



 **ATUSA**

**CATALOGUE** 2024

1/2

## 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.

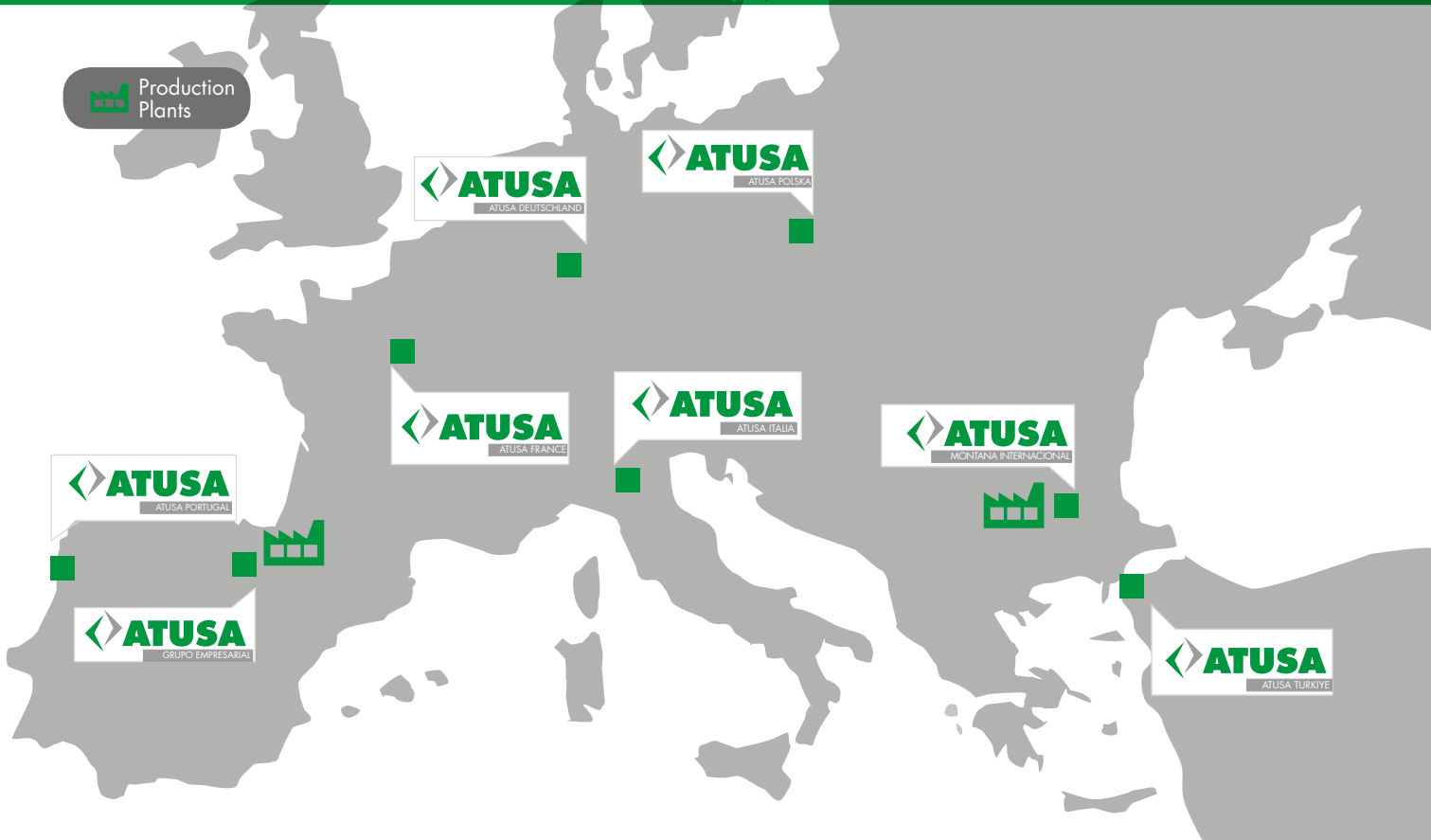
Through constant evolution, new products have been incorporated among which the development and manufacturing of products upon design stands out.

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 five logistic warehouses, one of which is in the central headquarters, another in the production plant of Montana and the other 3 in its subsidiaries:

- Ratingen (Germany) **ATUSA DEUTSCHLAND**
- Milan (Italy) **ATUSA ITALIA**
- Maia (Portugal) **ATUSA PORTUGAL**

Additionally, the Company also have three Commercial Offices in:

- Radom (Poland) **ATUSA POLSKA**
- 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.







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## 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.







# 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/m<sup>2</sup>, 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

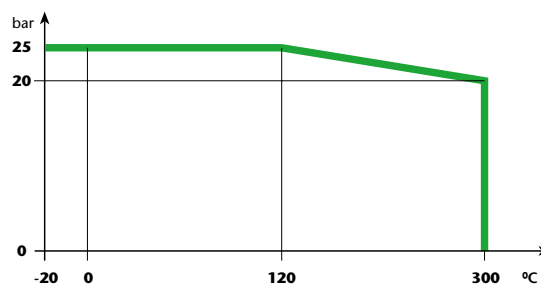
Technical aspects, design and other characteristics of the fittings are subject to possible modifications due to technical improvements or changes of standardization.

## 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



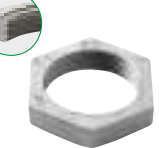


## PRESSURE / TEMPERATURE RATINGS

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



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



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



## 1 LONG SWEEP BEND M/F

ISO/EN **G4**



Ø			BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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	02A0100C	02A0500C



## 3 LONG SWEEP BEND M/M

ISO/EN **G8**



Ø			BLACK CODE	GALVANIZED 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	0300100A	0300500A



## 40 45° LONG SWEEP BEND M/F

ISO/EN **G4/45°**



Ø			BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED CODE
1/2"	90	1	06001003	06005003
3/4"	90	1	06001004	06005004
1"	20	1	06001005	06005005
1 1/4"	15	1	06001006	06005006
1 1/2"	10	1	06001007	06005007
2"	6	1		06005008



**85** CROSSOVER



Ø	Box		BLACK CODE	GALVANIZED 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



**90** 90° ELBOW F/F

ISO/EN **A1**



Ø	Box		BLACK CODE	GALVANIZED 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

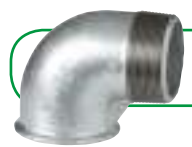


**90R** 90° REDUCING ELBOW F/F

ISO/EN **A1**



Ø	Box		BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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**



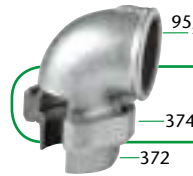
Ø	Box		BLACK CODE	GALVANIZED CODE
1/2" x 3/8"	150	10	09201032	09205032
3/4" x 1/2	90	10	09201043	09205043
1" x 3/4"	60	10	09201054	09205054
1 1/4" x 1"	30	1	09201065	09205065
1 1/2" x 1"	20	1	09201075	09205075
1 1/2" x 1 1/4"	20	1	09201076	09205076
3/8" x 1/2"	150	10	09201023	09205023
1/2" x 3/4"	90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

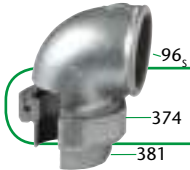


## 95 UNION ELBOW, FLAT SEAT

ISO/EN **UA1**



Ø	Box		BLACK CODE	GALVANIZED 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

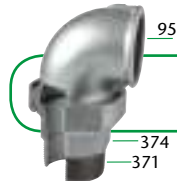


## 96 UNION ELBOW, TAPER SEAT

ISO/EN **UA11**



Ø	Box		BLACK CODE	GALVANIZED 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

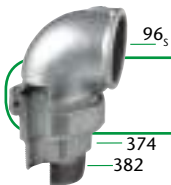


## 97 UNION ELBOW, FLAT SEAT

ISO/EN **UA2**



Ø	Box		BLACK CODE	GALVANIZED 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	Box		BLACK CODE	GALVANIZED 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	Box		BLACK CODE	GALVANIZED 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	Box		BLACK CODE	GALVANIZED 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



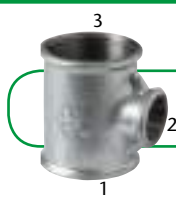
## 130 TEE

ISO/EN **B1**



Ø	Box		BLACK CODE	GALVANIZED 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





# 130R 90° REDUCING TEE



ISO/EN B1

Ø		BLACK CODE	GALVANIZED 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
1 1/2"-3/4"-1 1/2"	22 1	13001747	13005747

Ø		BLACK CODE	GALVANIZED CODE
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"-1/2"-4"	2 1	13001C3C	
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**



## 132 TWIN ELBOW

ISO/EN **E2**



Ø			BLACK CODE	GALVANIZED 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	13101009	13105009
3"	2	1	1310100A	1310500A
4"	2	1	1310100C	1310500C

Ø			BLACK CODE	GALVANIZED 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



## 134 TEE



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

Ø			BLACK CODE	GALVANIZED 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



## 165 45° TEE



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

Ø			BLACK CODE	GALVANIZED 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**



## 220 "Y" PIECE



Ø			BLACK CODE	GALVANIZED 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

Ø			BLACK CODE	GALVANIZED 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**



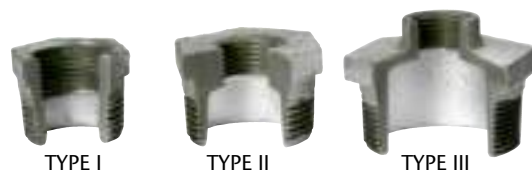
Ø		BLACK CODE	GALVANIZED CODE
3/8"	120 10	22101002	22105002
1/2"	80 10	22101003	22105003
3/4"	50 10	22101004	22105004
1"	40 10	22101005	22105005
1 1/4"	20 1	22101006	22105006
1 1/2"	13 1	22101007	22105007
2"	8 1	22101008	22105008

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



## 240 REDUCING SOCKET

ISO/EN **M2**



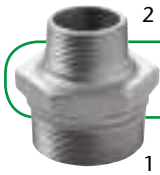
## 241 REDUCING BUSH

ISO/EN **N4**



Ø		BLACK CODE	GALVANIZED 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

Ø	TYPE		BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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		BLACK CODE	GALVANIZED 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		BLACK CODE	GALVANIZED 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		BLACK CODE	GALVANIZED 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		BLACK CODE	GALVANIZED 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		BLACK CODE	GALVANIZED 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



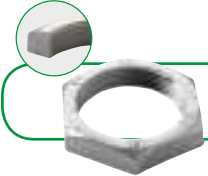
**300** CAP



ISO/EN T1


Ø		BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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 CODE	GALVANIZED 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




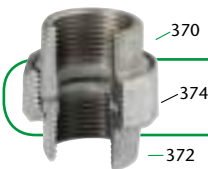
Ø		BLACK CODE	GALVANIZED CODE
1/2"	140 1	32001003	32005003
3/4"	110 1	32001004	32005004
1"	70 1	32001005	32005005
1 1/4"	50 1	32001006	32005006
1 1/2"	35 1	32001007	32005007
2"	30 1	32001008	32005008
2 1/2"	15 1	32001009	32005009
3"	10 1	3200100A	3200500A
4"	6 1	3200100C	3200500C



## 321 CIRCULAR FLANGE





Ø		BLACK CODE	GALVANIZED 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



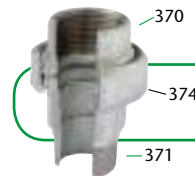
## 330 FLAT SEAT UNION F/F

ISO/EN U1




Ø		BLACK CODE	GALVANIZED CODE
1/2"	80 10	33001003	33005003
3/4"	50 10	33001004	33005004
1"	30 10	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


Supplied without gasket. See Page 20



## 331 FLAT SEAT UNION M/F

ISO/EN U2



Ø		BLACK CODE	GALVANIZED 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

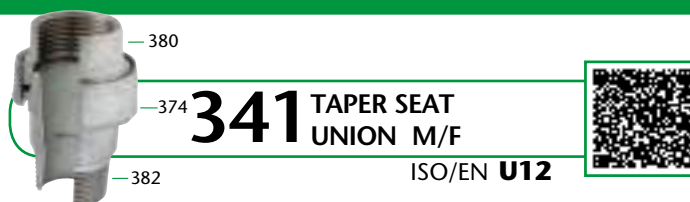
Supplied without gasket. See Page 20



**340** TAPER SEAT UNION F/F

ISO/EN **U11**

Ø		BLACK CODE	GALVANIZED 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 10	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



**341** TAPER SEAT UNION M/F

ISO/EN **U12**

Ø		BLACK CODE	GALVANIZED 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



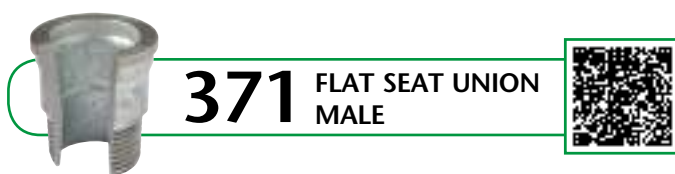
**344** TAPER SEAT UNION M/M

Ø		BLACK CODE	GALVANIZED 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



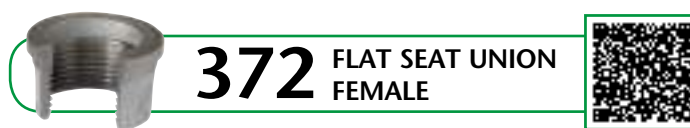
**370** FLAT SEAT UNION BUSH F/M

Ø		BLACK CODE	GALVANIZED 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

Ø		BLACK CODE	GALVANIZED 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



**372** FLAT SEAT UNION FEMALE

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



## 526 EXTENSION TUBE



Ø		BLACK CODE	GALVANIZED 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	2605403
40 x 3/4"	120 10	52601404	52605404
50 x 1/2"	120 10	52601503	52605503



## 529 EXTENSION TUBE

ISO/EN M4



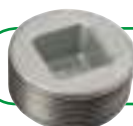
Ø		BLACK CODE	GALVANIZED CODE
3/8"	300 10	52901002	52905002
1/2"	200 10	52901003	52905003
3/4"	120 10	52901004	52905004
1"	60 10	52901005	52905005
1 1/4"	40 1	52901006	52905006
1 1/2"	35 1	52901007	52905007
2"	20 1	52901008	52905008



## 531 INTERNAL NIPPLE



Ø		BLACK CODE	GALVANIZED 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 CODE	GALVANIZED 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	

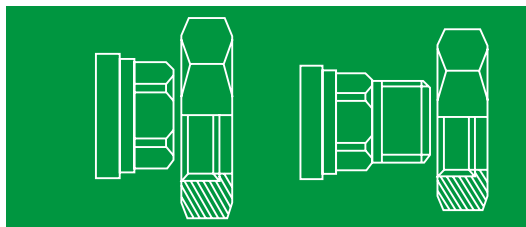
### GASKET FOR FLAT SEAT UNION



Gasket suitable for gas, water, oil and hydrocarbons. Optimal quality in ratio (0-50Bar) - T<sup>a</sup> (0 - 220° C). Drinkable water (TZW) and gas (DVGW - VP 401 and DVGW DIN 3535-6) certified.

