	40 1	LS2410A8
3" M x 2" H	20 1	LS2410B8
3" M x 2 1/2" H	20 1	LS2410BA
4" M x 2" H	20 1	LS2410D8
4" M x 2 1/2" H	20 1	LS2410DA
4" M x 3" H	20 1	LS2410DB



246 REDUCING EXTENSION M/F



Ø		CODE
3/8" M x 1/2" H	400 10	LS246023
1/2" M x 3/8" H	400 10	LS246032
1/2" M x 3/4" H	300 10	LS246034
1/2" M x 1" H	180 10	LS246035
1/2" M x 1 1/4" H	110 10	LS246036
3/4" M x 1/2" H	300 10	LS246043
3/4" M x 1" H	150 10	LS246045
1" M x 3/4" H	170 10	LS246054
1" M x 1 1/4" H	110 10	LS246056
1" M x 1 1/2" H	90 10	LS246057
1" M x 2" H	50 10	LS246058
1 1/4" M x 1 1/2" H	80 10	LS246067
1 1/4" M x 2" H	40 5	LS246068
1 1/2" M x 2" H	40 5	LS246078
2" M x 2 1/2" H	40 1	LS24608A



240 REDUCING SOCKET



Ø		CODE
1/2" x 3/8"	350 10	LS240032
3/4" x 1/2"	200 10	LS240043
1" x 1/2"	160 10	LS240053
1" x 3/4"	140 10	LS240054
1 1/4" x 1"	80 10	LS240065
1 1/2" x 1"	120 10	LS240075
1 1/2" x 1 1/4"	100 10	LS240076
2" x 1"	40 5	LS240085
2" x 1 1/4"	40 5	LS240086
2" x 1 1/2"	30 5	LS240087



245 HEXAGONAL REDUCED NIPPLE



Ø		CODE
1/4" x 1/8"	1100 10	LS245010
3/8" x 1/8"	900 10	LS245020
3/8" x 1/4"	900 10	LS245021
1/2" x 1/4"	750 10	LS245031
1/2" x 3/8"	700 10	LS245032
3/4" x 1/2"	400 10	LS245043
1" x 1/2"	280 10	LS245053
1" x 3/4"	250 10	LS245054
1 1/4" x 3/4"	110 10	LS245064
1 1/4" x 1"	100 10	LS245065
1 1/2" x 3/4"	80 10	LS245074
1 1/2" x 1"	120 10	LS245075
1 1/2" x 1 1/4"	100 10	LS245076
2" x 1"	100 5	LS245085
2" x 1 1/4"	100 5	LS245086
2" x 1 1/2"	100 5	LS245087
2 1/2" x 2"	30 1	LS2450A8
3" x 2"	20 1	LS2450B8
3" x 2 1/2"	20 1	LS2450BA



270 SOCKET

Ø	CODE		CODE ISO 7-1	
3/8"	LS270002	350 10		
1/2"	LS270003	250 10	LS270703	250 10
3/4"	LS270004	150 10	LS270704	130 10
1"	LS270005	100 10	LS270705	80 10
1 1/4"	LS270006	50 10	LS270706	50 5
1 1/2"	LS270007	70 10	LS270707	30 5
2"	LS270008	40 5	LS270708	15 5
2 1/2"	LS27000A	30 1		
3"	LS27000B	22 1		
4"	LS27000D	10 1		





280 NIPPLE

Ø	CODE		CODE ISO 7-1	
1/8"	LS280000	1200 10		
1/4"	LS280001	1000 10		
3/8"	LS280002	800 10		
1/2"	LS280003	350 10	LS280703	300 10
3/4"	LS280004	200 10	LS280704	200 10
1"	LS280005	150 10	LS280705	120 10
1 1/4"	LS280006	80 10	LS280706	50 5
1 1/2"	LS280007	60 10	LS280707	50 5
2"	LS280008	30 5	LS280708	25 5
2 1/2"	LS28000A	20 1		
3"	LS28000B	25 1		
4"	LS28000D	12 1		



290 PLUG



Ø		CODE
1/8"	1500 10	LS290000
1/4"	1300 10	LS290001
3/8"	1000 10	LS290002
1/2"	600 10	LS290003
3/4"	350 10	LS290004
1"	200 10	LS290005
1 1/4"	130 10	LS290006
1 1/2"	100 10	LS290007
2"	60 5	LS290008
2 1/2"	40 1	LS29000A
3"	24 1	LS29000B
4"	12 1	LS29000D



300 HEXAGONAL CAP



Ø		CODE
1/4"	1200 10	LS300001
3/8"	1000 10	LS300002
1/2"	450 10	LS300003
3/4"	300 10	LS300004
1"	200 10	LS300005
1 1/4"	150 10	LS300006
1 1/2"	120 10	LS300007
2"	70 5	LS300008



330 FLAT SEAT UNION F/F WITH PTFE SEAL



Ø		CODE
1/2"	100 10	LS330003
3/4"	70 10	LS330004
1"	50 10	LS330005
1 1/4"	30 5	LS330006
1 1/2"	20 5	LS330007
2"	20 5	LS330008



331 FLAT SEAT UNION M/F WITH PTFE SEAL



Ø		CODE
1/2"	100 10	LS331003
3/4"	60 10	LS331004
1"	40 10	LS331005
1 1/4"	25 5	LS331006
1 1/2"	20 5	LS331007
2"	20 5	LS331008



340 CONICAL SEAT UNION F/F



Ø		CODE
1/2"	100 10	LS340003
3/4"	70 10	LS340004
1"	50 10	LS340005
1 1/4"	30 5	LS340006
1 1/2"	20 5	LS340007
2"	20 5	LS340008
2 1/2"	14 1	LS34000A
3"	12 1	LS34000B



341 CONICAL SEAT UNION M/F



Ø		CODE
1/2"	100 10	LS341003
3/4"	60 10	LS341004
1"	40 10	LS341005
1 1/4"	25 5	LS341006
1 1/2"	20 5	LS341007
2"	20 5	LS341008
2 1/2"	10 1	LS34100A
3"	6 1	LS34100B



529 HEXAGONAL EXTENSION



Ø		CODE
3/8"	650 10	LS529002
1/2"	300 10	LS529003
3/4"	250 10	LS529004
1"	120 10	LS529005
1 1/4"	80 10	LS529006
1 1/2"	60 10	LS529007
2"	60 5	LS529008



529H HEXAGONAL EXTENSION ALLEN SCREW



Ø		CODE
1/2"	300 10	LS529H03



529L LONG HEXAGONAL EXTENSION



Ø		CODE
1/2"	270 10	LS529L03


315 HOSE NIPPLE


Ø			CODE
3/8" x 12 mm.	400	10	LS315002
1/2" x 14 mm.	250	10	LS315003
1/2" x 20 mm.	190	10	LS315203
3/4" x 20 mm.	150	10	LS315004
3/4" x 25 mm.	120	10	LS315254
1" x 20 mm.	100	10	LS315205
1" x 25 mm.	90	10	LS315255
1" x 30 mm.	80	10	LS315005
1 1/4" x 35 mm.	50	5	LS315006
1 1/4" x 40 mm.	40	5	LS315406
1 1/2" x 45 mm.	20	5	LS315007
1 1/2" x 50 mm.	20	5	LS315507
2" x 50 mm.	40	5	LS315508
2" x 60 mm.	30	5	LS315008


2-PC FITTING FOR WATER METER


Ø			CODE
1/2" M x 3/4" H	180	2	LS317034
1/2" M x 7/8" H	140	2	LS317035
3/4" M x 1" H	110	2	LS317045
1" M x 1 1/4" H	50	2	LS317056


DOUBLE RING THREADED


Ø			CODE
1" M x 3/4" H	500	10	LS317A05
7/8" M x 3/4" H	1.000	10	LS317A78


318 FIVE WAY TEE


Ø			CODE
1"x1"x1"x 92 mm.	60	5	LS318005
1"x1"x1"x 110 mm.	50	5	LS318L05


HOSE / HOSE CONNECTOR

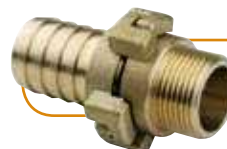

Ø			CODE
20 x 20	120	20	LSHH2020
25 x 25	80	20	LSHH2525
30 x 30	40	10	LSHH3030
35 x 35	20	10	LSHH3535
40 x 40	20	5	LSHH4040
45 x 45	25	5	LSHH4545
50 x 50	20	5	LSHH5050
60 x 60	15	5	LSHH6060
70 x 70	12	1	LSHH7070


TANK CONNECTOR


Ø			CODE
3/8"	180	10	LSTC0002
1/2"	120	10	LSTC0003
3/4"	80	10	LSTC0004
1"	50	10	LSTC0005
1 1/4"	30	10	LSTC0006
1 1/2"	25	5	LSTC0007
2"	25	5	LSTC0008
2 1/2"	24	1	LSTC000A
3"	12	1	LSTC000B


MALE THREAD / MALE THREAD


Ø			CODE
1/2" x 1/2"	200	20	LSTT0303
3/4" x 3/4"	120	20	LSTT0404
1" x 1"	80	10	LSTT0505
1 1/4" x 1 1/4"	40	10	LSTT0606
1 1/2" x 1 1/2"	50	5	LSTT0707
2" x 2"	25	5	LSTT0808
2 1/2" x 2 1/2"	20	1	LSTT0A0A


HOSE CONNECTOR MALE THREAD


Ø			CODE
1/2" x 20	160	20	LSHT2003
3/4" x 25	100	20	LSHT2504
1" x 30	50	10	LSHT3005
1 1/4" x 35	30	10	LSHT3506
1 1/4" x 40	30	5	LSHT4006
1 1/2" x 45	35	5	LSHT4507
2" x 60	20	5	LSHT6008
2 1/2" x 70	16	1	LSHT700A



EXTENSION - BRASS FINISH



Ø		CODE
3/8" M x 3/8" H x 30 mm.	360 10	LSB00302
3/8" M x 3/8" H x 50 mm.	250 5	LSB00502
3/8" M x 3/8" H x 100 mm.	180	LSB01002
1/2" M x 1/2" H x 10 mm.	450 10	LSB00103
1/2" M x 1/2" H x 20 mm.	380 10	LSB00203
1/2" M x 1/2" H x 30 mm.	240 10	LSB00303
1/2" M x 1/2" H x 40 mm.	200 10	LSB00403
1/2" M x 1/2" H x 50 mm.	160 5	LSB00503
1/2" M x 1/2" H x 60 mm.	140 5	LSB00603
1/2" M x 1/2" H x 70 mm.	130 5	LSB00703
1/2" M x 1/2" H x 80 mm.	140	LSB00803
1/2" M x 1/2" H x 100 mm.	105	LSB01003
3/4" M x 3/4" H x 20 mm.	210 10	LSB00204
3/4" M x 3/4" H x 40 mm.	130 10	LSB00404
3/4" M x 3/4" H x 50 mm.	100 5	LSB00504
3/4" M x 3/4" H x 60 mm.	90 5	LSB00604
3/4" M x 3/4" H x 80 mm.	96 1	LSB00804
3/4" M x 3/4" H x 100 mm.	78 1	LSB01004



EXTENSION - CHROME - PLATED FINISH

Ø		CODE
3/8" M x 3/8" H x 30 mm.	360 10	LSBC0302
3/8" M x 3/8" H x 50 mm.	250 5	LSBC0502
3/8" M x 3/8" H x 100 mm.	180	LSBC1002
1/2" M x 1/2" H x 20 mm.	380 10	LSBC0203
1/2" M x 1/2" H x 40 mm.	200 10	LSBC0403
1/2" M x 1/2" H x 50 mm.	160 5	LSBC0503
1/2" M x 1/2" H x 60 mm.	140 5	LSBC0603
1/2" M x 1/2" H x 80 mm.	140 1	LSBC0803
1/2" M x 1/2" H x 100 mm.	105 1	LSBC1003
3/4" M x 3/4" H x 40 mm.	130 10	LSBC0404
3/4" M x 3/4" H x 50 mm.	100 5	LSBC0504
3/4" M x 3/4" H x 80 mm.	96 1	LSBC0804
3/4" M x 3/4" H x 100 mm.	78 1	LSBC1004



NIPPLE - CHROME - PLATED FINISH

Ø		CODE
1/2" x 50 mm.	240 1	LSNC0503
1/2" x 60 mm.	160 1	LSNC0603
1/2" x 70 mm.	130 1	LSNC0703
1/2" x 100 mm.	100 1	LSNC1003
1/2" x 150 mm.	100 1	LSNC1503
3/4" x 50 mm.	140 1	LSNC0504
3/4" x 60 mm.	120 1	LSNC0604
3/4" x 70 mm.	100 1	LSNC0704
3/4" x 100 mm.	90 1	LSNC1004
3/4" x 150 mm.	60 1	LSNC1504
1" x 50 mm.	90 1	LSNC0505
1" x 100 mm.	45 1	LSNC1005
1" x 150 mm.	30 1	LSNC1505



NIPPLE - BRASS FINISH

Ø		CODE
1/2" x 50 mm.	240 5	LSN00503
1/2" x 60 mm.	160 5	LSN00603
1/2" x 70 mm.	160 5	LSN00703
1/2" x 80 mm.	140 2	LSN00803
1/2" x 90 mm.	140 2	LSN00903
1/2" x 100 mm.	100 2	LSN01003
1/2" x 150 mm.	100 2	LSN01503
1/2" x 200 mm.	70 2	LSN02003
1/2" x 250 mm.	70 2	LSN02503
3/4" x 50 mm.	140 5	LSN00504
3/4" x 60 mm.	120 5	LSN00604
3/4" x 70 mm.	100 5	LSN00704
3/4" x 80 mm.	90 3	LSN00804
3/4" x 90 mm.	90 3	LSN00904
3/4" x 100 mm.	90 2	LSN01004
3/4" x 150 mm.	70 2	LSN01504
3/4" x 200 mm.	50 2	LSN02004
3/4" x 250 mm.	40 2	LSN02504
1" x 50 mm.	90 5	LSN00505
1" x 60 mm.	80 5	LSN00605
1" x 70 mm.	60 5	LSN00705
1" x 80 mm.	90 3	LSN00805
1" x 90 mm.	70 2	LSN00905
1" x 100 mm.	60 2	LSN01005
1" x 125 mm.	50 2	LSN01255
1" x 150 mm.	44 2	LSN01505
1" x 200 mm.	30 2	LSN02005
1" x 250 mm.	30 2	LSN02505
1 1/4" x 50 mm.	45 5	LSN00506
1 1/4" x 60 mm.	45 5	LSN00606
1 1/4" x 70 mm.	40 5	LSN00706
1 1/4" x 80 mm.	40 2	LSN00806
1 1/4" x 90 mm.	36 3	LSN00906
1 1/4" x 100 mm.	30 2	LSN01006
1 1/4" x 125 mm.	26 2	LSN01256
1 1/4" x 150 mm.	20 2	LSN01506
1 1/4" x 200 mm.	26 2	LSN02006
1 1/4" x 250 mm.	26 2	LSN02506
1 1/2" x 100 mm.	76 2	LSN01007
1 1/2" x 150 mm.	50 2	LSN01507
1 1/2" x 200 mm.	34 2	LSN02007



SLIDING BARREL NIPPLE - BRASS FINISH

Ø		CODE
1/2" x 100 mm.	100 2	LSP01003
1/2" x 150 mm.	100 2	LSP01503
1/2" x 200 mm.	70 2	LSP02003
3/4" x 100 mm.	90 2	LSP01004
3/4" x 150 mm.	70 2	LSP01504
3/4" x 200 mm.	50 2	LSP02004
1" x 100 mm.	60 2	LSP01005
1" x 150 mm.	44 2	LSP01505
1" x 200 mm.	30 2	LSP02005
1" x 250 mm.	30 2	LSP02505

BRASS THREADED FITTINGS – CHROME-PLATED

90 90° ELBOW F/F


Ø		CODE
3/8"	350 1	LS090P02
1/2"	200 1	LS090P03
3/4"	100 1	LS090P04
1"	60 1	LS090P05


92 90° ELBOW M/F


Ø		CODE
3/8"	350 1	LS092P02
1/2"	200 1	LS092P03
3/4"	100 1	LS092P04
1"	60 1	LS092P05


130 TEE


Ø		CODE	€
3/8"	250 1	LS130P02	2,60
1/2"	150 1	LS130P03	3,40
3/4"	60 1	LS130P04	6,35
1"	40 1	LS130P05	9,00


241 HEXAGONAL BUSHING M/F


Ø		CODE
1/2" M x 3/8" H	500 1	LS241P32
3/4" M x 1/2" H	300 1	LS241P43


245 HEXAGONAL REDUCED NIPPLE M/M


Ø		CODE
1/2" x 3/8"	450 1	LS245P32
3/4" x 1/2"	400 1	LS245P43


270 SOCKET F/F


Ø		CODE
3/8"	350 1	LS270P02
1/2"	250 1	LS270P03
3/4"	150 1	LS270P04
1"	100 1	LS270P05


280 HEXAGONAL NIPPLE M/M


Ø		CODE
3/8"	400 1	LS280P02
1/2"	350 1	LS280P03
3/4"	200 1	LS280P04
1"	150 1	LS280P05


290 PLUG M


Ø		CODE
3/8"	500 1	LS290P02
1/2"	400 1	LS290P03
3/4"	350 1	LS290P04
1"	200 1	LS290P05


300 HEXAGONAL CAP F


Ø		CODE
3/8"	500 1	LS300P02
1/2"	450 1	LS300P03
3/4"	300 1	LS300P04
1"	200 1	LS300P05


529 HEXAGONAL EXTENSION


Ø		CODE
3/8"	400 1	LS529P02
1/2"	300 1	LS529P03
3/4"	250 1	LS529P04
1"	120 1	LS529P05

BRASS THREADED FITTINGS – NICKEL-PLATED



Ø	Box		CODE
3/8"	350	10	LS090C02
1/2"	200	10	LS090C03
3/4"	100	10	LS090C04
1"	60	10	LS090C05



Ø	Box		CODE
3/4"	100	10	LS092C04
1"	60	10	LS092C05



Ø	Box		CODE
3/4"	60	10	LS130C04
1"	40	10	LS130C05



Ø	Box		CODE
1/2" M x 3/8" H	500	10	LS241C32
3/4" M x 1/2" H	300	10	LS241C43



Ø	Box		CODE
3/8"	350	10	LS270C02
1/2"	250	10	LS270C03
3/4"	150	10	LS270C04
1"	100	10	LS270C05



Ø	Box		CODE
3/4"	200	10	LS280C04
1"	150	10	LS280C05



Ø	Box		CODE
3/8"	500	10	LS290C02
1/2"	400	10	LS290C03
3/4"	350	10	LS290C04
1"	200	10	LS290C05



Ø	Box		CODE
3/4"	250	10	LS529C04
1"	120	10	LS529C05



Ø	Box		CODE
1/2"	300	10	LS529HC3

SOLDERING BRASS FITTINGS FOR COPPER PIPES

90 90° ELBOW F/CU


Ø			CODE
1/2" x 12	420	20	LSR90123
1/2" x 15	400	20	LSR90153
1/2" x 18	270	15	LSR90183
1/2" x 22	210	15	LSR90223
3/4" x 18	200	10	LSR90184
3/4" x 22	150	10	LSR90224
3/4" x 28	100	10	LSR90284
1" x 28	80	10	LSR90285


92 90° ELBOW M/CU

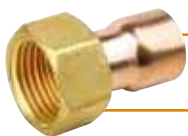

Ø			CODE
1/2" x 12	340	20	LSR92123
1/2" x 15	320	20	LSR92153
1/2" x 18	270	15	LSR92183
1/2" x 22	210	10	LSR92223
3/4" x 22	160	10	LSR92224


243 STRAIGHT M/CU


Ø			CODE
1/2" x 12	600	20	LSR43123
1/2" x 15	600	20	LSR43153
1/2" x 18	450	15	LSR43183
3/4" x 15	375	15	LSR43154
3/4" x 18	300	10	LSR43184
3/4" x 22	300	10	LSR43224
3/4" x 28	220	10	LSR43284
1" x 22	200	10	LSR43225
1" x 28	180	10	LSR43285
1 1/2" x 42	60	5	LSR43427


270 STRAIGHT F/CU


Ø			CODE
1/2" x 12	560	20	LSR27123
1/2" x 15	540	20	LSR27153
1/2" x 18	420	15	LSR27183
1/2" x 22	300	15	LSR27223
3/4" x 15	330	15	LSR27154
3/4" x 18	300	10	LSR27184
3/4" x 22	230	10	LSR27224
3/4" x 28	170	10	LSR27284
1" x 22	170	10	LSR27225
1" x 28	130	10	LSR27285
1 1/4" x 35	70	5	LSR27356
1 1/2" x 42	45	5	LSR27427


359 STRAIGHT TAP CONNECTOR


Ø			CODE
1/2" x 12	420	20	LSR59123
1/2" x 15	380	20	LSR59153
1/2" x 18	330	15	LSR59183
1/2" x 22	255	15	LSR59223
3/4" x 15	255	15	LSR59154
3/4" x 18	230	10	LSR59184
3/4" x 22	180	10	LSR59224
1" x 18	160	10	LSR59185
1" x 22	130	10	LSR59225
1" x 28	110	10	LSR59285


130 TEE F/CU


Ø			CODE
1/2" x 15	260	20	LSR13153
1/2" x 18	210	15	LSR13183
1/2" x 22	120	15	LSR13223
3/4" x 28	70	10	LSR13284


WALLPLATE F/CU


Ø			CODE
1/2" x 15	240	20	LSRCP153
1/2" x 22	135	15	LSRCP223
3/4" x 18	140	10	LSRCP184
3/4" x 22	120	10	LSRCP224

REPAIR PARTS

Brass sealing and intake clamps.
Suitable for copper pipes.
Pipes according to DIN 1786.
Rubber: EPDM.



SEALING CLAMP



Ø			CODE
10	160	10	VS700010
12	140	10	VS700012
14	100	10	VS700014
15	100	10	VS700015
16	90	10	VS700016
18	90	10	VS700018
20	80	10	VS700020
22	60	10	VS700022
25	50	5	VS700025
28	40	5	VS700028
32	35	5	VS700032
35	30	5	VS700035
42	20	5	VS700042
54	10	5	VS700054
63	7	1	VS700063



INTAKE CLAMP



Ø			CODE
1/2" x 10 mm.	120	10	VS701010
1/2" x 12 mm.	100	10	VS701012
1/2" x 14 mm.	90	10	VS701014
1/2" x 15 mm.	90	10	VS701015
1/2" x 16 mm.	80	10	VS701016
1/2" x 18 mm.	80	10	VS701018
1/2" x 20 mm.	70	10	VS701020
1/2" x 22 mm.	60	10	VS701022
3/4" x 25 mm.	40	5	VS701025
3/4" x 28 mm.	30	5	VS701028
3/4" x 32 mm.	25	5	VS701032
3/4" x 35 mm.	25	5	VS701035
1" x 42 mm.	15	5	VS701042
1 1/4" x 54 mm.	10	5	VS701054

BRASS COMPRESSION FITTINGS FOR COPPER PIPES

KIWA certified.

GASTEC certified.

Maximum working pressure: PN 16° C at 30° C.

Maximum working temperature: 120° C.

Uses: Suitable for the supply of hot and cold water, heating installations, gas distribution (domestic installations) and liquid fuel.



MALE STRAIGHT



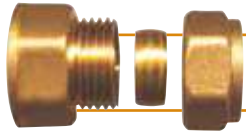
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1/2" x 12	150	10	TAP00023
1/2" x 15	100	10	TAP10053
1/2" x 16	100	10	TAP10063
1/2" x 18	100	10	TAP10073
1/2" x 22	70	10	TAP00093
3/4" x 15	80	10	TAP10054
3/4" x 18	70	10	TAP10074
3/4" x 22	50	10	TAP10094
1" x 22	50	10	TAP10095
1" x 28	30	5	TAP100B5



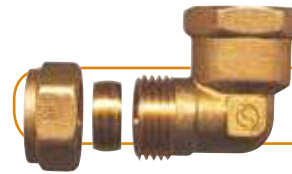
DOUBLE STRAIGHT



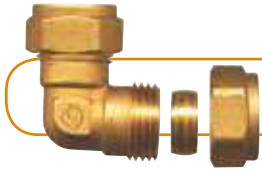
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15 x 12	100	10	TAP00152
15 x 15	100	10	TAP10155
16 x 16	100	10	TAP10166
18 x 18	100	10	TAP10177
22 x 15	60	10	TAP00195
22 x 22	50	10	TAP00199
28 x 28	30	5	TAP001BB


FEMALE STRAIGHT

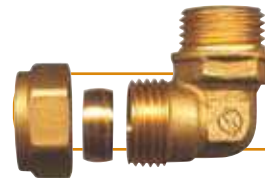

Ø			CODE
3/8" x 10	200	10	TAP00212
3/8" x 12	150	10	TAP00222
3/8" x 15	120	10	TAP00252
1/2" x 12	150	10	TAP00223
1/2" x 15	100	10	TAP10253
1/2" x 16	100	10	TAP10263
1/2" x 18	100	10	TAP10273
1/2" x 22	60	10	TAP00293
3/4" x 15	80	10	TAP00254
3/4" x 18	60	10	TAP10274
3/4" x 22	50	10	TAP00294
1" x 22	50	10	TAP10295
1" x 28	30	5	TAP002B5


FEMALE ELBOW


Ø			CODE
3/8" x 12	100	10	TAP00522
1/2" x 12	100	10	TAP00523
1/2" x 15	80	10	TAP00553
1/2" x 16	60	10	TAP10563
1/2" x 18	70	10	TAP10573
3/4" x 15	50	10	TAP00554
3/4" x 22	50	10	TAP00594
1" x 28	30	5	TAP005B5


DOUBLE ELBOW

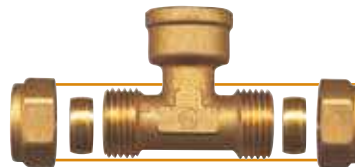

Ø			CODE
12 x 12	100	10	TAP00322
15 x 15	100	10	TAP10355
16 x 16	70	10	TAP10366
18 x 18	60	10	TAP10377
22 x 22	40	10	TAP00399
28 x 28	20	5	TAP003BB


MALE ELBOW

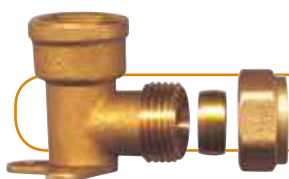

Ø			CODE
3/8" x 12	150	10	TAP00422
1/2" x 12	120	10	TAP00423
1/2" x 15	100	10	TAP10453
1/2" x 18	60	10	TAP10473
3/4" x 22	40	10	TAP10494
1" x 28	30	5	TAP104B5


TEE


Ø			CODE
12 x 12 x 12	100	10	TAP07222
15 x 15 x 15	60	10	TAP17555
16 x 16 x 16	40	10	TAP17666
18 x 18 x 18	50	10	TAP17777
22 x 15 x 22	30	10	TAP07959
22 x 22 x 22	20	10	TAP07999
28 x 28 x 28	15	5	TAP07BBB


FEMALE TEE


Ø			CODE
1/2" x 15 x 15	50	10	TAP19535
1/2" x 22 x 22	30	10	TAP09939
3/4" x 22 x 22	30	10	TAP19949


**WALLPLATE
ELBOW**

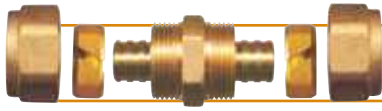

Ø			CODE
1/2" x 15	40	10	TAP00653

BRASS COMPRESSION FITTINGS FOR PEX PIPES

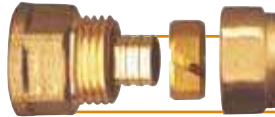
Maximum working pressure: PN 16 at 60° C.

Maximum working temperature: 95° C.

Uses: Suitable to supply non-food liquids under pressure at lower temperature than 80° C (f.e. heating installations) and food liquids and sanitary (f.e. hygienic-sanitary installations).



DOUBLE STRAIGHT

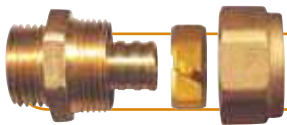


FEMALE STRAIGHT



Ø		CODE
12 x 12 x 2.0	100 10	TR8RD012
15 x 15 x 2.5	100 10	TR8RD015
16 x 16 x 2.0	100 10	TR9RD016
16 x 16 x 2.2	100 10	TR8RD016
18 x 18 x 2.5	80 10	TR8RD018
20 x 20 x 2.0	60 10	TR9RD020
20 x 20 x 2.8	60 10	TR8RD020
22 x 22 x 3.0	50 5	TR8RD022
25 x 25 x 2.3	40 5	TR9RD025
25 x 25 x 3.5	40 10	TR8RD025
32 x 32 x 3.0	25 1	TR9RD032

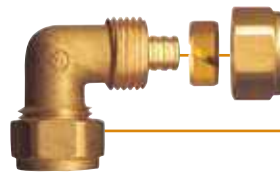
Ø		CODE
3/8" x 12 x 2.0	150 10	TR8RH122
1/2" x 12 x 2.0	150 10	TR9RH123
1/2" x 15 x 2.5	150 10	TR8RH153
1/2" x 16 x 2.0	150 10	TR9RH163
1/2" x 16 x 2.2	150 10	TR8RH163
1/2" x 18 x 2.5	100 10	TR8RH183
1/2" x 20 x 2.0	80 10	TR9RH203
1/2" x 20 x 2.8	80 10	TR8RH203
1/2" x 22 x 3.0	60 10	TR8RH223
3/4" x 16 x 2.0	100 10	TR9RH164
3/4" x 16 x 2.2	100 10	TR8RH164
3/4" x 18 x 2.5	80 10	TR8RH184
3/4" x 20 x 2.0	80 10	TR9RH204
3/4" x 20 x 2.8	80 10	TR8RH204
3/4" x 22 x 3.0	70 10	TR8RH224
3/4" x 25 x 2.3	50 10	TR9RH254
3/4" x 25 x 3.5	50 5	TR8RH254
3/4" x 32 x 3.0	40 5	TR9RH324
1" x 25 x 2.3	40 5	TR9RH255(1)
1" x 25 x 3.5	40 5	TR8RH255
1" x 32 x 3.0	40 1	TR9RH325



MALE STRAIGHT



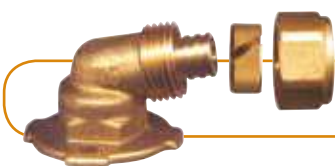
Ø		CODE
3/8" x 12 x 2.0	170 10	TR8RM122
1/2" x 12 x 2.0	170 10	TR8RM123
1/2" x 15 x 2.5	160 10	TR8RM153
1/2" x 16 x 2.0	160 10	TR9RM163
1/2" x 16 x 2.2	160 10	TR8RM163
1/2" x 18 x 2.5	100 10	TR8RM183
1/2" x 20 x 2.0	100 10	TR9RM203
1/2" x 20 x 2.8	100 10	TR8RM203
1/2" x 22 x 3.0	60 10	TR8RM223
3/4" x 16 x 2.0	120 10	TR9RM164
3/4" x 16 x 2.2	120 10	TR8RM164
3/4" x 18 x 2.5	100 10	TR8RM184
3/4" x 20 x 2.0	80 10	TR9RM204
3/4" x 20 x 2.8	80 10	TR8RM204
3/4" x 22 x 3.0	60 10	TR8RM224
3/4" x 25 x 2.3	50 10	TR9RM254
3/4" x 25 x 3.5	50 10	TR8RM254
3/4" x 32 x 3.0	40 5	TR9RM324
1" x 25 x 2.3	40 5	TR9RM255
1" x 25 x 3.5	40 10	TR8RM255
1" x 32 x 3.0	40 1	TR9RM325



DOUBLE ELBOW



Ø		CODE
12 x 12 x 2.0	80 10	TR9CD012
15 x 15 x 2.5	80 10	TR8CD015
16 x 16 x 2.0	80 10	TR9CD016
16 x 16 x 2.2	80 10	TR8CD016
18 x 18 x 2.5	60 10	TR8CD018
20 x 20 x 2.0	50 10	TR9CD020
20 x 20 x 2.8	50 10	TR8CD020
22 x 22 x 3.0	40 10	TR8CD022
25 x 25 x 2.3	20 5	TR9CD025
25 x 25 x 3.5	20 5	TR8CD025 (1)
32 x 32 x 3.0	20 1	TR9CD032



100° ELBOW



Ø		CODE
1/2" x 16 x 2.0	70 10	TR9A0163
1/2" x 16 x 2.2	70 10	TR8A0163

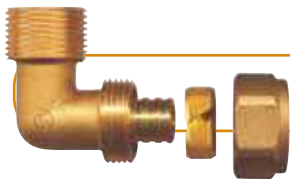


105° ELBOW

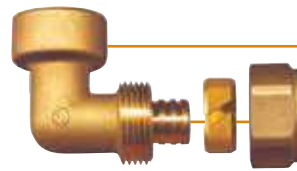


Ø		CODE
1/2" x 16 x 2.0	70 10	TR9A5163

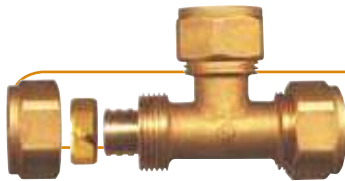
(1) Available while stocks last


MALE ELBOW

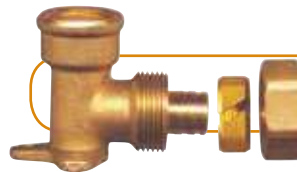

Ø		CODE
1/2" x 15 x 2.5	100 10	TR8CM153
1/2" x 16 x 2.0	100 10	TR9CM163
1/2" x 16 x 2.2	100 10	TR8CM163
1/2" x 18 x 2.5	80 10	TR8CM183
1/2" x 20 x 2.0	60 10	TR9CM203
1/2" x 20 x 2.8	60 10	TR8CM203(1)
3/4" x 16 x 2.0	70 10	TR9CM164
3/4" x 16 x 2.2	70 10	TR8CM164
3/4" x 18 x 2.5	70 10	TR8CM184
3/4" x 20 x 2.0	50 10	TR9CM204
3/4" x 20 x 2.8	50 10	TR8CM204
3/4" x 22 x 3.0	50 10	TR8CM224
3/4" x 25 x 2.3	30 5	TR9CM254
3/4" x 25 x 3.5	30 5	TR8CM254
3/4" x 32 x 3.0	20 5	TR9CM324
1" x 25 x 2.3	30 5	TR9CM255
1" x 25 x 3.5	30 5	TR8CM255
1" x 32 x 3.0	20 1	TR9CM325


FEMALE ELBOW


Ø		CODE
3/8" x 15 x 2.5	80 10	TR8CH152(1)
1/2" x 12 x 2.0	80 10	TR8CH123
1/2" x 15 x 2.5	80 10	TR8CH153
1/2" x 16 x 2.0	80 10	TR9CH163
1/2" x 16 x 2.2	80 10	TR8CH163
1/2" x 18 x 2.5	70 10	TR8CH183
1/2" x 20 x 2.0	60 10	TR9CH203
1/2" x 20 x 2.8	60 10	TR8CH203
1/2" x 22 x 3.0	40 10	TR8CH223
3/4" x 16 x 2.0	40 10	TR9CH164
3/4" x 16 x 2.2	40 10	TR8CH164
3/4" x 18 x 2.5	40 10	TR8CH184
3/4" x 20 x 2.0	40 10	TR9CH204
3/4" x 20 x 2.8	40 10	TR8CH204
3/4" x 22 x 3.0	40 10	TR8CH224
3/4" x 25 x 2.3	30 5	TR9CH254
3/4" x 25 x 3.5	30 5	TR8CH254
3/4" x 32 x 3.0	20 5	TR9CH324(1)
1" x 25 x 2.3	30 5	TR9CH255
1" x 25 x 3.5	30 5	TR8CH255
1" x 32 x 3.0	20 1	TR9CH325


TEE

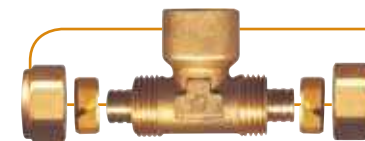

Ø		CODE
12 x 12 x 12 x 2.0	60 10	TR9TD012(1)
15 x 15 x 15 x 2.5	60 10	TR8TD015
16 x 16 x 16 x 2.0	60 10	TR9TD016
16 x 16 x 16 x 2.2	60 10	TR8TD016
18 x 18 x 18 x 2.5	40 10	TR8TD018
20 x 20 x 20 x 2.0	30 10	TR9TD020
22 x 22 x 22 x 3.0	20 5	TR8TD022
25 x 25 x 25 x 2.3	20 5	TR9TD025
32 x 32 x 32 x 3.0	10 1	TR9TD032(1)


WALLPLATE ELBOW


Ø		CODE
1/2" x 15 x 2.5	50 10	TR8CP153 (1)
1/2" x 16 x 2.0	50 10	TR9CP163
1/2" x 16 x 2.2	50 10	TR8CP163
1/2" x 18 x 2.5	50 10	TR8CP183
1/2" x 20 x 2.0	40 10	TR9CP203
1/2" x 20 x 2.8	40 10	TR8CP203


MALE TEE


Ø		CODE
1/2" x 16 x 2.0	60 10	TR9TM163
1/2" x 20 x 2.0	30 10	TR9TM203
1/2" x 20 x 2.8	30 10	TR8TM203
1/2" x 22 x 3.0	30 10	TR8TM223
3/4" x 16 x 2.2	40 10	TR8TM164
3/4" x 20 x 2.0	30 10	TR9TM204
3/4" x 20 x 2.8	30 10	TR8TM204
3/4" x 25 x 2.3	20 10	TR9TM254
3/4" x 25 x 3.5	20 5	TR8TM254
3/4" x 32 x 3.0	20 5	TR9TM324
1" x 32 x 3.0	10 1	TR9TM325


FEMALE TEE


Ø		CODE
1/2" x 15 x 2.5	50 10	TR8TH153
1/2" x 16 x 2.0	50 10	TR9TH163
1/2" x 16 x 2.2	50 10	TR8TH163
1/2" x 18 x 2.5	40 10	TR8TH183
1/2" x 20 x 2.0	30 10	TR9TH203
1/2" x 22 x 3.0	30 10	TR8TH223
3/4" x 16 x 2.0	30 10	TR9TH164
3/4" x 16 x 2.2	30 10	TR8TH164
3/4" x 20 x 2.0	30 10	TR9TH204
3/4" x 20 x 2.8	30 10	TR8TH204
3/4" x 22 x 3.0	30 5	TR8TH224
3/4" x 25 x 2.3	20 5	TR9TH254
3/4" x 25 x 3.5	20 5	TR8TH254(1)
3/4" x 32 x 3.0	15 5	TR9TH324
1" x 25 x 2.3	20 5	TR9TH255
1" x 25 x 3.5	20 5	TR8TH255
1" x 32 x 3.0	15 1	TR9TH325

(1) Available while stocks last



100° AND 105° PLASTIC BOX FOR ELBOW

Ø		CODE
ÚNICA	400 1	TR9PL100

BRASS COMPRESSION FITTINGS FOR MULTILAYER PIPES

Maximum working pressure: PN 10 at 60° C.