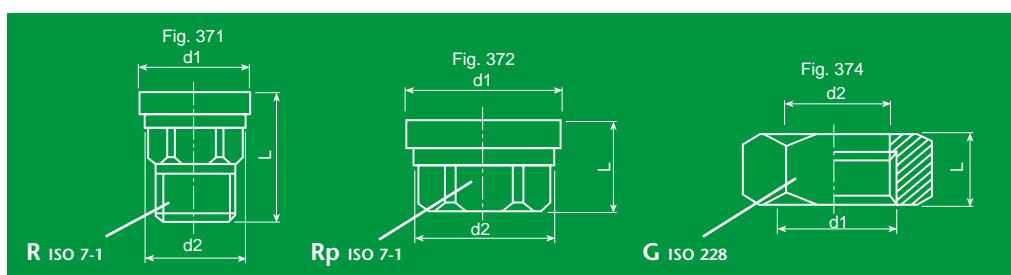
Ø	Ø Int. mm.	Ø Ext. mm.	THICKNESS	CODE
1/2"	24	34	2	90000003
3/4"	27	38	2	90000004
1"	32	44	2	90000005
1 1/4"	42	55	2	90000006
1 1/2"	46	62	2	90000007
2"	60	78	2	90000008
2 1/2"	75	96	3	90000009
3"	88	109	3	9000000A
4"	113	134	3	9000000C





## 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.



3/4" (372 Reduced)  
KIT  
**C4201047**

FIG	mm.				(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.				(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.				(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.				(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.				(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.				(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)  
G<sub>374</sub> = 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
<b>FIG.</b>					
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
<b>FIG.</b>	
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
<b>FIG.</b>	
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 Fig. 40, 41 Fig. 90, 130, 270, 280 Fig. 130R Fig. 241
	3", 4" 4" 5", 6" 5" x 4" x 5" 5" x 4" 6" x 4" 6" x 5"

### PACKING

In plastic bags with 10 pieces.

Steel fittings.

The normal 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



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


**ASSEMBLY INSTRUCTIONS**






## 740 FEMALE STRAIGHT THREAD



Ø			CODE
3/8"	75	5	740A5002
1/2"	60	5	740A5003
3/4"	30	5	740A5004
1"	20	4	740A5005
1 1/4"	16	4	740A5006
1 1/2"	12	3	740A5007
2"	6	2	740A5008
2 1/2"	6	2	740A5009
* 3"	2	1	740A500A
* 4"	1		740A500C


## 746 MALE STRAIGHT THREAD



Ø			CODE
3/8"	75	5	746A5002
1/2"	55	5	746A5003
3/4"	30	5	746A5004
1"	20	4	746A5005
1 1/4"	16	4	746A5006
1 1/2"	12	3	746A5007
2"	6	2	746A5008
2 1/2"	6	2	746A5009
* 3"	2	1	746A500A
* 4"	1		746A500C

## 770 DOUBLE STRAIGHT




Ø			CODE
1/2"	50	5	770A5003
3/4"	25	5	770A5004
1"	16	4	770A5005
1 1/4"	12	3	770A5006
1 1/2"	9	3	770A5007
2"	6	2	770A5008
2 1/2"	4	2	770A5009
* 3"	2	1	770A500A
* 4"	1		770A500C

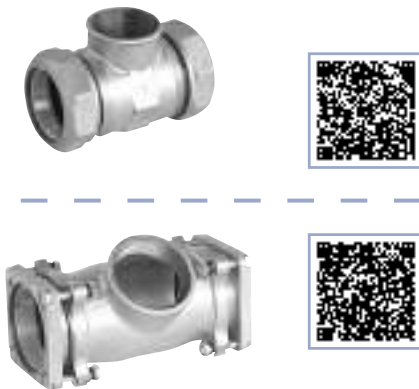
\* Flanged


**790** DOUBLE ELBOW



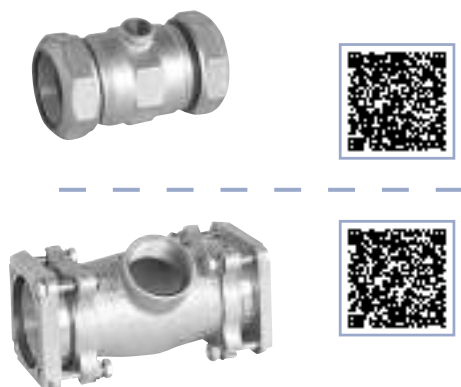
Ø			CODE
1/2"	40	1	790A5003
3/4"	20	1	790A5004
1"	15	1	790A5005
1 1/4"	10	1	790A5006
1 1/2"	6	1	790A5007
2"	4	1	790A5008
* 2 1/2"	2	1	790A5009
* 3"	2	1	790A500A


**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.)**

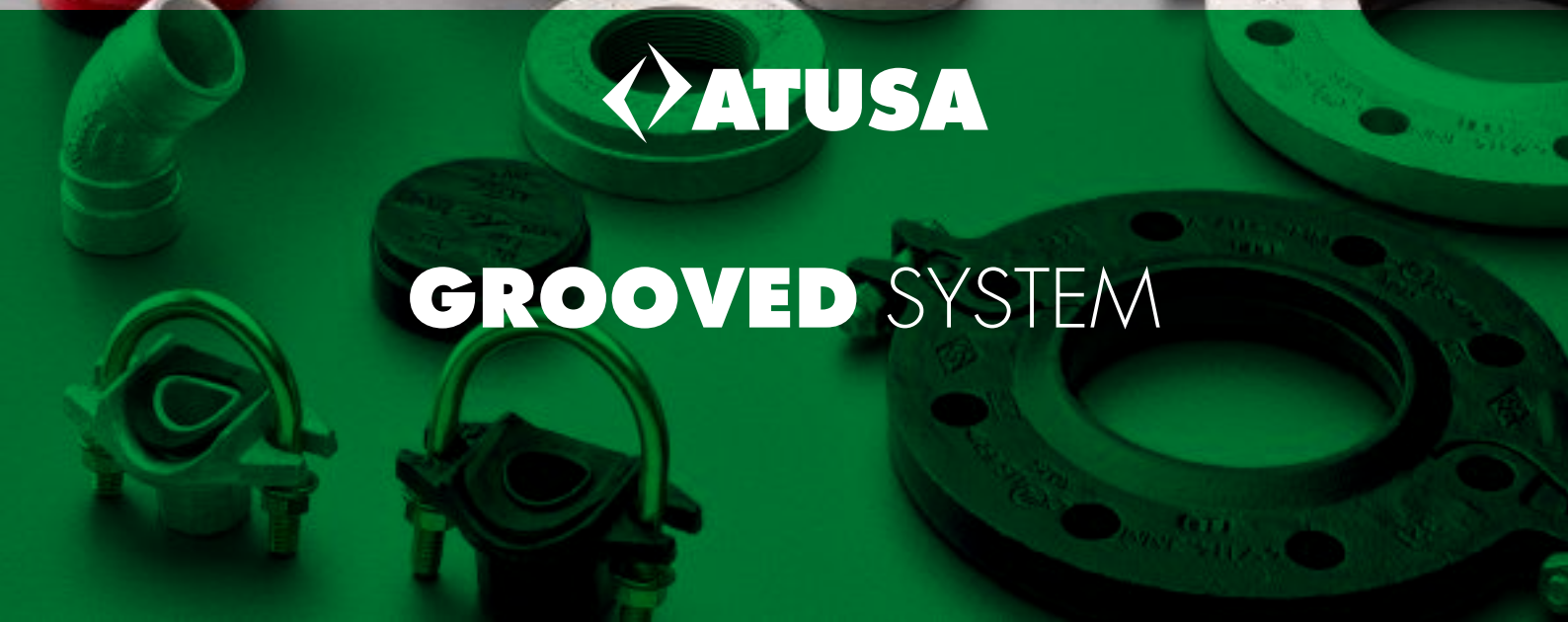
**EPDM Rubber Approval**

GROOVED  
SYSTEM



 **ATUSA**

**GROOVED** SYSTEM



## RN RIGID COUPLING



Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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

## RS RIGID COUPLING "S"



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

## DS1 THREADED MECHANICAL TEE



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



## DS2 GROOVED MECHANICAL TEE



Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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

## DA1 BRANCH OUTLET (U-BOLTED)



Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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

GROOVED SYSTEM


# 130S "S" STANDARD TEE



Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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 (RAL 3000) CODE	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"	168,3x76,1	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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 (RAL 3000) CODE	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




Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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" PN 10	219,1	200	1	6321120M	6321150M
10" PN 10	273,0	250	1	6321120N	6321150N
12" PN 10	323,9	300	1	6321120Q	6321150Q

PN 10



## 322 HINGED ADAPTOR FLANGE



Ø	Ø EXT. mm.	DN		RED (RAL 3000) CODE	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 RESILIENTGATE VALVE (HANDWHEEL, NRS)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V600208
2 1/2"	76,1	65	6V60020B
3"	88,9	80	6V60020A
4"	114,3	100	6V60020C
5"	139,7	125	6V60020H
6"	168,3	150	6V60020E
8"	219,1	200	6V60020M



# 660

## FLANGED RESILIENT GATE VALVE (HANDWHEEL, NRS)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V660208
2 1/2"	76,1	65	6V66020B
3"	88,9	80	6V66020A
4"	114,3	100	6V66020C
5"	139,7	125	6V66020H
6"	168,3	150	6V66020E
8"	219,1	200	6V66020M
10"	273,0	250	6V66020N
12"	329,9	300	6V66020Q



(Ref. 6VSWITC1), see page 44.

\* Possibility of incorporating an opening control electronic device.

# 610

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



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V610208
2 1/2"	76,1	65	6V61020B
3"	88,9	80	6V61020A
4"	114,3	100	6V61020C
5"	139,7	125	6V61020H
6"	168,3	150	6V61020E
8"	219,1	200	6V61020M



(Ref. 6VSWITC2), see page 44.

\* Possibility of incorporating an opening control electronic device.

# 670

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



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V670208
2 1/2"	76,1	65	6V67020B
3"	88,9	80	6V67020A
4"	114,3	100	6V67020C
5"	139,7	125	6V67020H
6"	168,3	150	6V67020E
8"	219,1	200	6V67020M
10"	273,0	250	6V67020N
12"	329,9	300	6V67020Q



(Ref. 6VSWITC2), see page 44.

\* Possibility of incorporating an opening control electronic device.

# 620

## GROOVED RESILIENT CENTERLINE BUTTERFLY VALVE (LEVER)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V620208
2 1/2"	76,1	65	6V62020B
3"	88,9	80	6V62020A
4"	114,3	100	6V62020C
5"	139,7	125	6V62020H
6"	168,3	150	6V62020E
8"	219,1	200	6V62020M

# 630

## GROOVED RESILIENT CENTERLINE BUTTERFLY VALVE (HANDWHEEL)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V630208
2 1/2"	76,1	65	6V63020B
3"	88,9	80	6V63020A
4"	114,3	100	6V63020C
5"	139,7	125	6V63020H
6"	168,3	150	6V63020E
8"	219,1	200	6V63020M
10"	273,0	250	6V63020N





# VOL HANDWHEEL (SPARE)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2" - 2 1/2" - 3"	60,3 - 76,1 - 88,9	50 - 65 - 80	6VVOL8BA
4"	114,3	100	6VVOL00C
5" - 6"	139,7 - 168,3	125 - 150	6VVOLHKE
8"	219,1	200	6VVOL00M
10"	273,0	250	6VVOL00N

# 635 GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V635208
2 1/2"	76,1	65	6V63520B
3"	88,9	80	6V63520A
4"	114,3	100	6V63520C
5"	139,7	125	6V63520H
6"	168,3	150	6V63520E
8"	219,1	200	6V63520M
10"	273,0	250	6V63520N



# 636 GROOVED WAFER BUTTERFLY VALVE (HANDWHEEL)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V636208
2 1/2"	76,1	65	6V63620B
3"	88,9	80	6V63620A
4"	114,3	100	6V63620C
5"	139,7	125	6V63620H
6"	168,3	150	6V63620E
8"	219,1	200	6V63620M
10"	273,0	250	6V63620N
12"	323,9	300	6V63620Q



# 637

## BUTTERFLY VALVE WITH TAMPER SWITCH (HANDWHEEL)



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V637208
2 1/2"	76,1	65	6V63720B
3"	88,9	80	6V63720A
4"	114,3	100	6V63720C
5"	139,7	125	6V63720H
6"	168,3	150	6V63720E
8"	219,1	200	6V63720M
10"	273,0	250	6V63720N
12"	323,9	300	6V63720Q



# 640

## GROOVED RESILIENT SWING CHECK VALVE



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



# 645

## FLANGED RESILIENT SWING CHECK VALVE



STEEL TUBE			CODE
Ø	Ø D mm.	DN	
2"	60,3	50	6V645208
2 1/2"	76,1	65	6V64520B
3"	88,9	80	6V64520A
4"	114,3	100	6V64520C
5"	139,7	125	6V64520H
6"	168,3	150	6V64520E
8"	219,1	200	6V64520M
10"	273,0	250	6V64520N
12"	329,9	300	6V64520Q



# 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 63



## 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.

### 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 MxF (M33/DN25 x 1/2" NPT) 85 mm.	128	1
LFCR3115	REDUCED ELBOW MxF (M33/DN25 x 1/2" NPT) 115 mm.	96	1
LFCR0485	REDUCED ELBOW MxF (M33/DN25 x 3/4" NPT) 85 mm.	128	1
LFCR4115	REDUCED ELBOW MxF (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** has become a well known supplier on steel fittings.

We understand that iron and steel are similar products and, hence, both must be worked. We are currently on the steel market with an increasing range of products.

CARBON STEEL  
FITTINGS



**ATUSA**

**CARBON STEEL** FITTINGS



**CARBON STEEL BUTT-WELDING PIPE FITTINGS - EN STANDARD**
**3D ELBOW EN 10253-1 - STEEL S235**

DIMENSION		45°	90°	90° GALVA.	90° WELDED	180°
Ø	Ø EXT. x THICKNESS mm.	CODE	CODE	CODE	CODE	CODE
1/2"	21,3 x 2,0	C3450021	C3XXXX21	C3GXX21		C3180021
3/4"	26,9 x 2,3	C3450027	C3XXXX27	C3GXX27	C3HXX27	C3180027
1"	33,7 x 2,6	C3450033	C3XXXX33	C3GXX33	C3HXX33	C3180033
	38,0 x 2,6		C3XXXX38			
1 1/4"	42,4 x 2,6	C3450042	C3XXXX42	C3GXX42	C3HXX42	C3180042
	44,5 x 2,6		C3XXXX44			
1 1/2"	48,3 x 2,6	C3450048	C3XXXX48	C3GXX48	C3HXX48	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	C3GXX60	C3HXX60	C3180060
	70,0 x 2,9		C3XXXX70	C3GXX70		
2 1/2"	76,1 x 2,9	C3450076	C3XXXX76	C3GXX76	C3HXX76	C3180076
3"	88,9 x 3,2	C3450089	C3XXXX89	C3GXX89	C3HXX89	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"	* 457,2 x 9,53		C3XXX457			
20"	* 508,0 x 9,53		C3XXX508			
24"	* 609,6 x 9,53		C3XXX609			



\* Not according to EN 10253 Standard

## 5D ELBOW EN 10253-1 - STEEL S235

DIMENSION		45°	90°	90° GALVA.	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		



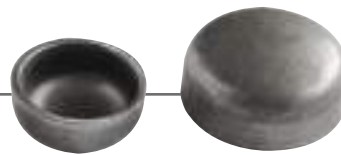




## TEE EN 10253-1 - STEEL S235

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	CTDXXX101

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



## 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

\* Not according to EN 10253 Standard



FORM 1

FORM 2



**CONCENTRIC REDUCER EN 10253-1 - STEEL S235**

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	CRFX3327**
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	CRFX4227**
1 1/4" x 1"	42,4 x 33,7	2,6 - 2,6	CRFX4233**
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	CRFX4827**
1 1/2" x 1"	48,3 x 33,7	2,6 - 2,6	CRFX4833**
1 1/2" x 1 1/4"	48,3 x 42,4	2,6 - 2,6	CRFX4842**
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	CRFX6033**
2" x 1 1/4"	60,3 x 42,4	2,9 - 2,6	CRFX6042**
2" x 1 1/2"	60,3 x 48,3	2,9 - 2,6	CRFX6048**
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	CRFX7642**
2 1/2" x 1 1/2"	76,1 x 48,3	2,9 - 2,6	CRFX7648**
2 1/2" x 2"	76,1 x 60,3	2,9 - 2,9	CRFX7660**
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	CRFX8948**
3" x 2"	88,9 x 60,3	3,2 - 2,9	CRFX8960**
3" x 2 1/2"	88,9 x 76,1	3,2 - 2,9	CRFX8976**
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	CRF10176**
3 1/2" x 3"	* 101,6 x 88,9	3,6 - 3,2	CRF10189**
	* 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	CRF11460**
4" x 2 1/2"	114,3 x 76,1	3,6 - 2,9	CRF11476**
4" x 3"	114,3 x 88,9	3,6 - 3,2	CRF11489**
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 Standard

\*\* FORM 1 (Also available in FORM 2)

**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°
Ø	Ø EXT. mm.	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		CSTL9014	CSTL4514		CSTS9014	CXSL9014	CXSL4514	CXSS9014
16"	406,4		CSTL9016	CSTL4516		CSTS9016	CXSL9016	CXSL4516	CXSS9016
18"	457,0		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		





## ELBOW ASTM A-420 WPL6 ASME B 16.9



DIMENSION		STD - LONG RAYON
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

## CAP 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

## 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
<b>NEW</b> 3/4" x 1/2"	26,7 x 21,3	CR460T0M
<b>NEW</b> 1" x 1/2"	33,4 x 21,3	CR46010M
1" x 3/4"	33,4 x 26,7	CR46010T
<b>NEW</b> 1 1/4" x 1/2"	42,2 x 21,3	CR461C0M
<b>NEW</b> 1 1/4" x 3/4"	42,2 x 26,7	CR461C0T
1 1/4" x 1"	42,2 x 33,4	CR461C01
<b>NEW</b> 1 1/2" x 1/2"	48,3 x 21,3	CR461M0M
<b>NEW</b> 1 1/2" x 3/4"	48,3 x 26,7	CR461M0T
<b>NEW</b> 1 1/2" x 1"	48,3 x 33,4	CR461M01
1 1/2" x 1 1/4"	48,3 x 42,2	CR461M1C
<b>NEW</b> 2" x 1/2"	60,3 x 21,3	CR46020M
<b>NEW</b> 2" x 3/4"	60,3 x 26,7	CR46020T
2" x 1"	60,3 x 33,4	CR460201
<b>NEW</b> 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

# STEEL FLANGES

## FORGED FLANGE ACCORDING TO 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"	26,9	FN150020	FN300020	FO150020	FO300020
25	1"	33,7	FN150025	FN300025	FO150025	FO300025
32	1 1/4"	42,4	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"	76,2	FN150065	FN300065	FO150065	FO300065
80	3"	88,9	FN150080	FN300080	FO150080	FO300080
100	4"	114,3	FN150100	FN300100	FO150100	FO300100
125	5"	139,7	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"	323,9	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"	26,9	FB150020	FB300020	FW150020	FNX15020
25	1"	33,7	FB150025	FB300025	FW150025	FNX15025
32	1 1/4"	42,4	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"	76,2	FB150065	FB300065		FNX15065
80	3"	88,9	FB150080	FB300080		FNX15080
100	4"	114,3	FB150100	FB300100		FNX15100
125	5"	139,7	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"	323,9	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		
						



## FLAT FLANGE ACCORDING TO EN 1092-1 01 STANDARD

DIMENSION			PN 6	PN 10		PN 16		PN 25	PN 40
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	FC010015		FC014015		FC014015	FC014015	FC014015
20	3/4"	26,9	FC010020		FC014020		FC014020	FC014020	FC014020
25	1"	33,7	FC010025		FC014025		FC014025	FC014025	FC014025
32	1 1/4"	42,4	FC010032		FC014032		FC014032	FC014032	FC014032
40	1 1/2"	48,3	FC010040		FC014040		FC014040	FC014040	FC014040
50	2"	60,3	FC010050		FC016050		FC016050	FC016050	FC016050
65	2 1/2"	76,1			F2576065		F2576065		
	2 1/2"	76,1	FC010065		FC016065		FC016065	FC014065	FC014065
80	3"	88,9	FC010080	F2576080	FC016080		FC016080	FC014080	FC014080
90	3 1/2"	101,6		F2576101					
100	4"	108,0		F2576108					
	4"	114,3	FC010100		FC016100		FC016100	FC014100	FC014100
125	5"	133,0		F2576133					
	5"	139,7	FC010125		FC016125		FC016125	FC014125	FC014125
150	6"	159,0		F2576159					
	6"	168,3	FC010150		FC016150		FC016150	FC014150	FC014150
175	7"	193,7		F2576175					
200	8"	219,1	FC010200		FC011200	F2502200*	FC016200	FC012200	FC014200
250	10"	273,0	FC010250		FC011250		FC016250	FC012250	FC014250
300	12"	323,9	FC010300		FC011300	F2502300*	FC016300	FC012300	FC014300
350	14"	355,6	FC010350		FC011350		FC016350	FC012350	FC014350
400	16"	406,4	FC010400		FC011400		FC016400	FC012400	FC014400
450	18"	457,0	FC010450		FC011450	F2502450*	FC016450		
500	20"	508,0	FC010500		FC011500		FC016500	FC012500	FC014500
600	24"	610,0			FC011600		FC016600		
	24"	610,0			F2576600		F2502600		
700	28"	711,0			F2576700		F2502700		
800	32"	813,0			F2576800		F2502800		
900	36"	914,0			F2576900		F2502900		
1000	40"	1.016,0			F2576999		F2502999		

\*Not standardized flanges

4 Holes

According to DIN 2576

According to DIN 2502

\* Available while stock lasts



**BLIND FLANGE ACCORDING TO EN 1092-1 05 STANDARD**

DIMENSION			PN 6	PN 10	PN 16	PN 25	PN 40
DN	"	mm.	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	FC050015	FC054015	FC054015	FC054015	FC054015
20	3/4"	26,9	FC050020	FC054020	FC054020	FC054020	FC054020
25	1"	33,7	FC050025	FC054025	FC054025	FC054025	FC054025
32	1 1/4"	42,4	FC050032	FC054032	FC054032	FC054032	FC054032
40	1 1/2"	48,3	FC050040	FC054040	FC054040	FC054040	FC054040
50	2"	60,3	FC050050	FC056050	FC056050	FC054050	FC054050
65	2 1/2"	76,1		F2527065	F2527065		
	2 1/2"	76,1	FC050065	FC056065	FC056065	FC054065	FC054065
80	3"	88,9	FC050080	FC056080	FC056080	FC054080	FC054080
100	4"	114,3	FC050100	FC056100	FC056100	FC054100	FC054100
125	5"	139,7	FC050125	FC056125	FC056125	FC054125	FC054125
150	6"	168,3	FC050150	FC056150	FC056150	FC054150	FC054150
200	8"	219,1	FC050200	FC051200	FC056200	FC052200	FC054200
250	10"	273,0	FC050250	FC051250	FC056250	FC052250	FC054250
300	12"	323,9	FC050300	FC051300	FC056300	FC052300	FC054300
350	14"	355,6		FC051350	FC056350	FC052350	FC054350
400	16"	406,4		FC051400	FC056400	FC052400	FC054400
450	18"	457,0		FC051450	FC056450		
500	20"	508,0		FC051500	FC056500	FC052500	FC054500
600	24"	610,0		FC051600	FC056600		
	24"	610,0		F5271600	F2527600		
700	28"	711,0		F5271700	F2527700		
800	32"	813,0		F5271800	F2527800		
900	36"	914,0		F5271900	F2527900		
1000	40"	1.016,0		F5271999	F2527999		