Maximum working temperature: 95° C.

Fittings suitable for PEX-AL-PEX pipes.

Uses: Suitable to supply non-food liquids under pressure at lower temperature than 95° C (f.e. heating installations) and food liquids and sanitary (f.e. waste waters).





DOUBLE STRAIGHT

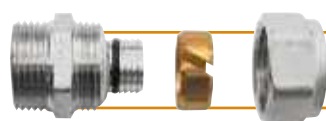


FEMALE STRAIGHT

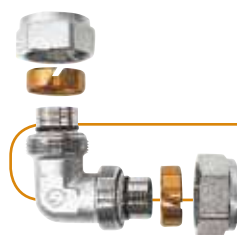


Ø		CODE
16 x 16	100 10	TM011616
18 x 18	80 10	TM011818
20 x 20	60 10	TM012020
26 x 26	40 5	TM012626
32 x 32	25 5	TM013232

Ø		CODE
1/2" x 16	150 10	TM021603
1/2" x 18	100 10	TM021803
1/2" x 20	80 10	TM022003
3/4" x 16	100 10	TM021604
3/4" x 18	80 10	TM021804
3/4" x 20	80 10	TM022004
3/4" x 26	50 5	TM022604
1" x 26	40 5	TM022605
1" x 32	40 5	TM023205





MALE STRAIGHT

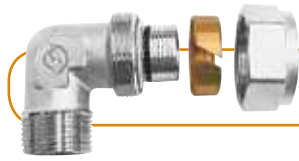


DOUBLE ELBOW



Ø		CODE
1/2" x 16	160 10	TM001603
1/2" x 18	100 10	TM001803
1/2" x 20	100 10	TM002003
3/4" x 16	120 10	TM001604
3/4" x 18	100 10	TM001804
3/4" x 20	80 10	TM002004
3/4" x 26	50 5	TM002604
1" x 26	40 5	TM002605
1" x 32	40 1	TM003205

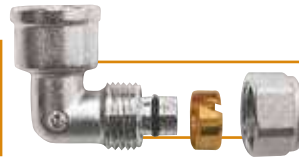
Ø		CODE
16 x 16	80 10	TM031616
18 x 18	50 10	TM031818
20 x 20	50 10	TM032020
26 x 26	20 5	TM032626
32 x 32	20 1	TM033232



MALE ELBOW



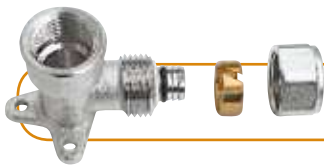
Ø		CODE	
1/2" x 16	100 10	TM041603	
1/2" x 18	80 10	TM041803	
1/2" x 20	60 10	TM042003	
3/4" x 16	70 10	TM041604	
3/4" x 18	70 10	TM041804	
3/4" x 20	50 10	TM042004	
3/4" x 26	30 5	TM042604	
1" x 26	30 5	TM042605	
1" x 32	30 1	TM043205	



FEMALE ELBOW



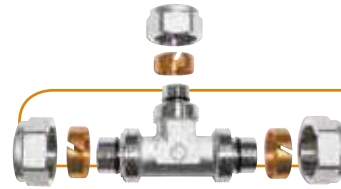
Ø		CODE	
1/2" x 16	80 10	TM051603	
1/2" x 18	70 10	TM051803	
1/2" x 20	60 10	TM052003	
3/4" x 16	40 10	TM051604	
3/4" x 18	40 10	TM051804	
3/4" x 20	40 10	TM052004	
3/4" x 26	30 5	TM052604	
1" x 26	30 5	TM052605	
1" x 32	20 1	TM053205	



WALLPLATE ELBOW



Ø		CODE	
1/2" x 16	50 10	TM061603	
1/2" x 18	50 10	TM061803	



TEE



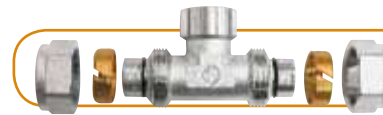
Ø		CODE	
16 x 16 x 16	60 10	TM070666	
18 x 18 x 18	30 10	TM070777	
20 x 20 x 20	30 10	TM070888	
26 x 26 x 26	20 5	TM072666	
32 x 32 x 32	10 1	TM070CCC	



MALE TEE



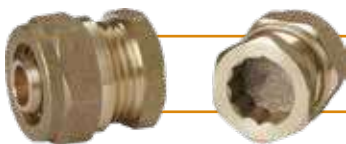
Ø		CODE	
1/2" x 16	60 10	TM080636	
1/2" x 18	40 10	TM080737	
1/2" x 20	30 10	TM080838	
3/4" x 16	40 10	TM080646	
3/4" x 18	40 10	TM080747	
3/4" x 20	30 10	TM080848	
3/4" x 26	20 5	TM082646	
1" x 26	15 5	TM082656	
1" x 32	10 1	TM080C5C	



FEMALE TEE



Ø		CODE	
1/2" x 16	50 10	TM090636	
1/2" x 18	40 10	TM090737	
1/2" x 20	30 10	TM090838	
3/4" x 16	30 10	TM090646	
3/4" x 18	30 10	TM090747	
3/4" x 20	30 10	TM090848	
3/4" x 26	20 5	TM092646	
1" x 26	20 5	TM092656	
1" x 32	10 1	TM090C5C	



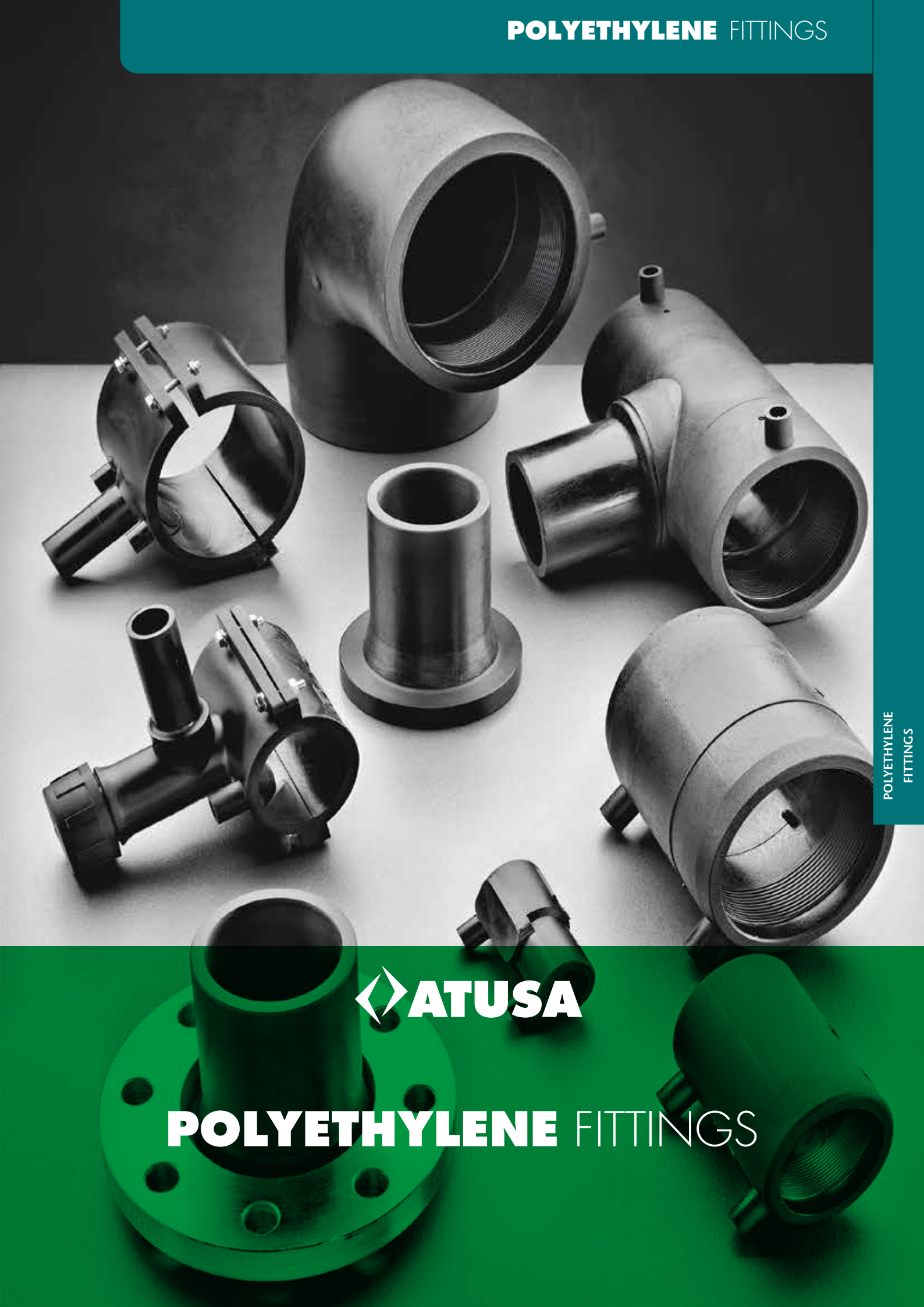
PLUG FOR MULTILAYER PIPE



Ø		CODE	
16 x 2,0	300 10	TMP1603	



POLYETHYLENE FITTINGS



ATUSA Electrofusion Fittings are used for the connection of PE pipes. Gas lines up to 10 bar and Water lines up to 16 bar.

Fields of application: Water and gas distribution, irrigation systems, industrial pressure applications, transport lines, house connections...

TECHNICAL DATA

Material:

The raw material complies with the requirements of EN 1555 and EN 12201 standards. Electrofusion and spigot fittings are made of PE 100-RC.

Raw material technical features:

Parameter	Description	Unit	Test Method
Density	≥930	kg/m ³	ISO 1183-1
Melt-flow index (MFR)	from 0,2 a 0,4	g/10 min	EN ISO 1133
Oxidation induction time	≥20	min	ISO 11357-6
Colour	BLACK		

Geometrical characteristic:

Measurements of dimensions comply requirements of EN ISO 3126 standard.

All dimensions of fittings comply requirements of EN 1555 and EN 12201 standards.

Resistance to internal pressure:

Gas:

Maximum operating pressure (MOP)
10 bar – for SDR11
10 bar – for SDR17

Water:

PN16 for SDR11
PN10 for SDR17

Fusion:

Fusion of the fitting can be made using:

- 1) Automatic (with barcode reader).
- 2) Manual (entering parameters from the label).
- 3) Electrofusion fittings can weld tubes PE100, PE 100-RC and PE 80.

Marking:

Data	Description
Standard number	EN 12201 PN: EN 1555
Nominal diameter of the pipe	P.ej. 110
Material	P.ej. PE 100-RC
SDR of the fitting	SDR 11
SDR fusion range	SDR 11 - SDR 17
Applications	gas/water
Date of manufacture	P.ej. 01/2021

ELECTROFUSION FITTINGS



ASSEMBLY INSTRUCTIONS

SPIGOT FITTINGS



ASSEMBLY INSTRUCTIONS

ELECTROFUSION FITTINGS



COUPLER



Ø		CODE
20	1	E2700020
25	1	E2700025
32	1	E2700032
40	1	E2700040
50	1	E2700050
63	1	E2700063
75	1	E2700075
90	1	E2700090
110	1	E2700110
125	1	E2700125
140	1	E2700140
160	1	E2700160
180	1	E2700180
200	1	E2710200
200	1	E2700200
225	1	E2710225
225	1	E2700225
250	1	E2710250
250	1	E2700250
280	1	E2710280
280	1	E2700280
315	1	E2710315
315	1	E2700315
355	1	E2710355
400	1	E2710400
450	1	E2710450

SDR 11
SDR 17



REDUCER



Ø		CODE
25/20	1	ER002520
32/20	1	ER003220
32/25	1	ER003225
40/25	1	ER004025
40/32	1	ER004032
50/25	1	ER005025
50/32	1	ER005032
50/40	1	ER005040
63/25	1	ER006325
63/32	1	ER006332
63/40	1	ER006340
63/50	1	ER006350
75/63	1	ER007563
90/63	1	ER009063
90/75	1	ER009075
110/63	1	ER011063
110/75	1	ER011075
110/90	1	ER011090
125/90	1	ER012590
125/110	1	ER125110
160/90	1	ER016090
160/110	1	ER160110
160/125	1	ER160125
200/160	1	ER200160



90° ELBOW



Ø		CODE
20	1	E0900020
25	1	E0900025
32	1	E0900032
40	1	E0900040
50	1	E0900050
63	1	E0900063
75	1	E0900075
90	1	E0900090
110	1	E0900110
125	1	E0900125
140	1	E0900140
160	1	E0900160
200	1	E0900200



45° ELBOW



Ø		CODE
20	1	E1200020
25	1	E1200025
32	1	E1200032
40	1	E1200040
50	1	E1200050
63	1	E1200063
75	1	E1200075
90	1	E1200090
110	1	E1200110
125	1	E1200125
140	1	E1200140
160	1	E1200160



Ø		CODE
250	1	E0900250
315	1	E0900315



Ø		CODE
200	1	E1200200
250	1	E1200250
315	1	E1200315

OTHER SIZES - ON REQUEST



TEE



Ø		CODE
20/20	1	ET002020
25/25	1	ET002525
32/32	1	ET003232
40/40	1	ET004040
50/50	1	ET005050
63/63	1	ET006363
75/75	1	ET007575
90/90	1	ET009090
110/110	1	ET110110
125/125	1	ET125125
160/160	1	ET160160



REDUCING TEE



Ø		CODE
25/20	1	ET002520
32/20	1	ET003220
32/25	1	ET003225
40/25	1	ET004025
40/32	1	ET004032
50/25	1	ET005025
50/32	1	ET005032
50/40	1	ET005040
63/32	1	ET006332
63/40	1	ET006340
63/50	1	ET006350
75/63	1	ET007563
90/63	1	ET009063
90/75	1	ET009075
110/63	1	ET011063
110/75	1	ET011075
110/90	1	ET011090
160/110	1	ET160110



Ø		CODE
200/200	1	ET200200
250/250	1	ET250250
315/315	1	ET315315



BRANCH SADDLE



Ø		CODE
63/32	1	E7016332
63/40	1	E7016340
63/50	1	E7016350
75/32	1	E7017532
75/63	1	E7017563
90/32	1	E7019032
90/63	1	E7019063
110/32	1	E7011132
110/63	1	E7011163
125/32	1	E7011232
125/63	1	E7011263
160/32	1	E7011632
160/63	1	E7011663



CAP



Ø		CODE
20	1	E3000020
25	1	E3000025
32	1	E3000032
40	1	E3000040
50	1	E3000050
63	1	E3000063
75	1	E3000075
90	1	E3000090
110	1	E3000110
125	1	E3000125
140	1	E3000140
160	1	E3000160
200	1	E3000200*
225	1	E3000225*
250	1	E3000250*
280	1	E3000280*
315	1	E3000315*

* Butt Weld cap + EF coupler.



Ø		CODE
200/32	1	E7012032
200/63	1	E7012063
250/25	1	E7012525
250/32	1	E7012532
250/40	1	E7012540
250/50	1	E7012550
250/63	1	E7012563
315/25	1	E7013125
315/32	1	E7013132
315/40	1	E7013140
315/50	1	E7013150
315/63	1	E7013163

OTHER SIZES - ON REQUEST



REPAIRING CLAMP



Ø		CODE	
63	1	E7000063	
90	1	E7000090	
110	1	E7000110	
125	1	E7000125	
160	1	E7000160	
180	1	E7000180	



TAPPING TEE



Ø		CODE	
40/32	1	ETC04032	
50/32	1	ETC05032	
63/32	1	ETC06332	
63/40	1	ETC06340	
63/50	1	ETC06350	
75/32	1	ETC07532	
90/32	1	ETC09032	
90/40	1	ETC09040	
90/50	1	ETC09050	
90/63	1	ETC09063	
110/32	1	ETC11032	
110/40	1	ETC11040	
110/50	1	ETC11050	
110/63	1	ETC11063	
125/32	1	ETC12532	
125/50	1	ETC12550	
125/63	1	ETC12563	



Ø		CODE	
140/32	1	ETC14032	
140/63	1	ETC14063	
160/32	1	ETC16032	
160/50	1	ETC16050	
160/63	1	ETC16063	
200/32	1	ETC20032	
200/40	1	ETC20040	
200/63	1	ETC20063	



PE / BRASS MALE TRANSITION



Ø		CODE	
20 x 1/2"	1	ERM00203	
25 x 3/4"	1	ERM00254	
32 x 1"	1	ERM00325	
40 x 1 1/4"	1	ERM00406	
50 x 1 1/2"	1	ERM00507	
63 x 2"	1	ERM00638	
75 x 2 1/2"	1	ERM0075A	
90 x 3"	1	ERM0090B	
110 x 4"	1	ERM0110D	
125 x 4"	1	ERM0125D	



PE / BRASS FEMALE TRANSITION



Ø		CODE	
20 x 1/2"	1	ERH00203	
25 x 3/4"	1	ERH00254	
32 x 1"	1	ERH00325	
40 x 1 1/4"	1	ERH00406	
50 x 1 1/2"	1	ERH00507	
63 x 2"	1	ERH00638	
75 x 2 1/2"	1	ERH0075A	
90 x 3"	1	ERH0090B	
110 x 4"	1	ERH0110D	
125 x 4"	1	ERH0125D	

OTHER SIZES - ON REQUEST



PE / STEEL TRANSITION

Ø		CODE	
25/20	1	ETM02520	
32/25	1	ETM03225	
40/32	1	ETM04032	
50/40	1	ETM05040	
63/50	1	ETM06350	
75/65	1	ETM07565	



PE / STEEL TRANSITION INJECTED



Ø		CODE	
25/20	1	ETA25020	
32/25	1	ETA32025	
63/50	1	ETA63050	



PE VALVE *



Ø		CODE	
25	1	EVAL0025	
32	1	EVAL0032	
40	1	EVAL0040	
50	1	EVAL0050	
63	1	EVAL0063	
75	1	EVAL0075	
90	1	EVAL0090	
110	1	EVAL0110	
125	1	EVAL0125	
160	1	EVAL0160	



STEAM EXTENTION *

CODE	
ELLV6011	


Is used for opening and closing our PE valve.
Telescopic regulation
600 -1100 mm.

* While stocks last

OTHER SIZES - ON REQUEST



SPIGOT FLANGE ADAPTOR

DN		CODE
25	1	EPB11025
32	1	EPB11032
40	1	EPB11040
50	1	EPB11050
63	1	EPB17063
63	1	EPB11063
75	1	EPB17075
75	1	EPB11075
90	1	EPB17090
90	1	EPB11090
110	1	EPB17110
110	1	EPB11110
125	1	EPB17125
125	1	EPB11125
140	1	EPB11140
160	1	EPB17160
160	1	EPB11160
180	1	EPB17180
180	1	EPB11180
200	1	EPB17200
200	1	EPB11200
225	1	EPB17225
250	1	EPB17250
250	1	EPB11250
280	1	EPB17280
315	1	EPB17315
315	1	EPB11315


SDR 11



SDR 17



90° ELBOW

DN		CODE
32	1	W0900032
40	1	W0900040
50	1	W0900050
63	1	W1790063
63	1	W0900063
75	1	W1790075
75	1	W0900075
90	1	W1790090
90	1	W0900090
110	1	W1790110
110	1	W0900110
125	1	W1790125
125	1	W0900125
140	1	W0900140
160	1	W1790160
160	1	W0900160
180	1	W1790180
180	1	W0900180
200	1	W1790200
200	1	W0900200
225	1	W1790225
225	1	W0900225
250	1	W1790250
250	1	W0900250
280	1	W1790280
280	1	W0900280
315	1	W1790315
315	1	W0900315

SDR 11



SDR 17



ZINCATED FLANGE FOR POLYETHYLENE STUB-END



See page 68

OTHER SIZES - ON REQUEST



45° ELBOW

DN		CODE	
32	1	W1200032	
40	1	W1200040	
50	1	W1200050	
63	1	W1712063	
63	1	W1200063	
75	1	W1712075	
75	1	W1200075	
90	1	W1712090	
90	1	W1200090	
110	1	W1712110	
110	1	W1200110	
125	1	W1712125	
125	1	W1200125	
160	1	W1712160	
160	1	W1200160	
180	1	W1712180	
180	1	W1200180	
200	1	W1712200	
200	1	W1200200	
225	1	W1712225	
225	1	W1200225	
250	1	W1712250	
250	1	W1200250	
280	1	W1712280	
280	1	W1200280	
315	1	W1712315	
315	1	W1200315	

SDR 11



SDR 17



TEE

DN		CODE	
90/90	1	WT170090	
90/90	1	WT090090	
110/110	1	WT170110	
110/110	1	WT110110	
125/125	1	WT170125	
125/125	1	WT125125	
140/140	1	WT140140	
160/160	1	WT170160	
160/160	1	WT160160	
200/200	1	WT170200	
225/225	1	WT170225	
250/250	1	WT170250	
315/315	1	WT170315	

SDR 11



SDR 17



CAP



DN		CODE	
32	1	W3000032	
40	1	W3000040	
50	1	W3000050	
63	1	W3000063	
75	1	W3000075	
90	1	W3000090	
110	1	W3000110	
125	1	W3000125	
140	1	W3000140	
160	1	W3000160	



CONCENTRIC REDUCER



DN		CODE	
75/63	1	WR075063	
90/63	1	WR090063	
90/75	1	WR090075	
110/63	1	WR011063	
110/75	1	WR011075	
110/90	1	WR011090	
125/75	1	WR012575	
125/90	1	WR012590	
125/110	1	WR125110	
140/110	1	WR140110	
140/125	1	WR140125	
160/90	1	WR016090	
160/110	1	WR160110	
160/125	1	WR160125	
160/140	1	WR160140	
200/160	1	WR200160	
250/160	1	WR250160	
250/200	1	WR250200	

OTHER SIZES - ON REQUEST

ELECTROFUSION WELDING MACHINES

RANGE 20 - 160 mm.



CODE	€
EMW20160	3.200,00

RANGE 20 - 315 mm.



CODE	€
EMW20315	4.625,00

PARAMETERS	EMW20160	EMW20315
Supply voltage	230V [*] (200V-250V [*]) 50Hz	230V [*] (200V-250V [*]) 50Hz
Power rating	1200	2300
Max. Input power	10	16
Welding voltage	8 - 42	8 - 42
Max. Welding diameter	160*	355*
Setting heating time	1 - 999 sec. each 1 seg.	1 - 999 sec. each 1 seg.
Cooling time	1 - 99 min. each 1 min.	1 - 99 min. each 1 min.
Dimensions	470 x 365 x 190 mm	470 x 365 x 190 mm
Operating temperature range	-10° C a 40° C	-10° C a 40° C
Power card lenght	3 meters	3 meters
Heating card lenght	3 meters	4 meters
Protection class	IP 54	IP 54
Appliance class	Class I	Class I
Weight	16	22
Barcode reader	Scanner	Scanner

* The maximum weld diameter specified is an approximate value.
Depending on the type and manufacturer of the electrofusion fitting, this may be higher or lower.

INSTRUCTION MANUAL



BUTT WELDING – WELDING MACHINES

RANGE 40 - 160 mm.



CODE
BASIC 160

RANGE 75 - 250 mm.



CODE
BASIC 250

RANGE 90 - 315 mm.



CODE
BASIC 315

TECHNICAL FEATURES	BASIC 160	BASIC 250	BASIC 315
Materials	HDPE, PP, PP-R, PVDF For other materials consult.	HDPE, PP, PP-R, PVDF For other materials consult.	HDPE, PP, PP-R, PVDF For other materials consult.
Supply	230 V Single-phase 50/60 Hz	230 V Single-phase 50/60 Hz	230 V Single-phase 50/60 Hz
Total power absorbed	3000 W	4200 W	5050 W
Working temperature	180° C - 280° C	180° C - 280° C	180° C - 280° C
Ambient temperature of use	-10° C - 40° C	-10° C - 40° C	-10° C - 40° C
Time when the temperature of use is reached.	<20	<20	<20
Memory	4.000 cycles	4.000 cycles	4.000 cycles
Custom settings	50 customizations	50 customizations	50 customizations
Wi-Fi ready	App "SET & GO PRO"	App "SET & GO PRO"	App "SET & GO PRO"
Dimension body aligning (A x L x H)	606 x 365 x 375 mm.	850 x 470 x 400 mm.	981 x 586 x 520 mm.
Dimension electrohydraulic unit (A x L x H)	585 x 384 x 463 mm.	585 x 384 x 463 mm.	585 x 384 x 463 mm.
Body weight aligner	32 kg.	63 kg.	86 kg.
STANDARD Composition weight	88 kg.	132 kg.	174 kg.

ACCESSORIES

AUTOMATIC SCRAPER



DIMENSION	CODE
75 - 180 mm.	ERAAU075
140 - 400 mm.	ERAAU140

PIPE CLAMPS



DIMENSION	CODE
20 - 63 mm.	EALI2063
63 - 225 mm.	EAL63225
125 - 500 mm.	EALDO125

TURBO SCRAPER



Pipe trimming



Pipe scraping



DIMENSION	CODE
32 mm.	ERATU032
40 mm.	ERATU040
50 mm.	ERATU050
63 mm.	ERATU063

SQUEEZE OFF TOOL



DIMENSION	CODE
20 - 63 mm.	EPM02063
20 - 90 mm.	EPM02090*
63 - 125 mm.	EPM63125

HYDRAULIC



DIMENSION	CODE
90 - 225 mm.	EPH90225

* While stocks last

PE PIPE MARKER



CODE
EMARCAADO

HAND SCRAPER



DIMENSION	CODE
40 mm.	ERASC037
62 mm.	ERASC062

CLEANING TISSUES (100 units)



CODE
ETISSUE1

WRENCH FOR TATTING TEES



CODE
ELLAVTOM

WELDING LIQUIDS (1 litre)



CODE
ELIFOXIT

PE PIPE CUTTER



DIMENSION	CODE
6 - 76 mm.	ECORT006
50 - 140 mm.	ECORT050
100 - 160 mm.	ECORT100
180 - 315 mm.	ECORT180

VALVES FOR **WATER SERVICE**

The sector of water and wastewater, irrigation and air conditioning is the preferred field of development of **ATUSA** products. In this sense, this consolidated range of cast iron products as gate valves, check valves, strainers and butterfly valves is now enlarged with developments designed for the applied fluid handling.

Vibration Absorbers which complete the range of expansion joints and couplings for PVC and polyethylene pipes make **ATUSA** a guarantee provider of demanding clients.





CAST IRON
VALVES

 **ATUSA**

VALVES FOR **WATER SERVICE**



DUCTILE IRON GATE VALVE - RESILIENT SEAT - FLANGED

500

F4 PLANE BODY



DN	D mm.	L mm.	B mm.	H mm.	Nº HOLES x d mm.	CODE
40	150	140	200	220	4 x 19	VF500040
50	165	150	200	220	4 x 19	VF500050
65	185	170	200	255	4 x 19	VF500065
80	200	180	254	280	8 x 19	VF500080
100	220	190	254	320	8 x 19	VF500100
125	250	200	315	355	8 x 19	VF500125
150	285	210	315	400	8 x 23	VF500150
200	340	230	315	510	8 x 23	VF500201
200	340	230	315	510	12 x 23	VF500200
250	395	250	406	600	12 x 23	VF500251
250	405	250	406	600	12 x 28	VF500250
300	445	270	406	680	12 x 23	VF500301
300	460	270	406	680	12 x 28	VF500300
350	505	290	500	810	16 X 23	VF500351
350	520	290	500	810	16 x 28	VF500350
400	565	310	500	890	16 x 28	VF500401
400	580	310	500	890	16 x 31	VF500400
450	615	330	500	990	20 x 28	VF500451
450	650	330	500	990	20 x 31	VF500450
500	670	350	650	1065	20 x 28	VF500501
500	715	350	650	1065	20 x 34	VF500500
600	780	390	650	1270	20 x 31	VF500601
600	840	390	650	1270	20 x 37	VF500600

509

F5 OVAL BODY



DN	D mm.	L mm.	B mm.	H mm.	Nº HOLES x d mm.	CODE
40	150	240	200	220	4 x 19	VF509040
50	165	250	200	220	4 x 19	VF509050
65	185	270	200	255	4 x 19	VF509065
80	200	280	254	280	8 x 19	VF509080
100	220	300	254	320	8 x 19	VF509100
125	250	325	315	355	8 x 19	VF509125
150	285	350	315	400	8 x 23	VF509150
200	340	400	315	510	8 x 23	VF509201
200	340	400	315	510	12 x 23	VF509200
250	395	450	406	600	12 x 23	VF509251
250	405	450	406	600	12 x 28	VF509250
300	445	500	406	680	12 x 23	VF509301
300	460	500	406	680	12 x 28	VF509300
350	505	550	500	810	16 X 23	VF509351
350	520	550	500	810	16 x 28	VF509350
400	565	600	500	890	16 x 28	VF509401
400	580	600	500	890	16 x 31	VF509400
500	670	700	650	1065	20 x 28	VF509501
500	715	700	650	1065	20 x 34	VF509500

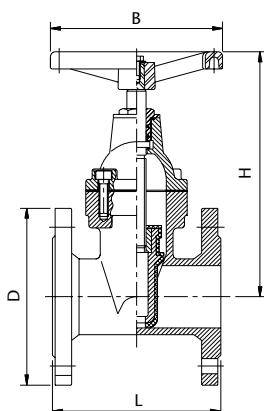
Flanges: PN 10 PN 10/16 PN 16

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: 0° C to 80° C.
 According to DIN 3352/ **F4 - F5** (EN 1171)..
 Flange according to DIN EN 1092-2 PN 10/16.
 Face to face DIN 3202-1 **F4 - F5**
 (EN 558-1 SERIES **14 - 15**).
 Inside and outside "EPOXY" powder coating.

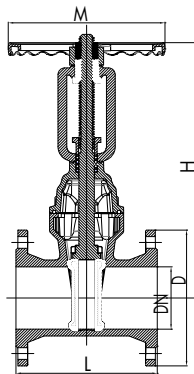
COMPONENTS

Body: Ductile Iron GGG 50 (EN-GJS-500-7)
Bonnet: Ductile Iron GGG 50 (EN-GJS-500-7)
Wedge: Ductile Iron GGG 50 (EN-GJS-500-7)
Coating Wedge: EPDM
Stem: Stainless Steel AISI 420
O-Ring: EPDM
Bolts: Stainless Steel A2.
Handwheel: Ductile Iron GGG 50 (EN-GJS-500-7)



502

DUCTILE IRON GATE VALVE - RESILIENT SEAT RISING STEM - FLANGED



DN	D mm.	L mm.	M mm.	H mm.	Nº HOLES x d mm.	CODE
50	165	150	200	315	4 x 19	VF502050
65	185	170	200	325	4 x 19	VF502065
80	200	180	200	355	8 x 19	VF502080
100	220	190	254	415	8 x 19	VF502100
125	250	200	315	490	8 x 19	VF502125
150	285	210	315	550	8 x 23	VF502150
200	340	230	315	670	12 x 23	VF502200
250	405	250	406	845	12 x 28	VF502250
300	460	270	406	1100	12 x 28	VF502300

Flanges: ■ PN 10/16 ■ PN 16

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: 0° C to 80° C.
 According to DIN 3352/F4 (EN 1171).
 Flange according to DIN EN 1092-2 PN 10/16.
 Face to face DIN 3202-1 F4 (EN 558-1 Serie 14).
 Inside and outside "EPOXY" powder coating.