Not standardized flanges     4 Holes



Articles according to DIN 2527





## NECK FLANGE ACCORDING TO EN 1092-1 11 STANDARD

DIMENSION			PN 6	PN 10		PN 16		PN 25		PN 40	
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	F2631015	F2633015	FC114015	F2633015	FC114015	F2635015	FC114015	F2635015	FC114015
20	3/4"	26,9	F2631020	F2633020	FC114020	F2633020	FC114020	F2635020	FC114020	F2635020	FC114020
25	1"	33,7	F2631025	F2633025	FC114025	F2633025	FC114025	F2635025	FC114025	F2635025	FC114025
32	1 1/4"	42,4	F2631032	F2633032	FC114032	F2633032	FC114032	F2635032	FC114032	F2635032	FC114032
40	1 1/2"	48,3	F2631040	F2633040	FC114040	F2633040	FC114040	F2635040	FC114040	F2635040	FC114040
50	2"	60,3	F2631050	F2633050	FC116050	F2633050	FC116050	F2635050	FC114050	F2635050	FC114050
65	2 1/2"	76,1	F2631065	F2633065	FC116065	F2633065	FC116065	F2635065	FC114065	F2635065	FC114065
80	3"	88,9	F2631080	F2633080	FC116080	F2633080	FC116080	F2635080	FC114080	F2635080	FC114080
90	3 1/2"	108,0		F2633108		F2633108					
100	4"	114,3	F2631100	F2633100	FC116100	F2633100	FC116100	F2635100	FC114100	F2635100	FC114100
125	5"	133,0		F2633133		F2633133					
125	5"	139,7	F2631125	F2633125	FC116125	F2633125	FC116125	F2635125	FC114125	F2635125	FC114125
150	6"	159,0		F2633159		F2633159					
150	6"	168,3	F2631150	F2633150	FC116150	F2633150	FC116150	F2635150	FC114150	F2635150	FC114150
200	8"	219,1	F2631200	F2632200	FC111200	F2633200	FC116200	F2634200		F2635200	FC114200
250	10"	273,0	F2631250	F2632250	FC111250	F2633250	FC116250	F2634250		F2635250	FC114250
300	12"	323,9	F2631300	F2632300	FC111300	F2633300	FC116300	F2634300		F2635300	FC114300
350	14"	355,6	F2631350	F2632350	FC111350	F2633350	FC116350	F2634350		F2635350	
400	16"	406,4	F2631400	F2632400	FC111400	F2633400	FC116400	F2634400		F2635400	
450	18"	457,0		F2632450		F2633450		F2634450		F2635450	
500	20"	508,0	F2631500	F2632500	FC111500	F2633500		F2634500		F2635500	
600	24"	609,0				F2633600					
700	28"	711,0				F2633700					
800	32"	813,0				F2633800					
900	36"	914,0				F2633900					
1000	40"	1.016,0				F2633999					
			MATERIAL P250GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH

  Not standardized flanges    
   4 HOLES    
   According to DIN 2633    
   According to DIN 2635

DIMENSION			IRRIGATION FLANGE	FLANGE 2642	THREADED FLANGE 2573	THREADED FLANGE 2576	THREADED NECK FLANGE DIN 2566		THREADED NECK FLANGE EN 1092-1 TYPE 13			
				PN 10 ZINCATED	PN 6 ZINCATED	PN 10/16 ZINCATED	PN 16 BLACK	PN 16 GALVA	PN 6 BLACK	PN 16 BLACK	PN 40 BLACK	PN 16 GALVA
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3			F573O015	F576O015	F5660015	F566G015	FC130015	FC134015	FC134015	
20	3/4"	26,9			F573O020	F576O020	F5660020	F566G020	FC130020	FC134020	FC134020	
25	1"	33,7		F2642025	F573O025	F576O025	F5660025	F566G025	FC130025	FC134025	FC134025	
32	1 1/4"	42,4		F2642032	F573O032	F576O032	F5660032	F566G032	FC130032	FC134032	FC134032	
40	1 1/2"	48,3	F576R040	F2642040	F573O040	F576O040	F5660040	F566G040	FC130040	FC134040	FC134040	
50	2"	60,3	F576R050	F2642050	F573O050	F576O050	F5660050	F566G050	FC130050	FC136050		F566G050
65	2 1/2"	76,1	F576R065	F2642065	F573O065	F576O065	F5660065	F566G065	FC130065	FC136065		F566G065
80	3"	88,9	F576R080	F2642080	F573O080	F576O080	F5660080	F566G080	FC130080	FC136080		F566G080
80	3"	88,9	F576R816			F576O086						
100	4"	114,3	F576R100	F2642100	F573O100	F576O100	F5660100	F566G100		FC136100		F566G100
125	5"	139,7	F576R125	F2642125	F573O125	F576O125	F5660125	F566G125		FC136125		F566G125
150	6"	168,3	F576R150	F2642150	F573O150	F576O150	F5660150	F566G150		FC136150		F566G150
200	8"	219,1	F576R200	F2642200								
200	8"	219,1	F576R216									
250	10"	273,0	F576R250	F2642250								
300	12"	323,9	F576R300	F2642300								

With 8 holes PN 16

With 12 holes PN 16

DIMENSION			ZINCATED PE FLANGE				ZINCATED PVC FLANGE	
			NORMAL SERIES PN 10	NORMAL SERIES PN 16	LIGHT SERIES PN 10	LIGHT SERIES PN 16	PN 10	PN 16
DN	PE Ø EXT (mm)	PVC Ø EXT (mm)	CODE	CODE	CODE	CODE	CODE	CODE
15	20		FPE10015	FPE10015				
20	25		FPE10020	FPE10020				
25	32		FPE10025	FPE10025				
32	40		FPE10032	FPE10032				
40	50		FPE10040	FPE10040	FPR10040	FPR10040		
50		50					FPVC0050	FPVC0050
50	63	63	FPE10050	FPE10050	FPR10050	FPR10050	FPR10050	FPR10050
65		63					FPVC0063	FPVC0063
65	75	75	FPE10065	FPE10065	FPR10065	FPR10065	FPVC0075	FPVC0075
80	90	90	FPE10080	FPE10080	FPR10080	FPR10080	FPVC0090	FPVC0090
100	110	110	FPE10100	FPE10100	FPR10100	FPR10100	FPVC0110	FPVC0110
100	125		FPE10101	FPE10101	FPR10101	FPR10101		
125	125	125	FPE10125	FPE10125	FPR10125	FPR10125	FPVC0125	FPVC0125
125	140	140	FPE10126	FPE10126	FPR10126	FPR10126	FPVC0140	FPVC0140
150	160	160	FPE10150	FPE10150	FPR10150	FPR10150	FPVC0160	FPVC0160
150	180		FPE10151	FPE10151	FPR10151	FPR10151		
200	200	200	FPE10200	FPE16200	FPR10200	FPR16200	FPVC0200	FPVC6200
200	225			FPE16201		FPR16201		
250	250	250	FPE10250	FPE16250	FPR10250	FPR16250	FPVC0250	FPVC6250
300	315	315	FPE10300	FPE16300	FPR10300	FPR16300	FPVC0315	FPVC6315
350	355		FPE10350	FPE16350	FPR10350	FPR16350		
400	400		FPE10400	FPE16400	FPR10400	FPR16400		
450	450				FPR10450	FPR16450		
500	500				FPR10500	FPR16500		
600	560				FPR10600			
600	630				FPR10601			
700	710				FPR10700			
800	800				FPR10800			



## RUBBER GASKET



Type 1



Type 2



- PN 10
- PN 10/16
- PN 16

DN	TYPE 1		TYPE 1 SBR	TYPE 1 NBR	TYPE 2 SBR
	Nº 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	8	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



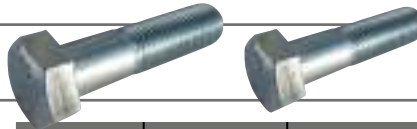
GASKET FOR FLANGES WITHOUT HOLES DIN 2690				
DN	Ø EXT.	Ø INT.		CODE
15	50	20	25	JBKSA015
20	60	25	25	JBKSA020
25	70	30	25	JBKSA025
32	82	40	25	JBKSA032
40	92	50	25	JBKSA040
50	107	60	25	JBKSA050
65	127	77	25	JBKSA065
80	142	90	25	JBKSA080
100	162	114	25	JBKSA100
125	192	140	25	JBKSA125
150	218	168	25	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



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 - Zinc-plated





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



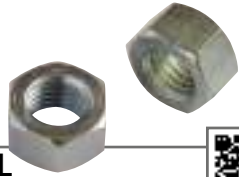
## DIN 933 HEXAGONAL BOLT - 8.8 - Zinc-plated



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 *

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 - ZINC-PLATED**



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 ZINC-PLATED**



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 ZINC-PLATED**



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 ZINC-PLATED**



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-  
THREADED; GROOVED-  
WELDED)**  
STEEL EN 10255 (M/S195T)



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

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

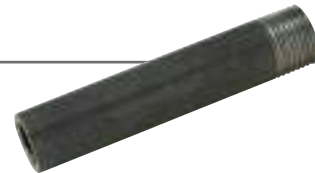


**SLIDING BARREL NIPPLE  
TAPER THREAD DIN 2981**  
GALVANIZED STEEL ST 37,2



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



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



SOCKET				
Ø	LENGTH		BLACK CODE	ZINCATED CODE
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



HALF SOCKET				
Ø	LENGTH		BLACK CODE	
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		BLACK CODE	ZINCATED CODE
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

Ø	LENGTH		BLACK CODE	ZINCATED CODE
1/2"	110	140 10	B1103110	
1/2"	120	120 10	B1103120	B5103120
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		BLACK CODE	ZINCATED CODE
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		BLACK CODE	ZINCATED CODE
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	B110A100	B510A100
2 1/2"	120	8 4	B110A120	B510A120
2 1/2"	140	6 3	B110A140	B510A140
2 1/2"	150	6 3	B110A150	B510A150
2 1/2"	160	6 3	B110A160	B510A160
2 1/2"	180	6 3	B110A180	B510A180
2 1/2"	200	6 3	B110A200	B510A200
2 1/2"	250	4 4	B110A250	B510A250
2 1/2"	300	8 2	B110A300	B510A300
2 1/2"	400	6 2		B510A400
2 1/2"	500	5 1		B510A500
2 1/2"	600	1		B510A600
2 1/2"	800	1		B510A800
2 1/2"	1000	1		B51A1000
3"	80	12 4	B1100B80	B5100B80
3"	100	8 2	B110B100	B510B100
3"	120	8 2	B110B120	B510B120
3"	140	4 2	B110B140	B510B140
3"	150	6 2	B110B150	B510B150
3"	160	4 2		B510B160
3"	180	4 2	B110B180	B510B180
3"	200	4 2	B110B200	B510B200
3"	250	4 2	B110B250	B510B250
3"	300	6 2	B110B300	B510B300
3"	400	4 2		B510B400
3"	500	4 2		B510B500
4"	80	5 1	B1100C80	B5100C80
4"	100	4 2	B110C100	B510C100
4"	120	3 1	B110C120	B510C120
4"	140	3 1	B110C140	B510C140
4"	150	3 1	B110C150	B510C150
4"	160	3 1	B110C160	B510C160
4"	180	2 1	B110C180	B510C180
4"	200	6 2	B110C200	B510C200
4"	250	4 2	B110C250	B510C250
4"	300	3 1	B110C300	B510C300
4"	400	3 1		B510C400
4"	500	3 1		B510C500

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



## THREADED FITTINGS - AISI 316



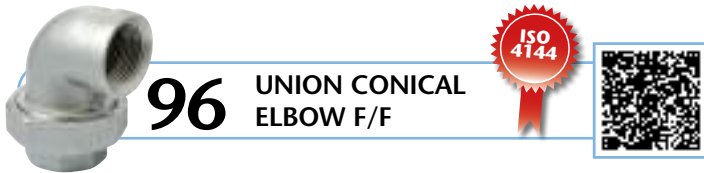
### 90 90° ELBOW F/F

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

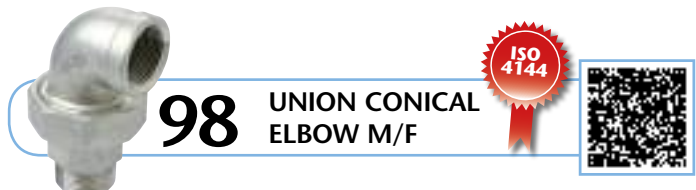
Ø			ISO 4144 CODE	PN 16 CODE
1/8"	500	10	I0926000	
1/4"	350	10	I0926001	
3/8"	260	10	I0926002	
1/2"	160	10	I0926003	I092L003
3/4"	100	10	I0926004	I092L004
1"	50	10	I0926005	I092L005
1 1/4"	25	5	I0926006	I092L006
1 1/2"	18	2	I0926007	I092L007
2"	10	1	I0926008	I092L008
2 1/2"	4	1	I0926009	
3"	3	1	I092600A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



**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



**270** SOCKET



Ø		CODE	CODE REINFORCED
1/8"	800 10	I2706000	
1/4"	450 10	I2706001	I2706P01
3/8"	400 10	I2706002	I2706P02
1/2"	240 10	I2706003	I2706P03
3/4"	180 5	I2706004	I2706P04
1"	80 5	I2706005	I2706P05
1 1/4"	50 2	I2706006	I2706P06
1 1/2"	40 2	I2706007	I2706P07
2"	24 1	I2706008	I2706P08
2 1/2"	12 1	I2706009	I2706P09
3"	8 1	I270600A	I2706P0A
4"	4 1	I270600C	I2706P0C