COMPONENTS

Body: Ductile Iron GGG 50 (EN-GJS-500-7)
 Bonnet: Ductile Iron GGG 50 (EN-GJS-500-7)
 Wedge: Ductile Iron GGG 50 (EN-GJS-500-7)
 Coating Wedge: EPDM
 Yoke: Ductile Iron GGG 50 (EN-GJS-500-7)
 Gland: Ductile Iron GGG 50 (EN-GJS-500-7)
 Stem: Stainless Steel AISI 420
 O-Ring: NBR
 Packing: PTFE
 Stem Nut: Brass
 Handwheel Washers: Stainless Steel AISI 304
 Handwheel: Ductile Iron GGG 50 (EN-GJS-500-7)

505 SQUARE CAP FOR RESILIENT SEAT GATE VALVE Ref.500



DN	A mm.	B mm.	L mm.	CODE
40-50-65	14	30	63	VF505050
80	17	36	63	VF505080
100-125-150	19	41	63	VF505125
200	24	51	63	VF505200
250-300-350-400	27	58	63	VF505250
500	32	56	75	VF505500

COMPONENTES

Body: Ductile Iron GGG 50 (EN-GJS-500-7)

508 EXTENSION SHAFT FOR A GATE VALVE Ref. 500 and Ref. 509



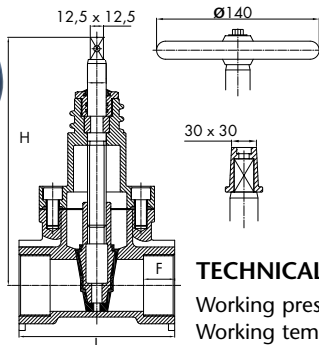
DN	LENGTH		
	600 mm.	1000 mm.	1500 mm.
	CODE	CODE	CODE
40-50-65	VFE06040	VFE10040	VFE15040
80	VFE06080	VFE10080	VFE15080
100-125-150	VFE06100	VFE10100	VFE15100
200	VFE06200	VFE10200	VFE15200
250-300-350-400	VFE06250	VFE10250	VFE15250

COMPONENTS

Body: Galvanized Steel
 Plug and Shaft Head: Ductile Iron
 Protective tuve: PVC
 Compatible handwheel: VF507250

501

GATE VALVE - RESILIENT SEAT - THREADED



Ø	L mm.	F mm.	H mm.	CODE		CODE
3/4"	95	16	145	VF501004	Ref. 502 Cuadradillo	VF502000
1"	105	20	145	VF501005		
1 1/4"	120	20	149	VF501006	Ref. 503 Volante	VF503000
1 1/2"	130	25	172	VF501007		
2"	150	25	190	VF501008		

TECHNICAL FEATURES

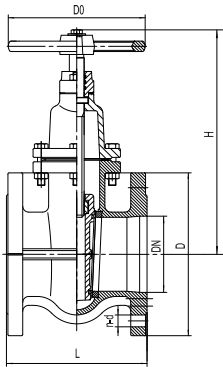
Working pressure: PN 16.
 Working temperature: 0° C to 80° C.
 Female parallel threads.
 Inside and outside "EPOXY" powder coating.

COMPONENTS

Body: Ductile Iron GGG 50 (EN-GJS-500-7)
 Bonnet: Ductile Iron GGG 50 (EN-GJS-500-7)
 Wedge: Brass
 Coating Wedge: EPDM
 Stem: Stainless Steel AISI 420
 O-Ring: NBR
 Handwheel: Ductile Iron GGG 50 (EN-GJS-500-7)
 Square Cap: Ductile Iron GGG 50 (EN-GJS-500-7)

503

GREY CAST IRON GATE VALVE - METAL SEAT - FLANGED



DN	D mm.	L mm.	DO mm.	H mm.	N° HOLES x d mm.	CODE
40	150	140	130	195	4 x 19	VF503040
50	165	150	130	205	4 x 19	VF503050
65	185	170	130	225	4 x 19	VF503065
80	200	180	150	252	8 x 19	VF503080
100	220	190	185	294	8 x 19	VF503100
125	250	200	185	350	8 x 19	VF503125
150	285	210	190	411	8 x 23	VF503150
200	340	230	220	496	8 x 23	VF503201
250	395	250	310	576	12 x 23	VF503251
300	455	270	310	678	12 x 23	VF503301

Flanges: PN 10 PN 10/16

TECHNICAL FEATURES

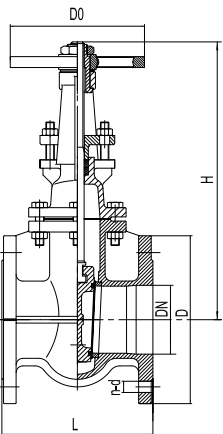
Working pressure: PN 10.
 Working temperature: 0° C to 80° C.
 Design according: DIN 3352/F4
 Flange dimension: DIN EN 1092-2 PN 10/16.
 Face to face: DIN 3202-1 F4 (EN 558-1 SERIE 14).

COMPONENTS

Body: Grey Cast Iron GG25 (EN-GJL-250).
Bonnet: Grey Cast Iron GG25 (EN-GJL-250).
Wedge: Grey Cast Iron GG25 (EN-GJL-250).
Body Seat Ring: Brass.
Wedge Seat Ring: Brass.
Stem: Stainless Steel AISI 420.
Handwheel: Grey Cast Iron GG25 (EN-GJL-250).

504

DUCTILE IRON GATE VALVE - METAL SEAT RISING STEM - FLANGED



DN	D mm.	L mm.	DO mm.	H mm.	N° HOLES x d mm.	CODE
40	150	140	160	244 / 295	4 x 19	VF504040
50	165	150	160	254 / 315	4 x 19	VF504050
65	185	170	160	294 / 371	4 x 19	VF504065
80	200	180	160	331 / 424	8 x 19	VF504080
100	220	190	200	385 / 500	8 x 19	VF504100
125	250	200	200	457 / 598	8 x 19	VF504125
150	285	210	250	545 / 711	8 x 23	VF504150
200	340	230	250	683 / 901	8 x 23	VF504201
200	340	230	250	683 / 901	12 x 23	VF504200
250	395	250	320	823 / 1.093	12 x 23	VF504251
250	405	250	320	823 / 1.093	12 x 28	VF504250
300	445	270	320	952 / 1.273	12 x 23	VF504301
300	460	270	320	952 / 1.273	12 x 28	VF504300

Flanges: PN 10 PN 16 PN 10/16

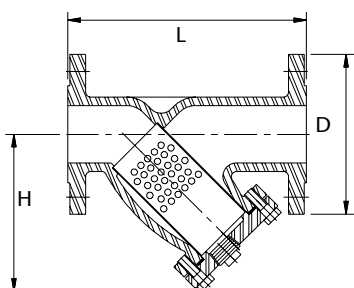
TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: 0° C to 180° C.
 Design according: DIN 3352/F4.
 Flange dimension: DIN EN 1092-2 PN 10/16.
 Face to face: DIN 3202-1 F4 (EN 558-1 SERIE 14).

COMPONENTS

Body: Ductile Iron GGG 50 (EN-GJS-500-7).
Bonnet: Ductile Iron GGG 50 (EN-GJS-500-7).
Wedge: Ductile Iron GGG 50 (EN-GJS-500-7).
Body Seat Ring: Stainless Steel AISI 304.
Wedge Seat Ring: Stainless Steel AISI 304.
Stem: Stainless Steel AISI 420.
Gasket: Graphite.
Gland: Ductile Iron GGG50 (EN-GJS-500-7).
Packing: Graphite.
Stem nut: Brass.
Handwheel: Grey Cast Iron GG25 (EN-GJL-250).

510 GREY CAST IRON "Y" STRAINER - FLANGED



DN	D mm.	L mm.	H mm.	Nº HOLES x d mm.	SCREEN HOLES d mm.	CODE
32	140	180	111	4 x 19	1,5	VF510032
40	150	200	118	4 x 19	1,5	VF510040
50	165	230	178	4 x 19	1,5	VF510050
65	185	290	211	4 x 19	1,5	VF510065
80	200	310	202	8 x 19	1,5	VF510080
100	220	350	226	8 x 19	3	VF510100
125	250	400	264	8 x 19	3	VF510125
150	285	480	309	8 x 23	3	VF510150
200	340	600	410	8 x 23	3	VF510201
200	340	600	410	12 x 23	3	VF510200
250	395	730	444	12 x 23	3	VF510251
250	405	730	444	12 x 28	3	VF510250
300	445	850	486	12 x 23	3	VF510301
300	460	850	486	12 x 28	3	VF510300
350	520	980	595	16 x 28	3	VF510350
400	580	1100	673	16 x 31	3	VF510400
500	715	1250	910	20 x 34	3	VF510500

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

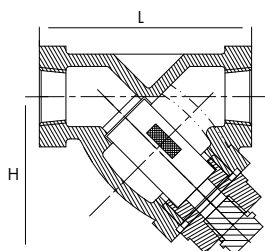
TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Flange dimension: DIN EN 1092-2 PN 10/16.
 Face to face: DIN 3202-1 F1 (EN 558-1 Serie 1).
 Inside and outside "EPOXY" powder coating.

COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
Bonnet: Grey Cast Iron GG 25 (EN-GJL-250)
Screen: Stainless Steel AISI 304
Gasket: Graphite
Draining Plug: Ductile Iron GGG 40 (GJS-400-15)

511 SUCTILE IRON "Y" STRAINER - THREADED



Ø	L mm.	H mm.	SCREEN HOLES d mm.	CODE
1/2"	76	52	1	VF511003
3/4"	102	65	1	VF511004
1"	124	81	1	VF511005
1 1/4"	132	97	1	VF511006
1 1/2"	146	103	1	VF511007
2"	184	117	1	VF511008
2 1/2"	229	145	1	VF51100A
3"	254	172	1	VF51100B

TECHNICAL FEATURES

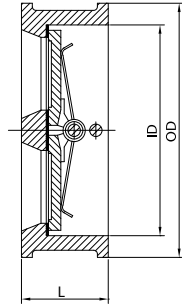
Working pressure: PN 16.
 Working temperature: -10° C to 200° C.
 BSP female thread.

COMPONENTS

Body: Ductile Iron GGG 40 (EN-GJS-400-15)
Bonnet: Ductile Iron GGG 40 (EN-GJS-400-15)
Screen: Stainless Steel AISI 304
Gasket: Graphite

520

GREY CAST IRON DOUBLE DISC CHECK VALVE - WAFER TYPE



DN	L mm.	OD mm.	ID mm.	CODE
40	43	92	65	VF520040
50	54	109	65	VF520050
65	54	129	80	VF520065
80	57	144	94	VF520080
100	64	164	117	VF520100
125	70	194	145	VF520125
150	76	220	170	VF520150
200	95	275	224	VF520200
250	108	328	265	VF520250
300	143	378	312	VF520300
350	184	438	360	VF520350
400	191	489	410	VF520400
450	203	532	450	VF520450
500	213	585	500	VF520500
600	222	685	624	VF520600

TECHNICAL FEATURES

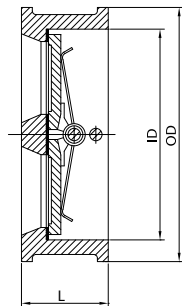
Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Suitable for flanges PN 10 / 16.
 Face to face: DIN 3202-1 (EN 558-1 Serie 50).
 Outside and inside "EPOXY" powder coating.

COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
Disc: Stainless Steel AISI 316 (CF8M)
Seat: NBR Vulcanized rubber
Stems: Stainless Steel AISI 316
Washer: PTFE
Spring: Stainless Steel AISI 316

521

GREY CAST IRON DOUBLE DISC CHECK VALVE - WAFER TYPE



DN	L mm.	OD mm.	ID mm.	CODE
40	43	92	65	VF521040
50	54	109	65	VF521050
65	54	129	80	VF521065
80	57	144	94	VF521080
100	64	164	117	VF521100
125	70	194	145	VF521125
150	76	220	170	VF521150
200	95	275	224	VF521200
250	108	328	265	VF521250
300	143	378	312	VF521300
350	184	438	360	VF521350
400	191	489	410	VF521400
450	203	532	450	VF521450
500	213	585	500	VF521500
600	222	685	624	VF521600

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Suitable for flanges PN 10 / 16.
 Face to face: DIN 3202-1 (EN 558-1 Serie 50).
 Outside and inside "EPOXY" powder coating.

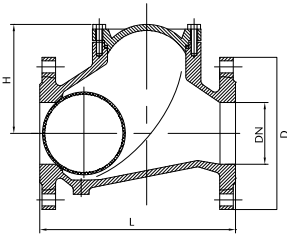
COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
Disc: Ductile Iron GGG 40 (EN-GJL-400-15)
Seat: NBR Vulcanized rubber
Stems: Stainless Steel AISI 304
Washer: PTFE
Spring: Stainless Steel AISI 304



550

DUCTILE IRON BALL CHECK VALVE - FLANGED



DN	D mm.	L mm.	H mm.	Nº HOLES x d mm.	CODE
40	150	180	98	4 x 19	VF550040
50	165	200	106	4 x 19	VF550050
65	185	240	129	4 x 19	VF550065
80	200	260	146	8 x 19	VF550080
100	220	300	194	8 x 19	VF550100
125	250	350	207	8 x 19	VF550125
150	285	400	240	8 x 23	VF550150
200	340	500	322	8 x 23	VF550201
200	340	500	322	12 x 23	VF550200
250	395	600	388	12 x 23	VF550251
250	405	600	388	12 x 28	VF550250
300	445	700	458	12 x 23	VF550301
300	460	700	458	12 x 28	VF550300
350	505	800	610	16 x 23	VF550351
350	520	800	610	16 x 28	VF550350
400	565	900	705	16 x 28	VF550401
400	580	900	705	16 x 31	VF550400

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Flange dimension: DIN EN 1092-2 PN 10 / 16.
 Face to face dimensions: DIN 3202-1 F6 (EN 558-1 Serie 48).
 Outside and inside "EPOXY" powder coating.

COMPONENTS

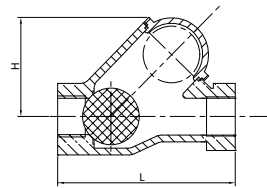
Body: Ductile Iron GGG 40 (EN-GJS-400-15)
 Bonnet: Ductile Iron GGG 40 (EN-GJS-400-15)
 Ball: Metal + NBR
 Gasket: NBR
 Bolts: Stainless Steel A2

Flanges: PN 10 PN 10/16 PN 16



555

DUCTILE IRON BALL CHECK VALVE - THREADED



Ø	L mm.	H mm.	CODE
1"	125	75	VF555005
1 1/4"	132	75	VF555006
1 1/2"	145	85	VF555007
2"	174	116	VF555008
2 1/2"	200	140	VF55500A
3"	243	160	VF55500B

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Female parallel thread.
 Outside and inside "EPOXY" powder coating.

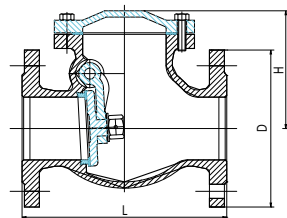
COMPONENTS

Body: Ductile Iron GGG 40 (EN-GJS-400-15)
 Bonnet: Ductile Iron GGG 40 (EN-GJS-400-15)
 Ball: Metal + NBR
 Gasket: NBR
 Bolts: Stainless Steel A2



530

GREY CAST IRON SWING CHECK VALVE



DN	D mm.	L mm.	H mm.	Nº HOLES x d mm.	CODE
50	165	200	127	4 x 19	VF530050
65	185	240	137	4 x 19	VF530065
80	200	260	150	8 x 19	VF530080
100	220	300	164	8 x 19	VF530100
125	250	350	185	8 x 19	VF530125
150	285	400	205	8 x 23	VF530150
200	340	500	249	8 x 23	VF530201
200	340	500	249	12 x 23	VF530200
250	395	600	301	12 x 23	VF530251
250	405	600	301	12 x 28	VF530250
300	445	700	333	12 x 23	VF530301
300	460	700	333	12 x 28	VF530300
350	505	800	377	16 x 23	VF530351
350	520	800	377	16 x 28	VF530350
400	565	900	405	16 x 28	VF530401
400	580	900	405	16 x 31	VF530400

TECHNICAL FEATURES

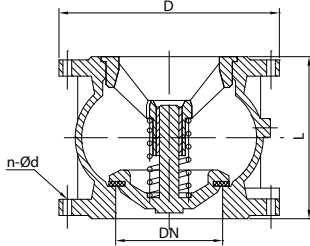
Working pressure: PN 16.
 Working temperature: -10° C to 100° C.
 Flange dimension: DIN EN 1092-2 PN 10 / 16.
 Face to face dimensions: DIN 3202-1 F6 (EN 558-1 Série 48).
 Outside and inside "EPOXY" powder coating.

COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
 Bonnet: Grey Cast Iron GG 25 (EN-GJL-250)
 Disc: Grey Cast Iron GG 25 (EN-GJL-250)
 Body Seat: Brass
 Disc Seat: EPDM
 Gasket: Graphite

Flanges: PN 10 PN 10/16 PN 16

560 GREY CAST IRON AXIAL DISC CHECK VALVE



Flanges:

- PN 10
- PN 10/16
- PN 16

DN	D mm.	L mm.	Nº HOLES x d mm.	CODE
50	165	100	4 x 19	VF560050
65	185	120	4 x 19	VF560065
80	200	140	8 x 19	VF560080
100	220	170	8 x 19	VF560100
125	250	200	8 x 19	VF560125
150	285	230	8 x 23	VF560150
200	340	300	8 x 23	VF560201
200	340	300	12 x 23	VF560200
250	395	370	12 x 23	VF560251
250	405	370	12 x 28	VF560250
300	445	410	12 x 23	VF560301
300	460	410	12 x 28	VF560300

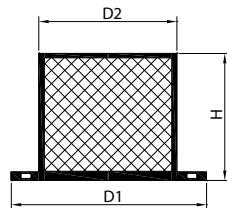
TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 80° C.
 Flange dimension: DIN EN 1092-2 PN 10 / 16.
 Outside and inside "EPOXY" powder coating.

COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
 Disc: Ductile Iron GGG40 (EN-GJS-400-15)
 Guide: Ductile Iron GGG40 (EN-GJS-400-15)
 Sealing Gasket: NBR
 Spring: Stainless Steel AISI 304

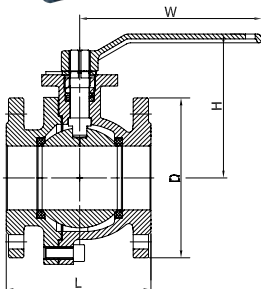
565 STRAINER FOR AXIAL DISC CHECK VALVE



DN	D1 mm.	D2 mm.	H mm.	CODE
50	156	111	80	VF565050
65	176	131	100	VF565065
80	192	148	120	VF565080
100	212	168	150	VF565100
125	242	198	175	VF565125
150	276	222	200	VF565150
200	332	278	250	VF565200
250	385	329	300	VF565250
300	445	384	350	VF565300

COMPONENTS: Strainer: Zink plated steel Bolts: Zink plated steel

570 GREY CAST IRON BALL VALVE



Flanges:

- PN 10/16
- PN 16

DN	D mm.	L mm.	H mm.	W mm.	Nº HOLES x d mm.	CODE
15	95	115	86	130	4 x 14	VF570015
20	105	120	95	130	4 x 14	VF570020
25	115	125	100	160	4 x 14	VF570025
32	140	130	105	160	4 x 19	VF570032
40	150	140	121	220	4 x 19	VF570040
50	165	150	136	250	4 x 19	VF570050
65	185	170	161	350	4 x 19	VF570065
80	200	180	180	350	8 x 19	VF570080
100	220	190	222	400	8 x 19	VF570100
125	250	325	260	600	8 x 19	VF570125
150	285	350	280	600	8 x 23	VF570150
200	340	400	340	700	12 x 23	VF570200

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: -10° C to 150° C.
 Flange dimension: DIN EN 1092-2 PN 10/16..
 Face to face dimensions: DIN 3202-1 F18 (EN 558-1 Serie 27).
 Top Flange ISO 5211.
 Full bore.

COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
 Bonnet: Grey Cast Iron GG 25 (EN-GJL-250)
 Ball: Stainless Steel AISI 304
 Seat: PTFE
 Stem: Stainless Steel AISI 304
 Body Gasket: PTFE
 Stem Packing: PTFE
 Handle: Grey Cast Iron GG 25 (EN-GJL-250)

580

GREY CAST IRON GLOBE VALVE



DN	D mm.	L mm.	H mm.	W mm.	Nº HOLES x d mm.	CODE
15	95	130	182	120	4 X 14	VF580015
20	105	150	185	120	4 X 14	VF580020
25	115	160	201	120	4 X 14	VF580025
32	140	180	253	120	4 x 19	VF580032
40	150	200	254	140	4 x 19	VF580040
50	165	230	277	160	4 x 19	VF580050
65	185	290	312	160	4 x 19	VF580065
80	200	310	342	175	8 x 19	VF580080
100	220	350	378	195	8 x 19	VF580100
125	250	400	447	245	8 x 19	VF580125
150	285	480	503	315	8 x 23	VF580150
200	340	600	591	400	12 x 23	VF580200

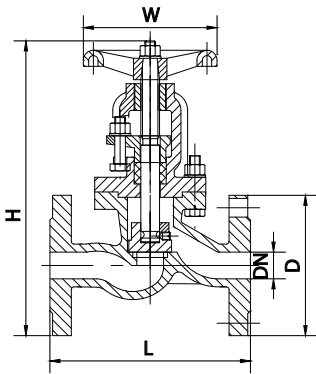
Flanges: ■ PN 10/16 ■ PN 16

TECHNICAL FEATURES

Working pressure: PN 16.
 Working temperature: 0° C to 120° C.
 Flange according to DIN EN 1092-2 PN 10/16.
 Face to face DIN 3202-1 F18 (EN 558-1 Serie 1).

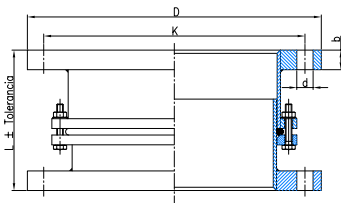
COMPONENTS

Body: Grey Cast Iron GG 25 (EN-GJL-250)
Bonnet: Grey Cast Iron GG 25 (EN-GJL-250)
Gasket: Graphite
Body Seat: Stainless Steel AISI 304
Disc Seat: Stainless Steel AISI 304
Disc: Grey Cast Iron GG 25 (EN-GJL-250)
Packing: Graphite
Gland: Grey Cast Iron GG 25 (EN-GJL-250)
Stem: Stainless Steel AISI 420
Handwheel: Grey Cast Iron GG 25 (EN-GJL-250)



700

TELESCOPIC DISMANTLING JOINT



DN	∅	L mm.	TOLERANCE mm.	D mm.	K mm.	Nº HOLES x d mm.	b mm.	CODE
50	2"	180	±30	165	125	4 x 18	18	VF700050
65	2 1/2"	180	±30	185	145	8 x 18	18	VF700065
80	3"	180	±30	200	160	8 x 18	20	VF700080
100	4"	180	±30	220	180	8 x 18	20	VF700100
125	5"	180	±30	250	210	8 x 18	22	VF700125
150	6"	180	±30	285	240	8 x 22	22	VF700150
200	8"	220	±40	340	295	8 x 22	24	VF700201
200	8"	220	±40	340	295	12 x 22	24	VF700200
250	10"	230	±40	395	350	12 x 22	26	VF700251
250	10"	230	±40	405	355	12 x 26	26	VF700250
300	12"	230	±40	445	400	12 x 22	26	VF700301
300	12"	230	±40	460	410	12 x 26	28	VF700300
350	14"	270	±40	505	460	16 x 22	28	VF700351
350	14"	270	±40	520	470	16 x 26	30	VF700350
400	16"	270	±40	565	515	16 x 26	32	VF700401
400	16"	270	±40	580	525	16 x 30	32	VF700400
500	20"	270	±40	670	620	20 x 26	38	VF700501
500	20"	270	±40	715	650	20 x 33	38	VF700500
600	24"	330	±50	780	725	20 x 30	36	VF700601
600	24"	330	±50	840	770	20 x 36	38	VF700600

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

TECHNICAL FEATURES

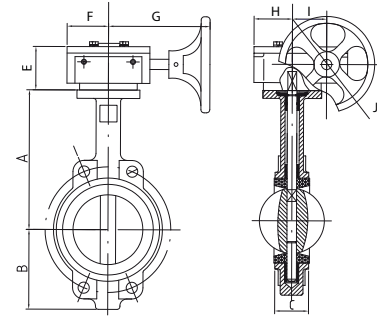
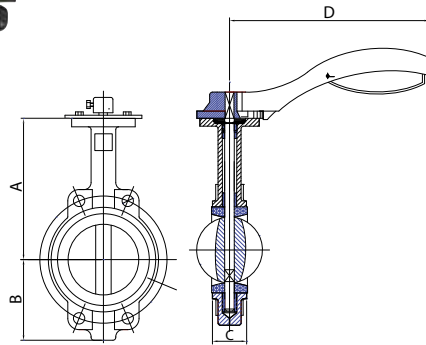
Working pressure: PN 10 and PN 16.
 Flange according to DIN 2576 PN 10/16 and DIN 2502 PN 16.

COMPONENTS

Centre Sleeves: Stainless Steel AISI 304
Flanges: Carbon Steel P245GH
Gasket: NBR
Bolts: Zinc Plated Carbon Steel 8.8
Painting: Epoxy

SIZES, HIGHER PRESSURES, OTHER MATERIALS - AVAILABLE UPON REQUEST

900/901/910/911/930/931 DUCTILE IRON WAFER BUTTERFLY VALVE



DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
A mm.	150	150	161	175	181	200	213	226	260	292	337	368	400	422	480	562
B mm.	65	65	80	89	95	114	127	139	175	203	242	267	309	328	361	459
C mm.	33	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
D mm.	170	170	170	170	170	170	220	220	260	350	350	-	-	-	-	-
E mm.	60	60	60	60	60	60	60	60	75	75	75	75	97	97	120	123
F mm.	52	52	52	52	52	52	52	52	75	75	75	75	112	112	128	131
G mm.	153	153	153	153	153	153	153	153	215	215	235	235	277	277	283	305
H mm.	52	52	52	52	52	52	52	52	75	75	81	81	112	112	128	131
I mm.	45	45	45	45	45	45	45	45	63	63	80	80	108	108	115	194
J mm.	135	135	135	135	145	145	145	145	270	270	270	270	380	380	380	385

TECHNICAL FEATURES

Working pressure: PN 16.
 Temperature: * EPDM: -10° C to 120° C.
 * NBR: -10° C to 80° C.
 Suitable for flanges PN10 and PN16.
 Outside "EPOXY" powder coating.
 Top flange ISO 5211 for actuator coupling.
 Handle with lock hole.

COMPONENTES

Body: Ductile Iron GGG 40 (EN-GJS-400-15)
 Stainless Steel AISI 316 (CF8M)
 Nickel Plated Ductile Iron
Seat: * EPDM
 * NBR
Stem: Stainless Steel AISI 416
Gear Operator: Grey Cast Iron GG25 (EN-GJL-250)
Lever: Aluminium
O-Ring: * EPDM
 * NBR

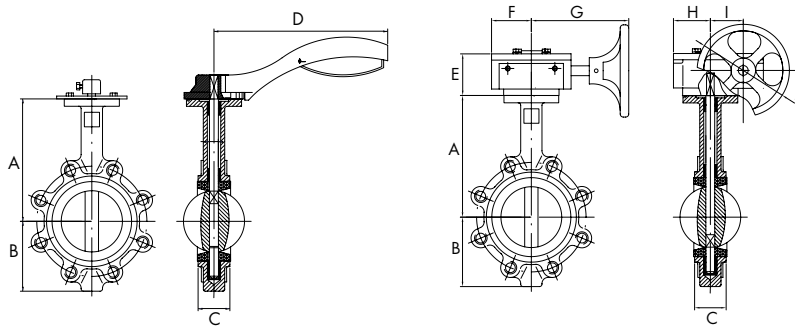
DN	Ref. 900	Ref. 901	Ref. 910	Ref. 911	Ref. 930	Ref. 931
	Body Cast Iron SS Disc EPDM Lever	Body Cast Iron SS Disc EPDM Gear Operator	Body Cast Iron DI Disc EPDM Lever	Body Cast Iron DI Disc EPDM Gear Operator	Body Cast Iron SS Disc NBR Lever	Body Cast Iron SS Disc NBR Gear Operator
	CODE	CODE	CODE	CODE	CODE	CODE
32	VF900032	VF901032	VF910032	VF911032	VF930032	VF931032
40	VF900040	VF901040	VF910040	VF911040	VF930040	VF931040
50	VF900050	VF901050	VF910050	VF911050	VF930050	VF931050
65	VF900065	VF901065	VF910065	VF911065	VF930065	VF931065
80	VF900080	VF901080	VF910080	VF911080	VF930080	VF931080
100	VF900100	VF901100	VF910100	VF911100	VF930100	VF931100
125	VF900125	VF901125	VF910125	VF911125	VF930125	VF931125
150	VF900150	VF901150	VF910150	VF911150	VF930150	VF931150
200	VF900200	VF901200	VF910200	VF911200	VF930200	VF931200
250	VF900250	VF901250	VF910250	VF911250	VF930250	VF931250
300	VF900300	VF901300	VF910300	VF911300	VF930300	VF931300
350		VF901350		VF911350		
400		VF901400		VF911400		
450		VF901450		VF911450		
500		VF901500		VF911500		
600		VF901600		VF911600		



Note: ACS and WRAS certificates available for ref. 900 and 901

950/951/960/961/970/971

DUCTILE IRON LUG BUTTERFLY VALVE



DN	32	40	50	65	80	100	125	150	200	250	300	350	400
A mm.	142	142	130	140	148	164	213	226	260	292	337	369	400
B mm.	72	72	67	71	91	99	127	139	175	203	242	263	309
C mm.	33	33	43	46	46	52	56	56	60	68	78	78	102
D mm.	170	170	170	170	170	170	220	220	260	350	350	-	-
E mm.	60	60	60	60	60	60	60	60	75	75	75	83	97
F mm.	52	52	52	52	52	52	52	52	75	75	75	81	112
G mm.	153	153	153	153	153	153	153	153	215	215	235	227	277
H mm.	52	52	52	52	52	52	52	52	75	75	81	81	112
I mm.	45	45	45	45	45	45	45	45	63	63	80	80	108
J mm.	135	135	135	135	145	145	145	145	270	270	270	270	380

TECHNICAL FEATURES

Working pressure: PN 16.
 Temperature: * EPDM: -10° C to 120° C.
 * NBR: -10° C to 80° C.
 Suitable for flanges PN10 and PN16.
 Outside "EPOXY" powder coating.
 Top flange ISO 5211 for actuator coupling.
 Handle with lock hole.

COMPONENTES

Body: Ductile Iron GGG 40 (EN-GJS-400-15)
 Stainless Steel AISI 316 (CF8M)
 Nickel Plated Ductile Iron
Seat: * EPDM
 * NBR
Stem: Stainless Steel AISI 416
Gear Operator: Grey Cast Iron GG25 (EN-GJL-250)
Lever: Aluminium
O-Ring: * EPDM
 * NBR

DN	Ref. 950		Ref. 951		Ref. 960		Ref. 961		Ref. 970		Ref. 971	
	Body Ductile Iron SS Disc EPDM Lever		Body Ductile Iron SS Disc EPDM Gear Operator		Body Ductile Iron DI Disc EPDM Lever		Body Ductile Iron DI Disc EPDM Gear Operator		Body Ductile Iron SS Disc NBR Lever		Body Ductile Iron SS Disc NBR Gear Operator	
	CODE		CODE		CODE		CODE		CODE		CODE	
32	VF950032		VF951032		VF960032		VF961032		VF970032		VF971032	
40	VF950040		VF951040		VF960040		VF961040		VF970040		VF971040	
50	VF950050		VF951050		VF960050		VF961050		VF970050		VF971050	
65	VF950065		VF951065		VF960065		VF961065		VF970065		VF971065	
80	VF950080		VF951080		VF960080		VF961080		VF970080		VF971080	
100	VF950100		VF951100		VF960100		VF961100		VF970100		VF971100	
125	VF950125		VF951125		VF960125		VF961125		VF970125		VF971125	
150	VF950150		VF951150		VF960150		VF961150		VF970150		VF971150	
200	VF950201		VF951201		VF960201		VF961201		VF970201		VF971201	
200	VF950200		VF951200		VF960200		VF961200		VF970200		VF971200	
250	VF950251		VF951251		VF960251		VF961251		VF970251		VF971251	
250	VF950250		VF951250		VF960250		VF961250		VF970250		VF971250	
300	VF950301		VF951301		VF960301		VF961301		VF970301		VF971301	
300	VF950300		VF951300		VF960300		VF961300		VF970300		VF971300	
350			VF951351				VF961351				VF971351	
350			VF951350				VF961350				VF971350	
400			VF951401				VF961401				VF971401	
400			VF951400				VF961400				VF971400	

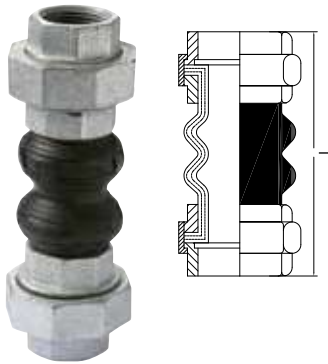


Note: ACS and WRAS certificates available for ref. 950 and 951

Flanges: PN 10 PN 10/16 PN 16



RUBBER EXPANSION JOINT - DOUBLE WAVE



DN	L mm.	AXIAL COMPRESSION mm.	AXIAL EXTENSION mm.	LATERAL DEFLECTION mm.	ANGULAR DEFLECTION DEGREES	CODE
20	200	22	6	22	20	VSMU0020
25	200	22	6	22	20	VSMU0025
32	200	22	6	22	20	VSMU0032
40	200	22	6	22	20	VSMU0040
50	200	22	6	22	20	VSMU0050
65	200	22	6	22	20	VSMU0065
80	200	22	6	22	20	VSMU0080

PRESSURE / TEMPERATURE RELATIONSHIP

T ^a (°C)	-20	20	60	80	90
P (bar)	16	16	16	16	10

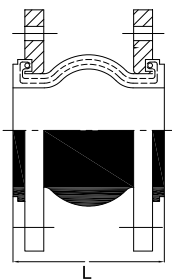
TECHNICAL FEATURES

Working pressure: PN 16.
 Vacuum: 500 mm Hg (670 mbar).
 Temperature: -10° C a 90° C.
 Connection through malleable cast iron pipe fittings.

COMPONENTS

Polymer: EPDM inside and outside
 Strengthening with steel wire nylon
 Electro zinc-coated malleable cast iron threading BSPT

RUBBER EXPANSION JOINT - SINGLE WAVE- TYPE FLANGE



DN	L mm.	AXIAL COMPRESSION mm.	AXIAL EXTENSION mm.	LATERAL DEFLECTION mm.	ANGULAR DEFLECTION DEGREES	CODE EPDM	EPDM	CODE NBR	NBR
32	95	10	6	10	15	VSMB0032			
40	95	10	6	10	15	VSMB0040		VSMBN040	
50	105	10	6	10	15	VSMB0050		VSMBN050	
65	115	15	8	12	15	VSMB0065		VSMBN065	
80	135	15	8	12	15	VSMB0080		VSMBN080	
100	135	20	12	16	15	VSMB0100		VSMBN100	
125	165	20	12	16	15	VSMB0125		VSMBN125	
150	180	20	12	16	15	VSMB0150		VSMBN150	
200	205	20	12	16	15	VSMB1200			
200	205	20	12	16	15	VSMB0200		VSMBN200	
250	240	30	14	25	15	VSMB1250			
250	240	30	14	25	15	VSMB0250		VSMBN250	
300	260	30	14	25	15	VSMB1300			
300	260	30	14	25	15	VSMB0300			
350	265	30	14	25	15	VSMB0350			
400	265	30	14	25	15	VSMB0400			

Flanges: ■ PN 10 ■ PN 16



PRESSURE / TEMPERATURE CHART EPDM

T ^a (°C)	-20	20	60	80	115
P (bar)	16	16	16	16	1

PRESSURE / TEMPERATURE CHART NBR

T ^a (°C)	-20	20	60	80
P (bar)	16	16	12	7

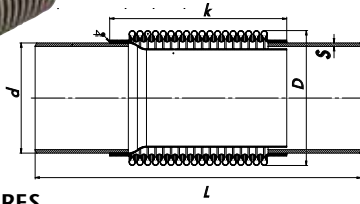
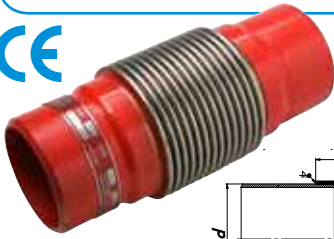
TECHNICAL FEATURES

Working pressure: PN 10 y PN 16
 Vacuum: 760 mm Hg (933 mbar).
 Temperature: -20° C a 115° C (EPDM);
 -10° C a 80° C (NBR).
 Connection through carbon steel flanges

COMPONENTS

Polymer: * EPDM inside and outside
 * NBR inside / EPDM outside
 Strengthening with steel wire nylon
 Zinc plated carbon steel flanges

METALLIC VIBRATION ABSORBER - WELDED ENDS

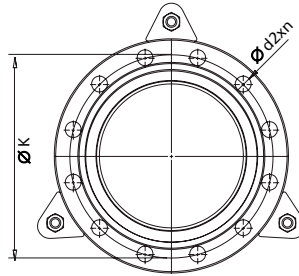
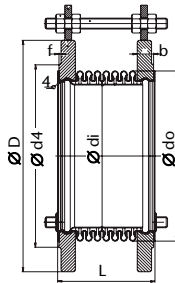


DN	DIMENSION				AXIAL COMPRESSION	CODE
	∅ d mm.	∅ D mm.	SPIRALES	L mm.		
25	38,0	48	20	250	+5 -25	VSMUM025
32	42,4	55	28	350	+10 -30	VSMUM032
40	48,3	61	24	350	+10 -30	VSMUM040
50	60,3	76	26	350	+10 -35	VSMUM050
65	76,1	95	26	350	+10 -35	VSMUM065
80	88,9	111	18	350	+10 -40	VSMUM080
100	114,3	140	18	350	+10 -40	VSMUM100
125	139,7	164	17	350	+10 -40	VSMUM125
150	168,3	200	15	350	+10 -40	VSMUM150
200	219,1	250	14	350	+10 -40	VSMUM200

TECHNICAL FEATURES

Working pressure: PN 16.
Liner: AISI 321.
Spring: AISI 321.
Body made of carbon steel.