**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	



**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	I300L003
3/4"	180 5	I3006004	I300L004
1"	120 5	I3006005	I300L005
1 1/4"	60 3	I3006006	I300L006
1 1/2"	46 2	I3006007	I300L007
2"	30 1	I3006008	I300L008
2 1/2"	20 1	I3006009	
3"	12 1	I300600A	
4"	8 1	I300600C	







## 312 BACK NUT



## 315 HOSE NIPPLE



Ø			CODE
1/8"	1000	10	I3106000
1/4"	800	10	I3106001
3/8"	600	10	I3106002
1/2"	400	5	I3106003
3/4"	300	5	I3106004
1"	200	5	I3106005
1 1/4"	120	3	I3106006
1 1/2"	100	2	I3106007
2"	10	1	I3106008
2 1/2"	25	1	I3106009
3"	20	1	I310600A
4"	10	1	I310600C

Ø			CODE
1/8" x 8 mm.	500	10	I3156000
1/4" x 9 mm.	500	10	I3156001
3/8" x 11 mm.	350	10	I3156002
1/2" x 15 mm.	200	10	I3156003
3/4" x 20 mm.	120	5	I3156004
1" x 27 mm.	60	5	I3156005
1 1/4" x 33 mm.	40	2	I3156006
1 1/2" x 40 mm.	35	1	I3156007
2" x 53 mm.	15	1	I3156008
2 1/2" x 66 mm.	10	1	I3156009
3" x 80 mm.	8	1	I315600A
4" x 105 mm.	2	1	I315600C



## 330 FLAT SEAT UNION F/F



## 331 FLAT SEAT UNION M/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	

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

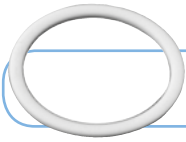


## 341 CONICAL SEAT UNION M/F

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	

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	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	



## 531 PARALLEL NIPPLE



Ø		CODE
1/4"	1000 10	I5316001
3/8"	600 10	I5316002
1/2"	350 5	I5316003
3/4"	200 5	I5316004
1"	140 5	I5316005
1 1/4"	80 2	I5316006
1 1/2"	60 2	I5316007
2"	18 1	I5316008



## 600 WELDING NIPPLE



Ø		CODE
1/8" x 30 mm.	1200 10	I6006000
1/4" x 30 mm.	500 10	I6006001
3/8" x 30 mm.	500 10	I6006002
1/2" x 35 mm.	300 5	I6006003
3/4" x 40 mm.	180 5	I6006004
1" x 40 mm.	120 5	I6006005
1 1/4" x 50 mm.	60 3	I6006006
1 1/2" x 50 mm.	40 2	I6006007
2" x 50 mm.	30 1	I6006008
2 1/2" x 60 mm.	18 1	I6006009
3" x 70 mm.	12 1	I600600A
4" x 80mm.	4 1	I600600C



## 530 BARREL 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
3/8" x 80 mm.	280 10	I5362080
3/8" x 150 mm.	120 10	I5362150
1/2" x 60 mm.	180 10	I5306003
1/2" x 80 mm.	210 10	I5363080
1/2" x 120 mm.	120 10	I5363120
1/2" x 150 mm.	110 10	I5363150
3/4" x 60 mm.	120 10	I5306004
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
1" x 40 mm.	140 10	I5365040
1" x 60 mm.	120 5	I5306005
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 1/4" x 80 mm.	40 2	I5306006
1 1/4" x 100 mm.	40 10	I5366100
1 1/4" x 150 mm.	25 1	I5366150
1 1/2" x 80 mm.	25 1	I5306007
1 1/2" x 150 mm.	20 1	I5367150
2" x 60 mm.	30 10	I5368060
2" x 100 mm.	18 1	I5306008
2" x 150 mm.	12 1	I5368150
2 1/2" x 100 mm.	10 1	I5306009
3" x 120 mm.	5 1	I530600A
4" x 120 mm.	2 1	I530600C



## 700 THREADED 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



## 800 HOSE COUPLING



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

## VALVES - AISI 316



2-PCS BALL VALVE WITH FULL BORE



Ø		CODE
1/4"	60 1	IVB20061
3/8"	60 1	IVB20062
1/2"	45 1	IVB20063
3/4"	25 1	IVB20064
1"	16 1	IVB20065
1 1/4"	10 1	IVB20066
1 1/2"	6 1	IVB20067
2"	4 1	IVB20068
2 1/2"	4 1	IVB20069
3"	2 1	IVB2006A
4"	2 1	IVB2006C



2-PCS BALL VALVE M/F



Ø		CODE
3/8"	50 1	IVB2MH62
1/2"	36 1	IVB2MH63
3/4"	25 1	IVB2MH64
1"	16 1	IVB2MH65
1 1/4"	10 1	IVB2MH66
1 1/2"	6 1	IVB2MH67
2"	4 1	IVB2MH68



2-PCS BALL VALVE M/F



Ø		CODE
3/8"	60 1	IVB2MHM2
1/2"	45 1	IVB2MHM3
3/4"	35 1	IVB2MHM4
1"	25 1	IVB2MHM5



2-PCS BALL VALVE



Ø		CODE
3/8"	60 1	IVB2HHM2
1/2"	45 1	IVB2HHM3
3/4"	35 1	IVB2HHM4
1"	25 1	IVB2HHM5



1-PC BALL VALVE



Ø		CODE
1/4"	200 1	IVB10061
3/8"	120 1	IVB10062
1/2"	70 1	IVB10063
3/4"	50 1	IVB10064
1"	30 1	IVB10065
1 1/4"	24 1	IVB10066
1 1/2"	16 1	IVB10067
2"	12 1	IVB10068



BIBCOCK BALL VALVE



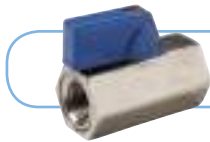
Ø	D mm.		CODE
1/2"	13,0	40 1	IVG06003
3/4"	16,0	30 1	IVG06004
1"	27,5	20 1	IVG06005



Y-STRAINER



Ø		CODE
1/2"	70 1	IVF00063
3/4"	45 1	IVF00064
1"	25 1	IVF00065
1 1/4"	14 1	IVF00066
1 1/2"	12 1	IVF00067
2"	6 1	IVF00068



**MINI BALL VALVE M/F**



Ø		CODE
1/4"	160 1	IVBMH061
3/8"	160 1	IVBMH062
1/2"	80 1	IVBMH063



**MINI BALL VALVE F/F**



Ø		CODE
1/4"	160 1	IVBHH061
3/8"	160 1	IVBHH062
1/2"	80 1	IVBHH063



**2-PCS BALL VALVE - THREADED**



Ø		CODE
1/4"	60 1	IVB2P061
3/8"	60 1	IVB2P062
1/2"	45 1	IVB2P063
3/4"	25 1	IVB2P064
1"	16 1	IVB2P065
1 1/4"	10 1	IVB2P066
1 1/2"	6 1	IVB2P067
2"	4 1	IVB2P068



**3-PCS BALL VALVE WITH FULL BORE**



Ø		CODE
1/4"	40 1	IVB30061
3/8"	36 1	IVB30062
1/2"	30 1	IVB30063
3/4"	16 1	IVB30064
1"	11 1	IVB30065
1 1/4"	6 1	IVB30066
1 1/2"	4 1	IVB30067
2"	2 1	IVB30068
2 1/2"	2 1	IVB30069
3"	1 1	IVB3006A
4"	1 1	IVB3006C



**3-PCS BALL VALVE - THREADED**



Ø		CODE
1/2"	30 1	IVB3P063
3/4"	16 1	IVB3P064
1"	11 1	IVB3P065
1 1/4"	6 1	IVB3P066
1 1/2"	4 1	IVB3P067
2"	2 1	IVB3P068
2 1/2"	2 1	IVB3P069
3"	1 1	IVB3P06A
4"	1 1	IVB3P06C



**3-PCS BALL VALVE - BUTT WELD**



Ø		CODE
1/2"	30 1	IVB3PB63
3/4"	16 1	IVB3PB64
1"	11 1	IVB3PB65
1 1/4"	6 1	IVB3PB66
1 1/2"	4 1	IVB3PB67
2"	2 1	IVB3PB68
2 1/2"	2 1	IVB3PB69
3"	1 1	IVB3PB6A
4"	1 1	IVB3PB6C



**3-PCS BALL VALVE - SOCKET WELD**



Ø		CODE
1/2"	30 1	IVB3PS63
3/4"	16 1	IVB3PS64
1"	11 1	IVB3PS65
1 1/4"	6 1	IVB3PS66
1 1/2"	4 1	IVB3PS67
2"	2 1	IVB3PS68
2 1/2"	2 1	IVB3PS69
3"	1 1	IVB3PS6A
4"	1 1	IVB3PS6C

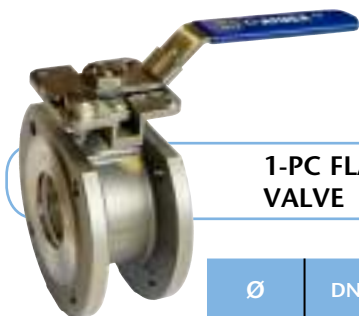


**THREE WAYS BALL VALVE "T" AND "L" TYPES**




Ø	DN	ISO 5211		CODE TYPE "T"	CODE TYPE "L"
1/4"	8	F04/03	15 1	IVBT0061	IVBL0061
3/8"	10	F04/03	15 1	IVBT0062	IVBL0062
1/2"	15	F04/03	13 1	IVBT0063	IVBL0063
3/4"	20	F04/03	7 1	IVBT0064	IVBL0064
1"	25	F05/04	5 1	IVBT0065	IVBL0065
1 1/4"	32	F05/04	4 1	IVBT0066	IVBL0066
1 1/2"	40	F07/05	3 1	IVBT0067	IVBL0067
2"	50	F07/05	2 1	IVBT0068	IVBL0068

\* Direct mounting for actuators ISO 5211.



**1-PC FLANGED BALL VALVE**




Ø	DN	ISO 5211		CODE
1/2"	15	F03/F04	1	IVB1P015
3/4"	20	F03/F04	1	IVB1P020
1"	25	F04/F05	1	IVB1P025
1 1/4"	32	F04/F05	1	IVB1P032
1 1/2"	40	F05/F07	1	IVB1P040
2"	50	F05/F07	1	IVB1P050
2 1/2"	65	F07/F10	1	IVB1P065
3"	80	F07/F10	1	IVB1P080
4"	100	F07/F10	1	IVB1P100



**2-PCS FLANGED BALL VALVE**



Ø	DN	ISO 5211		CODE
1/2"	15	F03-F04	1	IVB20015
3/4"	20	F03-F04	1	IVB20020
1"	25	F04-F05	1	IVB20025
1 1/4"	32	F04-F05	1	IVB20032
1 1/2"	40	F05-F07	1	IVB20040
2"	50	F05-F07	1	IVB20050
2 1/2"	65	F07-F10	1	IVB20B65
3"	80	F07-F10	1	IVB20080
4"	100	F07-F10	1	IVB20100
5"	125	F10-F12	1	IVB20125
6"	150	F10-F12	1	IVB20150
8"	200	F12-F14	1	IVB20200

\* Direct mounting for actuators ISO 5211.



**CHECK VALVE**



Ø	CODE
1/4"	IV130601
3/8"	IV130602
1/2"	IV130603
3/4"	IV130604
1"	IV130605
1 1/4"	IV130606
1 1/2"	IV130607
2"	IV130608



**DISK CHECK VALVE  
"WAFFER TYPE"**



Ø	DN	CODE
1/2"	15	IV566015
3/4"	20	IV566020
1"	25	IV566025
1 1/4"	32	IV566032
1 1/2"	40	IV566040
2"	50	IV566050
2 1/2"	65	IV566065
3"	80	IV566080
4"	100	IV566100
5"	125	IV566125
6"	150	IV566150



**WAFFER SWING CHECK VALVE**



DN	CODE
40	VF540040
50	VF540050
65	VF540065
80	VF540080
100	VF540100
125	VF540125
150	VF540150
200	VF540200
250	VF540250
300	VF540300



## BUTT WELDING FITTINGS - ISO STANDARD



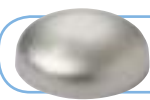
**90° WELDED ELBOW**

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



**TEE**

Ø	Ø mm.	DN	AISI 304L THICK. 2 mm. CODE	AISI 316L 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 THICK. 2 mm. CODE	AISI 316L 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



**LAP JOINT**

Ø	Ø mm.	DN	AISI 304L THICK. 2 mm. CODE	AISI 316L 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





## CONCENTRIC REDUCTION

Ø	Ø mm.	DN	HEIGHT mm.	AISI 304L THICK. 2 mm. CODE	AISI 316L THICK. 2 mm. 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



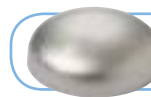
**BUTT WELDING FITTINGS - MILLIMETRIC**

**90° WELDED ELBOW**

Ø	Ø mm.	DN	R mm.	THICK. mm.	AISI 304L CODE	AISI 316L 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 CODE	AISI 316L 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 CODE	AISI 316L 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 CODE	AISI 316L 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 REDUCTION

Ø mm.	DN	THICK. mm.	AISI 304L CODE	AISI 316L 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



**90° LONG  
RADIUS ELBOW**

Ø	Ø EXT mm.	THICK.	AISI 304L CODE	AISI 316L 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



**TEE**

Ø	Ø EXT mm.	THICK.	AISI 304L CODE	AISI 316L 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



**CAP**

Ø	Ø EXT mm.	THICK.	AISI 304L CODE	AISI 316L 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



**STUB END**

Ø	Ø EXT mm.	THICK.	AISI 304L CODE	AISI 316L 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 REDUCTION

Ø	Ø EXT mm.	AISI 304L CODE	AISI 316L 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

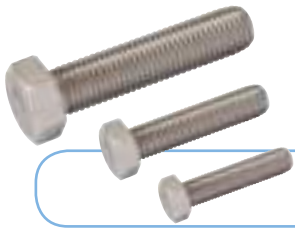


### 90° LONG RADIUS ELBOW



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**



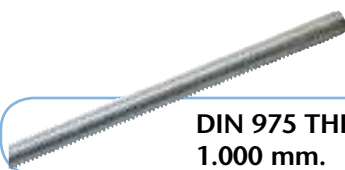
SIZE	LENGTH		CODE
M12	50	300 50	TI331250
M12	60	300 50	TI331260
M14	60	200 50	TI331460
M14	70	150 50	TI331470
M14	80	150 50	TI331480
M16	40	200 25	TI331640
M16	50	150 25	TI331650
M16	60	150 25	TI331660
M16	70	150 25	TI331670
M16	80	100 25	TI331680
M16	90	100 25	TI331690
M16	100	100 25	TI331610
M16	110	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

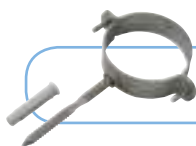
## FIXINGS - AISI 304



**M8/M10 CLAMP**


2,5 mm. Band thickness.

INCHES	mm.	BOLT		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




**M8/M10 CLAMP WITH PLUG AND SCREW**

2,5 mm. Band thickness.

INCHES	mm.	BOLT	CHEVILLE		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**


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



**"U" BOLT**





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

Ø TUBE	INCHES	SIZE		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



## PRESSED FLANGE

DN	Ø mm.	HOLES	AISI 304L	AISI 316L
			CODE	CODE
15	21,3	4	I4642015	I6642015
20	26,9	4	I4642020	I6642020
25	33,7	4	I4642025	I6642025
32	42,4	4	I4642032	I6642032
40	48,3	4	I4642040	I6642040
50	60,3	4	I4642050	I6642050
50	53,0	4	I4642053	
65	76,1	4	I4642065	I6642065
65	73,0	4	I4642073	
80	88,9	8	I4642080	I6642080
80	84,0	8	I4642084	
100	114,3	8	I4642100	I6642100
100	104,0	8	I4642104	
125	139,7	8	I4642125	I6642125
125	129,0	8	I4642129	
150	168,3	8	I4642150	I6642150
150	154,0	8	I4642154	
200	219,1	8	I4642200	I6642200
200	204,0	8	I4642204	
250	273,1	12	I4642250	I6642250
250	254,0	12	I4642254	
300	323,9	12	I4642300	I6642300
				

# ALUMINUM FLANGES

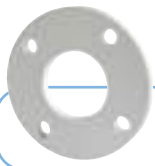


DIN 2642 ALUMINUM FLAT FLANGE - PN 10




DN	Ø	CODE
40	1"1/2	FPA10040
50	2"	FPA10050
65	2"1/2	FPA10065
80	3"	FPA10080
100	4"	FPA10100
125	5"	FPA10125
150	6"	FPA10150
200	8"	FPA10200
250	10"	FPA10250
300	12"	FPA10300

STAINLESS  
STEEL FITTINGS



DIN 2642 WHITE ALUMINUM FLAT FLANGE - PN 10



DN	Ø	NORM	BOLT	CODE
			NR	
25	1"	ISO	4	FPAB0025
32	1 1/4"	ISO	4	FPAB0032
40	1 1/2"	METRIC	4	FPABM043
40	1 1/2"	ISO	4	FPAB0040
50	2"	METRIC	4	FPABM053
50	2"	ISO	4	FPAB0050
65	2 1/2"	METRIC	4	FPABM073
65	2 1/2"	ISO	4	FPAB0065
80	3"	METRIC	8	FPABM084
80	3"	ISO	8	FPAB0080
100	4"	METRIC	8	FPABM104
100	4"	ISO	8	FPAB0100
125	5"	METRIC	8	FPABM129
125	5"	ISO	8	FPAB0125
150	6"	METRIC	8	FPABM154
150	6"	ISO	8	FPAB0150
200	8"	METRIC	8	FPABM204
200	8"	ISO	8	FPAB0200
250	10"	METRIC	12	FPABM254
250	10"	ISO	12	FPAB0250
 250	10"	ISO	12	FPAB0256
300	12"	METRIC	12	FPABM304
300	12"	ISO	12	FPAB0300





**STAINLESS STEEL FORGED FLANGES**


DIMENSION			FLAT FLANGE ACCORDING TO EN 1092-1 01									
			AISI 304L					AISI 316L				
			PN 10	PN 16		PN 25	PN 40	PN 10	PN 16		PN 25	PN40
DN	INCHES	mm.	CODE	CODE	CODE EN		CODE	CODE DIN	CODE	CODE EN	CODE	CODE
15	1/2"	21,3	IF414015		IF414015	IF414015	IF414015	IF614015		IF614015	IF614015	IF614015
20	3/4"	26,9	IF414020		IF414020	IF414020	IF414020	IF614020		IF614020	IF614020	IF614020
25	1"	33,7	IF414025		IF414025	IF414025	IF414025	IF614025		IF614025	IF614025	IF614025
32	1 1/4"	42,4	IF414032		IF414032	IF414032	IF414032	IF614032		IF614032	IF614032	IF614032
40	1 1/2"	48,3	IF414040		IF414040	IF414040	IF414040	IF614040		IF614040	IF614040	IF614040
50	2"	60,3	IF416050		IF416050	IF416050	IF416050	IF616050		IF616050	IF616050	IF616050
65	2 1/2"	76,1	I4576065		I4576065			I6576065		I6576065		
65	2 1/2"	76,1	IF416065		IF416065	IF414065	IF414065	IF616065		IF616065	IF614065	IF614065
80	3"	88,9	IF416080		IF416080	IF414080	IF414080	IF616080		IF616080	IF614080	IF614080
100	4"	114,3	IF416100		IF416100	IF414100	IF414100	IF616100		IF616100	IF614100	IF614100
125	5"	139,7	IF416125		IF416125	IF414125	IF414125	IF616125		IF616125	IF614125	IF614125
150	6"	168,3	IF416150		IF416150	IF414150	IF414150	IF616150		IF616150	IF614150	IF614150
200	8"	219,1	IF411200		IF416200	IF412200	IF414200	IF611200		IF616200	IF612200	IF614200
250	10"	273,0	IF411250		IF416250	IF412250	IF414250	IF611250		IF616250	IF612250	IF614250
300	12"	323,9	IF411300		IF416300	IF412300	IF414300	IF611300		IF616300	IF612300	IF614300
350	14"	355,6	IF411350	I4502350*	IF416350			IF611350	I6502350*	IF616350		
400	16"	406,4	IF411400		IF416400			IF611400		IF616400		
450	18"	457,0	IF411450					IF611450				
500	20"	508,0	IF411500	I4502500*	IF416500			IF611500		IF616500		
600	24"	610,0	IF411600	IF416600				IF611600	IF616600			
700	28"	711,0	IF411700	IF416700				IF611700	IF616700			
800	32"	813,0	IF411800	IF416800				IF611800	IF616800			

\* Available while stocks last  Not standardized flanges  4 Holes  According to DIN 2502




BLIND FLANGE ACCORDING TO EN 1092-1 05


DIMENSION			BLIND FLANGE ACCORDING TO EN 1092-1 05					
			AISI 304L			AISI 316L		
DN	INCHES	mm.	PN 10 CODE	PN 16 CODE	PN 40 CODE	PN 10 CODE	PN 16 CODE	PN40 CODE
15	1/2"	21,3	IF454015	IF454015	IF454015	IF654015	IF654015	IF654015
20	3/4"	26,9	I4527020*	I4527020*				
	3/4"	26,9	IF454020	IF454020	IF454020	IF654020	IF654020	IF654020
25	1"	33,7	IF454025	IF454025	IF454025	IF654025	IF654025	IF654025
32	1 1/4"	42,4				I6527032*	I6527032*	
	1 1/4"	42,4	IF454032	IF454032	IF454032	IF654032	IF654032	IF654032
40	1 1/2"	48,3	IF454040	IF454040	IF454040	IF654040	IF654040	IF654040
50	2"	60,3	IF456050	IF456050	IF456050	IF656050	IF656050	IF656050
65	2 1/2"	76,1	IF456065	IF456065		IF656065	IF656065	
80	3"	88,9	IF456080	IF456080		IF656080	IF656080	
100	4"	114,3	IF456100	IF456100		IF656100	IF656100	
125	5"	139,7	IF456125	IF456125		IF656125	IF656125	
150	6"	168,3	IF456150	IF456150		IF656150	IF656150	
200	8"	219,1	IF451200	IF456200		IF651200	IF656200	
250	10"	273,0	IF451250	IF456250		IF651250	IF656250	
300	12"	323,9	IF451300	IF456300		IF651300	IF656300	
350	14"	355,6	IF451350	IF456350		IF651350	IF656350	
400	16"	406,4	IF451400	IF456400		IF651400	IF656400	
500	20"	508,0	IF451350	IF456350		IF651350	IF656350	
400	16"	406,4	IF451400	IF456400		IF651400	IF656400	
500	20"	508,0	IF451500	IF456500		IF651500	IF656500	
								

\* Available while stocks last








DIMENSION			NECK FLANGE ACCORDING TO EN 1092-1 11					
			AISI 304L			AISI 316L		
DN	Ø	mm.	PN 10 CODE	PN 16 CODE	PN 40 CODE	PN 10 CODE	PN 16 CODE	PN40 CODE
15	1/2"	21,3	I4633015*	I4633015*				
	1/2"	21,3	IF424015	IF424015	IF424015	IF624015	IF624015	IF624015
20	3/4"	26,9	I4633020*	I4633020*				
	3/4"	26,9	IF424020	IF424020	IF424020	IF624020	IF624020	IF624020
25	1"	33,7	IF424025	IF424025	IF424025	IF624025	IF624025	IF624025
32	1 1/4"	42,4	I4633032*	I4633032*				
	1 1/4"	42,4	IF424032	IF424032	IF424032	IF624032	IF624032	IF624032
40	1 1/2"	48,3	IF424040	IF424040	IF424040	IF624040	IF624040	IF624040
50	2"	60,3	IF426050	IF426050	IF426050	IF626050	IF626050	IF626050
65	2 1/2"	76,1	I4633065	I4633065		I6633065	I6633065	
	2 1/2"	76,1	IF426065	IF426065		IF626065	IF626065	
80	3"	88,9	IF426080	IF426080		IF626080	IF626080	
100	4"	114,3	IF426100	IF426100		IF626100	IF626100	
125	5"	139,7	IF426125	IF426125		IF626125	IF626125	
150	6"	168,3	IF426150	IF426150		IF626150	IF626150	
200	8"	219,1		IF426200			IF626200	
250	10"	273,0		IF426250			IF626250	
300	12"	323,9		IF426300			IF626300	
350	14"	355,6		IF426350			IF626350	
400	16"	406,4		IF426400			IF626400	
500	20"	508,0		IF426500			IF626500	
400	16"	406,4		IF426400			IF626400	
500	20"	508,0		IF426500			IF626500	







\* Available while stocks last  4 HOLES  According to DIN 2633

DIMENSION			MILLIMETRIC 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	Ø	mm.	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	18	IM414015	IM414015	IM414015	IM614015	IM614015	IM614015
20	3/4"	23	IM414020	IM414020	IM414020	IM614020	IM614020	IM614020
25	1"	28	IM414025	IM414025	IM414025	IM614025	IM614025	IM614025
32	1 1/4"	38	IM414032	IM414032		IM614032	IM614032	
40	1 1/2"	43	IM414040	IM414040		IM614040	IM614040	
50	2"	53	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	
								

DIMENSION			FORGED FLANGE ACCORDING TO ASME B 16.5 ASTM A182 - 150 LBS.		
			AISI 316L		
			WELDING NECK	SLIP ON	BLIND
DN	Ø	mm.	CODE	CODE	CODE
15	1/2"	21,3	IN150015	IO150015	IB150015
20	3/4"	26,9	IN150020	IO150020	IB150020
25	1"	33,7	IN150025	IO150025	IB150025
32	1 1/4"	42,4	IN150032	IO150032	IB150032
40	1 1/2"	48,3	IN150040	IO150040	IB150040
50	2"	60,3	IN150050	IO150050	IB150050
65	2 1/2"	76,1	IN150065	IO150065	IB150065
80	3"	88,9	IN150080	IO150080	IB150080
100	4"	114,3	IN150100	IO150100	IB150100
125	5"	139,7	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	Ø	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 1-PC STAINLESS  
STEEL VALVE**

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 2-PCS STAINLESS  
STEEL VALVE**

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 3-PCS STAINLESS  
STEEL VALVE**