METALLIC VIBRATION ABSORBER

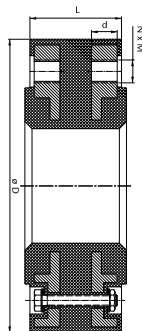


TECHNICAL FEATURES

Working pressure: PN 16.
Liner: AISI 321
Spring: AISI 321
Tie-Rods: Rst. 37.2
Support: Rst. 37.2
Nut: Rst. 37.2
Flanges: Rst. 37.2

DN	FLANGES						SPRING				L mm.	AXIAL COMPRESSION	CODE
	∅ D mm.	∅ k mm.	∅ d4 mm.	f mm.	b mm.	∅ d2xn	∅ di mm.	∅ do mm.	SPIRALES				
25	115	85	68	2	16	∅14x4	38,0	48,2	18	120	+10 -20	VSMBM025	
32	140	100	78	2	16	∅18x4	42,4	55,0	18	125	+10 -20	VSMBM032	
40	150	110	88	3	16	∅18x4	48,3	61,0	18	130	+10 -20	VSMBM040	
50	165	125	102	3	18	∅18x4	60,3	76,0	14	120	+10 -20	VSMBM050	
65	185	145	122	3	18	∅18x4	76,1	95,0	12	120	+10 -20	VSMBM065	
80	200	160	138	3	20	∅18x8	88,9	111,0	9	120	+10 -20	VSMBM080	
100	220	180	158	3	20	∅18x8	114,3	140,0	9	130	+10 -20	VSMBM100	
125	250	210	188	3	22	∅18x8	139,7	164,0	9	140	+10 -20	VSMBM125	
150	285	240	212	3	22	∅23x8	168,3	200,0	9	155	+8 -25	VSMBM150	
200	340	295	268	3	24	∅23x12	219,1	250,0	7	150	+8 -25	VSMBM200	
250	405	355	320	3	26	∅27x12	273,0	323,0	5	200	+8 -35	VSMBM250	

RUBBER EXPANSION JOINT



DN	L mm.	FLANGE PN10				CODE
		D mm.	HOLES DISTANCE mm.	N x M	d mm.	
20	71	111	75	4 x M12	14	VSMG0020
25	71	120	85	4 x M12	16	VSMG0025
32	71	146	100	4 x M16	16	VSMG0032
40	71	157	110	4 x M16	16	VSMG0040
50	71	171	125	4 x M16	16	VSMG0050
65	71	191	145	4 x M16	16	VSMG0065
80	71	207	160	8 x M16	18	VSMG0080
100	71	226	180	8 x M16	18	VSMG0100
125	71	256	210	8 x M16	18	VSMG0125
150	71	291	240	8 x M20	18	VSMG0150
200	91	347	295	8 x M20	20	VSMG0200

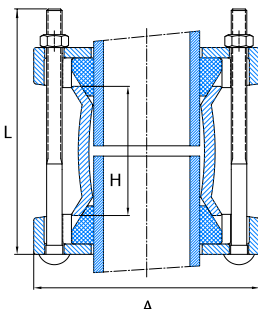
TECHNICAL FEATURES

Working pressure: PN 10.
Temperature: -10° C to 80° C.
Minimum torque: 30 Nm.
Union through vulcanized flanges.

COMPONENTS

Polymer: EPDM
Carbon steel flanges

770 DUCTILE IRON UNIVERSAL COUPLING

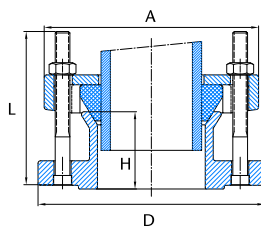


DN	TOLERANCE	BOLT			A mm.	H mm.	CODE
		Nº	METRIC	L mm.			
40	48-60	2	M12	200	145	95	VF770040
50	59-72	4	M12	200	161	100	VF770050
65	68-85	4	M12	200	166	100	VF770065
80	88-103	4	M12	200	190	100	VF770080
100	99-119	4	M12	200	225	100	VF770101
100	109-128	4	M12	190	221	95	VF770100
125	132-157	4	M12	190	245	95	VF770125
150	159-182	4	M12	200	281	105	VF770150
175	192-210	4	M12	230	305	130	VF770175
200	218-235	4	M12	230	331	130	VF770200
225	242-268	6	M12	230	367	130	VF770225
250	272-289	6	M12	230	395	130	VF770250
300	315-332	6	M12	230	440	130	VF770300

TECHNICAL FEATURES

Allows connection between ductile iron, steel, PVC and fiber cement pipes.
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM rubber seal.
 Carbon steel bolts with DACROMET coating.

780 DUCTILE IRON UNIVERSAL FLANGE ADAPTOR

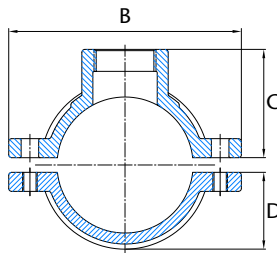
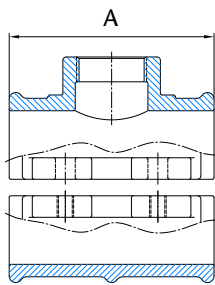


DN	TOLERANCE	BOLT			A mm.	D mm.	H mm.	CODE
		Nº	METRIC	L mm.				
50	59-72	4	M12	130	161	164	80	VF780050
65	68-85	4	M12	130	166	185	82	VF780065
80	88-103	4	M12	130	190	204	81	VF780080
100	99-119	4	M12	145	225	234	100	VF780101
100	109-128	4	M12	130	221	215	82	VF780100
125	132-157	4	M12	130	245	273	82	VF780125
150	159-182	4	M12	130	281	299	80	VF780150
200	192-210	4	M12	130	305	340	80	VF780175
200	218-235	4	M12	130	331	340	80	VF780200
250	242-268	6	M12	140	367	400	90	VF780225
250	272-289	6	M12	140	395	400	90	VF780250
300	315-332	6	M12	140	440	455	92	VF780300

TECHNICAL FEATURES

Suitable for flanges PN 10 and PN 16.
 Allows connection between ductile iron, steel, PVC and fiber cement pipes.
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM rubber seal.
 Carbon steel bolts with DACROMET coating.

720 DUCTILE IRON SADDLE FOR PVC / PE PIPE



Ø EXT PIPE mm.	THREADED OUTLET	A mm.	B mm.	C + D mm.	CODE
50	3/4"	80	115	84	VF720504
	1"	80	115	84	VF720505
63	3/4"	90	130	97	VF720634
	1"	90	130	97	VF720635
	1 1/4"	90	130	97	VF720636
	1 1/2"	90	130	97	VF720637
75	2"	90	130	97	VF720638
	3/4"	100	145	110	VF720754
	1"	100	145	110	VF720755
	1 1/4"	100	145	110	VF720756
90	1 1/2"	100	145	110	VF720757
	2"	100	145	110	VF720758
	3/4"	100	156	124	VF720904
	1"	100	156	124	VF720905
110	1 1/4"	100	156	124	VF720906
	1 1/2"	100	156	124	VF720907
	2"	100	156	124	VF720908
	3/4"	100	178	144	VF721104
125	1"	100	178	144	VF721105
	1 1/4"	100	178	144	VF721106
	1 1/2"	100	178	144	VF721107
	2"	100	178	144	VF721108
140	3/4"	110	198	160	VF721254
	1"	110	198	160	VF721255
	1 1/4"	110	198	160	VF721256
	1 1/2"	110	198	160	VF721257
	2"	110	198	160	VF721258
	2 1/2"	110	198	160	VF72125A
	3"	110	198	160	VF72125B
160	1"	110	215	176	VF721405
	1 1/4"	110	215	176	VF721406
	1 1/2"	110	215	176	VF721407
	2"	110	215	176	VF721408
	2 1/2"	110	215	176	VF72140A
200	3"	110	215	176	VF72140B
	1"	125	235	198	VF721605
	1 1/4"	125	235	198	VF721606
	1 1/2"	125	235	198	VF721607
250	2"	125	235	198	VF721608
	3"	125	235	198	VF72160B
	1"	140	290	240	VF722005
	1 1/4"	140	290	240	VF722006
315	1 1/2"	140	290	240	VF722007
	2"	140	290	240	VF722008
	3"	140	290	240	VF72200B
	1"	140	341	291	VF722505
315	1 1/2"	140	341	291	VF722507
	2"	140	341	291	VF722508
	3"	140	341	291	VF72250B
315	2"	140	409	356	VF723158
	3"	140	409	356	VF72315B

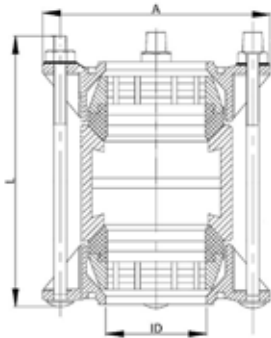
TECHNICAL FEATURES

Produced by ductile iron GGG 50 (EN-GJS-500-7) with "EPOXY" powder coating 250 µm.
EPDM rubber seal.
Stainless steel bolts A2.

730 DUCTILE IRON COUPLING FOR PE PIPE



∅ mm.	BOLT		A mm.	L mm.	ID mm.	CODE
	METRIC	Nº				
63	M12	4	165	180	67	VF730063
75	M12	4	177	180	79	VF730075
90	M12	4	195	180	94	VF730090
110	M12	4	212	180	115	VF730110
125	M12	4	228	200	130	VF730125
140	M12	4	245	200	145	VF730140
160	M12	4	270	220	165	VF730160
200	M12	4	313	220	205	VF730200
250	M16	6	375	250	255	VF730250
315	M16	6	442	300	320	VF730315



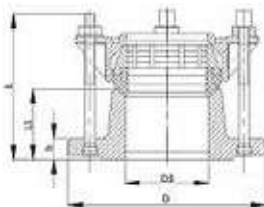
TECHNICAL FEATURES

Working pressure: PN 16.
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM sealing ring.
 Brass grip ring.
 Steel bolts with DACROMET coating.
 Independent fastening on both sides.

740 DUCTILE IRON FLANGE ADAPTER FOR PE PIPE



DN	∅ mm.	BOLT		D3 mm.	b mm.	L1 mm.	L mm.	D mm.	CODE
		METRIC	Nº						
50/65	63	M12	4	80	19	65	110	185	VF740063
65	75	M12	4	94	19	65	110	185	VF740075
80	90	M12	4	108	19	65	110	200	VF740090
100	110	M12	4	128	19	65	110	220	VF740110
125	125	M12	4	142	19	65	120	250	VF740125
125	140	M12	4	160	19	65	120	250	VF740140
150	160	M12	4	180	19	65	120	285	VF740160
200	200	M16	4	220	19	75	140	340	VF740200
250	250	M16	6	270	22	85	170	400	VF740250
300	315	M16	6	334	24	85	170	455	VF740315

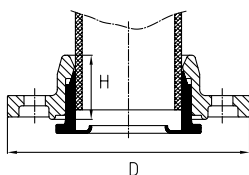


TECHNICAL FEATURES

Working pressure: PN 16
 Flanges: PN 10/16
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM sealing ring.
 Brass grip ring.
 Steel bolts with DACROMET coating.

750

DUCTILE IRON FLANGE ADAPTER FOR PE PIPE



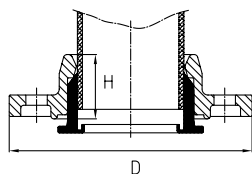
DN	∅ mm.	H mm.	D mm.	CODE	
50 - 65	63	50	185	VF750063	
65	75	55	185	VF750075	
80	90	60	195	VF750090	
100	110	62	216	VF750110	
125	125	70	250	VF750125	
125	140	78	250	VF750140	
150	160	78	285	VF750160	
200	200	88	336	VF750200	

TECHNICAL FEATURES

Flanges: PN 10/16
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM sealing ring.
 Brass grip ring.

760

DUCTILE IRON FLANGE ADAPTER FOR PVC PIPE

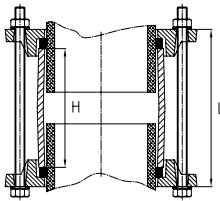


DN	∅ mm.	H mm.	D mm.	CODE	
50 - 65	63	50	185	VF760063	
65	75	55	185	VF760075	
80	90	60	195	VF760090	
100	110	62	216	VF760110	
125	125	70	250	VF760125	
125	140	78	250	VF760140	
150	160	78	285	VF760160	
200	200	88	336	VF760200	

TECHNICAL FEATURES

Flanges: PN 10/16
 Produced by ductile iron GGG 40 (EN-GJS-400-15) with "EPOXY" powder coating 250 µm.
 EPDM sealing ring.

710/D DUCTILE IRON GIBBAULT COUPLING FOR PVC PIPE

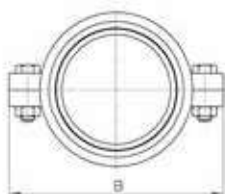
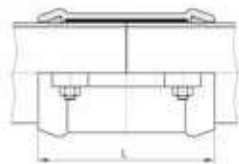


Ø mm.	BOLT		H mm.	L mm.	CODE
	METRIC	Nº			
63	M12	2	125	164	VF71D063
75	M12	2	125	164	VF71D075
90	M12	3	125	164	VF71D090
110	M12	3	145	184	VF71D110
125	M12	3	145	184	VF71D125
140	M12	4	145	184	VF71D140
160	M12	4	180	219	VF71D160
180	M12	4	180	219	VF71D180
200	M12	4	180	219	VF71D200
250	M12	6	180	220	VF71D250
315	M12	6	180	220	VF71D315

TECHNICAL FEATURES

Produced by ductile iron GGG 50 (EN-GJS-500-7) with "EPOXY" powder coating 250 µm.
EPDM sealing gasket.
Zink plated steel bolts.

830 DUCTILE IRON SEALING CLAMP FOR PE PIPE



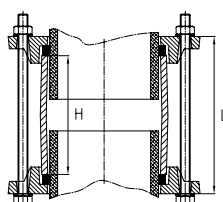
Ø mm.	B mm.	L mm.	CODE
63	144	164	VF830063
75	156	170	VF830075
90	174	174	VF830090
110	196	195	VF830110
125	214	195	VF830125
140	228	220	VF830140
160	254	245	VF830160
200	308	316	VF830200

TECHNICAL FEATURES

Produced by ductile iron GGG 50 (EN-GJS-500-7) with "EPOXY" powder coating 250 µm.
Brass grip ring.
EPDM sealing clamp
Stainless steel bolts.

710

GREY CAST IRON GIBAULT COUPLING FOR PVC PIPE



Ø mm.	BOLT		H mm.	L mm.	CODE
	METRIC	Nº			
50	M10	2	70	96	VF710050
63	M10	2	100	139	VF710063
75	M10	2	100	135	VF710075
90	M10	2	110	140	VF710090
110	M10	3	120	150	VF710110
125	M12	3	120	157	VF710125
140	M12	3	120	157	VF710140
160	M12	3	140	176	VF710160
180	M12	3	140	181	VF710180
200	M12	3	140	176	VF710200
250	M14	4	160	204	VF710250
315	M14	4	160	204	VF710315
400	M14	6	160	208	VF710400
500	M14	6	160	216	VF710500

TECHNICAL FEATURES

Produced by Grey Cast Iron GG 25 (EN-GJL-250) painted in black.
EPDM sealing gasket.
Zinc plated steel bolts.

790

GREY CAST IRON SADDLE FOR PVC PIPE



TECHNICAL FEATURES

Produced by Grey Cast Iron GG 25 (EN-GJL-250) painted in black.
EPDM sealing gasket.
Zinc plated steel bolts.

DN	Ø	CODE
40	3/4"	VF790404
	1"	VF790405
50	3/4"	VF790504
	1"	VF790505
63	3/4"	VF790634
	1"	VF790635
	1 1/4"	VF790636
75	3/4"	VF790754
	1"	VF790755
	1 1/4"	VF790756
	1 1/2"	VF790757
90	3/4"	VF790904
	1"	VF790905
	1 1/4"	VF790906
	1 1/2"	VF790907
	2"	VF790908
110	3/4"	VF791104
	1"	VF791105
	1 1/4"	VF791106
	1 1/2"	VF791107
	2"	VF791108
	2 1/2"	VF79110A
125	3/4"	VF791254
	1"	VF791255
	1 1/4"	VF791256
	1 1/2"	VF791257
	2"	VF791258

DN	Ø	CODE
125	2 1/2"	VF79125A
	3"	VF79125B
140	1"	VF791405
	1 1/4"	VF791406
	1 1/2"	VF791407
	2"	VF791408
160	2 1/2"	VF79140A
	3"	VF79140B
	1"	VF791605
	1 1/4"	VF791606
	1 1/2"	VF791607
200	2"	VF791608
	2 1/2"	VF79160A
	3"	VF79160B
	1"	VF792005
	1 1/4"	VF792006
250	1 1/2"	VF792007
	2"	VF792008
	2 1/2"	VF79200A
	3"	VF79200B
	2"	VF792508
315	2 1/2"	VF79250A
	3"	VF79250B
	2"	VF793158
315	2 1/2"	VF79315A
	3"	VF79315B

IRRIGATION HYDRANTS

RECTANGULAR IRRIGATION HYDRANT "MADRID" TYPE

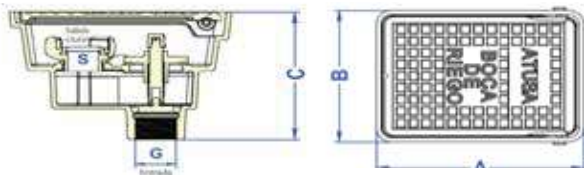


INPUT	OUTPUT mm.	A mm.	B mm.	C mm.	CODE
1 1/2"	Express connection 45	260	190	182	VFBRM745
1 1/2"	"MADRID" type connection	260	190	182	VFBRM0SM



COMPONENTS

Body and Cover: Ductile Iron GGG50 (EN-GJS-500-7)
Valve: Brass
Seal: Brass + EPDM
Hose Connection: Aluminum / Brass
Gasket: EPDM
Bolts: A2 Stainless Steel



OVAL IRRIGATION HYDRANT "BARCELONA" TYPE

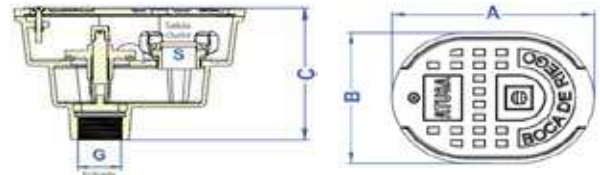


INPUT	OUTPUT mm.	A mm.	B mm.	C mm.	CODE
1 1/2"	Express connection 45	250	184	172	VFBRB745



COMPONENTS

Body and Cover: Ductile Iron GGG50 (EN-GJS-500-7)
Valve: Brass
Seal: Brass + EPDM
Hose Connection: Aluminum
Gasket: EPDM
Bolts: A2 Stainless Steel



ACCESSORIES



HYDRANT ELBOW CONNECTION

CODE
VFBRM0CC



HYDRANT BRASS VALVE

CODE
VFBR0VAL



"MADRID" TYPE CONNECTION

CODE
VFBRM0RM



"BARCELONA" TYPE CONNECTION

CODE
VFBR0B45

REPAIRING CLAMPS



SINGLE BAND

LENGTH 75 mm., 1 bolt M10



For quick repairs on steel, cast iron, asbestos cement.
Manufactured entirely in stainless steel AISI 304.
Gasket of EPDM rubber with grid structure.
Zinc plated steel bolts.

LENGTH mm.	TOLERANCE mm.	MAX. PRESSURE bar	CODE
75	21-25	16	VF817021
75	26-30	16	VF817026
75	29-33	16	VF817029
75	33-37	16	VF817033
75	38-42	16	VF817038
75	42-45	16	VF817042
75	44-48	16	VF817044
75	48-51	16	VF817048
75	50-54	16	VF817050
75	55-60	16	VF817055
75	60-64	16	VF817060
75	71-76	16	VF817071
75	87-93	16	VF817087
75	112-118	16	VF817112



SINGLE BAND

LENGTH 200 mm., 2 bolts M14



For quick repairs on steel, cast iron, asbestos cement,
PE and PVC (only water).
Manufactured entirely in stainless steel AISI 304.
Gasket of EPDM rubber with grid structure.
Maximum working temperature: 120° C.

LENGTH mm.	TOLERANCE mm.	MAX. PRESSURE bar	CODE
200	48-55	16	VF812048
200	52-59	16	VF812052
200	60-67	16	VF812060
200	67-74	16	VF812067
200	73-80	16	VF812073
200	82-90	16	VF812082
200	87-95	16	VF812087
200	95-105	16	VF812095
200	108-118	16	VF812108
200	118-128	16	VF812118
200	135-145	16	VF812135
200	145-155	16	VF812145
200	151-161	16	VF812151
200	165-175	16	VF812165
200	176-186	16	VF812176
200	193-203	16	VF812193
200	200-212	10	VF812200
200	219-229	10	VF812219



DOUBLE BAND

LENGTH 300 mm., 3 bolts M16
LENGTH 400 mm., 4 bolts M16



LENGTH mm.	TOLERANCE mm.	MAX. PRESSURE bar	CODE
300	108-128	16	VF823108
300	135-155	16	VF823135
300	159-180	16	VF823159
300	190-210	16	VF823190
300	210-230	10	VF823210
300	225-246	10	VF823225
300	240-260	10	VF823240
300	269-289	10	VF823269
300	282-302	10	VF823282
300	295-315	10	VF823295
400	322-344	6	VF824322
400	347-367	6	VF824347
400	365-385	6	VF824365
400	395-415	6	VF824395
400	420-440	6	VF824420


506 WEDGE
for Ref. 500

DN	CODE	
40	VF506040	
50	VF506050	
65	VF506065	
80	VF506080	
100	VF506100	
125	VF506125	
150	VF506150	
200	VF506200	
250	VF506250	
300	VF506300	
350	VF506350	
400	VF506400	
500	VF506500	


507 HANDWHEEL
for Ref. 500

DN	CODE	
40 - 50 - 65	VF507050	
80	VF507080	
100	VF507100	
125 - 150	VF507125	
200	VF507200	
250 - 300	VF507250	
350 - 400	VF507350	
500	VF507500	


515 SCREEN
for Ref. 510

DN	CODE	
40	VF515040	
50	VF515050	
65	VF515065	
80	VF515080	
100	VF515100	
125	VF515125	
150	VF515150	
200	VF515200	
250	VF515250	
300	VF515300	
350	VF515350	
400	VF515400	


516 GASKET
for Ref. 510

DN	CODE	
40	VF516040	
50	VF516050	
65	VF516065	
80	VF516080	
100	VF516100	
125	VF516125	
150	VF516150	
200	VF516200	
250	VF516250	
300	VF516300	
350	VF516350	
400	VF516400	


517 PLUG
for Ref. 510

DN	CODE	
40 - 50 - 65 80 - 100 125 - 150	VF517040	
200 - 250 - 300	VF517200	
350 - 400 - 500	VF517350	



558 BALL for Ref.550 and 555

DN	CODE	
1" - 1 1/4"	VF558006	
1 1/2" - 40	VF558007	
2" - 50	VF558050	
2 1/2" - 65	VF558065	
3" - 80	VF558080	
100	VF558100	
125	VF558125	
150	VF558150	
200	VF558200	
250	VF558250	
300	VF558300	



559 GASKET for Ref. 550 and 555

DN	CODE	
1" - 1 1/4"	VF559006	
1 1/2"	VF559007	
2"	VF559008	
2 1/2"	VF55900A	
3"	VF55900B	
40	VF559040	
50	VF559050	
65	VF559065	
80	VF559080	
100	VF559100	
125	VF559125	
150	VF559150	
200	VF559200	
250	VF559250	
300	VF559300	



571 HANDLE for Ref. 570

DN	CODE	
15-20	VF57P015	
25-32	VF57P025	
40	VF57P040	
50	VF57P050	
65-80	VF57P065	
100	VF57P100	
125-150	VF57P125	
200	VF57P200	



719 GASKET FOR GIBAULT coupling

DN	CODE	
50	VF71J050	
63	VF71J063	
75	VF71J075	
90	VF71J090	
110	VF71J110	
125	VF71J125	
140	VF71J140	
160	VF71J160	
180	VF71J180	
200	VF71J200	
250	VF71J250	
315	VF71J315	
400	VF71J400	
500	VF71J500	

990 GEAR OPERATOR for Ref. 901, 911, 931, 951, 961 and 971



DN	CODE	
32 - 40 - 50 - 65	VF990050	
80 - 100	VF990080	
125 - 150	VF990125	
200	VF990200	
250	VF990250	
300	VF990300	
350	VF990350	
400	VF990400	
500	VF990500	

991 LEVER for Ref. 900, 910, 930, 950, 960 and 970



DN	CODE	
32 - 40 - 50 - 65	VF991050	
80 - 100	VF991080	
125 - 150	VF991125	
200	VF991200	
250 - 300	VF991250	

ACTUATED VALVES

The actuation of cast valves and ball valves is a new step focused to meet the needs of our customers in the automation sector.

In this sector we present a wide range of rotary quarter turn pneumatic actuators in their single and double effect versions as well as multi voltage electric actuators, all accompanied by the corresponding complements to be used in the conditions specified in applications related to fluid conduction.



ACTUATED
VALVES



ACTUATED VALVES



VALVES AUTOMATION

Many current applications are based on a high degree of automation and control so we present here the automation of cast (butterfly) and stainless (ball) valves by pneumatic and electric rotary actuators. These actuators will position the valves in accordance with manoeuvring orders and once the desired position has been reached, they are deactivated and their status can be signalled to the control system by sensors.

SINGLE RETURN AND DOUBLE ACTING PNEUMATIC ACTUATORS

Rotary pneumatic actuator with “rack-pinion” system that transforms the energy of the compressed air into mechanical energy of rotation limited to a quarter turn (90°), suitable for the automation of any type of valve with a 90° turn (ball, butterfly, etc) guaranteeing a high number of cycles.

General characteristics:

- Supply of pairs (air 6 bar) from 12 to 3120 Nm, extendable up to 10857 Nm.
- Designed for possible configuration change from SE to DE and vice versa.
- External adjustment of the angular running of the pistons (± 5) both in opening and closing.
- Corrosion protection with hard anodizing applied on extruded aluminum housing.
- Ingress protection IP67.
- Non-ejectable shaft.
- Pistons in injected aluminum, anodized and machined to prolong the life of the actuator.
- Injected aluminum caps protected with epoxy.
- Pinion in nickel-plated carbon steel.
- AISI 304 stainless steel bolts.
- Valve centering according to ISO 5211/DIN 3337.
- NAMUR solenoid valve assembly and accessories NAMUR VDI/VDE 3845.
- ATEX approval according to Directive 2014/34/EU.

Configuration by default:

Simple effect : the actuator is supplied for clockwise rotation in the air failure mode, the valve will remain in closed position (NC).
 - it is necessary to apply air pressure to open (compress the springs, counterclockwise turn).
 - without air pressure the actuator returns to the initial position (NC, CLOSED valve) due to spring decompression.

Double effect: The actuator is supplied for anti-clockwise rotation when pressure is applied (compressed air is required for both opening and closing). On request, the direction of rotation of the pistons can be reversed.



**PNEUMATIC
ACTUATOR**

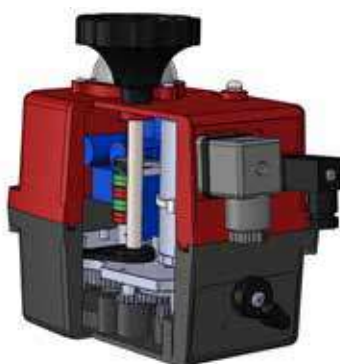


ELECTRIC ACTUATORS

Multi-voltage electric actuator that transforms electrical energy into mechanical energy of rotation limited to a quarter turn (90°) by means of a brushless motor and a reducer that transmits the necessary torque to the shaft of the coupled valve. Electric actuator is ideal for automation of any type of valve with a 90° (ball, butterfly, etc) guaranteeing a high number of cycles. The Installation of electric actuator allows to operate a valve without manual intervention of an operator through control devices placed remotely.

General characteristics:

- Supply of pairs from 20 to 350 Nm.
- Connector for multi-voltage power supply and auxiliary contacts.
- Automatic or manual operation with manual emergency control.
- Visual position indicator: polyamide.
- Electronic torque limiter.
- Automatic internal temperature control.
- Tamper switches.
- Ingress protection IP67 s/IEC 60529.



WORKING CONDITIONS (PNEUMATIC AND ELECTRIC ACTUATORS)

Starting and manoeuvring torque under operating conditions may vary depending on fluid conditions. To avoid operational failures in the valve actuation must be respected the following conditions:

Pneumatic Actuators.

- Supply with filtered, dry or lubricated compressed air.
- Air supply pressure: minimum 6 bar.
- Temperature for standard construction: -20° C a +80° C.

Electric Actuators.

- Low voltage (type B), 12 VDC/VAC 50/60 Hz -0/+5%.
- High voltaje (type S), 24 a 240VAC 50/60 Hz y 24-125VDC -0/+5%.
- Working temperature: -20° C to +70° C.
- Manoeuvring time without load: 10 to 48 seconds (90° C), consult for special manoeuvring time.
- Time under tension: 75%.

For other voltages please consult.

Pneumatic and electric actuators.

Type of fluids to conduct (*):

- non-aggressive liquids free of contaminants that can modify the friction of the valve opening-closing system.
- stable fluid speed.
- minimum defined monthly operating cycle.

(*) for any other type of fluid, whether liquid or gaseous, pre-order consultation.

OPTIONAL DEVICES (PNEUMATIC AND ELECTRIC ACTUATORS)

Standard devices are available in the accessories section. For any other type not specified please consult.

A 900 WAFER BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)

Disc: Stainless Steel AISI 316 (CF8M)

Stem: EPDM

Working pressure: PN 16

Temperature: -10° C to 120° C

Suitable for flanges PN 10 and PN 16

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).

Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.


PNEUMATIC ACTUATOR

SINGLE RETURN		DOUBLE ACTING	
DN	CODE	DN	CODE
32	AS900032	32	AD900032
40	AS900040	40	AD900040
50	AS900050	50	AD900050
65	AS900065	65	AD900065
80	AS900080	80	AD900080
100	AS900100	100	AD900100
125	AS900125	125	AD900125
150	AS900150	150	AD900150
200	AS900200	200	AD900200
250	AS900250	250	AD900250
300	AS900300	300	AD900300
350	AS900350	350	AD900350
400	AS900400	400	AD900400
500	AS900500	500	AD900500


ELECTRIC ACTUATOR

LOW VOLTAGE		HIGH VOLTAGE	
DN	CODE	DN	CODE
32	AB900032	32	AA900032
40	AB900040	40	AA900040
50	AB900050	50	AA900050
65	AB900065	65	AA900065
80	AB900080	80	AA900080
100	AB900100	100	AA900100
125	AB900125	125	AA900125
150	AB900150	150	AA900150
200	AB900200	200	AA900200
250	AB900250	250	AA900250

A 910 WAFER BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)
Disc: Ductile Iron GGG40 (EN-GJS-400-15) Nickel plated
Stem: EPDM
Working pressure: PN 16
Temperature: -10° C to 120° C
 Suitable for flanges PN 10 and PN 16

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
32	AS910032		32	AD910032	
40	AS910040		40	AD910040	
50	AS910050		50	AD910050	
65	AS910065		65	AD910065	
80	AS910080		80	AD910080	
100	AS910100		100	AD910100	
125	AS910125		125	AD910125	
150	AS910150		150	AD910150	
200	AS910200		200	AD910200	
250	AS910250		250	AD910250	
300	AS910300		300	AD910300	
350	AS910350		350	AD910350	
400	AS910400		400	AD910400	
500	AS910500		500	AD910500	



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
32	AB910032		32	AA910032	
40	AB910040		40	AA910040	
50	AB910050		50	AA910050	
65	AB910065		65	AA910065	
80	AB910080		80	AA910080	
100	AB910100		100	AA910100	
125	AB910125		125	AA910125	
150	AB910150		150	AA910150	
200	AB910200		200	AA910200	
250	AB910250		250	AA910250	

A 930 WAFER BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)

Disc: Stainless Steel AISI 316 (CF8M)

Stem: NBR

Working pressure: PN 16

Temperature: -10° C to 80° C

Suitable for flanges PN 10 and PN 16

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).

Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
32	AS930032		32	AD930032	
40	AS930040		40	AD930040	
50	AS930050		50	AD930050	
65	AS930065		65	AD930065	
80	AS930080		80	AD930080	
100	AS930100		100	AD930100	
125	AS930125		125	AD930125	
150	AS930150		150	AD930150	
200	AS930200		200	AD930200	
250	AS930250		250	AD930250	
300	AS930300		300	AD930300	



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
32	AB930032		32	AA930032	
40	AB930040		40	AA930040	
50	AB930050		50	AA930050	
65	AB930065		65	AA930065	
80	AB930080		80	AA930080	
100	AB930100		100	AA930100	
125	AB930125		125	AA930125	
150	AB930150		150	AA930150	
200	AB930200		200	AA930200	
250	AB930250		250	AA930250	



A 950 LUG BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)

Disc: Stainless Steel AISI 316 (CF8M)

Stem: EPDM

Working pressure: PN 16

Temperature: -10° C to 120° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
32	AS950032		32	AD950032	
40	AS950040		40	AD950040	
50	AS950050		50	AD950050	
65	AS950065		65	AD950065	
80	AS950080		80	AD950080	
100	AS950100		100	AD950100	
125	AS950125		125	AD950125	
150	AS950150		150	AD950150	
200	AS950201		200	AD950201	
200	AS950200		200	AD950200	
250	AS950251		250	AD950251	
250	AS950250		250	AD950250	
300	AS950301		300	AD950301	
300	AS950300		300	AD950300	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
32	AB950032		32	AA950032	
40	AB950040		40	AA950040	
50	AB950050		50	AA950050	
65	AB950065		65	AA950065	
80	AB950080		80	AA950080	
100	AB950100		100	AA950100	
125	AB950125		125	AA950125	
150	AB950150		150	AA950150	
200	AB950201		200	AA950201	
200	AB950200		200	AA950200	
250	AB950251		250	AA950251	
250	AB950250		250	AA950250	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

A 960 LUG BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)
Disc: Ductile Iron GGG40 (EN-GJS-400-15) Nickel Plated
Stem: EPDM
Working pressure: PN 16
Temperature: -10° C to 120° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
32	AS960032		32	AD960032	
40	AS960040		40	AD960040	
50	AS960050		50	AD960050	
65	AS960065		65	AD960065	
80	AS960080		80	AD960080	
100	AS960100		100	AD960100	
125	AS960125		125	AD960125	
150	AS960150		150	AD960150	
200	AS960201		200	AD960201	
200	AS960200		200	AD960200	
250	AS960251		250	AD960251	
250	AS960250		250	AD960250	
300	AS960301		300	AD960301	
300	AS960300		300	AD960300	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
32	AB960032		32	AA960032	
40	AB960040		40	AA960040	
50	AB960050		50	AA960050	
65	AB960065		65	AA960065	
80	AB960080		80	AA960080	
100	AB960100		100	AA960100	
125	AB960125		125	AA960125	
150	AB960150		150	AA960150	
200	AB960201		200	AA960201	
200	AB960200		200	AA960200	
250	AB960251		250	AA960251	
250	AB960250		250	AA960250	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

A 970 LUG BUTTERFLY ACTUATED VALVE

VALVE

Body: Ductile Iron GGG40 (EN-GJS-400-15)

Disc: Stainless Steel AISI 316 (CF8M)

Stem: NBR

Working pressure: PN 16

Temperature: -10° C to 80° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).

Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
32	AS970032		32	AD970032	
40	AS970040		40	AD970040	
50	AS970050		50	AD970050	
65	AS970065		65	AD970065	
80	AS970080		80	AD970080	
100	AS970100		100	AD970100	
125	AS970125		125	AD970125	
150	AS970150		150	AD970150	
200	AS970201		200	AD970201	
200	AS970200		200	AD970200	
250	AS970251		250	AD970251	
250	AS970250		250	AD970250	
300	AS970301		300	AD970301	
300	AS970300		300	AD970300	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
32	AB970032		32	AA970032	
40	AB970040		40	AA970040	
50	AB970050		50	AA970050	
65	AB970065		65	AA970065	
80	AB970080		80	AA970080	
100	AB970100		100	AA970100	
125	AB970125		125	AA970125	
150	AB970150		150	AA970150	
200	AB970201		200	AA970201	
200	AB970200		200	AA970200	
250	AB970251		250	AA970251	
250	AB970250		250	AA970250	

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

A 570 ACTUATED BALL VALVE

VALVE

Body: Grey Cast Iron GG 25 (EN-GJL-250)
Ball: Stainless Steel AISI 304
Seat: PTFE
Stem: Stainless Steel AISI 304
Working pressure: PN 16
Temperature: -10° C to 150° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
15	AS570015		15	AD570015	
20	AS570020		20	AD570020	
25	AS570025		25	AD570025	
32	AS570032		32	AD570032	
40	AS570040		40	AD570040	
50	AS570050		50	AD570050	
65	AS570065		65	AD570065	
80	AS570080		80	AD570080	
100	AS570100		100	AD570100	
125	AS570125		125	AD570125	
150	AS570150		150	AD570150	
200	AS570200		200	AD570200	

Flanges: PN 10/16 PN 16



ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
15	AB570015		15	AA570015	
20	AB570020		20	AA570020	
25	AB570025		25	AA570025	
32	AB570032		32	AA570032	
40	AB570040		40	AA570040	
50	AB570050		50	AA570050	
65	AB570065		65	AA570065	
80	AB570080		80	AA570080	
100	AB570100		100	AA570100	
125	AB570125		125	AA570125	

Flanges: PN 10/16

A 90E/A 91E /A 92E ALIMENTARY ACTUATED VALVE

VALVE

Body and disque: Stainless Steel AISI 304
 Elastomer : EPDM
 Size : DIN 11851
 Working pressure: PN10
 Temperature : -20° C to 130° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.



A 90E - THREAD / THREAD



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
25	AS90E025		25	AD90E025	
32	AS90E032		32	AD90E032	
40	AS90E040		40	AD90E040	
50	AS90E050		50	AD90E050	
65	AS90E065		65	AD90E065	
80	AS90E080		80	AD90E080	
100	AS90E100		100	AD90E100	

ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
25	AB90E025		25	AA90E025	
32	AB90E032		32	AA90E032	
40	AB90E040		40	AA90E040	
50	AB90E050		50	AA90E050	
65	AB90E065		65	AA90E065	
80	AB90E080		80	AA90E080	
100	AB90E100		100	AA90E100	



A 91E - THREAD / WELD



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
25	AS91E025		25	AD91E025	
32	AS91E032		32	AD91E032	
40	AS91E040		40	AD91E040	
50	AS91E050		50	AD91E050	
65	AS91E065		65	AD91E065	
80	AS91E080		80	AD91E080	
100	AS91E100		100	AD91E100	

ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
25	AB91E025		25	AA91E025	
32	AB91E032		32	AA91E032	
40	AB91E040		40	AA91E040	
50	AB91E050		50	AA91E050	
65	AB91E065		65	AA91E065	
80	AB91E080		80	AA91E080	
100	AB91E100		100	AA91E100	



A 92E - WELD / WELD



PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
25	AS92E025		25	AD92E025	
32	AS92E032		32	AD92E032	
40	AS92E040		40	AD92E040	
50	AS92E050		50	AD92E050	
65	AS92E065		65	AD92E065	
80	AS92E080		80	AD92E080	
100	AS92E100		100	AD92E100	

ELECTRIC ACTUATOR					
LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
25	AB92E025		25	AA92E025	
32	AB92E032		32	AA92E032	
40	AB92E040		40	AA92E040	
50	AB92E050		50	AA92E050	
65	AB92E065		65	AA92E065	
80	AB92E080		80	AA92E080	
100	AB92E100		100	AA92E100	



A I2PR

TWO PIECES ACTUATED BALL VALVE WITH FULL BORE – THREADED

VALVE

Body and Cap: CF8M (AISI 316)

Stem: AISI 304

Ball: AISI 316 with seat PTFE+15% GF

Temperature: -10° C to 150° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).

Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR

SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
1/4"	ASI2P061		1/4"	ADI2P061	
3/8"	ASI2P062		3/8"	ADI2P062	
1/2"	ASI2P063		1/2"	ADI2P063	
3/4"	ASI2P064		3/4"	ADI2P064	
1"	ASI2P065		1"	ADI2P065	
1 1/4"	ASI2P066		1 1/4"	ADI2P066	
1 1/2"	ASI2P067		1 1/2"	ADI2P067	
2"	ASI2P068		2"	ADI2P068	



ELECTRIC ACTUATOR

LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
1/4"	ABI2P061		1/4"	AAI2P061	
3/8"	ABI2P062		3/8"	AAI2P062	
1/2"	ABI2P063		1/2"	AAI2P063	
3/4"	ABI2P064		3/4"	AAI2P064	
1"	ABI2P065		1"	AAI2P065	
1 1/4"	ABI2P066		1 1/4"	AAI2P066	
1 1/2"	ABI2P067		1 1/2"	AAI2P067	
2"	ABI2P068		2"	AAI2P068	

A I3PR

THREE PIECES ACTUATED BALL VALVE WITH FULL BORE - SOCKET WELD

VALVE

Body and Cap: CF8M (AISI 316)

Stem: AISI 304

Ball: AISI 316 with seat PTFE+15% GF

Temperature: -10° C to 180° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR

SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
1/2"	ASI3P063		1/2"	ADI3P063	
3/4"	ASI3P064		3/4"	ADI3P064	
1"	ASI3P065		1"	ADI3P065	
1 1/4"	ASI3P066		1 1/4"	ADI3P066	
1 1/2"	ASI3P067		1 1/2"	ADI3P067	
2"	ASI3P068		2"	ADI3P068	
2 1/2"	ASI3P069		2 1/2"	ADI3P069	
3"	ASI3P06A		3"	ADI3P06A	
4"	ASI3P06C		4"	ADI3P06C	



ELECTRIC ACTUATOR

LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
1/2"	ABI3P063		1/2"	AAI3P063	
3/4"	ABI3P064		3/4"	AAI3P064	
1"	ABI3P065		1"	AAI3P065	
1 1/4"	ABI3P066		1 1/4"	AAI3P066	
1 1/2"	ABI3P067		1 1/2"	AAI3P067	
2"	ABI3P068		2"	AAI3P068	
2 1/2"	ABI3P069		2 1/2"	AAI3P069	
3"	ABI3P06A		3"	AAI3P06A	
4"	ABI3P06C		4"	AAI3P06C	

A I3PB

THREE PIECES ACTUATED BALL VALVE WITH FULL BORE - BUTT WELD

VALVE

Body and Cap: CF8M (AISI 316)
Stem: AISI 304
Ball: AISI 316 with seat PTFE+15% GF
Temperature: -20° C to 180° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.


PNEUMATIC ACTUATOR

SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
1/2"	ASI3PB63		1/2"	ADI3PB63	
3/4"	ASI3PB64		3/4"	ADI3PB64	
1"	ASI3PB65		1"	ADI3PB65	
1 1/4"	ASI3PB66		1 1/4"	ADI3PB66	
1 1/2"	ASI3PB67		1 1/2"	ADI3PB67	
2"	ASI3PB68		2"	ADI3PB68	
2 1/2"	ASI3PB69		2 1/2"	ADI3PB69	
3"	ASI3PB6A		3"	ADI3PB6A	
4"	ASI3PB6C		4"	ADI3PB6C	


ELECTRIC ACTUATOR

LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
1/2"	ABI3PB63		1/2"	AAI3PB63	
3/4"	ABI3PB64		3/4"	AAI3PB64	
1"	ABI3PB65		1"	AAI3PB65	
1 1/4"	ABI3PB66		1 1/4"	AAI3PB66	
1 1/2"	ABI3PB67		1 1/2"	AAI3PB67	
2"	ABI3PB68		2"	AAI3PB68	
2 1/2"	ABI3PB69		2 1/2"	AAI3PB69	
3"	ABI3PB6A		3"	AAI3PB6A	
4"	ABI3PB6C		4"	AAI3PB6C	

A I3PS

THREE PIECES ACTUATED BALL VALVE WITH FULL BORE - SOCKET WELD

VALVE

Body and Cap: CF8M (AISI 316)

Stem: AISI 304

Ball: AISI 316 with seat PTFE+15% GF

Temperature: -20° C to 180° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).

Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR

SINGLE RETURN			DOUBLE ACTING		
DN	CODE		DN	CODE	
1/2"	AS13PS63		1/2"	AD13PS63	
3/4"	AS13PS64		3/4"	AD13PS64	
1"	AS13PS65		1"	AD13PS65	
1 1/4"	AS13PS66		1 1/4"	AD13PS66	
1 1/2"	AS13PS67		1 1/2"	AD13PS67	
2"	AS13PS68		2"	AD13PS68	
2 1/2"	AS13PS69		2 1/2"	AD13PS69	
3"	AS13PS6A		3"	AD13PS6A	
4"	AS13PS6C		4"	AD13PS6C	



ELECTRIC ACTUATOR

LOW VOLTAGE			HIGH VOLTAGE		
DN	CODE		DN	CODE	
1/2"	AB13PS63		1/2"	AA13PS63	
3/4"	AB13PS64		3/4"	AA13PS64	
1"	AB13PS65		1"	AA13PS65	
1 1/4"	AB13PS66		1 1/4"	AA13PS66	
1 1/2"	AB13PS67		1 1/2"	AA13PS67	
2"	AB13PS68		2"	AA13PS68	
2 1/2"	AB13PS69		2 1/2"	AA13PS69	
3"	AB13PS6A		3"	AA13PS6A	
4"	AB13PS6C		4"	AA13PS6C	

A I3VT/I3VL

THREE WAYS ACTUATED BALL VALVE - "T" & "L" TYPES

VALVE

Body: CF8M (AISI 316)
Nut, Press and Stem: AISI 316
Ball: AISI 316 with seat PTFE+15% GF
Temperature: -20° C to 180° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
 Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.
 Temperature -20° C to 70° C.


PNEUMATIC ACTUATOR

SINGLE RETURN			DOUBLE ACTING		
Ø	CODE T	CODE L	Ø	CODE T	CODE L
1/4"	ASI3VT61	ASI3VL61	1/4"	ADI3VT61	ADI3VL61
3/8"	ASI3VT62	ASI3VL62	3/8"	ADI3VT62	ADI3VL62
1/2"	ASI3VT63	ASI3VL63	1/2"	ADI3VT63	ADI3VL63
3/4"	ASI3VT64	ASI3VL64	3/4"	ADI3VT64	ADI3VL64
1"	ASI3VT65	ASI3VL65	1"	ADI3VT65	ADI3VL65
1 1/4"	ASI3VT66	ASI3VL66	1 1/4"	ADI3VT66	ADI3VL66
1 1/2"	ASI3VT67	ASI3VL67	1 1/2"	ADI3VT67	ADI3VL67
2"	ASI3VT68	ASI3VL68	2"	ADI3VT68	ADI3VL68


ELECTRIC ACTUATOR

LOW VOLTAGE			HIGH VOLTAGE		
Ø	CODE T	CODE L	Ø	CODE T	CODE L
1/4"	ABI3VT61	ABI3VL61	1/4"	AAI3VT61	AAI3VL61
3/8"	ABI3VT62	ABI3VL62	3/8"	AAI3VT62	AAI3VL62
1/2"	ABI3VT63	ABI3VL63	1/2"	AAI3VT63	AAI3VL63
3/4"	ABI3VT64	ABI3VL64	3/4"	AAI3VT64	AAI3VL64
1"	ABI3VT65	ABI3VL65	1"	AAI3VT65	AAI3VL65
1 1/4"	ABI3VT66	ABI3VL66	1 1/4"	AAI3VT66	AAI3VL66
1 1/2"	ABI3VT67	ABI3VL67	1 1/2"	AAI3VT67	AAI3VL67
2"	ABI3VT68	ABI3VL68	2"	AAI3VT68	AAI3VL68

A I2PB TWO PIECES ACTUATED BALL VALVE WITH FULL BORE – FLANGED

VALVE

Body: ASTM 351 (CF8M)

Stem and Ball: ASTM A276 (316)

Seats (Ball and Body): PTFE+15% G

Temperature: -30° C to 150° C

PNEUMATIC ACTUATOR

Base calculation with power supply 6 bar (working range 2 to 8 bar).
Temperature -20° C to 80° C.

ELECTRIC ACTUATOR

Multi-voltage motor.

Temperature -20° C to 70° C.



PNEUMATIC ACTUATOR							
SINGLE RETURN				DOUBLE ACTING			
Ø	DN	CODE		Ø	DN	CODE	
1/2"	15	ASI2B015		1/2"	15	ADI2B015	
3/4"	20	ASI2B020		3/4"	20	ADI2B020	
1"	25	ASI2B025		1"	25	ADI2B025	
1 1/4"	32	ASI2B032		1 1/4"	32	ADI2B032	
1 1/2"	40	ASI2B040		1 1/2"	40	ADI2B040	
2"	50	ASI2B050		2"	50	ADI2B050	
2 1/2"	65	ASI2B065		2 1/2"	65	ADI2B065	
3"	80	ASI2B080		3"	80	ADI2B080	
4"	100	ASI2B100		4"	100	ADI2B100	
5"	125	ASI2B125		5"	125	ADI2B125	
6"	150	ASI2B150		6"	150	ADI2B150	



ELECTRIC ACTUATOR							
LOW VOLTAGE				HIGH VOLTAGE			
Ø	DN	CODE		Ø	DN	CODE	
1/2"	15	ABI2B015		1/2"	15	AAI2B015	
3/4"	20	ABI2B020		3/4"	20	AAI2B020	
1"	25	ABI2B025		1"	25	AAI2B025	
1 1/4"	32	ABI2B032		1 1/4"	32	AAI2B032	
1 1/2"	40	ABI2B040		1 1/2"	40	AAI2B040	
2"	50	ABI2B050		2"	50	AAI2B050	
2 1/2"	65	ABI2B065		2 1/2"	65	AAI2B065	
3"	80	ABI2B080		3"	80	AAI2B080	
4"	100	ABI2B100		4"	100	AAI2B100	
5"	125	ABI2B125		5"	125	AAI2B125	
6"	150	ABI2B150		6"	150	AAI2B150	

ACCESORIES

YT-3300 R DIGITAL ELECTROPNEUMATIC POSITIONER

Aluminum / IP66 / DC 4-20mA / standard operation -30° C to 85° C / 1,4-7,0 bar / 2.8 kg.
See options (stainless steel housing, communication HART, PTM load, tamper switch, extra low T^a).

CODE	
ACPOSI01	


YT-1000 R ELECTROPNEUMATIC POSITIONER

Aluminum / IP66 / DC 4-20mA / standard operation -20° C to 70° C / 1,4-7,0 bar / 2.8 kg.
See options (stainless steel housing, PTM load, tamper switch, high-low T^a, dome indicator).

CODE	
ACPOSI02	


YT-1200 R PNEUMATIC POSITIONER

Aluminum / Signal IN 0,2-1,0 bar / Supply 1,4-7,0 bar / standard operation -20 C to 70 C / 1.7 kg.
See options (stainless steel housing, high-low T^a, PTM-5VR ext. load, tamper switch, dome indicator).

CODE	
ACPOSI03	


DPS DIGITAL POSITIONER FOR ELECTRICAL ACTUATOR

Digital control system for 4/20mA or 0/10V signal control.

DESCRIPTION	CODE	
KIT DPS J4C 20/85	ACPOSI04	
KIT DPS J4C-140/300	ACPOSI05	


BSR BATTERY SYSTEM RETURN FOR ELECTRIC ACTUATOR

Return system to safety position by battery.

DESCRIPTION	CODE	
KIT BSR J4C-20/85	ACBSR001	
KIT BSR J4C-140/300	ACBSR002	

BSR 1

BSR 2

SPEED CONTROL MODULE PNEUMATIC ACTUATOR

CODE	
ACPLAC01	

* Price on request



MUFFLER

DESCRIPTION	CODE	
MUFFLER	ACSILE01	
EXHAUST REGULATOR	ACREGU01	



MANUAL REDUCER (Single and Double acting)

DESCRIPTION	CODE	
MANUAL REDUCER DESEMB. ACTS.PNEUM. 52-105	ACRMD001	
MANUAL REDUCER DESEMB. ACTS.PNEUM. 125-140	ACRMD002	
MANUAL REDUCER DESEMB. ACTS.PNEUM. 160	ACRMD003	
MANUAL REDUCER DESEMB. ACTS.PNEUM. 190-210	ACRMD004	
MANUAL REDUCER DESEMB. ACTS.PNEUM. 240-300	ACRMD005	

Note: couplings are not included.



EXD TAMPER SWITCH

Aluminum / EexdIICT6 protection / IP67 / M20 / Shaft and support in INOX / 2 micros electromechanical SPDT.

See options (stainless steel housing, inductive).
Other tamper switches are requested to consult.

CODE	
ACFINC01	



CB TAMPER SWITCH

PP+15% FV / IP67 / Transparent ABS lid with dome visor/ Press and cap M16 / Adjustable bracket / 2 micro electromechanical SPDT. See options (micro SPDT, inductive detectors).
Other tamper switches are requested to consult.

CODE	
ACFINC02	

SOLENOID VALVES

5/2

TENSION	CODE	
24V DC	ACEV5201	
24V AC	ACEV5202	
220V AC	ACEV5203	



5 WAY BISTABLE

TENSION	CODE	
24V DC	ACEVBI01	
24V AC	ACEVBI02	
220V AC	ACEVBI03	



3/2

TENSION	CODE	
24V DC	ACEV3201	
24V AC	ACEV3202	
220V AC	ACEV3203	



Other solenoid valves are requested to consult.

BRASS VALVES

After several years of continuous growth and development, the **ATUSA** brand has found its niche among the specialists in the valve market. Constant improvement, based on security and quality criteria, has allowed these valves to obtain a general acknowledgment in the market.

ATUSA valves have been evolving for years, according to international markets requirements and in compliance with European standards.

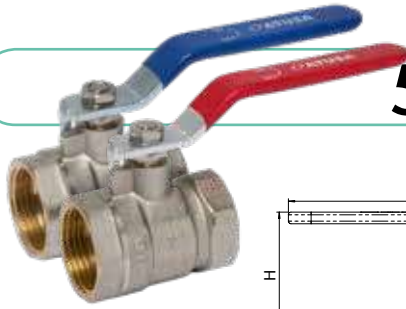




ATUSA

BRASS VALVES

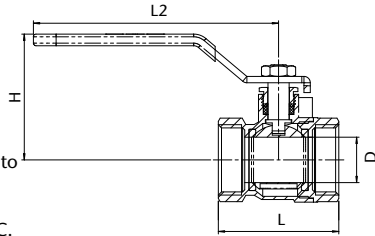
BRASS
VALVES



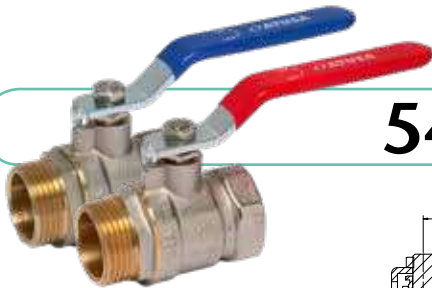
55/55R

BALL VALVE F/F

PN 25.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Steel handle with blue or red PVC cover.



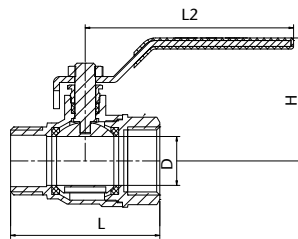
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
1/2"	15	46	90	50	100 10	VS055003	VSR05503
3/4"	17	51	100	54	80 10	VS055004	VSR05504
1"	22	58	110	58	64 8	VS055005	VSR05505
1 1/4"	29	72	140	77	32 8	VS055006	VSR05506
1 1/2"	35	81	140	82	24 6	VS055007	VSR05507
2"	44	96	165	86	12 3	VS055008	VSR05508
2 1/2"	57	124	236	108	4 2	VS05500A	VSR0550A
3"	68	144	236	116	4 2	VS05500B	VSR0550B
4"	85	166	236	128	2 1	VS05500C	VSR0550C



54/54R

BALL VALVE M/F

PN 25.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Steel handle with blue or red PVC cover.



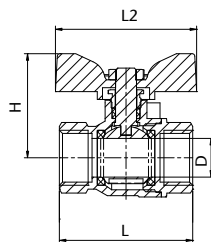
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
1/2"	15	54	85	47	100 10	VS054003	VSR05403
3/4"	17	61	96	52	80 10	VS054004	VSR05404
1"	22	67	115	60	64 8	VS054005	VSR05405
1 1/4"	29	83	132	71	32 8	VS054006	VSR05406
1 1/2"	35	92	140	79	24 6	VS054007	VSR05407
2"	44	110	145	87	12 3	VS054008	VSR05408



355/355R

BALL VALVE F/F

PN 25.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Blue or red aluminium alloy handle.



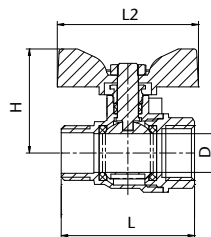
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
1/2"	15	46	56	40	100 10	VS355003	VSR35503
3/4"	17	51	56	42	80 10	VS355004	VSR35504
1"	22	58	66	55	64 8	VS355005	VSR35505



354/354R

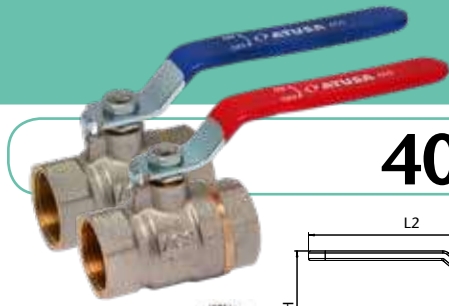
BALL VALVE M/F

PN 25.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Blue or red aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
1/2"	15	54	56	40	100 10	VS354003	VSR35403
3/4"	17	61	56	42	80 10	VS354004	VSR35404
1"	22	67	66	55	64 8	VS354005	VSR35405

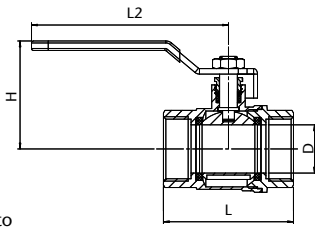




40/50

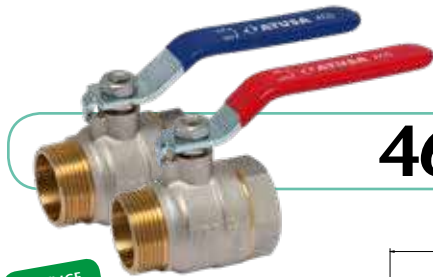
BALL VALVE F/F

ANTI ICE SYSTEM



PN 30.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Steel handle with blue or red PVC cover.

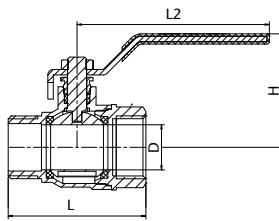
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
1/4"	9,5	40	81	41	150 15	VS040001	VS050001
3/8"	10	40	81	41	150 15	VS040002	VS050002
1/2"	15	51	81	44	80 10	VS040003	VS050003
3/4"	19	58	110	48	48 6	VS040004	VS050004
1"	24	64	116	61	32 4	VS040005	VS050005
1 1/4"	30	76	132	67	24 6	VS040006	VS050006
1 1/2"	37	88	142	88	16 4	VS040007	VS050007
2"	50	106	142	95	8 2	VS040008	VS050008
2 1/2"	59	127	235	121	4 1	VS04000A	VS05000A
3"	74	156	235	132	4 1	VS04000B	VS05000B
4"	90	179	283	136	3 1	VS04000C	VS05000D



46/56

BALL VALVE M/F

ANTI ICE SYSTEM



PN 30.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Steel handle with blue or red PVC cover.

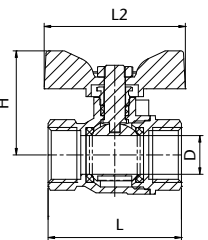
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
3/8"	10	41	81	41	150 15	VS046002	VS056002
1/2"	15	51	81	44	80 8	VS046003	VS056003
3/4"	19	58	110	48	48 6	VS046004	VS056004
1"	24	66	116	61	32 4	VS046005	VS056005
1 1/4"	30	77	132	67	24 6	VS046006	VS056006
1 1/2"	37	89	142	85	16 4	VS046007	VS056007
2"	50	107	142	95	8 2	VS046008	VS056008



340/350

BALL VALVE F/F

ANTI ICE SYSTEM



PN 30.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Blue or red aluminium alloy handle.

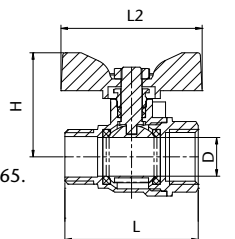
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
3/8"	10	40	54	36	150 15	VS340002	VS350002
1/2"	15	51	54	40	90 9	VS340003	VS350003
3/4"	19	58	54	44	80 8	VS340004	VS350004
1"	24	64	65	51	40 5	VS340005	VS350005



346/356

BALL VALVE M/F

ANTI ICE SYSTEM



PN 30.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Packing gland in PTFE.
Blue or red aluminium alloy handle.

Ø	D mm.	L mm.	L2 mm.	H mm.		CODE BLUE	CODE RED
3/8"	10	41	54	36	150 15	VS346002	VS356002
1/2"	15	51	54	40	90 9	VS346003	VS356003
3/4"	19	58	54	44	80 8	VS346004	VS356004
1"	24	66	65	51	32 4	VS346005	VS356005



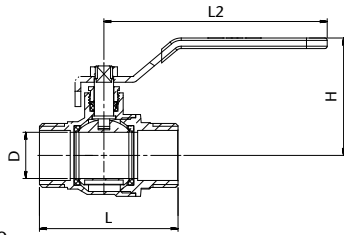


57

BALL VALVE M/M



ANTI ICE SYSTEM



Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/2"	15	58	81	44	80	8	VS057003
3/4"	19	64	110	47	48	6	VS057004
1"	24	72	116	61	32	4	VS057005
1 1/4"	30	86	132	67	24	6	VS057006
1 1/2"	37	100	142	85	16	4	VS057007
2"	50	115	142	95	8	2	VS057008

PN 30.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Steel handle with red PVC cover.

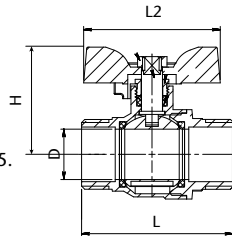


357

BALL VALVE M/M



ANTI ICE SYSTEM



Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/2"	15	58	54	40	80	8	VS357003
3/4"	19	64	54	43	70	7	VS357004
1"	24	72	65	51	32	4	VS357005

PN 30.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Red aluminium alloy handle.

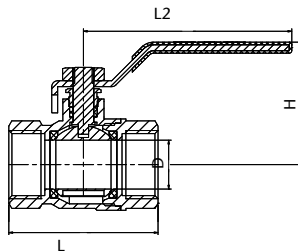


50/1

BALL VALVE F/F STAINLESS STEEL HANDLE

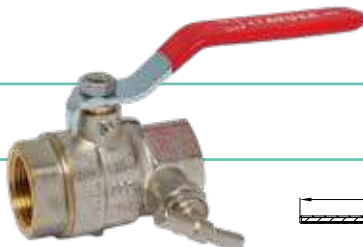


ANTI ICE SYSTEM



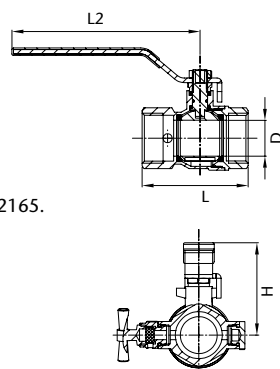
Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/4"	9,5	40	83	41	150	15	VS501001
3/8"	10	40	83	41	150	15	VS501002
1/2"	15	51	83	44	80	10	VS501003
3/4"	19	58	83	48	48	6	VS501004
1"	24	64	120	61	32	4	VS501005
1 1/4"	30	76	130	67	24	6	VS501006
1 1/2"	37	88	145	88	16	4	VS501007
2"	50	106	145	95	8	2	VS501008

PN 30.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Stainless steel handle with red PVC cover.



65

BALL VALVE F/F WITH AIR VENT AND PLUG



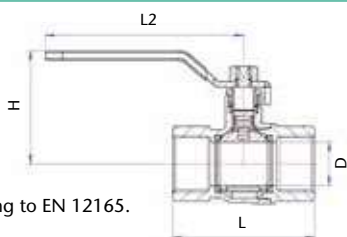
Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/2"	15	56	97	49	40	4	VS065003
3/4"	20	63	97	52	24	6	VS065004
1"	24	71	125	59	24	6	VS065005
1 1/4"	30	82	140	74	16	4	VS065006
1 1/2"	37	94	140	80	6	2	VS065007
2"	45	103	165	89	6	2	VS065008

PN 30.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Steel handle with red PVC cover.
 1/4" Tests points.



10

BALL VALVE F/F STAINLESS STEEL HANDLE



PN 40.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Stainless steel handle with red PVC cover.

Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/4"	10	45	81	42	150 15	VS010001
3/8"	10	45	81	42	150 15	VS010002
1/2"	15	60	85	50	56 7	VS010003
3/4"	20	70	85	54	48 6	VS010004
1"	25	82	114	65	24 6	VS010005
1 1/4"	32	99	142	77	16 4	VS010006
1 1/2"	40	106	142	83	8 2	VS010007
2"	50	126	150	94	8 2	VS010008

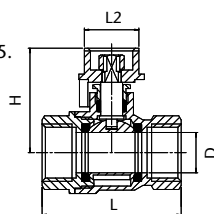


58

SQUARE SEALING CAP BALL VALVE F/F



PN 25.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Locking head square control.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2"	15	51	20	38	90 9	VS058003
3/4"	19	58	20	42	80 8	VS058004
1"	24	64	20	52	48 6	VS058005
1 1/4"	30	76	20	58	32 4	VS058006
1 1/2"	37	88	24,5	68	16 4	VS058007
2"	50	106	24,5	77	8 2	VS058008

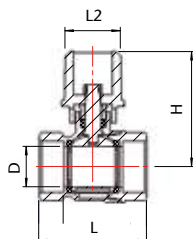


59

28 x 28 SQUARE CAP BALL VALVE F/F



PN 25.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 28x28 Head square control.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2"	15	51	28	60	80 10	VS059003
3/4"	19	58	28	63	48 6	VS059004
1"	24	64	28	68	36 9	VS059005
1 1/4"	30	76	28	74	24 6	VS059006
1 1/2"	37	88	28	80	16 4	VS059007
2"	50	106	28	89	8 2	VS059008

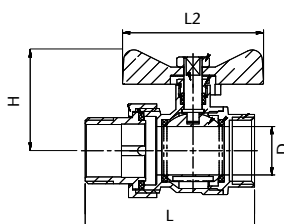


620

BALL VALVE WITH 2 PIECES CONNECTOR



PN 25.
 Nickel plated brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Packing gland in PTFE.
 Red aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2"	15	70	54	36	70 7	VS620003
3/4"	19	76	54	40	60 6	VS620004
1"	24	84	70	50	32 4	VS620005
1 1/4"	30	103	76	59	24 6	VS620006

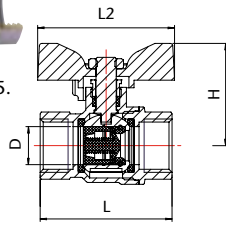


360

BALL VALVE F/F WITH CHECK VALVE



PN 16.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 95° C.
Packing gland in PTFE.
Check valve seal in EPDM.
AISI 304 Stainless Steel spring.
Black aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/2"	15	52	54	40	90	9	VS360003
3/4"	20	64	54	44	70	7	VS360004
1"	25	74	65	51	32	4	VS360005

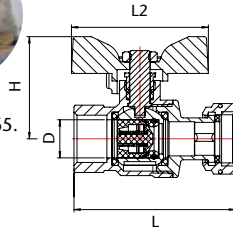


361

BALL VALVE F/F SLIDING NUT WITH CHECK VALVE



PN 16.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 95° C.
Packing gland in PTFE.
Check valve seal in EPDM.
AISI 304 Stainless Steel spring.
Black aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.	Box		CODE
1/2"	15	64	54	40	100	10	VS361003
3/4"	20	80	54	44	60	6	VS361004
1"	25	91	65	51	48	6	VS361005

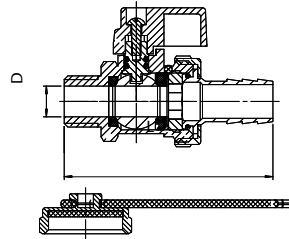


519

BOILER DRAIN BALL VALVE



PN 16.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 100° C.
Sealing ring in PTFE and O-ring in NBR.
Hose connection with security cap.
Black handle.



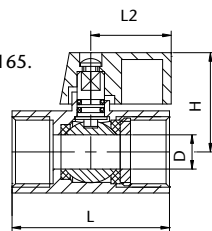
Ø	D mm.	L mm.	Box		CODE
1/2"	10	70	64	8	VS519003



1011/1011R

MINI BALL VALVE F/F

PN 16.
Chrome plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 100° C.
Blue or red aluminium handle.



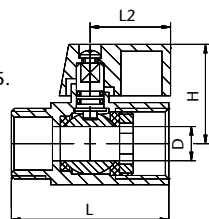
Ø	D mm.	L mm.	L2 mm.	H mm.	Box	CODE BLUE	CODE RED
1/8"	7	40	23	27	200 20	VS101100	VSR10110
1/4"	8	40	23	27	200 20	VS101101	VSR10111
3/8"	8	40	23	27	200 20	VS101102	VSR10112
1/2"	10	47	23	29	160 16	VS101103	VSR10113
3/4"	15	50	23	31	100 10	VS101104	VSR10114



1012/1012R

MINI BALL VALVE M/F

PN 16.
Chrome plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 100° C.
Blue or red aluminium handle.