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

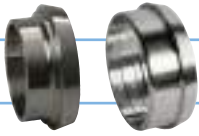


**SIEVE FOR  
"Y" FILTER AISI 316**







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

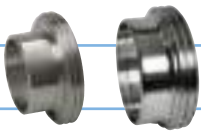


## NW ALIMENTARY FITTINGS - DIN 11851









WELDING LINER

Ø			SERIES 1		SERIES 2		BORING
			CODE AISI 304	CODE AISI 316	CODE AISI 304	CODE AISI 316	CODE AISI 316
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

Ø			SERIES 1		SERIES 2		BORING
			CODE AISI 304	CODE AISI 316	CODE AISI 304	CODE AISI 316	CODE AISI 316
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	14	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			EPDM CODE	SILICONE CODE
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
	1/2" - 3/4"	25,0	150 1	<b>IRFC4008</b>
10-15-20		34,0	100 1	<b>IRFC4010</b>
25-32-40	1" - 1.5"	50,5	80 1	<b>IRFC4025</b>
50	2"	64,0	70 1	<b>IRFC4050</b>
	2 1/2"	77,5	60 1	<b>IRFC4060</b>
65	3"	91,0	50 1	<b>IRFC4065</b>
80	3.5"	106,0	40 1	<b>IRFC4080</b>
100	4"	119,0	40 1	<b>IRFC4100</b>



**INOX AISI 316L  
BLIND FERRULE**



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



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



**GASKET FOR FERRULE**



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

**ALIMENTARY BUTT WELDING FITTINGS-ALIMENTARY - DIN 11852**

**90° WELDED ELBOW**


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



**WELDED TEE**


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



## INOX AISI 316L CONCENTRIC REDUCER

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







**ALIMENTARY BUTT WELDING FITTINGS - SMS 1146**

**90° ELBOW**

DN	THICK. mm.	DIAM. EXT. mm.	R mm.		AISI 304 CODE	AISI 316L 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



ALIMENTARY BUTTERFLY VALVE – THREAD / THREAD



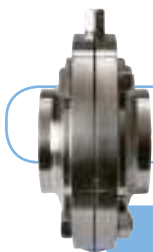
Ø		CODE
25	16 1	IV90E025
32	16 1	IV90E032
40	16 1	IV90E040
50	8 1	IV90E050
65	8 1	IV90E065
80	6 1	IV90E080
100	4 1	IV90E100



ALIMENTARY BUTTERFLY VALVE THREAD / WELD



Ø		CODE
25	16 1	IV91E025
32	16 1	IV91E032
40	16 1	IV91E040
50	12 1	IV91E050
65	8 1	IV91E065
80	8 1	IV91E080
100	4 1	IV91E100



ALIMENTARY BUTTERFLY VALVE – WELD / WELD



Ø		CODE
25	16 1	IV92E025
32	16 1	IV92E032
40	16 1	IV92E040
50	12 1	IV92E050
65	8 1	IV92E065
80	8 1	IV92E080
100	4 1	IV92E100



HANDLE



Ø		CODE
25-65	60 1	IV9P0025
80-100	40 1	IV9P0080



GASKET



Ø		EPDM CODE	NBR CODE	SILICONE CODE
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

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

The advantages of 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.





 **ATUSA**

PRESS **FITTINGS**



**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
54 x 2 3/8"	30	2	P27N054T
54 x 2 1/2"	20	2	P27N0549
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**

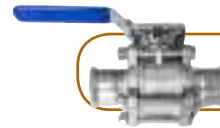
Ø mm			CODE
28	80	5	PE300028
35	60	5	PE300035
42	28	2	PE300042
54	24	2	PE300054


**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

**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




**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


**STRAIGHT 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


**SLIP COUPLING F/F**

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

## 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 to 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 to 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 to 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

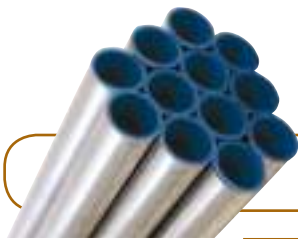
### AISI 304L Pipe:

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

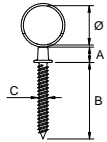
Ø (mm)	GALVANIZED OUTSIDE			GALVANIZED BOTH SIDES		
	CODE	Thickness (mm)	Length (m)	CODE	Thickness (mm)	Length (m)
15	Q0930015	1,2	6	Q0932015	1,2	6
18	Q0930018	1,2	6	Q0932018	1,2	6
22	Q0930022	1,2	6	Q0932022	1,2	6
28	Q0930028	1,5	6	Q0932028	1,5	6
35	Q0930035	1,5	6	Q0932035	1,5	6
42	Q0930042	1,5	6	Q0932042	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




## FIXING SYSTEMS



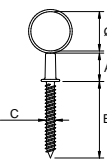
### STAINLESS STEEL AISI 304 SINGLE WOOD-SCREW




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



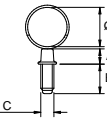
### STAINLESS STEEL AISI 304 PLUS WOOD-SCREW




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



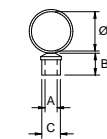
### STAINLESS STEEL AISI 304 METRIC MALE PIPE CLAMP




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

## CRIMPING 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**

## 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	Oleohydraulic 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



**COMPRESSION FITTINGS FOR POLYETHYLENE PIPES – “GORBEA” TYPE**

**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**

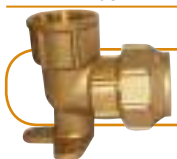

Ø			CODE
1/2" x 20	70	10	LPGCH320
3/4" x 25	40	10	LPGCH425
1" x 32	25	5	LPGCH532
1 1/4" x 40	10	5	LPGCH640
1 1/2" x 50	8	4	LPGCH750
2" x 63	4		LPGCH863


**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

**COMPRESSION FITTINGS FOR POLYETHYLENE PIPES – “URBASA” TYPE**



**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


**FEMALE WALLPLATE ELBOW**

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

**COMPRESSION FITTINGS FOR POLYETHYLENE PIPES – “RONCAL” TYPE**

**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

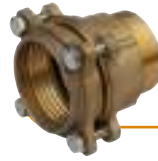
**WALLPLATE ELBOW**

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

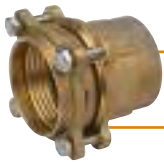
**COMPRESSION FITTINGS FOR POLYETHYLENE PIPES – “FLANGED” TYPE**

**DOUBLE STRAIGHT**

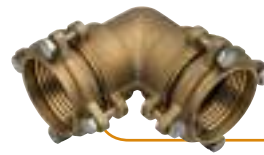

Ø		CODE
75	4 1	LPGRD075
90	4 1	LPGRD090
110	2 1	LPGRD110


**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



# THREADED FITTINGS



**2** 90° BEND F/F



Ø	📦		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



**90** 90° ELBOW F/F



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



**90R** 90° REDUCING ELBOW F/F



Ø	📦		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



**92** 90° ELBOW M/F



Ø	📦		CODE	📦		ISO 7-1 CODE
3/8"	350	10	LS092002			
1/2"	200	10	LS092003	160	10	LS092703
3/4"	100	10	LS092004	80	10	LS092704
1"	60	10	LS092005	50	10	LS092705
1 1/4"	35	5	LS092006	30	5	LS092706
1 1/2"	25	5	LS092007	20	5	LS092707
2"	25	5	LS092008	10	5	LS092708
2 1/2"	14	1	LS09200A			
3"	10	1	LS09200B			
4"	4	1	LS09000D			



**130** TEE



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



**130R** REDUCING TEE



Ø	📦		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** CROSS



Ø	📦		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



## 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



## 241 HEXAGONAL BUSHING M/F



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



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



## 246 REDUCING EXTENSION M/F



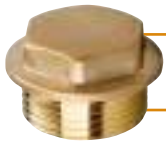
Ø			CODE
3/8" M x 1/2" F	400	10	LS246023
1/2" M x 3/8" F	400	10	LS246032
1/2" M x 3/4" F	300	10	LS246034
1/2" M x 1" F	180	10	LS246035
1/2" M x 1 1/4" F	110	10	LS246036
3/4" M x 1/2" F	300	10	LS246043
3/4" M x 1" F	150	10	LS246045
1" M x 3/4" F	170	10	LS246054
1" M x 1 1/4" F	110	10	LS246056
1" M x 1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



## 280 HEXAGONAL NIPPLE



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



## 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



## 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
<b>NEW</b> 1 1/2" x 50 mm.	20	5	LS315507
2" x 50 mm.	40	5	LS315508
2" x 60 mm.	30	5	LS315008



## 318 FIVE WAY TEE



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



## DOUBLE RING THREADED



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



## 529 HEXAGONAL EXTENSION

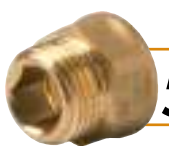


Ø			CODE
3/8"	650	10	LS529002
1/2"	300	10	LS529003
3/4"	250	10	LS529004
1"	120	10	LS529005
1 1/4"	80	10	LS529006
1 1/2"	60	10	LS529007
2"	60	5	LS529008



## 2-PC FITTING FOR WATER METER

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



## 529H HEXAGONAL EXTENSION ALLEN SCREW



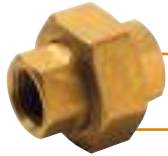
Ø			CODE
1/2"	300	10	LS529H03



## 529L LONG HEXAGONAL EXTENSION



Ø			CODE
1/2"	270	10	LS529L03



### 330 FLAT SEAT UNION F/F WITH PTFE SEAL



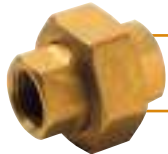
Ø			CODE
1/2"	100	10	LS330003
3/4"	70	10	LS330004
1"	50	10	LS330005
1 1/4"	30	5	LS330006
1 1/2"	20	5	LS330007
2"	20	5	LS330008



### 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



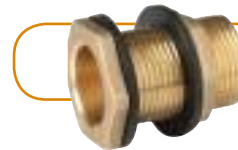
Ø			CODE
1/2"	100	10	LS341003
3/4"	60	10	LS341004
1"	40	10	LS341005
1 1/4"	25	5	LS341006
1 1/2"	20	5	LS341007
2"	20	5	LS341008
2 1/2"	10	1	LS34100A
3"	6	1	LS34100B



### 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



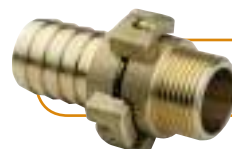
Ø			CODE
3/8"	180	10	LSTC0002
1/2"	120	10	LSTC0003
3/4"	80	10	LSTC0004
1"	50	10	LSTC0005
1 1/4"	30	10	LSTC0006
1 1/2"	25	5	LSTC0007
2"	25	5	LSTC0008
2 1/2"	24	1	LSTC000A
3"	12	1	LSTC000B



### 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**



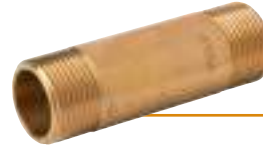
**EXTENSION -  
CHROME-PLATED FINISH**

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

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



**NIPPLE -  
CHROME-PLATED FINISH**



**NIPPLE - BRASS 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

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



**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** 90° TEE


Ø		CODE
3/8"	250 1	LS130P02
1/2"	150 1	LS130P03
3/4"	60 1	LS130P04
1"	40 1	LS130P05


**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

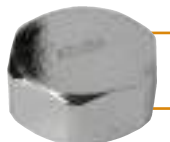

Ø		CODE
3/8"	350 1	LS270P02
1/2"	250 1	LS270P03
3/4"	150 1	LS270P04
1"	100 1	LS270P05


**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

## SOLDERING 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



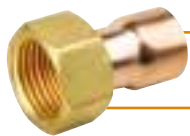
Ø		CODE
1/2" x 12	600 20	LSR43123
1/2" x 15	600 20	LSR43153
1/2" x 18	450 15	LSR43183
3/4" x 15	375 15	LSR43154
3/4" x 18	300 10	LSR43184
3/4" x 22	300 10	LSR43224
3/4" x 28	220 10	LSR43284
1" x 22	200 10	LSR43225
1" x 28	180 10	LSR43285
1 1/2" x 42	60 5	LSR43427



**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

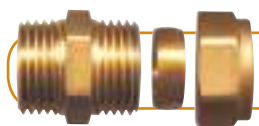

**SEALING CLAMP**


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

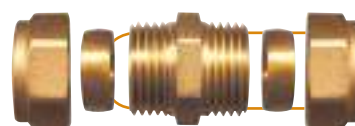

**INTAKE CLAMP**


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

## COMPRESSION FITTINGS FOR COPPER PIPES


**MALE STRAIGHT**


Ø			CODE
3/8" x 12	200	10	TAP00022
3/8" x 15	180	10	TAP00052
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**


Ø			CODE
12 x 12	150	10	TAP00122
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