Ø	D mm.	L mm.	L2 mm.	H mm.	Box	CODE BLUE	CODE RED
1/8"	7	40	23	27	200 20	VS101200	VSR10120
1/4"	8	40	23	27	200 20	VS101201	VSR10121
3/8"	8	40	23	27	200 20	VS101202	VSR10122
1/2"	10	47	23	29	160 16	VS101203	VSR10123
3/4"	15	50	23	31	100 10	VS101204	VSR10124



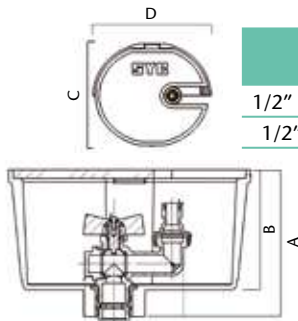


800

GARDEN HOSE BOX



Plastic box with green cap.
Quick hose connector.
Bibcock ball valve for vertically hose connection.
Maximum temperature 100° C.
Packing gland in PTFE.
Red aluminium alloy handle.



Ø	A mm.	B mm.	C mm.	D mm.		CODE
1/2" / 3/4" x 3/4"	123	100	178	200	2 1	VS800044
1/2" / 3/4" x 1"					2 1	VS800045

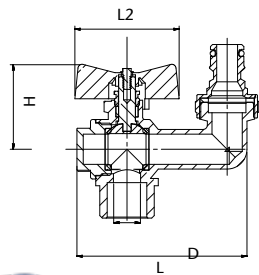


88

VERTICAL WATER HYDRANT BALL VALVE



PN 16.
Brass according to EN 12165.
Quick hose connector.
Bibcock ball valve for vertically hose connection.
Maximum temperature 100° C.
Packing gland in PTFE.
Red aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
3/4" x 3/4"	13	82	50	41	48 6	VS088044
3/4" x 1"	13	84	50	43	48 6	VS088045

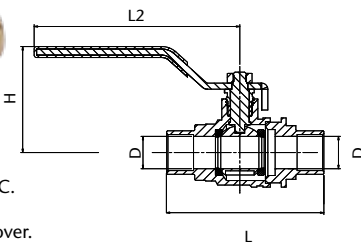


30/S

WELDING BALL VALVE



PN 30.
Brass according to EN 12165.
Welding ends.
Maximum temperature 120° C.
Packing gland in PTFE.
Steel handle with blue PVC cover.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
15 mm.	13,5	69	85	44	64 8	VS30S315
18 mm.	13,5	72	85	44	64 8	VS30S418
22 mm.	18	81	85	46	48 6	VS30S422
28 mm.	21	95	115	55	32 4	VS30S528
35 mm.	30	113	140	76	16 4	VS30S635
42 mm.	37	130	140	81	8 2	VS30S742
54 mm.	47	151	165	91	4 1	VS30S854

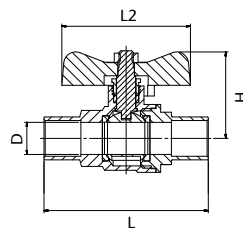


330/S

WELDING BALL VALVE



PN 30.
Brass according to EN 12165.
Welding ends.
Maximum temperature 120° C.
Packing gland in PTFE.
Red aluminium alloy handle.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
15 mm.	13,5	69	54	36	64 8	VS33S315
18 mm.	13,5	72	54	36	64 8	VS33S418
22 mm.	18	81	54	39	48 6	VS33S422

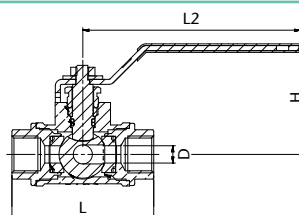


1302/1303

3 WAYS BALL VALVE - 1302 "L" TYPE / 1303 "T" TYPE



PN 16.
Nickel plated brass according to EN 12165.
Rp thread, ISO 7/1.
Maximum temperature 120° C.
Packing gland in PTFE.
2 or 3 ways spherical ball – "L" or "T" types.
Steel handle with red PVC cover.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/4"	10	81	125	64	24 6	VS130(2)(3)01
3/8"	10	81	125	64	24 6	VS130(2)(3)02
1/2"	10	82	125	64	24 6	VS130(2)(3)03
3/4"	15	91	125	67	15 5	VS130(2)(3)04
1"	20	105	161	72	12 4	VS130(2)(3)05
1 1/4"	25	116	161	79	9 3	VS130(2)(3)06
1 1/2"	32	140	220	92	4 1	VS130(2)(3)07
2"	40	164	220	98	2 1	VS130(2)(3)08

*(2): 1302 "L" type
*(3): 1303 "T" type



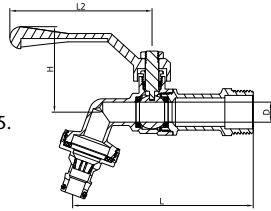
41

BIBCOCK BALL VALVE, ALUMINUM HANDLE, QUICK CONNECTOR



ANTI ICE SYSTEM

PN 20.
Nickel-plated brass according to EN 12165.
Maximum temperature 100° C.
Packing gland in PTFE.
Aluminum handle red color.
Quick hose connector.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2" x 3/4"	10	98	86	50	64 8	VS041003
3/4" x 1"	12	112	86	51	48 6	VS041004
1" x 1"	15	120	100	54	32 4	VS041005



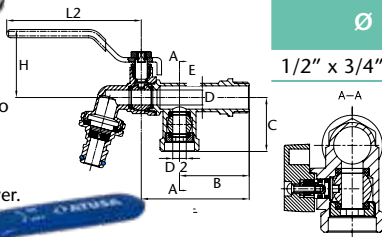
42

BIBCOCK BALL VALVE WITH TWO OUTLETS, QUICK CONNECTOR



ANTI ICE SYSTEM

PN 16.
Nickel plated brass according to EN 12165.
Maximum temperature 90° C.
Packing gland in PTFE.
Steel handle with blue PVC cover.
Quick hose connector.



Ø	D mm.	D2 mm.	B mm.	E mm.	C mm.	L2 mm.	H mm.		CODE
1/2" x 3/4" x 3/4"	10	9	47	72	37	92	45	36 9	VS042344



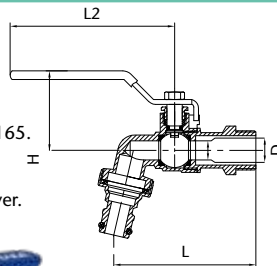
43

BIBCOCK BALL VALVE, STAINLESS STEEL HANDLE, QUICK CONNECTOR



ANTI ICE SYSTEM

PN 16.
Nickel plated brass according to EN 12165.
Maximum temperature 90° C.
Packing gland in PTFE.
Stainless steel handle with blue PVC cover.
Quick hose connector.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2" x 3/4"	10	74	90	45	80 10	VS043003
3/4" x 1"	12	91	100	47	48 6	VS043004
1" x 1 1/4"	15	94	110	53	32 4	VS043005



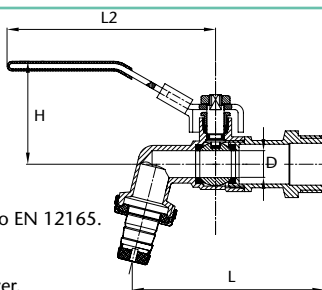
44

BIBCOCK BALL VALVE

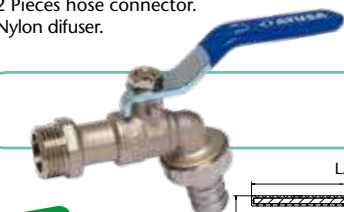


ANTI ICE SYSTEM

PN 16.
Nickel plated brass according to EN 12165.
Maximum temperature 90° C.
Packing gland in PTFE.
Steel handle with blue PVC cover.
2 Pieces hose connector.
Nylon difuser.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2" x 1/2"	10	73	97	45	80 10	VS044033
1/2" x 3/4"	10	74	97	45	80 10	VS044003
3/4" x 3/4"	12	91	97	45	48 6	VS044044
3/4" x 1"	12	91	97	47	48 6	VS044004
1" x 1 1/4"	15	94	114	58	32 4	VS044005



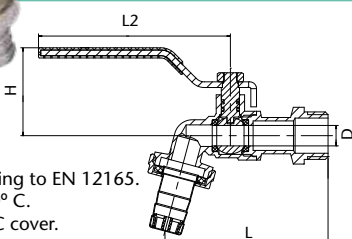
45

BIBCOCK BALL VALVE



ANTI ICE SYSTEM

PN 16.
Nickel plated brass according to EN 12165.
Maximum temperature 90° C.
Steel handle with blue PVC cover.
Racor 2 piezas conexión manguera.
Nylon difuser.



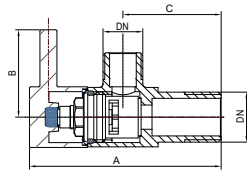
Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2" x 3/4"	9	71	81	38	80 10	VS045003
3/4" x 1"	12	87	85	42	48 6	VS045004
1" x 1 1/4"	14	94	105	47	32 4	VS045005



61 ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 100° C.
 Ceramic closure.
 Stainless steel cover.



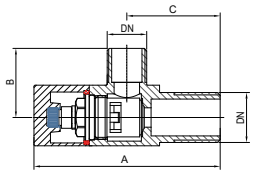
Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/8"	80	36	40,5	72 1	VS061002
1/2" x 1/2"	80	36	40,5	72 1	VS061003



62 ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 100° C.
 Ceramic closure.
 Stainless steel cover.



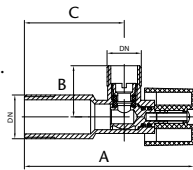
Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/8"	75	28,5	38,5	72 1	VS062002
1/2" x 1/2"	75	27,5	38,5	72 1	VS062003



60 ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 90° C.
 With handle retaining screw.
 Stainless steel cover.



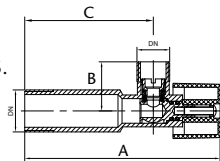
Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/8"	80	24	47	160 2	VS060002
1/2" x 1/2"	80	24	47	160 2	VS060003



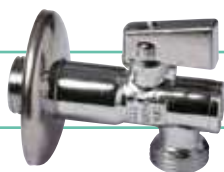
60L LONG ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 90° C.
 With handle retaining screw.
 Stainless steel cover.



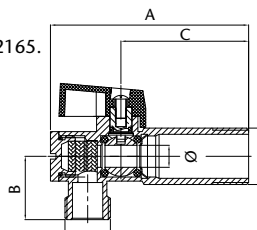
Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/8"	98	24	63	136 2	VS060L02



66 ANGLE VALVE WITH STRAINER



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 90° C.
 With handle retaining screw.
 Stainless steel cover.



Ø	D mm.	L mm.	L2 mm.	H mm.		CODE
1/2" x 3/8"	8	72	23	47	138 2	VS066002
1/2" x 1/2"	8	72	23	47	138 2	VS066003
1/2" x 3/4"	8	72	23	47	138 2	VS066004

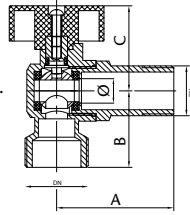


1100

WASHING MACHINE ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum temperature 90° C.
 With handle retaining screw.
 Stainless steel cover.



Ø	Ø mm.	A mm.	B mm.	C mm.		CODE
1/2" x 3/4"	9	40	32	35	95 1	VS110034

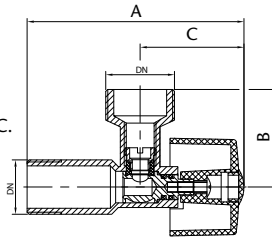


1110

WASHING MACHINE ANGLE VALVE



PN 10.
 Chrome plated brass according to EN 12165. Maximum temperature 90° C.
 With handle retaining screw.
 Stainless steel cover.



Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/4"	82	37	39	90 1	VS111034

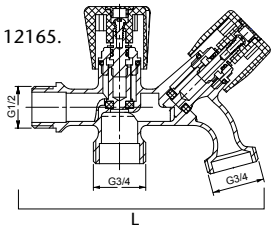


1200

DOUBLE WASHING MACHINE VALVE



PN 10.
 Chrome plated brass according to EN 12165.
 Chrome plated ABS handles.



Ø	L mm.		CODE
1/2" x 3/4" x 3/4"	115	48 6	VS120003

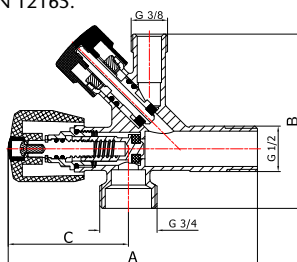


1300

MIXED VALVE WASHING MACHINE WASHBASIN



PN 10.
 Chrome plated brass according to EN 12165.
 Maximum Temperature 100° C.
 With handle retaining screw.
 Stainless Steel cover.



Ø	A mm.	B mm.	C mm.		CODE
1/2" x 3/4" x 3/8"	113	79	55	36 1	VS130342

GATE AND GLOBE VALVES

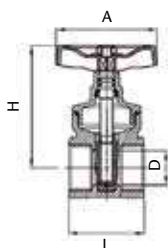


150/G

RUBBER WEDGE GATE VALVE



PN 16.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
Brass gate + NBR vulcanized rubber.
Red steel handle.



Ø	D mm.	L mm.	H mm.	A mm.		CODE
1/2"	13	39	58	50	96 12	VS150G03
3/4"	19	45	69	50	64 8	VS150G04
1"	25	51	80	59	48 6	VS150G05
1 1/4"	29	56	94	59	28 7	VS150G06
1 1/2"	36	61	128	78	12 3	VS150G07
2"	45	64	142	78	12 3	VS150G08
2 1/2"	60	100	170	100	3 1	VS150G0A
3"	70	100	195	100	3 1	VS150G0B
4"	99	107	260	130	2 1	VS150G0C

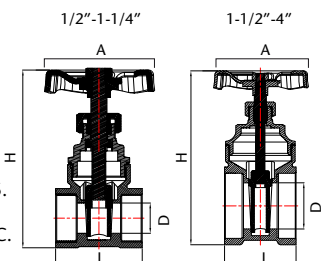


150

BRASS WEDGE GATE VALVE



PN 16.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
Brass gate.
Red steel handle.



Ø	D mm.	L mm.	H mm.	A mm.		CODE
3/8"	13	38	78	50	96 12	VS150002
1/2"	13	38	78	50	48 12	VS150003
3/4"	15	41	82	50	48 12	VS150004
1"	20	45	96	59	32 8	VS150005
1 1/4"	26	51	115	59	24 4	VS150006
1 1/2"	33	51	124	70	12 3	VS150007
2"	42	61	156	70	8 2	VS150008
2 1/2"	60	66	202	98	10 1	VS15000A
3"	70	84	236	109	8 1	VS15000B
4"	93	85	296	131	4 1	VS15000C

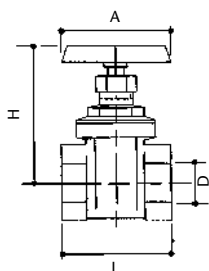


172

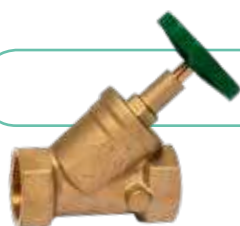
BRONZE GATE VALVE



PN 16.
Body in bronze.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
Red steel handle.



Ø	D mm.	L mm.	H mm.	A mm.		CODE
1/2"	15	38	68	45	160 20	VS172003
3/4"	19	45	78	50	100 20	VS172004
1"	24	48	92	55	80 10	VS172005
1 1/4"	32	51	108	60	40 10	VS172006
1 1/2"	37	58	125	70	35 5	VS172007
2"	47	62	145	80	25 5	VS172008
2 1/2"	60	76	175	100	14 1	VS17200A
3"	72	80	200	100	12 1	VS17200B
4"	93	96	240	120	6 1	VS17200D

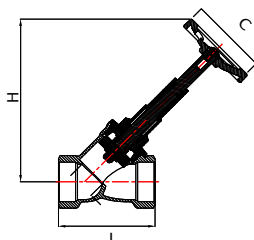


173

STRAIGHT PATTERN GLOBE VALVE



PN 16.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
NBR rubber sealing.



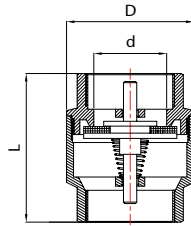
Ø	L mm.	C mm.	H mm.		CODE
1/2"	57	50	88	60 6	VS173003
3/4"	63	50	108	50 5	VS173004
1"	76	62	130	24 3	VS173005
1 1/4"	95	62	157	16 4	VS173006
1 1/2"	113	80	169	8 2	VS173007
2"	134	80	205	8 1	VS173008

CHECK VALVES, FOOT CHECK VALVES AND FILTERS



130

CHECK VALVE



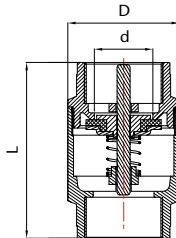
PN 16-10-8.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 80° C.
 Stem and plate in brass.
 NBR rubber sealing.
 Horizontal and vertical installation.

Ø	d mm.	L mm.	D mm.		CODE
3/8"	14	42	31	144 24	VS130002
1/2"	15	45	34	120 20	VS130003
3/4"	23	48	42	72 12	VS130004
1"	28	56	48	48 8	VS130005
1 1/4"	37	61	59	24 6	VS130006
1 1/2"	42	68	67	16 4	VS130007
2"	54	77	81	8 2	VS130008
2 1/2"	68	93	104	8 1	VS13000A
3"	78	97	111	6 1	VS13000B
4"	100	110	140	2 1	VS13000C



131

HEAVY TYPE CHECK VALVE



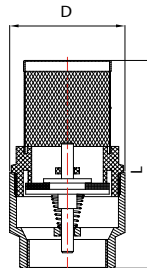
PN 25-16-10.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 80° C.
 Stem and plate in brass.
 NBR rubber sealing.
 Horizontal and vertical installation.

Ø	d mm.	L mm.	D mm.		CODE
1/2"	16	57	35	90 15	VS131003
3/4"	22	64	42	48 12	VS131004
1"	25	75	48	36 9	VS131005
1 1/4"	32	83	61	24 6	VS131006
1 1/2"	41	93	71	8 2	VS131007
2"	50	100	87	8 2	VS131008
2 1/2"	67	120	119	6 1	VS13100A
3"	79	140	140	4 1	VS13100B
4"	100	158	154	3 1	VS13100C



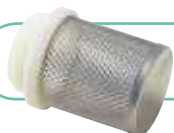
130/A

FOOT CHECK VALVE



PN 16-10-8.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 80° C.
 Stem and plate in brass.
 NBR rubber sealing.
 Stainless steel filter.

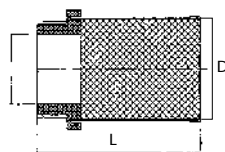
Ø	L mm.	D mm.		CODE
1/2"	66	34	72 12	VS130A03
3/4"	71	43	48 12	VS130A04
1"	87	48	40 10	VS130A05
1 1/4"	97	59	12 3	VS130A06
1 1/2"	111	68	12 3	VS130A07
2"	129	81	6 3	VS130A08
2 1/2"	160	103	9 1	VS130A0A
3"	170	111	8 1	VS130A0B
4"	194	140	5 1	VS130A0C



611

STAINLESS STEEL STRAINER FOR CHECK VALVE

Stainless steel screen.
 Nylon connector.

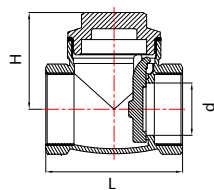


Ø	L mm.	D mm.		CODE
1/2"	43	15	250 25	VS611003
3/4"	44	19	140 14	VS611004
1"	52	24	88 11	VS611005
1 1/4"	60	35	48 6	VS611006
1 1/2"	70	40	40 5	VS611007
2"	80	50	24 6	VS611008
2 1/2"	95	63	24 1	VS61100A
3"	102	78	8 1	VS61100B
4"	111	98	6 1	VS61100C




155

METAL SWING CHECK VALVE



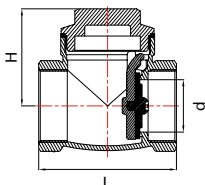
PN 16-10-8.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 100° C.
 Brass sealing.
 Horizontal or vertical mounting for
 rising fluid flow.

Ø	d mm.	L mm.	H mm.			CODE
1/2"	14	48	35	72	12	VS155003
3/4"	20	52	40	60	10	VS155004
1"	24	63	45	24	6	VS155005
1 1/4"	30	74	52	20	5	VS155006
1 1/2"	32	80	54	16	4	VS155007
2"	48	98	67	8	1	VS155008
2 1/2"	61	120	81	5	1	VS15500A
3"	70	135	92	7	1	VS15500B
4"	86	160	103	4	1	VS15500C




155/A

RUBBER SWING CHECK VALVE



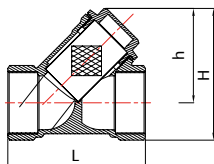
PN 16-10-8.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 80° C.
 Rubber sealing.
 Horizontal or vertical mounting for
 rising fluid flow.

Ø	d mm.	L mm.	H mm.			CODE
1/2"	14	48	35	72	12	VS155A03
3/4"	20	52	40	60	10	VS155A04
1"	24	63	45	24	6	VS155A05
1 1/4"	30	74	52	20	5	VS155A06
1 1/2"	32	80	54	16	4	VS155A07
2"	48	98	67	8	1	VS155A08
2 1/2"	61	120	81	5	1	VS155A0A
3"	70	135	92	7	1	VS155A0B
4"	86	160	103	4	1	VS155A0C




205

"Y" BRASS STRAINER



PN 16.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 120° C.
 Stainless steel screen.

Ø	L mm.	H mm.	h mm.			CODE
3/8"	46	41	31	144	12	VS205002
1/2"	57	53	40	72	12	VS205003
3/4"	66	62	46	40	10	VS205004
1"	74	72	52	36	9	VS205005
1 1/4"	96	88	63	16	4	VS205006
1 1/2"	104	101	72	12	2	VS205007
2"	125	122	91	8	1	VS205008
2 1/2"	146	148	107	4	1	VS20500A
3"	170	171	123	6	1	VS20500B
4"	210	214	152	2	1	VS20500C

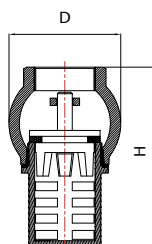



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FOOT CHECK VALVE



PN 16.
 Brass according to EN 12165.
 Gas thread, ISO 228/1.
 Maximum temperature 80° C.
 NBR rubber seal.



Ø	D mm.	H mm.			CODE
1/2"	38	62	60	15	VS196003
3/4"	44	68	48	12	VS196004
1"	48	76	36	6	VS196005
1 1/4"	57	94	20	5	VS196006
1 1/2"	66	102	12	3	VS196007
2"	77	116	8	2	VS196008
2 1/2"	86	140	8	1	VS19600A
3"	111	149	8	1	VS19600B
4"	143	186	5	1	VS19600C

SAFETY VALVES

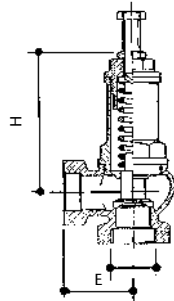


560

ANGLE SAFETY VALVE



PN 12.
Brass according to EN 12165.
Maximum temperature 80° C.
Metal seat.
Tare field from 1 to 12 bar.
Supplied without setting.



Ø	H mm.	E mm.		CODE
1/2"	76	36	50 1	VS560003
3/4"	90	39	40 1	VS560004
1"	98	47	25 1	VS560005
1 1/4"	125	56	15 1	VS560006
1 1/2"	140	63	10 1	VS560007
2"	150	75	5 1	VS560008
2 1/2"	181	86	2 1	VS56000A
3"	205	88	2 1	VS56000B

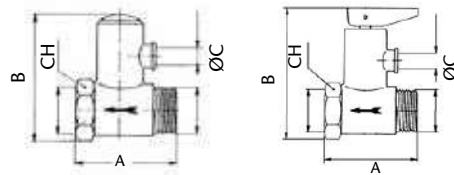


701

SAFETY VALVE FOR WATER HEATER M-F ADJUSTABLE



PN 16.
Nickel plated brass according to EN 12
Gas thread, ISO 228/1.
Maximum temperature 120° C.
"No return" valve included.
Adjustable outlet.



WITHOUT HANDLE
WITH HANDLE

Ø	SETTING bar	A mm.	B mm.	C mm.		CODE
1/2"	8,5	40	49	6	250 25	VS701R03
1/2"	8,5	40	59	6	180 20	VS701RP3

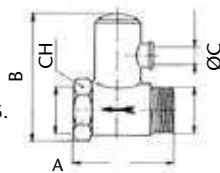


702

SAFETY VALVE FOR WATER HEATER M-F



PN 16.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
"No return" valve included.



Ø	SETTING bar	A mm.	B mm.	CH mm.	C mm.		CODE
1/2"	8,5	40	49	25	6	250 25	VS702003
3/4"	8,5	53	62	30	8	90 10	VS702004

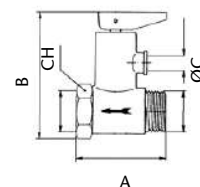


703

SAFETY VALVE FOR WATER HEATER WITH HANDLE M-F



PN 16.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
"No return" valve included.



Ø	SETTING bar	A mm.	B mm.	CH mm.	C mm.		CODE
1/2"	8,5	40	59	25	6	180 20	VS703003
3/4"	8,5	53	71	30	8	90 10	VS703004

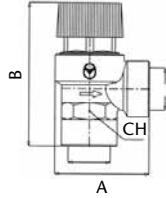


705

DIAPHRAGM SAFETY VALVE F-F



PN 10.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Valve plug and diaphragm in EPDM rubber.



Ø	SETTING bar	A mm.	B mm.	CH mm.		CODE
1/2"	3	42	66	25	108 12	VS705033
1/2"	7	42	66	25	108 12	VS705073

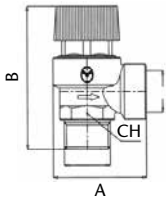


706

DIAPHRAGM SAFETY VALVE M-F



PN 10.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Valve plug and diaphragm in EPDM rubber.



Ø	SETTING bar	A mm.	B mm.	CH mm.		CODE
1/2"	3	42	66	25	108 12	VS706033
1/2"	7	42	66	25	108 12	VS706073

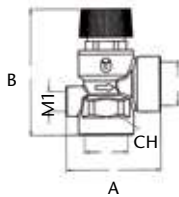


707

DIAPHRAGM SAFETY VALVE M-F WITH ATTACK MANOMETER



PN 10.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Valve plug and diaphragm in EPDM rubber.
1/4 " Manometer connector.



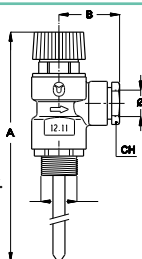
Ø	SETTING bar	A mm.	B mm.	CH mm.		CODE
1/2"	3	50	74	25	90 10	VS707033



709

DOUBLE FUNCTION SAFETY VALVE TEMPERATURE AND PRESSURE

PN 10.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 120° C.
Valve plug and diaphragm in EPDM rubber.
The valve opens at 90° C and 3 bar.
Discharge capacity:
Ø 15 - 10 kW,
Ø 22 - 25 kW



Ø	SETTING bar	A mm.	B mm.	CH mm.		CODE
1/2" M x Ø15	3	186	35	21	24 1	VS709335
3/4" M x Ø22	3	192	39	27	24 1	VS709342

PRESSURE REDUCERS

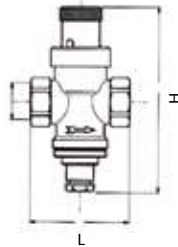


140

PISTON PRESSURE REDUCING VALVE



PN 15.
Nickel plated brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
Brass seat.
Tare field from 1 to 4 bar.
Pre-setting at 3 bar.



Ø	H mm.	L mm.		CODE
1/2"	112	60	50 1	RP140003
3/4"	113	60	50 1	RP140004

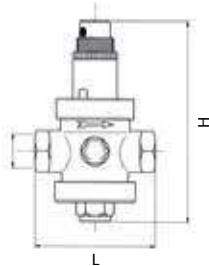


143

PISTON PRESSURE REDUCING VALVE



PN 25.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
AISI 303 Stainless steel seat.
Tare field from 0,5 to 6 bar.
Pre-setting at 3 bar.



Ø	H mm.	L mm.		CODE
1/2"	120	75	25 1	RP143003
3/4"	150	85	20 1	RP143004
1"	160	89	15 1	RP143005
1 1/4"	220	125	6 1	RP143006
1 1/2"	220	130	6 1	RP143007
2"	250	138	4 1	RP143008
2 1/2"	260	145	4 1	RP14300A
3"	285	177	3 1	RP14300B
4"	310	190	2 1	RP14300C

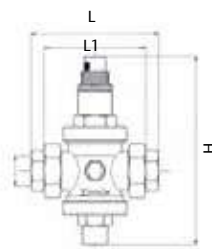


146

PRESSURE REDUCING VALVE PISTON WITH DISMANTLING FITTINGS FEMALE



PN 25.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
AISI 303 Stainless steel seat.
Tare field from 0,5 to 6 bar.
Pre-setting at 3 bar.



Ø	H mm.	L mm.	L1 mm.		CODE
1/2"	120	112	75	20 1	RP146003
3/4"	160	135	88	10 1	RP146004
1"	166	140	93	10 1	RP146005
1 1/4"	220	170	110	6 1	RP146006
1 1/2"	220	175	110	6 1	RP146007
2"	250	200	130	3 1	RP146008

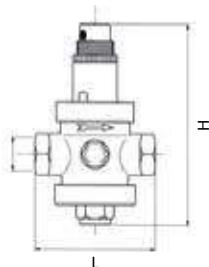


148

PRESSURE REDUCING VALVE PISTON



PN 40.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 80° C.
AISI 303 Stainless steel seat.
Tare field from 1 to 8 bar.
Pre-setting at 3 bar.



Ø	H mm.	L mm.		CODE
1/2"	143	75	25 1	RP148003
3/4"	174	85	20 1	RP148004
1"	180	91	15 1	RP148005
1 1/4"	220	116	6 1	RP148006
1 1/2"	220	125	6 1	RP148007
2"	250	140	4 1	RP148008
2 1/2"	260	145	4 1	RP14800A

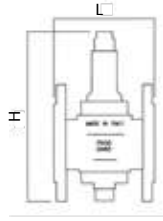



149

PRESSURE REDUCING VALVE PISTON - FLANGED



PN 30.
Flanges PN 16.
Bronze body UNI EN 1.982
AISI 303 Stainless steel seat.
NBR sealing gasket.
Maximum temperature 80° C.
Tare field from 1,5 to 7 bar.
Pre-setting at 3 bar.



Ø	H mm.	L mm.			CODE
50	250	165	2	1	RP149050
65	260	170	2	1	RP149065
80	285	172	2	1	RP149080
100	340	200	1	1	RP149100

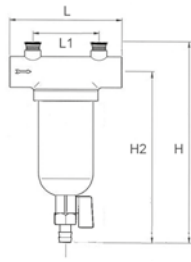



156

SELF CLEANING FILTER, 100 MICRON SCREEN



PN 25.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 130° C.
Inlet and outlet manometer attack.
3/8" Drain valve.
Screen in AISI 304 stainless steel – 100 microns.
Available 300 microns screen.



Ø	L mm.	L1 mm.	H mm.	H2 mm.			CODE
1/2"	118	70	196	165	10	1	RP156003
3/4"	118	70	196	165	10	1	RP156004
1"	123	72	220	180	6	1	RP156005
1 1/4"	123	72	220	180	6	1	RP156006
1 1/2"	153	98	258	214	6	1	RP156007
2"	153	98	258	214	6	1	RP156008

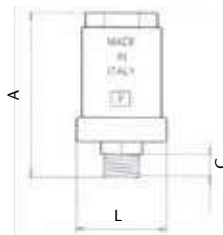



145

STOPSHOCK VALVE

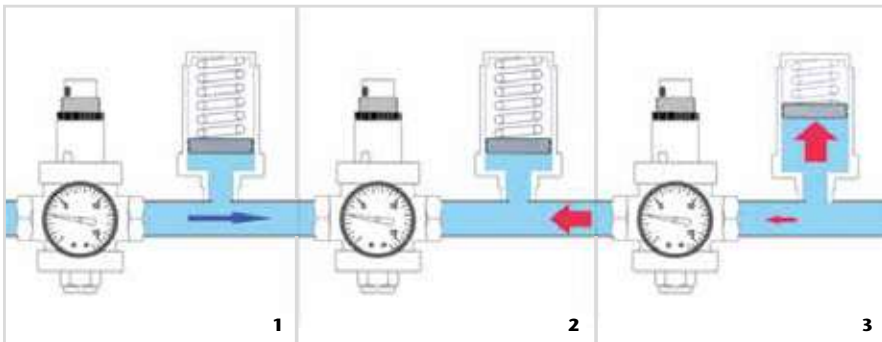


PN 10.
Brass according to EN 12165.
Gas thread, ISO 228/1.
Maximum temperature 130° C.
Stainless steel spring.
Maximum outlet pressure 40 bar.



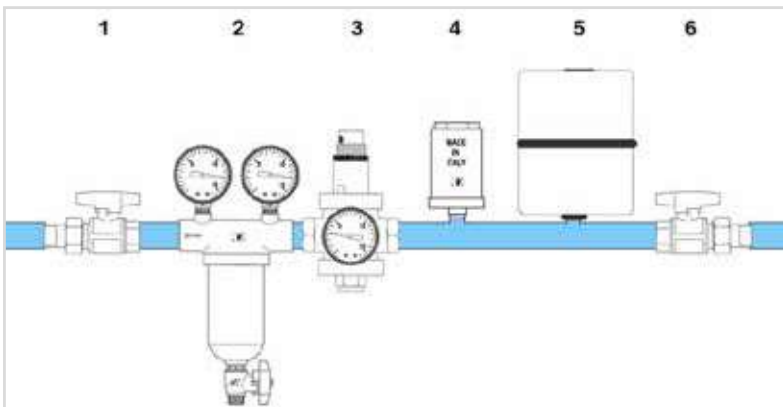
Ø	L mm.	A mm.	C mm.			CODE
1/2"	51	93	12	50	1	RP145003

FUNCTIONING OF THE STOPSHOCK VALVE



1. Normal functioning
2. Incoming of stopshock valve
3. Absorbing stopshock valve

INSTALLATION CORRECTE



1. Ball valve
2. Self cleaning filter
3. Pressure reducing valve
4. Stopshock valve
5. Expansion vessel
6. Ball valve

Possibility of
PERSONALIZATION

PRESSURE GAUGE

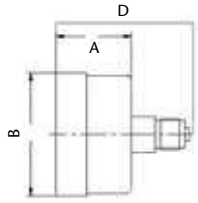


400

Ø 50 PRESSURE GAUGE



Black carbon steel case.
Inner part and connector in brass.
1/4" Male thread.
Back connection.
Double scale: bar / psi.
Produced according to EN 837-1 standard.
Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	29	54	47	125 1	VS400002
0 - 4	29	54	47	125 1	VS400004
0 - 6	29	54	47	125 1	VS400006
0 - 10	29	54	47	125 1	VS400010
0 - 16	29	54	47	125 1	VS400016

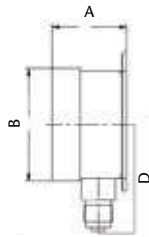


410

Ø 50 PRESSURE GAUGE



Black carbon steel case.
Inner part and connector in brass.
1/4" Male thread.
Bottom connection.
Double scale: bar / psi.
Produced according to EN 837-1 standard.
Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	29	54	45	180 1	VS410002
0 - 4	29	54	45	180 1	VS410004
0 - 6	29	54	45	180 1	VS410006
0 - 10	29	54	45	180 1	VS410010
0 - 16	29	54	45	180 1	VS410016

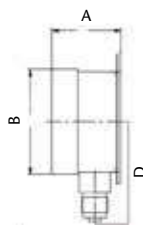


420

Ø 63 PRESSURE GAUGE



Black carbon steel case.
Inner part and connector in brass.
1/4" Male thread.
Bottom connection.
Double scale: bar / psi.
Produced according to EN 837-1 standard.
Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	30	63	52	120 1	VS420002
0 - 4	30	63	52	120 1	VS420004
0 - 6	30	63	52	120 1	VS420006
0 - 10	30	63	52	120 1	VS420010
0 - 16	30	63	52	120 1	VS420016

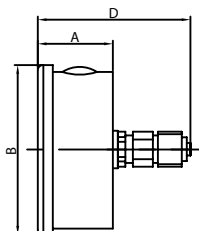


432

Ø 63 PRESSURE GAUGE WITH GLYCERINE



AISI 304 Stainless steel case.
Inner part and connector in brass.
1/4" Male thread.
Back connection.
Double scale: bar / psi.
Produced according to EN 837-1 standard.
Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	30	68	61	64 1	VS432002
0 - 4	30	68	61	64 1	VS432004
0 - 6	30	68	61	64 1	VS432006
0 - 10	30	68	61	64 1	VS432010
0 - 16	30	68	61	64 1	VS432016
0 - 25	30	68	61	64 1	VS432025
0 - 60	30	68	61	64 1	VS432060
0 - 100	30	68	61	64 1	VS432100

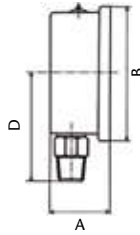


430

Ø 63 PRESSURE GAUGE WITH GLYCERINE Ø 63



AISI 304 Stainless steel case.
 Inner part and connector in brass.
 1/4" Male thread.
 Bottom connection.
 Double scale: bar / psi.
 Produced according to EN 837-1 standard.
 Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	30	68	55	100 1	VS430002
0 - 4	30	68	55	100 1	VS430004
0 - 6	30	68	55	100 1	VS430006
0 - 10	30	68	55	100 1	VS430010
0 - 16	30	68	55	100 1	VS430016
0 - 25	30	68	55	100 1	VS430025
0 - 60	30	68	55	100 1	VS430060
0 - 100	30	68	55	100 1	VS430100
0 - 250	30	68	55	100 1	VS430250
0 - 600	30	68	55	100 1	VS430600

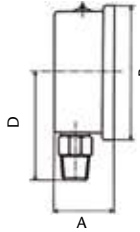


440

Ø 100 PRESSURE GAUGE WITH GLYCERINE Ø 100



AISI 304 Stainless steel case.
 Inner part and connector in brass.
 1/2" Male thread.
 Bottom connection.
 Double scale: bar / psi.
 Produced according to EN 837-1 standard.
 Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	36	109	83	36 1	VS440002
0 - 4	36	109	83	36 1	VS440004
0 - 6	36	109	83	36 1	VS440006
0 - 10	36	109	83	36 1	VS440010
0 - 16	36	109	83	36 1	VS440016
0 - 25	36	109	83	36 1	VS440025
0 - 60	36	109	83	36 1	VS440060
0 - 100	36	109	83	36 1	VS440100

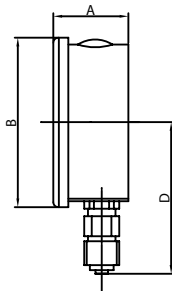


431

Ø 63 PRESSURE GAUGE WITH GLYCERINE



AISI 304 Stainless steel case.
 Inner part and connector in stainless steel AISI 304.
 1/4" Male thread.
 Bottom connection.
 Double scale: bar / psi.
 Produced according to EN 837-1 standard.
 Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 2	30	68	60	100 1	VS431002
0 - 4	30	68	60	100 1	VS431004
0 - 6	30	68	60	100 1	VS431006
0 - 10	30	68	60	100 1	VS431010
0 - 16	30	68	60	100 1	VS431016
0 - 25	30	68	60	100 1	VS431025
0 - 60	30	68	60	100 1	VS431060
0 - 100	30	68	60	100 1	VS431100

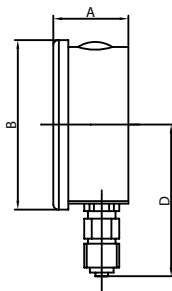


441

Ø 100 PRESSURE GAUGE WITH GLYCERINE



AISI 304 Stainless steel case.
 Inner part and connector in stainless steel AISI 304.
 1/2" Male thread.
 Bottom connection.
 Double scale: bar / psi.
 Produced according to EN 837-1 standard.
 Precision class 1,6.



RANGO PRESIÓN	A mm.	B mm.	D mm.		CODE
0 - 6	36	109	85	36 1	VS441006
0 - 10	36	109	85	36 1	VS441010
0 - 16	36	109	85	36 1	VS441016
0 - 25	36	109	85	36 1	VS441025
0 - 60	36	109	85	36 1	VS441060
0 - 100	36	109	85	36 1	VS441100

Possibility of
PERSONALIZATION

THERMOMETER



610

Ø63 AXIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
1/2" Back connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS610505
0°C a 60°C	50	100 1	VS610506
0°C a 120°C	50	100 1	VS610501
-30°C a 50°C	100	50 1	VS610105
0°C a 60°C	100	50 1	VS610106
0°C a 120°C	100	50 1	VS610101



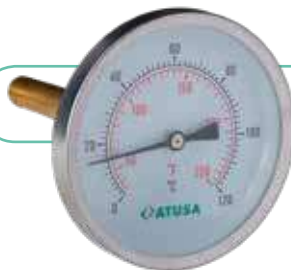
620

Ø80 AXIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
1/2" Back connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS620505
0°C a 60°C	50	100 1	VS620506
0°C a 120°C	50	100 1	VS620501
-30°C a 50°C	100	50 1	VS620105
0°C a 60°C	100	50 1	VS620106
0°C a 120°C	100	50 1	VS620101



630

Ø100 AXIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
1/2" Back connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS630505
0°C a 60°C	50	100 1	VS630506
0°C a 120°C	50	100 1	VS630501
-30°C a 50°C	100	50 1	VS630105
0°C a 60°C	100	50 1	VS630106
0°C a 120°C	100	50 1	VS630101



640

Ø63 RADIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
Dial with nominal size 63 (Ø 63).
1/2" Bottom connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS640505
0°C a 60°C	50	100 1	VS640506
0°C a 120°C	50	100 1	VS640501
-30°C a 50°C	100	50 1	VS640105
0°C a 60°C	100	50 1	VS640106
0°C a 120°C	100	50 1	VS640101



650

Ø80 RADIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
Dial with nominal size 80 (Ø 80).
1/2" Bottom connection.
Double scale: °C (black) / °F (red).

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS650505
0°C a 60°C	50	100 1	VS650506
0°C a 120°C	50	100 1	VS650501
-30°C a 50°C	100	50 1	VS650105
0°C a 60°C	100	50 1	VS650106
0°C a 120°C	100	50 1	VS650101



660

Ø100 RADIAL BIMETALLIC THERMOMETER



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
Dial with nominal size 100 (Ø 100).
1/2" Bottom connection.
Double scale: °C (black) / °F (red).

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS660505
0°C a 60°C	50	100 1	VS660506
0°C a 120°C	50	100 1	VS660501
-30°C a 50°C	100	50 1	VS660105
0°C a 60°C	100	50 1	VS660106
0°C a 120°C	100	50 1	VS660101



670

Ø150 AXIAL MONOBLOK



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
1/2" Bottom connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS670505
0°C a 60°C	50	100 1	VS670506
0°C a 120°C	50	100 1	VS670501
-30°C a 50°C	100	50 1	VS670105
0°C a 60°C	100	50 1	VS670106
0°C a 120°C	100	50 1	VS670101



680

Ø150 RADIAL MONOBLOK



Case in Chromed Steel.
Glass window.
Dial and pointer in aluminum.
Brass stem.
1/2" Back connection.

TEMPERATURE	STEM mm.		CODE
-30°C a 50°C	50	100 1	VS680505
0°C a 60°C	50	100 1	VS680506
0°C a 120°C	50	100 1	VS680501
-30°C a 50°C	100	50 1	VS680105
0°C a 60°C	100	50 1	VS680106
0°C a 120°C	100	50 1	VS680101



690

BRASS STEM FOR BIMETALLIC THERMOMETER

STEM mm.		CODE
50	1	VS690050
100	1	VS690100

SEALANTS

A90

ANAEROBIC SEALANT OF PTFE FOR METAL JOINT



	CODE
6	TLA90000

FEATURES

Bottle contents: 50 ml e.
 Suitable for cold and hot water.
 According EN 751-1 standard for combustibles gases.
 WRAS and DVGW standards approved.
 Working temperature: -50° C to 150° C.
 Absorbs vibrations.
 Prevents corrosion.
 Due to its PTFE content, lubricates the union.
 It allows the dismantling of the union with normal tools.
 Storage between 5° C to 28° C, away from direct sunlight.

BENEFITS

Allows a quick test facilities.
 Directly from the bottle, without getting dirty.
 Thin dispenser, small quantity.
 Seal by simple tightening.
 The sealing remains while it is not dismantled.
 It allows to fill gaps up to 0.35 mm.

ATUSA FITTING SEALANT PTFE TAPE



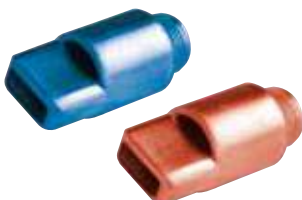
Ø	DENSITY g/cm ³		CODE
0,1 mm. x 12 mm. x 12 mts	0,3	350 10	TC001212
0,1 mm. x 25 mm. x 50 mts	0,3	60 5	TC002550
0,1 mm. x 19 mm. x 50 mts	0,3	80 5	TC001950
0,2 mm. x 19 mm. x 15 mts	0,3	100 5	TC001915
0,1 mm. x 12 mm. x 10 mts	1,0	250 10	TCG01210



GAS Special
 DVGW CERT ZP 5143
 DIN 30660

Recommended for pipe and threaded fittings sealant.

PLUG FOR INSTALLATION TEST - POLYESTER GASKETS



Ø	COLOUR		CODE
1/2 "	BLUE	600 20	RAFUTPAZ
1/2 "	RED	600 20	RAFUTPRO

Plugs for installation and tank tests.
 Made in ABS.
 Valid only for installation test with cold water.
 Polyester gaskets.
 Supplied in boxes of 20 plugs and 40 gaskets.

ACCESSORIES



**55R-54R
55-54 HANDLE**

Ø	CODE RED	CODE BLUE
1/2"	VSR55M03	VS055M03
3/4"	VSR55M04	VS055M04
1"	VSR55M05	VS055M05
1 1/4"	VSR55M06	VS055M06
1 1/2"	VSR55M07	VS055M07
2"	VSR55M08	VS055M08
2 1/2" - 3"	VSR55MAB	VS055MAB
4"	VSR55M0C	VS055M0C



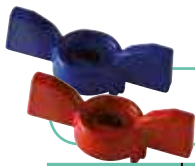
**50-56
40-46 HANDLE**

Ø	CODE RED	CODE BLUE
1/4" - 1/2"	VS050M13	VS040M13
3/4"	VS050M04	VS040M04
1"	VS050M05	VS040M05
1 1/4"	VS050M06	VS040M06
1 1/2" - 2"	VS050M78	VS040M78
2 1/2" - 3"	VS050MAB	VS040MAB
4"	VS050M0D	VS040M0D



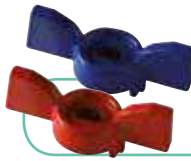
10 HANDLE

Ø	CODE
1/2" - 3/4"	VS010M34
1"	VS010M05
1 1/4" - 1 1/2"	VS010M67
2"	VS010M08



**355R-354R
355-354 HANDLE**

Ø	CODE RED	CODE BLUE
1/2"-3/4"	VSR35M34	VS355M34
1"	VSR35M05	VS355M05



**350-356
340-346 HANDLE**

Ø	CODE RED	CODE BLUE
3/8"-3/4"	VS350M24	VS340M24
1"	VS350M05	VS340M05



30/S HANDLE

Ø	CODE
1/2" - 3/4"	VS30SM34
1"	VS30SM05
1 1/4"-1 1/2"	VS30SM67
2"	VS30SM08



43 HANDLE

Ø	CODE
1/2"-3/4"	VS043M34
1"	VS043M05



44 HANDLE

Ø	CODE
1/2" - 3/4"	VS044M34
1"	VS044M05



45 HANDLE

Ø	CODE
1/2" - 3/4"	VS045M34
1"	VS045M05



173 HANDWHEEL

Ø	CODE
1/2" - 3/4"	VS173V34
1" - 1 1/4"	VS173V56
1 1/2" - 2"	VS173V78



205 SCREEN

Ø	CODE
1/2"	VS205M33
3/4"	VS205M34
1"	VS205M35
1/2"	VS205M03
3/4"	VS205M04
1"	VS205M05
1 1/4"	VS205M06
1 1/2"	VS205M07
2"	VS205M08
2 1/2"	VS205M0A
3"	VS205M0B
4"	VS205M0C

300 µm 500 µm 1200 µm



QUICK CONNECTOR

Ø	Box	CODE
3/4"	400 40	VS046RR4
1"	300 30	VS046RR5



QUICK CONNECTOR

Ø	Box	CODE
3/4"	140 20	VS046RP4
1"	60 15	VS046RP5
1 1/4"	30 10	VS046RP6



150 HANDWHEEL

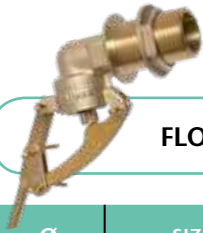
Ø	CODE
1/2" - 3/4"	VS150V34
1" - 1 1/4"	VS150V56
1 1/2" - 2"	VS150V78
2 1/2"	VS150V0A
3"	VS150V0B
4"	VS150V0C



205 JOINT

Ø	CODE
1/2"	VS205J03
3/4"	VS205J04
1"	VS205J05

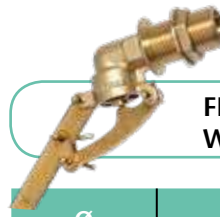
FLOAT VALVES AND FLOATS



FLOAT VALVE WITH FLAT ROD



Ø	SIZE			CODE
3/8"	3/16	50	5	VS91LR02
1/2"	6/100	50	5	VS91LR03
3/4"	7/100	50	5	VS91LR04
1"	8/100	25	5	VS91LR05
1 1/4"	9/100	10	1	VS91LR06
1 1/2"	9/100	10	1	VS91LR07
2"	9/100	6	1	VS91LR08



FLOAT VALVE WITH THREADED ROD

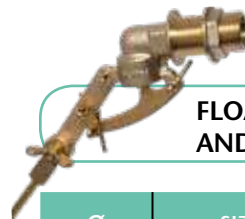


Ø			CODE
1/2"	50	5	VS91LP03
3/4"	50	5	VS91LP04
1"	25	5	VS91LP05
1 1/4"	10	1	VS91LP06
1 1/2"	10	1	VS91LP07
2"	6	1	VS91LP08



FLAT COPPER FLOAT FOR FLOAT VALVE WITH FLAT ROD

Ø	SIZE cm			CODE
1/2"	12	50	1	VS92CP03
3/4"	15	24	1	VS92CP04
1"	17	18	1	VS92CP05
1 1/4"	20	18	1	VS92CP06
1 1/2"	23	24	1	VS92CP07
2"	25	24	1	VS92CP08



FLOAT VALVE WITH THREADED AND ARTICULATED ROD



Ø	SIZE			CODE
1/2"	6/100	50	5	VS91LA03
3/4"	7/100	50	5	VS91LA04
1"	8/100	25	5	VS91LA05



SPHERICAL PLASTIC FLOAT FOR FLOAT VALVE WITH THREADED ROD

Ø	SIZE cm	THREAD			CODE
3/8"	9	3/16	200	1	VS92PE02
1/2"	11	6/100	110	1	VS92PE03
3/4"	13	7/100	65	1	VS92PE04
1"	15	8/100	30	1	VS92PE05
1 1/4" - 1 1/2"	20	9/100	18	1	VS92PE06
2"	23	9/100	12	1	VS92PE08



MIXED FLAT PLASTIC FLOAT FOR FLOAT VALVE

Ø	SIZE cm	THREAD			CODE
1/2"	12	6/100	120	1	VS92PM03
3/4"	12	7/100	120	1	VS92PM04
1"	15	8/100	60	1	VS92PM05
1 1/4" - 1 1/2"	20	9/100	25	1	VS92PM06
2"	25	9/100	13	1	VS92PM08



RUBBER GASKET OF PISTON

Ø		CODE
3/8"	10	VS93GP02
1/2"	10	VS93GP03
3/4"	10	VS93GP04
1"	10	VS93GP05
1 1/4"	10	VS93GP06
1 1/2"	10	VS93GP07
2"	10	VS93GP08



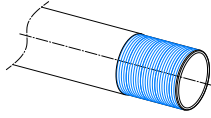
PIN OF FLOAT VALVE

Ø		CODE
3/8" y 1/2"	10	VS93PA02
3/4" y 1"	10	VS93PA04
1 1/4" y 1 1/2"	10	VS93PA06
2"	10	VS93PA08

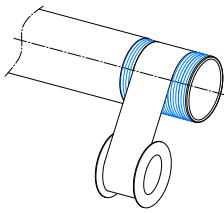
VALVE INSTALLATION REFERENCE

Ensure valve is suitable for service conditions, e.g. pressure, temperature, service media.

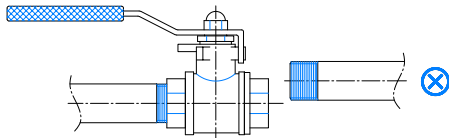
Ensure that the ends pipe is well defined and without scraps.



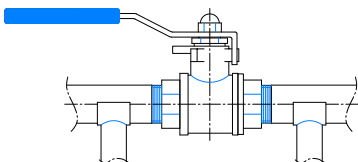
It is essential the use of a thread sealant (PTFE or similar) on the thread to give a pressure tight seal.



The connection pipes must be placed on the same axis. The valve does not absorb the differences. The resultant distortion of an incorrect alignment can produce sealant problems, maneuver difficulties and also rupture of the valve.



The pipes which joint the valve must be perfectly fastened.



NOTE: The design of the installation must avoid any stress to prevent damage to the valve and keep it operational at any time.

IMPORTANT CONSIDERATIONS

Ball valves should remain fully open or fully closed. The transition from one position to the other must be done gently in order to avoid sudden shocks, water-hammers.

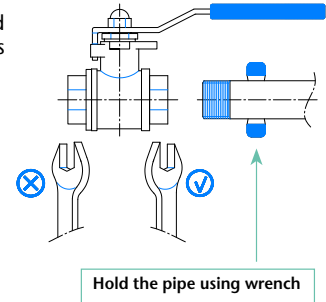
Opening and closing operations in the valve should be made approximately every two months, increasing this frequency when there are hard water or stools.

When the valve offer much resistance to opening or closing, it must be operated using a tube of sufficient length as a long handle. For installations temporarily out of service, it is recommended to close the connection and draining it.

Never grip the valve bodies in a vice, do not block with extensions of key. The valve could be deformed or even broken.

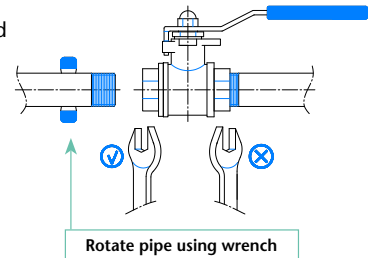
When joining the pipe with the valve, the spanner or wrench should be placed on the flats of the right position, do not use other key.

First side: Pipe held secure and rotate the valve, grip on flats next to joint being made.



Hold the pipe using wrench

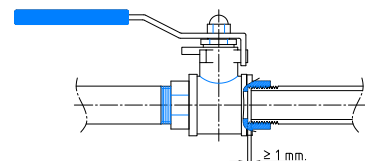
Second side: The valve held secure and rotate the pipe.



Rotate pipe using wrench

In general, not exceed a torque of 30 Nm.

Due to the fact that usually the length of the pipe thread is longer that the tread of the valve, is essential, to avoid valve broken, that the pipe extremity never butt against the shoulder of the seat. Minimum 1 mm.



FLEXIBLE CONNECTORS

DN 8

STAINLESS STEEL BRAIDED FLEXIBLE CONNECTOR FOR SANITARY INSTALLATIONS



EPDM rubber inner tube – ACS certified.
 Stainless steel braid AISI 304.
 Stainless steel ferrules AISI 304.
 Nickel plated brass fittings.
 EPDM rubber washers incorporated.
 According to EN 13618.
 AENOR certified product.
 CSTBat certified product.

Inner diameter: 8 mm.
 Outer diameter: 12 mm.
 Fitting inner diameter: 6 mm.
 Flow rate: 30 l./min.
 Minimum bending radius: 30 mm.
 Working pressure: 10 bar.
 Maximum working temperature: 90° C.
 Suitable for drinking water.

Applications:

Sanitary installations, wash- basins, bidets, WC suites, water heaters, catering.



F 3/8" - F 3/8"



M 3/8" - F 3/8"

LENGTH mm.			CODE
150	200	5	H1H2H215
200	100	5	H1H2H220
250	100	5	H1H2H225
300	100	5	H1H2H230
350	100	5	H1H2H235
400	120	5	H1H2H240
500	100	5	H1H2H250
600	100	5	H1H2H260
800	100	5	H1H2H280
1000	50	5	H1H2H299

LENGTH mm.			CODE
150	200	5	H1M2H215
200	100	5	H1M2H220
250	100	5	H1M2H225
300	100	5	H1M2H230
350	100	5	H1M2H235
400	120	5	H1M2H240
500	100	5	H1M2H250
600	100	5	H1M2H260
800	100	5	H1M2H280
1000	50	5	H1M2H299



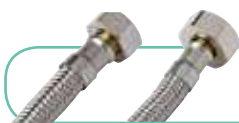
F 1/2" - F 1/2"



M 1/2" - F 1/2"

LENGTH mm.			CODE
150	200	5	H1H3H315
200	100	5	H1H3H320
250	100	5	H1H3H325
300	100	5	H1H3H330
350	100	5	H1H3H335
400	120	5	H1H3H340
500	100	5	H1H3H350
600	100	5	H1H3H360
800	100	5	H1H3H380
1000	50	5	H1H3H399

LENGTH mm.			CODE
150	200	5	H1M3H315
200	100	5	H1M3H320
250	100	5	H1M3H325
300	100	5	H1M3H330
350	100	5	H1M3H335
400	120	5	H1M3H340
500	100	5	H1M3H350
600	100	5	H1M3H360
800	100	5	H1M3H380
1000	50	5	H1M3H399



F 3/8" - F 1/2"

LENGTH mm.			CODE
150	200	5	H1H2H315
200	100	5	H1H2H320
250	100	5	H1H2H325
300	100	5	H1H2H330
350	100	5	H1H2H335
400	120	5	H1H2H340
500	100	5	H1H2H350
600	100	5	H1H2H360
800	100	5	H1H2H380
1000	50	5	H1H2H399



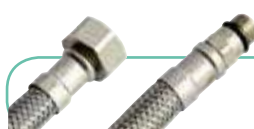
M 1/2" - F 3/8"

LENGTH mm.			CODE
150	200	5	H1M3H215
200	100	5	H1M3H220
250	100	5	H1M3H225
300	100	5	H1M3H230
350	100	5	H1M3H235
400	120	5	H1M3H240
500	100	5	H1M3H250
600	100	5	H1M3H260
800	100	5	H1M3H280
1000	50	5	H1M3H299



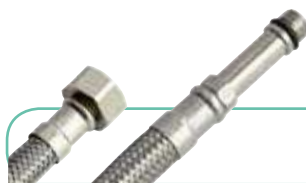
M 3/8" - F 1/2"

LENGTH mm.			CODE
150	200	5	H1M2H315
200	100	5	H1M2H320
250	100	5	H1M2H325
300	100	5	H1M2H330
350	100	5	H1M2H335
400	120	5	H1M2H340
500	100	5	H1M2H350
600	100	5	H1M2H360
800	100	5	H1M2H380
1000	50	5	H1M2H399



F 3/8" - M 10x1 L17

LENGTH mm.			CODE
300	100	5	H1H21130
400	120	5	H1H21140
500	100	5	H1H21150



F 3/8" - M 10x1 L37

LENGTH mm.			CODE
300	100	5	H1H21330
400	120	5	H1H21340
500	100	5	H1H21350

DN 13

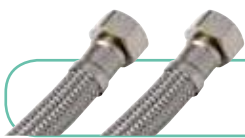
STAINLESS STEEL BRAIDED FLEXIBLE CONNECTOR FOR WATER HEATER AND AIR CONDITIONING



EPDM rubber inner tube – ACS certified.
 Stainless steel braid AISI 304.
 Stainless steel ferrules AISI 304.
 Nickel plated brass fittings.
 EPDM rubber washers incorporated.
 According to EN 13618.
 CSTBat certified product.

Inner diameter: 13 mm.
 Outer diameter: 17 mm.
 Fitting inner diameter: 10 mm.
 Flow rate: 70 l./min.
 Minimum bending radius: 45 mm.
 Working pressure: 10 bar.
 Maximum working temperature: 90° C.
 Suitable for drinking water.

Applications:
 Water heaters, water tanks, solar panels, air conditioning, washing machines.



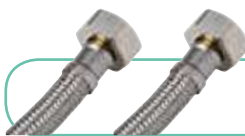
F 1/2'' - F 1/2''

LENGTH mm.			CODE
200	60	5	H2H3H320
250	50	5	H2H3H325
300	60	5	H2H3H330
350	50	5	H2H3H335
400	70	5	H2H3H340
500	50	5	H2H3H350
600	50	5	H2H3H360
800	50	5	H2H3H380
1000	50	5	H2H3H399



M 1/2'' - F 1/2''

LENGTH mm.			CODE
200	60	5	H2M3H320
250	50	5	H2M3H325
300	60	5	H2M3H330
350	50	5	H2M3H335
400	70	5	H2M3H340
500	50	5	H2M3H350
600	50	5	H2M3H360
800	50	5	H2M3H380
1000	50	5	H2M3H399



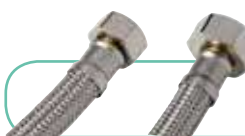
F 3/4'' - F 3/4''

LENGTH mm.			CODE
200	50	5	H2H4H420
250	50	5	H2H4H425
300	60	5	H2H4H430
350	50	5	H2H4H435
400	60	5	H2H4H440
500	50	5	H2H4H450
600	50	5	H2H4H460
800	50	5	H2H4H480
1000	50	5	H2H4H499



M 3/4'' - F 3/4''

LENGTH mm.			CODE
200	50	5	H2M4H420
250	50	5	H2M4H425
300	60	5	H2M4H430
350	50	5	H2M4H435
400	60	5	H2M4H440
500	50	5	H2M4H450
600	50	5	H2M4H460
800	50	5	H2M4H480
1000	50	5	H2M4H499



F 1/2'' - F 3/4''

LENGTH mm.			CODE
250	50	5	H2H3H425
300	60	5	H2H3H430
350	50	5	H2H3H435
400	60	5	H2H3H440
500	50	5	H2H3H450



M 1/2'' - F 3/4''

LENGTH mm.			CODE
250	50	5	H2M3H425
300	60	5	H2M3H430
350	50	5	H2M3H435
400	60	5	H2M3H440
500	50	5	H2M3H450

DN 19-50

STAINLESS STEEL BRAIDED FLEXIBLE CONNECTOR FOR WATER METERS AND PRESSURE METERS



EPDM rubber inner tube – ACS certified.
 Stainless steel braid AISI 304.
 Stainless steel ferrules AISI 304 (3/4" and 1").
 Aluminium ferrules (1 1/4" to 2").
 Nickel plated brass fittings.
 EPDM rubber washers.

Working pressure: 16 bar.

Maximum working temperature: 90° C.
 Suitable for drinking water.

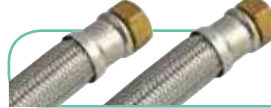
Applications:

Water meters, pressure meters, water pumps, air conditioning, industrial applications.



M 3/4" - F 3/4"

FEATURES	LENGTH mm.		CODE
Inner diameter: 19 mm. Outer diameter: 27 mm. Fitting inner diameter: 15 mm. Flow rate: 120 l./min. Minimum bending radius: 80 mm.	300	25 5	H3M4H430
	400	25 5	H3M4H440
	500	25 5	H3M4H450
	600	25 5	H3M4H460
	800	25 5	H3M4H480
	1000	25 5	H3M4H499



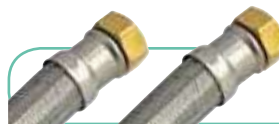
F 3/4" - F 3/4"

FEATURES	LENGTH mm.		CODE
Inner diameter: 19 mm. Outer diameter: 27 mm. Fitting inner diameter: 15 mm. Caudal nominal: 120 l./min. Minimum bending radius: 80 mm.	300	25 5	H3H4H430
	400	25 5	H3H4H440
	500	25 5	H3H4H450
	600	25 5	H3H4H460
	800	25 5	H3H4H480
	1000	25 5	H3H4H499



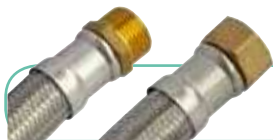
M 1" - F 1"

FEATURES	LENGTH mm.		CODE
Inner diameter: 25 mm. Outer diameter: 33 mm. Fitting inner diameter: 20 mm. Flow rate: 200 l./min. Minimum bending radius: 100 mm.	300	25 5	H3M5H530
	400	25 5	H3M5H540
	500	25 5	H3M5H550
	600	15 5	H3M5H560
	800	15 5	H3M5H580
	1000	10 5	H3M5H599



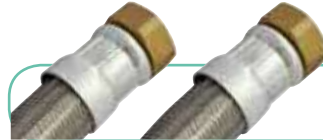
F 1" - F 1"

FEATURES	LENGTH mm.		CODE
Inner diameter: 25 mm. Outer diameter: 33 mm. Fitting inner diameter: 20 mm. Caudal nominal: 200 l./min. Minimum bending radius: 100 mm.	300	25 5	H3H5H530
	400	25 5	H3H5H540
	500	25 5	H3H5H550
	600	15 5	H3H5H560
	800	15 5	H3H5H580
	1000	10 5	H3H5H599



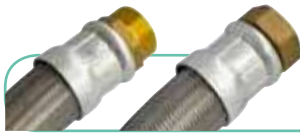
M 1 1/4" - F 1 1/4"

FEATURES	LENGTH mm.		CODE
Inner diameter: 30 mm. Outer diameter: 43 mm. Fitting inner diameter: 25 mm. Flow rate: 200 l./min. Minimum bending radius: 100 mm.	300	15 5	H3M6H630
	400	10 5	H3M6H640
	500	10 5	H3M6H650
	600	10 5	H3M6H660
	800	10 5	H3M6H680
	1000	10 5	H3M6H699

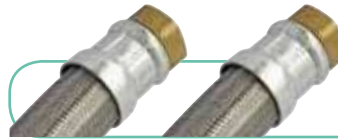


F 1 1/4" - F 1 1/4"

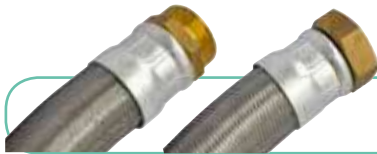
FEATURES	LENGTH mm.		CODE
Inner diameter: 30 mm. Outer diameter: 43 mm. Fitting inner diameter: 25 mm. Caudal nominal: 400 l./min. Minimum bending radius: 190 mm.	300	15 5	H3H6H630
	400	10 5	H3H6H640
	500	10 5	H3H6H650
	600	10 5	H3H6H660
	800	10 5	H3H6H680
	1000	10 5	H3H6H699


M 1 1/2" - F 1 1/2"

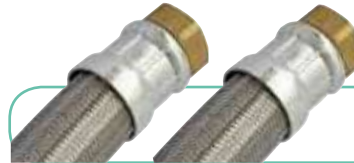
FEATURES	LENGTH mm.		CODE
Inner diameter: 40 mm. Outer diameter: 53 mm. Fitting inner diameter: 32 mm. Flow rate: 700 l./min. Minimum bending radius: 230 mm.	300	15 5	H3M7H730
	400	10 5	H3M7H740
	500	10 5	H3M7H750
	600	5 5	H3M7H760
	800	5 5	H3M7H780
	1000	5 5	H3M7H799


F 1 1/2" - F 1 1/2"

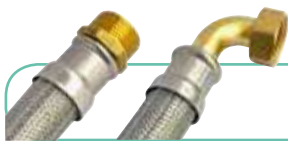
FEATURES	LENGTH mm.		CODE
Inner diameter: 40 mm. Outer diameter: 53 mm. Fitting inner diameter: 32 mm. Flow rate: 700 l./min. Minimum bending radius: 230 mm.	300	15 5	H3H7H730
	400	10 5	H3H7H740
	500	10 5	H3H7H750
	600	5 5	H3H7H760
	800	5 5	H3H7H780
	1000	5 5	H3H7H799


M 2" - F 2"

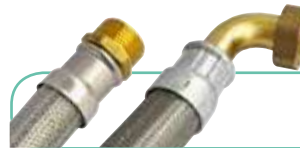
FEATURES	LENGTH mm.		CODE
Inner diameter: 50 mm. Outer diameter: 63 mm. Fitting inner diameter: 40 mm. Flow rate: 1.050 l./min. Minimum bending radius: 300 mm.	300	10 5	H3M8H830
	400	10 5	H3M8H840
	500	10 5	H3M8H850
	600	5 5	H3M8H860
	800	5 5	H3M8H880
	1000	5 5	H3M8H899


F 2" - F 2"

FEATURES	LENGTH mm.		CODE
Inner diameter: 50 mm. Outer diameter: 63 mm. Fitting inner diameter: 40 mm. Flow rate: 1050 l./min. Minimum bending radius: 300 mm.	300	10 5	H3H8H830
	400	10 5	H3H8H840
	500	10 5	H3H8H850
	600	5 5	H3H8H860
	800	5 5	H3H8H880
	1000	5 5	H3H8H899


M 1" - ELBOW F 1"

FEATURES	LENGTH mm.		CODE
Inner diameter: 25 mm. Outer diameter: 33 mm. Fitting inner diameter: 20 mm. Flow rate: 200 l./min. Minimum bending radius: 100 mm.	600	15 5	H3M5C560
	800	15 5	H3M5C580

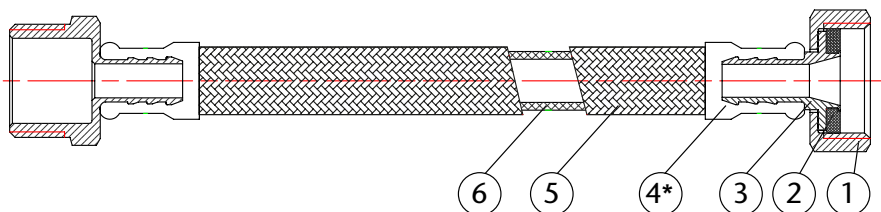

M 1 1/4" - ELBOW F 1 1/4"

FEATURES	LENGTH mm.		CODE
Inner diameter: 30 mm. Outer diameter: 43 mm. Fitting inner diameter: 25 mm. Flow rate: 400 l./min. Minimum bending radius: 190 mm.	600	10 5	H3M6C660
	800	10 5	H3M6C680


EPDM RUBBER GASKET FOR FLEXIBLE CONNECTORS

Ø		CODE
3/8"	50	HJ000002
1/2" - DN 8	50	HJ000003
1/2" - DN 13	50	HJ000033
3/4"	50	HJ000004
1"	50	HJ000005
1 1/4"	10	HJ000006
1 1/2"	10	HJ000007
2"	10	HJ000008

MATERIALS

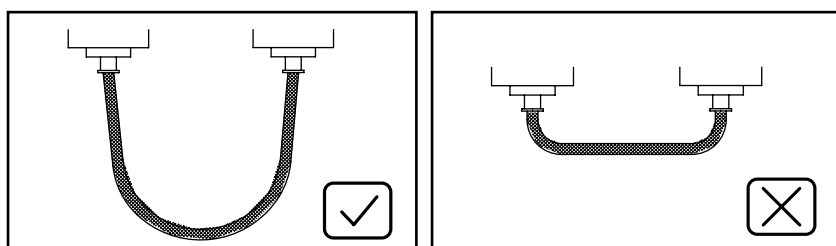


1. Nickel plated brass.
2. EPDM rubber.
3. Brass.
4. Stainless steel AISI 304.
- * Aluminium for sizes from 1 1/4" to 2".
5. Stainless steel AISI 304.
6. EPDM.

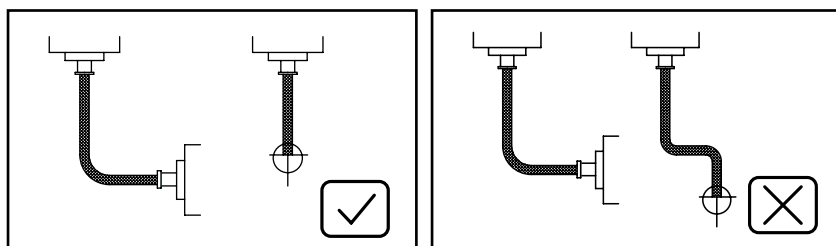
RECOMMENDATIONS FOR INSTALLATION

Before using the flexible connector, verify that the product is under perfect conditions.

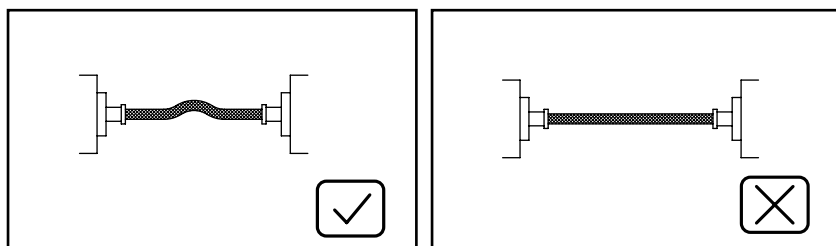
The flexible connectors must be installed visible. They do not have to go through the wall.



Respect the minimum bending radius for each diameter.



Ensure that the flexible connector is not twisted.



Allow extra length to avoid any tension.

The responsibility of the manufacturer is excluded in case of not respecting the recommendations of installation.

FIXING SYSTEM

The **ATUSA** fixing systems range is considered as an important complement to our catalogue.

We also try to keep up to date with an increasingly varied range - steel clamps, with isophonic gasket, reinforced, PVC, fixing system for sanitary.

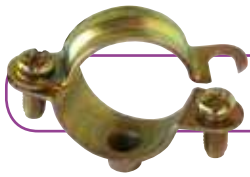
ATUSA also deals with clamps which are used to secure pipes or channels of any type, whether in a vertical or horizontal position or suspended from wall, rail or ceiling.



 **ATUSA**

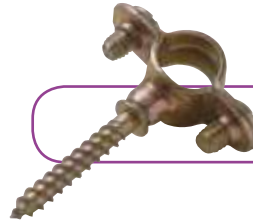
FIXING SYSTEM

LIGHT DUTY PIPE CLAMPS


M6 PIPE CLAMP

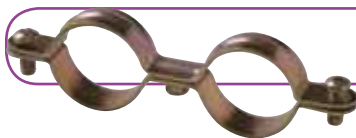
Side opening allows a rapid installation. Yellow zinc plated.

Ø mm.	INCHES		CODE
12	1/4"	1.000 100	RFSM0012
15	-	1.000 100	RFSM0015
16	-	1.000 100	RFSM0016
18	3/8"	1.000 100	RFSM0018
20	-	1.000 100	RFSM0020
22	1/2"	1.000 100	RFSM0022
26	3/4"	1.000 100	RFSM0026
28	-	1.000 100	RFSM0028
32	1"	500 50	RFSM0032
35	-	500 50	RFSM0035
40	-	500 50	RFSM0040
42	1 1/4"	500 50	RFSM0042
50	-	500 50	RFSM0050
63	-	250 50	RFSM0063


PIPE CLAMP M6 WITH SCREW

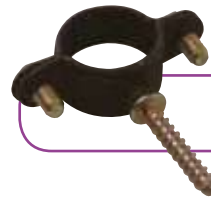
Side opening allows a rapid installation. Yellow zinc plated.

Ø mm.	INCHES		CODE
12	1/4"	1.000 100	RFSMT012
15	-	1.000 100	RFSMT015
18	3/8"	1.000 100	RFSMT018
20	-	1.000 100	RFSMT020
22	1/2"	1.000 100	RFSMT022
24	-	1.000 100	RFSMT024
26	3/4"	1.000 100	RFSMT026
28	-	1.000 100	RFSMT028
32	1"	500 50	RFSMT032
35	-	500 50	RFSMT035
40	-	500 50	RFSMT040
42	1 1/4"	500 50	RFSMT042
50	-	500 50	RFSMT050


M6 DOUBLE PIPE CLAMP

Yellow zinc plated.

Ø mm.	INCHES		CODE
12	1/8"	500 50	RFDM0012
14-15	1/4"	500 50	RFDM0014
18	3/8"	500 50	RFDM0018
22	1/2"	500 50	RFDM0022
28	3/4"	500 50	RFDM0028 (1)


M6 BLACK PIPE CLAMP "GAS" WITH SCREW

Side opening allows a rapid installation. High resistance black finish.

Ø mm.	INCHES		CODE
15	3/8"	1.000 100	RFSRN015
18	-	1.000 100	RFSRN018
22	-	1.000 100	RFSRN022
28	3/4"	1.000 100	RFSRN028


M6 DOUBLE PIPE CLAMP WITH SCREW

Yellow zinc plated.


Ø mm.	INCHES		CODE
12	1/8"	500 50	RFDMT012
14	1/4"	500 50	RFDMT014
18	3/8"	500 50	RFDMT018
22	1/2"	500 50	RFDMT022
28	3/4"	500 50	RFDMT028

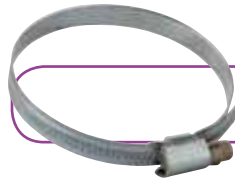
(1) Available while stock last.



M6 PIPE CLAMP WITH RUBBER

Side opening allows a rapid installation. Yellow zinc plated. Rubber band for insulation and sound reduction.


Ø mm.	INCHES		CODE
12	1/4"	1.000 100	RFSG0012
14-15	-	1.000 100	RFSG0014
18	-	1.000 100	RFSG0018
20	1/2"	1.000 100	RFSG0020
22	-	1.000 100	RFSG0022
26	3/4"	500 100	RFSG0026
28	-	500 100	RFSG0028
32	1"	500 50	RFSG0032
35	-	500 50	RFSG0035
42	1 1/4"	500 50	RFSG0042

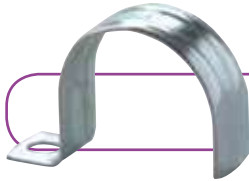


HOSE CLAMP




Band with raised and rounded edges to protect the conduit surface. For industrial, agricultural and domestic applications.

Ø mm.	INCHES		CODE
10	10-16	1.000 100	RFSF0010
12	12-20	1.000 100	RFSF0012
15	16-25	1.000 100	RFSF0015
20	20-32	1.000 100	RFSF0020
25	25-40	500 100	RFSF0025
32	32-50	500 100	RFSF0032
40	40-60	500 50	RFSF0040
50	50-70	250 50	RFSF0050
60	60-80	250 50	RFSF0060
70	70-90	250 50	RFSF0070
80	80-100	250 25	RFSF0080
90	90-110	125 25	RFSF0090
100	100-120	125 25	RFSF0100
120	120-140	50 25	RFSF0120
140	140-160	50 25	RFSF0140



CONDUIT CLIP


Zinc plated steel. For cables and steel and PVC pipes.

Ø mm.	INCHES		CODE
8	-	2.000 100	RFGA0008
10	1/8"	2.000 100	RFGA0010
12	1/4"	2.000 100	RFGA0012
15	-	2.000 100	RFGA0015
16	3/8"	1.000 100	RFGA0016
18	-	1.000 100	RFGA0018
20	1/2"	1.000 100	RFGA0020
22	-	1.000 100	RFGA0022
26	3/4"	1.000 100	RFGA0026
32	1"	1.000 100	RFGA0032
40	-	500 50	RFGA0040

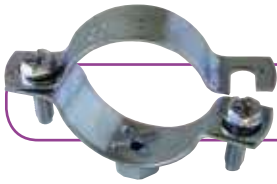


BRIDGE CONDUIT CLIP

Zinc plated steel. For cables and steel and PVC pipes.

Ø mm.	INCHES		CODE
8	-	2.000 100	RFGAP008
10	1/8"	2.000 100	RFGAP010
12	1/4"	2.000 100	RFGAP012
15	-	1.000 100	RFGAP015
16	3/8"	1.000 100	RFGAP016
18	-	1.000 100	RFGAP018
20	1/2"	1.000 100	RFGAP020
22	-	1.000 100	RFGAP022
24	-	1.000 100	RFGAP024
26	3/4"	1.000 100	RFGAP026
30	-	500 50	RFGAP030
32	1"	500 50	RFGAP032
40	-	500 50	RFGAP040

HEAVY DUTY PIPE CLAMPS


M8 OPEN PIPE CLAMP

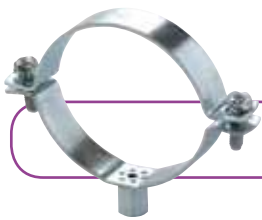
M8 OPEN PIPE CLAMP WITH RUBBER


Side opening allows a rapid installation. For horizontal, vertical and suspended installations.

Ø	mm.	INCHES		CODE
22	20-25	1/2"	500 100	RFRM0022
28	26-30	3/4"	250 50	RFRM0028
35	32-36	1"	250 50	RFRM0035
42	38-43	1 1/4"	250 25	RFRM0042
48	47-51	1 1/2"	250 25	RFRM0048
54	53-58	-	250 25	RFRM0054
60	60-64	2"	125 25	RFRM0060
75	75-80	2 1/2"	100 20	RFRM0075
90	87-92	3"	90 18	RFRM0090
110	107-112	-	30 15	RFRM0110
115	113-118	4"	30 15	RFRM0115
125	125-130	-	30 15	RFRM0125

Side opening allows a rapid installation. Rubber band for insulation and sound reduction. For horizontal, vertical and suspended installations.

Ø	mm.	INCHES		CODE
15	12-16	1/4"	500 50	RFRG0015
18	15-19	3/8"	250 50	RFRG0018
22	20-25	1/2"	250 50	RFRG0022
28	26-30	3/4"	250 25	RFRG0028
35	32-36	1"	250 25	RFRG0035
42	38-43	1 1/4"	125 25	RFRG0042
48	47-51	1 1/2"	100 20	RFRG0048
54	53-58	-	100 20	RFRG0054
60	60-64	2"	100 20	RFRG0060
75	75-80	2 1/2"	40 20	RFRG0075
90	87-92	3"	40 20	RFRG0090
110	107-112	-	25 -	RFRG0110
115	113-118	4"	20 -	RFRG0115
125	125-130	-	20 -	RFRG0125


M8/M10 PIPE CLAMP

M8/M10 PIPE CLAMP WITH RUBBER


For horizontal, vertical and suspended installations.

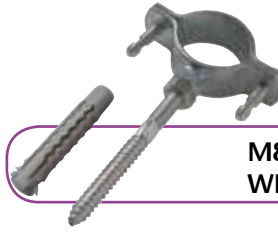
Ø	mm.	INCHES		CODE
22	20-25	1/2"	500 50	RFRMD022
28	26-30	3/4"	500 50	RFRMD028
35	32-36	1"	250 50	RFRMD035
40	38-43	1 1/4"	250 25	RFRMD040
48	47-51	1 1/2"	250 25	RFRMD048
54	53-58	-	125 25	RFRMD054
60	60-64	2"	125 25	RFRMD060
75	75-80	2 1/2"	100 20	RFRMD075
90	87-92	3"	80 16	RFRMD090
110	107-112	-	50 10	RFRMD110
115	113-118	4"	25 -	RFRMD115
125	125-130	-	25 -	RFRMD125
140	138-142	5"	25 -	RFRMD140
160	159-166	6"	25 -	RFRMD160
200	200-212	-	25 -	RFRMD200
250	248-252	-	20 -	RFRMD250
315	312-318	-	20 -	RFRMD315

Rubber band for insulation and sound reduction. For horizontal, vertical and suspended installations.

Ø	mm.	INCHES		CODE
18	15-19	3/8"	250 50	RFRGD018
22	20-25	1/2"	250 50	RFRGD022
28	26-30	3/4"	250 25	RFRGD028
35	32-36	1"	250 25	RFRGD035
40	38-43	1 1/4"	125 25	RFRGD040
48	47-51	1 1/2"	100 20	RFRGD048
54	53-58	-	100 20	RFRGD054
60	60-64	2"	100 20	RFRGD060
75	75-80	2 1/2"	50 25	RFRGD075
90	87-92	3"	40 20	RFRGD090
110	107-112	-	25 -	RFRGD110
115	113-118	4"	20 -	RFRGD115
125	125-130	-	20 -	RFRGD125
140	138-142	5"	15 -	RFRGD140
160	159-166	6"	15 -	RFRGD160
200	200-212	-	20 -	RFRGD200
250	248-252	-	15 -	RFRGD250




**M8/M10 PIPE CLAMP
"PREMIUM"**




**M8/M10 PIPE CLAMP "PREMIUM"
WITH PLUG AND SCREW**

Safety screw system. Welded nut.

INCHES	mm.	BOLT		CODE
3/8"	16-18	M8	150 2	RAF35102
1/2"	20-22	M8	150 2	RAF35103
3/4"	25-28	M8	150 2	RAF35104
1"	31-34	M8	150 2	RAF35105
1 1/4"	39-43	M8	100 2	RAF35106
1 1/2"	45-48.5	M8	100 2	RAF35107
2"	58-61	M8	100 2	RAF35108
2 1/2"	73-76.5	M10	80 2	RAF3510A
3"	86-89	M10	60 2	RAF3510B
4"	110-115	M10	40 2	RAF3510C

Safety screw system. Welded nut.

INCHES	mm.	BOLT	PLUG		CODE
3/8"	16-18	M8x100	10x50	150 2	RAF35502
1/2"	20-22	M8x100	10x50	150 2	RAF35503
3/4"	25-28	M8x100	10x50	150 2	RAF35504
1"	31-34	M8x100	10x50	100 2	RAF35505
1 1/4"	39-43	M8x100	10x50	100 2	RAF35506
1 1/2"	45-48.5	M8x100	10x50	100 2	RAF35507
2"	58-61	M8x100	10x50	100 2	RAF35508
2 1/2"	73-76.5	M10x120	12x60	80 2	RAF3550A
3"	86-89	M10x120	12x60	60 2	RAF3550B
4"	110-115	M10x120	12x60	40 2	RAF3550C




**M8/M10 PIPE CLAMP
"PREMIUM" WITH RUBBER**




**M8/M10 PIPE CLAMP "PREMIUM"
WITH RUBBER, PLUG AND SCREW**

Safety screw system. Welded nut. Vulcanized EPDM rubber.

INCHES	mm.	BOLT		CODE
3/8"	17-19	M8	100 2	RAF351G2
1/2"	21-23	M8	100 2	RAF351G3
3/4"	26.5-28	M8	100 2	RAF351G4
1"	33-35	M8	80 2	RAF351G5
1 1/4"	42-45	M8	60 2	RAF351G6
1 1/2"	48-50	M8	60 2	RAF351G7
2"	60-64	M8	40 2	RAF351G8
2 1/2"	73-80	M10	40 2	RAF351GA
3"	87-91	M10	40 2	RAF351GB
4"	108-116	M10	20 2	RAF351GC

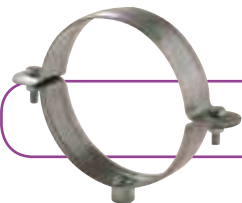
Safety screw system. Welded nut. Vulcanized EPDM rubber.

INCHES	mm.	BOLT	PLUG		CODE
3/8"	17-19	M8x100	10x50	100 2	RAF355G2
1/2"	21-23	M8x100	10x50	100 2	RAF355G3
3/4"	26.5-28	M8x100	10x50	80 2	RAF355G4
1"	33-35	M8x100	10x50	80 2	RAF355G5
1 1/4"	42-45	M8x100	10x50	60 2	RAF355G6
1 1/2"	48-50	M8x100	10x50	60 2	RAF355G7
2"	60-64	M8x100	10x50	40 2	RAF355G8
2 1/2"	71-80	M10x120	12x60	30 2	RAF355GA
3"	87-91	M10x120	12x60	30 2	RAF355GB
4"	108-116	M10x120	12x60	20 2	RAF355GC


ROBUST CLAMP "EXTRA"


Band with raised and rounded edges to protect the conduit surface. For industrial, agricultural and domestic applications.

Ø	mm.	BOLT		CODE
17	17-19	M5	1.000 100	RFS00017
20	20-22	M5	1.000 100	RFS00020
23	23-25	M5	500 100	RFS00023
25	25-27	M5	500 100	RFS00025
26	26-28	M5	500 100	RFS00026
29	29-31	M6	250 50	RFS00029
32	32-35	M6	250 50	RFS00032
36	36-39	M6	250 50	RFS00036
40	40-43	M6	250 50	RFS00040
44	44-47	M6	125 25	RFS00044
48	48-51	M6	125 25	RFS00048
52	52-55	M6	125 25	RFS00052
56	56-59	M6	100 20	RFS00056
60	60-63	M6	100 20	RFS00060
64	64-67	M8	100 20	RFS00064
68	68-73	M8	75 15	RFS00068
74	74-79	M8	75 15	RFS00074
80	80-85	M8	75 15	RFS00080
86	86-91	M8	50 10	RFS00086
92	92-97	M8	50 10	RFS00092
98	98-103	M8	50 -	RFS00098
104	104-112	M8	40 -	RFS00104
113	113-121	M8	25 -	RFS00113
122	122-130	M8	25 -	RFS00122
131	131-139	M10	25 -	RFS00131
140	140-148	M10	25 -	RFS00140
149	149-161	M10	20 -	RFS00149
162	162-174	M10	20 -	RFS00162
201	201-213	M10	14 -	RFS00201
214	214-226	M10	14 -	RFS00214
240	240-252	M10	12 -	RFS00240


M8 DRAIN PIPE CLAMP

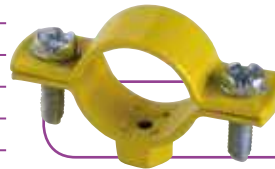
Drain-pipes and guttering.

Ø	mm.		CODE
75	75-80	200 20	RFDES075
90	82-90	100 20	RFDES090
110	106-112	100 20	RFDES110
125	124-130	75 15	RFDES125
160	159-165	64 32	RFDES160
200	199-212	50 25	RFDES200


SPRINKLER PIPE CLAMP

Suspending pipes, specially in fire fighting systems.

Ø	mm.	BOLT		CODE
35	1"	M8	200 100	RFP00035
40	1 1/4"	M8	100 50	RFP00040
48	1 1/2"	M8	100 50	RFP00048
60	2"	M8	80 40	RFP00060
75	2 1/2"	M10	60 30	RFP00075
90	3"	M10	40 20	RFP00090
115	4"	M10	20 10	RFP00115


M8/M10 YELLOW PIPE CLAMP "GAS"


The yellow colour is used to identify the conduit of gas.

Ø	mm.	INCHES	THREAD		CODE
22	20-25	1/2"	M8	500 100	RFRR0022
28	26-30	3/4"	M8	500 50	RFRR0028
35	32-36	1"	M8	250 50	RFRR0035
40	38-43	1 1/4"	M8	250 25	RFRR0040
48	47-51	1 1/2"	M8	250 25	RFRR0048
60	60-64	2"	M8	125 25	RFRR0060
75	75-80	2 1/2"	M10	100 20	RFRR0075
90	87-92	3"	M10	90 18	RFRR0090
115	113-118	4"	M10	30 15	RFRR0115


"U" BOLT


For M6 & M8 sizes, washers & nuts assembled. Zinc plated steel.

Ø Tubo	INCHES	THREAD		CODE
17,1	3/8"	M6	1200 200	RFAB0002
21,3	1/2"	M6	1200 200	RFAB0003
26,9	3/4"	M6	900 150	RFAB0004
33,7	1"	M6	750 125	RFAB0005
42,4	1 1/4"	M6	600 100	RFAB0006
48,3	1 1/2"	M8	300 50	RFAB0007
60,3	2"	M8	300 50	RFAB0008
76,1	2 1/2"	M8	150 25	RFAB000A
88,9	3"	M8	125 25	RFAB000B
101,6	3 1/2"	M10	120 20	RFAB000C
114,3	4"	M10	100 20	RFAB000D
139,7	5"	M10	100 20	RFAB000E
168,3	6"	M10	75 15	RFAB000F
219,1	8"	M10	50 10	RFAB000H
273,0	10"	M10	10 -	RFAB000J
323,9	12"	M14	10 -	RFAB000L
355,6	14"	M14	10 -	RFAB000N

SANITARY FIXINGS



**FIXING KIT FOR WASHBASIN
(2 pieces)**

Set of nylon plugs + double thread screws.

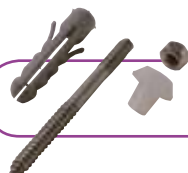
BOLT	PLUG			CODE
M8x110	10x50	150	15	RFFL0811
M10x120	12x60	150	15	RFFL1012



**FIX. KIT FOR WALL SANITARIES
(2 pieces)**

Set of nylon plugs + double thread screws.

BOLT	PLUG			CODE
M8x110	10x50	150	15	RFFP0811
M10x120	12x60	150	15	RFFP1012



**KIT FIX. FOR WC AND BIDET
(2 pieces)**

Set of nylon plugs + double thread screws.

	VIS	PLUG			CODE
INOX.	M5x75	8x40	250	25	RFFWIS75
LATON	M5x75	8x40	250	25	RFFWLS75



FIX. KIT FOR BOILERS (2 pieces)

Nylon plug + Hanger.

BOLT	PLUG			CODE
M8x65	10x50	250	25	RFFC0865
M10x75	12x60	250	25	RFFC1075

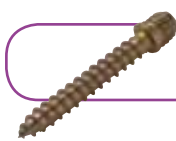
WideRS, PLUGS, SCREWS AND ACCESORIES



M8/M10 DOUBLE THREAD SCREW

M8 or M10 double thread screw.

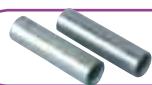
THREAD	mm.			CODE
M8	50	1.000	100	RFTD0850
M8	80	1.000	100	RFTD0880
M8	100	600	100	RFTD8100
M8	120	600	100	RFTD8120
M10	80	1.000	100	RFTD1080
M10	100	1.000	100	RFTD1010



M6/M8 SHOULDER SCREW

M6 or M8 shoulder screw.

THREAD	mm.			CODE
M6	30	2.000	100	RFTR0630
M6	40	2.000	100	RFTR0640
M6	50	2.000	100	RFTR0650
M8	40	2.000	100	RFTR0840
M8	60	2.000	100	RFTR0860



ROUND CONNECTING NUT

For extension or union of fixing systems.

THREAD	LENGTH			CODE
M6	20	1.500	150	RFMR0620
M6	30	1.500	150	RFMR0630
M8	20	1.000	100	RFMR0820
M8	30	1.000	100	RFMR0830
M10	30	500	50	RFMR1030



HEXAGONAL CONNECTING NUT

For extension or fixing systems.

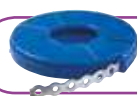
THREAD	LENGTH			CODE
M6	20	1.500	150	RFMH0620
M6	30	1.500	150	RFMH0630
M8	20	1.000	100	RFMH0820
M8	30	1.000	100	RFMH0830



FIXING PLUGS

With flights to avoid rotation during setting.

Ø		CODE
M6x30	100	RFTN0630
M8x40	100	RFTN0840
M10x50	50	RFTN1050
M12x60	25	RFTN1260



PERFORATED BANDING

Perfect for vertical PVC tables, parallel conduits and superficial installations.

mm.	LENGTH	CHAPA mm.		CODE
M6x30	10 m.	17 x 0.8	10	RFCP0017

HEATING

In the heating section, **ATUSA** continues to provide quality the market for aluminium radiators through distribution - representing the GLOBAL brand. This prestigious Italian company manufactures cast aluminum radiators applying a high standard quality that guarantees reliability and long life of its products. We also offer our customers towel rail (in different versions), as well as another series of products from the world of heating: plugs, brackets, trims, air vents, and all kinds of related accessories.

® GLOBAL 
RADIATORI



 **ATUSA**

HEATING

RADIATOR PLUGS



1" ZINC PLUG

SIZE		CODE	
1"	100	GZ5TCDC	
1"	100	GZ5TCIZQ	
1" x 1/8"	100	GZ5TR(D/I)A0	
1" x 1/4"	100	GZ5TR(D/I)A1	
1" x 3/8"	100	GZ5TR(D/I)A2	
1" x 1/2"	100	GZ5TR(D/I)A3	
1" x 3/4"	100	GZ5TR(D/I)A4	

(D) Right (I) Left



1" WHITE PLUG

SIZE		CODE	
1"	100 10	GA5TCDCW	
1"	100 10	GA5TCIZW	
1" x 1/8"	100 10	GA5TR(D/I)W0	
1" x 1/4"	100 10	GA5TR(D/I)W1	
1" x 3/8"	100 10	GA5TR(D/I)W2	
1" x 1/2"	100 10	GA5TR(D/I)W3	
1" x 3/4"	100 10	GA5TR(D/I)W4	

(D) Right (I) Left



1" ZINC PLUG WITH SILICONE GASKET

SIZE		CODE	
1"	100	GZ4TCDC	
1"	100	GZ4TCIZQ	
1" x 1/8"	100	GZ4TR(D/I)A0	
1" x 3/8"	100	GZ4TR(D/I)A2	
1" x 1/2"	100	GZ4TR(D/I)A3	

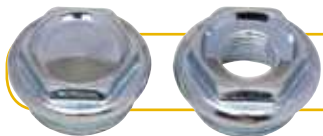
(D) Right (I) Left



1" WHITE PLUG WITH SILICONE GASKET

SIZE		CODE	
1"	100 10	GA4TCDCW	
1"	100 10	GA4TCIZW	
1" x 1/8"	100 10	GA4TR(D/I)W0	
1" x 3/8"	100 10	GA4TR(D/I)W2	
1" x 1/2"	100 10	GA4TR(D/I)W3	

(D) Right (I) Left



1" (Ø 47) ZINC PLUG FOR SHEET RADIATOR

SIZE		CODE	
1"	100	GZ5TC48D	
1"	100	GZ5TC48I	
1" x 1/8"	100	GZ548(D/I)A0	
1" x 1/4"	100	GZ548(D/I)A1	
1" x 3/8"	100	GZ548(D/I)A2	
1" x 1/2"	100	GZ548(D/I)A3	

(D) Right (I) Left



1 1/4" (Ø 47) ZINC PLUG FOR SHEET RADIATOR

SIZE		CODE	
1 1/4"	50	GZ6TCDC	
1 1/4"	50	GZ6TCIZQ	
1 1/4" x 3/8"	50	GZ6TR(D/I)A2	
1 1/4" x 1/2"	50	GZ6TR(D/I)A3	
1 1/4" x 3/4"	50	GZ6TR(D/I)A4	

(D) Right (I) Left



NYLON KEY FOR TEST INSTALLATION PLUGS

SIZE		CODE	
20-30mm.	10	RXXOMELL	

Note: The radiator plugs have cylindrical threads designed to make a mechanical union not watertight, therefore it is necessary to incorporate external sealing elements that provide guarantee of tightness.



UNIVERSAL 1" ZINC PLUGS KIT

SIZE	COMPOSITION	CODE	
1" x 1/2"	2 right reducers, 2 left reducers, 4 silicone gaskets, 1 blind plug with o-ring and 1 air vent valve.	GA50ZKIT	
1" x 3/8"		GA38ZKIT	



UNIVERSAL 1" WHITE PLUGS KIT

SIZE	COMPOSITION	CODE	
1" x 1/2"	2 right reducers, 2 left reducers, 4 silicone gaskets, 1 blind plug with o-ring and 1 air vent valve.	GA50WKIT	
1" x 3/8"		GA38WKIT	



UNIVERSAL 1" ZINC PLUGS KIT WITH AUTOMATIC AIR VENT VALVE - CHROMATED FLOAT

COMPOSITION	CODE	
Two 1" x 1/2" right reducers, one 1" left blind plug, three silicone gaskets and one 1" float air vent valve left.	GA50ZKPD	
Two 1" x 1/2" right reducers, one 1" left blind plug, three silicone gaskets and one 1" float air vent valve right.	GA50ZKPI	



UNIVERSAL 1" WHITE PLUGS KIT WITH AUTOMATIC AIR VENT VALVE - WHITE FLOAT

COMPOSITION	CODE	
Two 1" x 1/2" right reducers, one 1" left blind plug, three silicone gaskets and one 1" float air vent valve left.	GA50WKPD	
Two 1" x 1/2" right reducers, one 1" left blind plug, three silicone gaskets and one 1" float air vent valve right.	GA50WKPI	



UNIVERSAL 1" ZINC PLUGS WITH RADIATOR BRACKETS

SIZE	COMPOSITION	CODE	
1" x 1/2"	2 right reducers, 2 left reducers, 4 silicone gaskets, 1 blind plug with o-ring, 1 air vent valve and 2 radiator flat brackets (Ø 10 x 80 stud).	GA50ZKIS	
1" x 3/8"		GA38ZKIS	



UNIVERSAL 1" WHITE PLUGS WITH WHITE RADIATOR BRACKETS

SIZE	COMPOSITION	CODE	
1" x 1/2"	2 right reducers, 2 left reducers, 4 silicone gaskets, 1 blind plug with o-ring, 1 air vent valve and 2 radiator flat Brackets (Ø 10 x 80 stud).	GA50WKIS	
1" x 3/8"		GA38WKIS	

GASKETS FOR RADIATOR PLUGS



POLYESTER GASKET FOR 1" PLUG

SIZE	CODE	
5.000 100	GA7GUTIL	

(*) It is NOT recommended to use it in installations with ANTIFREEZE or other additives.



ECOLOGICAL PLUG GASKET WITHOUT ASBESTOS

SIZE	Ø	THICKNESS	SIZE	CODE	
1/2"	27	1,5 mm.	100	GA7GECO3 (1)	
1"	42	1,5 mm.	100	GA7GECO1	
1"	47	1,5 mm.	100	GA7GEC48	
1 1/4"	56	1,5 mm.	100	GA7GECO6	

(1) Available while stock last.

AIR VENTS



MANUAL AIR VENT VALVE

SIZE		CODE
1/8"	1.000 50	RXX19002



1" AUTOMATIC AIR VENT VALVE FLOAT



TYPE	FINISH		CODE
Derecha	Nickel plated	100 10	GA13PURD
Izquierda	Nickel plated	100 10	GA13PURI
Derecha	White	100 10	GA13PBLD
Izquierda	White	100 10	GA13PBLI



AUTOMATIC AIR VENT VALVE



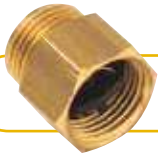
SIZE		CODE
3/8"	80 10	RX970002
1/2"	80 10	RX970003



AUTOMATIC AIR VENT VALVE "MINI"



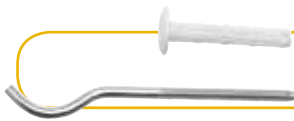
SIZE		CODE
3/8"	80 10	RX970B02
1/2"	80 10	RX970B03



CHECK VALVE FOR AIR VENT VALVE

SIZE		CODE
H3/8" - M3/8"	100	RX971002
H1/2" - M1/2"	100	RX971003

RADIATOR BRACKETS



TELESCOPIC ZINC BRACKETS KIT WITH STUD

	CODE
50 bags of 2 units	RXX94201



FLAT TELESCOPIC ZINC BRACKETS KIT WITH STUD

	CODE
50 bags of 2 units	RXX942MS



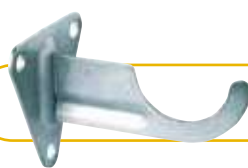
FLAT TELESCOPIC WHITE BRACKETS KIT WITH STUD

	LENGTH mm.	CODE
50 bags of 2 units	170 mm.	RXX942MB
50 bags of 2 units	195 mm.	RXX94LMB



1" ADJUSTABLE BRACKETS KIT

	CODE	
50	GA5SORE2	



1" FIXED WALL BRACKET

	CODE	
50	GA5SOFIJ	



RIGHT BRACKET

	CODE	
100	GA1SOEMP	



REVERSIBLE BRACKET

95mm. Total Length
(75mm. half curve)
2mm. Thickness.

FINISH		CODE	
Laminated White	100	GA3SOBRE	



NYLON BRACKET WITH ONE PIN

	CODE	
500	GA3STERM	



NYLON BRACKET 3 PINS

	CODE	
500	GA3STER3	



"ANTI-NOISE" NYLON BRACKET WITH ONE PIN

	CODE	
500	GA3SUTIL	



UNIVERSAL MODEL NYLON BRACKET 3 PINS

UNIVERSAL MODEL FOR ALL TYPES OF RADIATORS

	CODE	
500	GA3SUNI3	



UNIVERSAL ADJUSTABLE WHITE BRACKETS KIT



	CODE	
100 1	GA27SREG	



WHITE GROUND BRACKET



FINISH		CODE	
White	2	GA15DOBL	

OTHER ACCESSORIES



RADIATOR FERRULE

SIZE		CODE	
1"	100	GA9CASQ1	
1 1/4"	50	GA9CASQ6	



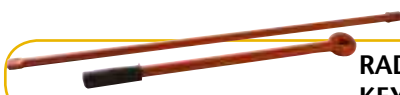
UNIVERSAL TRIM

SIZE		CODE	
10 - 25 mm.	1.000 100	RAFU1025	



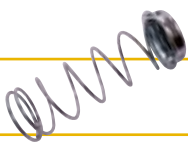
DOUBLE UNIVERSAL TRIM

SIZE		CODE	
35 mm. - entre ejes	500 25	RAFUDOBL	



RADIATORS ASSEMBLY KEY

	CODE	
1	GA13LLAV	




OSCAR AND EKOS PLUS MODEL RADIATORS DIAPHRAGM

	CODE	
1	GOSDIAFR	




**ECOLOGICAL BUSHING GASKET
WITHOUT ASBESTOS - TICKNESS 1 mm.**

SIZE		CODE
1" (Ø 42)	100	GA8GCEC5
1" (Ø 48)	100	GA8GCE48
1 1/4" (Ø 56)	100	GA8GCEC6



PLASTIC TRIM

SIZE		CODE
10 - 22 mm.	3.000 100	RAFUTIL



WHITE SPRAY

	CODE
12	GA1BLACA



**OSCAR AND EKOS PLUS RADIATOR
MODEL FERRULE (30 MM.)**

	CODE
50	GOSNIPLE



**O-RING GASKET FOR PLUG AND
BUSHING - OSCAR, JUNIOR AND EKOS
PLUS RADIATOR MODEL**

	CODE
10	GOSGUARN

COMPANY CERTIFICATES

ATUSA, looking for a continuous activity improvement, has for several years now a Quality Control System which conforms to the ISO 9001 international standard for the production of malleable cast iron pieces as well as traded goods.

In the same vein, the products which **ATUSA** distributes to very demanding markets, are of great prestige and hold the necessary product certificates to show conformance with applicable standards, among which can be found those of international prestige such as:

- AENOR (España)
- VdS y DVGW (Alemania)
- SVGW (Suiza)
- CERTIF (Portugal)
- INIG (Polonia)
- FM y UL (USA)
- ULC (Canadá)
- ÜA (Austria)

All the products dealt by **ATUSA** are insured in accordance with the 85/374/CEE Directive which regulates civil responsibility for the damage caused by a faulty product.

In some cases and by prior agreement with the customers, **ATUSA** supplies product certificates 2.1 and 3.1 according to the EN standard.