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



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



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



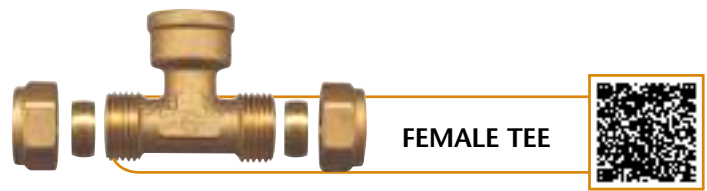
WALLPLATE

Ø		CODE
1/2" x 15	40 10	TAP00653



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

## COMPRESSION FITTINGS FOR PEX PIPES



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



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



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



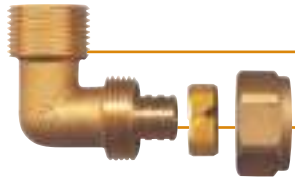
Ø		CODE
1/2" x 16 x 2.0	70 10	TR9A0163
1/2" x 16 x 2.2	70 10	TR8A0163



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

(1) Available while stocks last

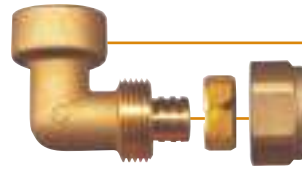




MALE ELBOW



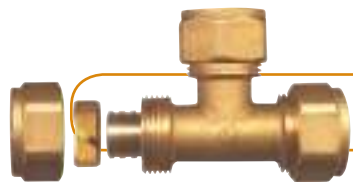
Ø			CODE
1/2" x 15 x 2.5	100	10	TR8CM153
1/2" x 16 x 2.0	100	10	TR9CM163
1/2" x 16 x 2.2	100	10	TR8CM163
1/2" x 18 x 2.5	80	10	TR8CM183
1/2" x 20 x 2.0	60	10	TR9CM203
1/2" x 20 x 2.8	60	10	TR8CM203(1)
3/4" x 16 x 2.0	70	10	TR9CM164
3/4" x 16 x 2.2	70	10	TR8CM164
3/4" x 18 x 2.5	70	10	TR8CM184
3/4" x 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



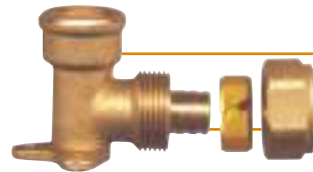
Ø			CODE
3/8" x 15 x 2.5	80	10	TR8CH152(1)
1/2" x 12 x 2.0	80	10	TR8CH123
1/2" x 15 x 2.5	80	10	TR8CH153
1/2" x 16 x 2.0	80	10	TR9CH163
1/2" x 16 x 2.2	80	10	TR8CH163
1/2" x 18 x 2.5	70	10	TR8CH183
1/2" x 20 x 2.0	60	10	TR9CH203
1/2" x 20 x 2.8	60	10	TR8CH203
1/2" x 22 x 3.0	40	10	TR8CH223
3/4" x 16 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



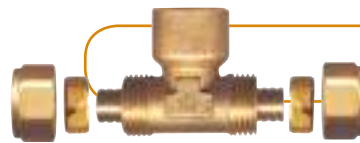
Ø			CODE
1/2" x 15 x 2.5	50	10	TR8CP153 (1)
1/2" x 16 x 2.0	50	10	TR9CP163
1/2" x 16 x 2.2	50	10	TR8CP163
1/2" x 18 x 2.5	50	10	TR8CP183
1/2" x 20 x 2.0	40	10	TR9CP203
1/2" x 20 x 2.8	40	10	TR8CP203



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


**100° AND 105°  
PLASTIC BOX FOR ELBOW**

Ø		CODE
Unique	400 1	TR9PL100

## COMPRESSION FITTINGS FOR MULTILAYER PIPES


**DOUBLE  
STRAIGHT**

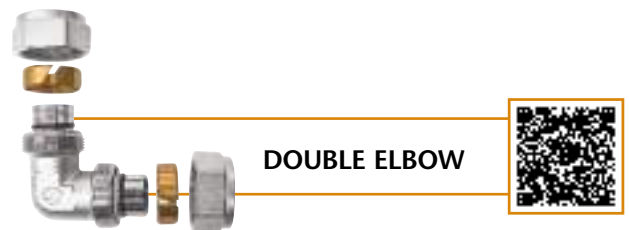
Ø		CODE
16 x 16	100 10	TM011616
18 x 18	80 10	TM011818
20 x 20	60 10	TM012020
26 x 26	40 5	TM012626
32 x 32	25 5	TM013232


**FEMALE STRAIGHT**

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**

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


**DOUBLE ELBOW**

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**

Ø		CODE
16 x 2,0	300 10	TMTP1603

# POLYETHYLENE FITTINGS

In our polyethylene fittings family, quality is our priority. Each piece is designed to exceed your expectations and meet the industry's most stringent standards. Whether you're working on industrial, commercial, or residential projects, our fittings are the reliable choice to ensure the success of your project.

This product family encompassing two specialized subfamilies: electrofusion fittings and butt fusion fittings.

## **Electrofusion Fittings**

Our range of electrofusion fittings excels in ease of installation and precision in joining polyethylene pipes. With cutting-edge technology, these fittings ensure a secure and long-lasting connection. The simplicity of the installation process does not compromise strength and structural integrity, providing a reliable solution for a wide variety of applications.

## **Spigot Fittings**

Spigot fittings offer a solid option for projects that require a strong and durable connection. Manufactured to the highest quality standards, these fittings ensure a tight and wear-resistant connection. Their ergonomic design facilitates installation, translating to efficiency and time savings on-site.



POLYETHYLENE  
FITTINGS

 **ATUSA**

**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 <sup>3</sup>	ISO 1183
Melt-flow index (MFR)	from 0,2 a 1,4	g/10 min	EN ISO 1133
Oxidation induction time	≥20	min	ISO 11357-1
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).

### 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	200	1	E2700020
25	200	1	E2700025
32	180	1	E2700032
40	120	1	E2700040
50	90	1	E2700050
63	50	1	E2700063
75	30	1	E2700075
90	20	1	E2700090
110	14	1	E2700110
125	20	1	E2700125
140	14	1	E2700140
160	12	1	E2700160
180	6	1	E2700180
200	6	1	E2710200
200	4	1	E2700200
225	4	1	E2710225
225	2	1	E2700225
250	2	1	E2710250
250	2	1	E2700250
280	2	1	E2710280
280	1	1	E2700280
315	2	1	E2710315
315	1	1	E2700315
355	2	1	E2710355
400	1	1	E2710400
450	1	1	E2710450

SDR 11  
SDR 17



**REDUCER**



Ø	📦		CODE
25/20	180	1	ER002520
32/20	180	1	ER003220
32/25	180	1	ER003225
40/25	120	1	ER004025
40/32	120	1	ER004032
50/25	100	1	ER005025
50/32	100	1	ER005032
50/40	90	1	ER005040
63/25	50	1	ER006325
63/32	50	1	ER006332
63/40	50	1	ER006340
63/50	50	1	ER006350
75/63	30	1	ER007563
90/63	20	1	ER009063
90/75	20	1	ER009075
110/63	12	1	ER011063
110/75	12	1	ER011075
110/90	12	1	ER011090
125/90	20	1	ER012590
125/110	20	1	ER125110
160/90	12	1	ER016090
160/110	12	1	ER160110
160/125	1	1	ER160125*
200/160	4	1	ER200160

\* Réduction bout à bout + manchon.



**90° ELBOW**



Ø	📦		CODE
20	150	1	E0900020
25	150	1	E0900025
32	120	1	E0900032
40	60	1	E0900040
50	40	1	E0900050
63	25	1	E0900063
75	15	1	E0900075
90	12	1	E0900090
110	8	1	E0900110
125	1	1	E0900125
160	1	1	E0900160



**45° ELBOW**



Ø	📦		CODE
20	150	1	E1200020
25	150	1	E1200025
32	120	1	E1200032
40	60	1	E1200040
50	40	1	E1200050
63	25	1	E1200063
75	15	1	E1200075
90	12	1	E1200090
110	8	1	E1200110
125	1	1	E1200125
160	1	1	E1200160



Ø	📦		CODE
140	1	1	E0900140
200	1	1	E0900200
250	1	1	E0900250
315	1	1	E0900315



Ø	📦		CODE
140	1	1	E1200140
200	1	1	E1200200
250	1	1	E1200250
315	1	1	E1200315

OTHER SIZES - ON REQUEST



**TEE**



Ø		CODE
20/20	150 1	ET002020
25/25	140 1	ET002525
32/32	100 1	ET003232
40/40	60 1	ET004040
50/50	30 1	ET005050
63/63	20 1	ET006363
75/75	12 1	ET007575
90/90	12 1	ET009090
110/110	6 1	ET110110
125/125	6 1	ET125125
160/160	1 1	ET160160



**REDUCING TEE**



Ø		CODE
25/20	140 1	ET002520
32/20	100 1	ET003220
32/25	100 1	ET003225
40/25	60 1	ET004025
40/32	60 1	ET004032
50/25	30 1	ET005025
50/32	30 1	ET005032
50/40	30 1	ET005040
63/32	20 1	ET006332
63/40	20 1	ET006340
63/50	20 1	ET006350
75/63	7 1	ET007563
90/63	7 1	ET009063
90/75	8 1	ET009075
110/63	7 1	ET011063
110/75	10 1	ET011075
110/90	10 1	ET011090
160/90	4 1	ET016090
160/110	4 1	ET160110



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



**BRANCH SADDLE**



Ø		CODE
63/32	30 1	E7016332
63/40	30 1	E7016340
63/50	20 1	E7016350
75/32	25 1	E7017532
75/63	20 1	E7017563
90/32	20 1	E7019032
90/63	15 1	E7019063
110/32	12 1	E7011132
110/63	10 1	E7011163
125/32	12 1	E7011232
125/63	10 1	E7011263
160/32	8 1	E7011632
160/63	8 1	E7011663



**CAP**



Ø		CODE
20	200 1	E3000020
25	200 1	E3000025
32	150 1	E3000032
40	120 1	E3000040
50	80 1	E3000050
63	50 1	E3000063
75	30 1	E3000075
90	20 1	E3000090
110	14 1	E3000110
125	20 1	E3000125
140	14 1	E3000140
160	12 1	E3000160
200	4 1	E3000200*
225	1 1	E3000225*
250	1 1	E3000250*
280	1 1	E3000280*
315	1 1	E3000315*



Ø		CODE
200/32	20 1	E7012032
200/63	20 1	E7012063
250/25	10 1	E7012525
250/32	10 1	E7012532
250/40	10 1	E7012540
250/50	10 1	E7012550
250/63	10 1	E7012563
315/25	10 1	E7013125
315/32	10 1	E7013132
315/40	10 1	E7013140
315/50	10 1	E7013150
315/63	10 1	E7013163

\* Butt Weld cap + EF coupler.

OTHER SIZES - ON REQUEST



### REPAIRING CLAMP



Ø		CODE
63	45 1	E7000063
90	30 1	E7000090
110	20 1	E7000110
125	20 1	E7000125
160	15 1	E7000160
180	15 1	E7000180



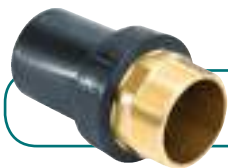
### TAPPING TEE



Ø		CODE
40/32	20 1	ETC04032
50/32	20 1	ETC05032
63/32	20 1	ETC06332
63/40	15 1	ETC06340
63/50	12 1	ETC06350
75/32	20 1	ETC07532
90/32	20 1	ETC09032
90/40	20 1	ETC09040
90/50	15 1	ETC09050
90/63	15 1	ETC09063
110/32	10 1	ETC11032
110/40	10 1	ETC11040
110/50	10 1	ETC11050
110/63	10 1	ETC11063
125/32	8 1	ETC12532
125/50	8 1	ETC12550
125/63	8 1	ETC12563



Ø		CODE
140/32	6 1	ETC14032
140/63	6 1	ETC14063
160/32	6 1	ETC16032
160/50	6 1	ETC16050
160/63	6 1	ETC16063
200/32	4 1	ETC20032
200/40	4 1	ETC20040
200/63	4 1	ETC20063



### PE / BRASS MALE TRANSITION



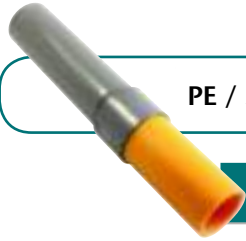
Ø		CODE
20 x 1/2"	220 1	ERM00203
25 x 3/4"	200 1	ERM00254
32 x 1"	140 1	ERM00325
40 x 1 1/4"	100 1	ERM00406
50 x 1 1/2"	70 1	ERM00507
63 x 2"	40 1	ERM00638
75 x 2 1/2"	5 1	ERM0075A
90 x 3"	18 1	ERM0090B
110 x 4"	8 1	ERM0110D
125 x 4"	6 1	ERM0125D



### PE / BRASS FEMALE TRANSITION

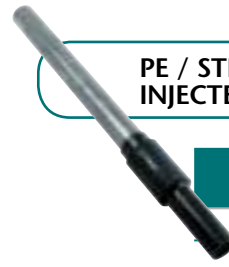


Ø		CODE
20 x 1/2"	60 1	ERH00203
25 x 3/4"	60 1	ERH00254
32 x 1"	200 1	ERH00325
40 x 1 1/4"	100 1	ERH00406
50 x 1 1/2"	84 1	ERH00507
63 x 2"	50 1	ERH00638
75 x 2 1/2"	5 1	ERH0075A
90 x 3"	20 1	ERH0090B
110 x 4"	8 1	ERH0110D
125 x 4"	6 1	ERH0125D



## 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.






**PE 100 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



**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

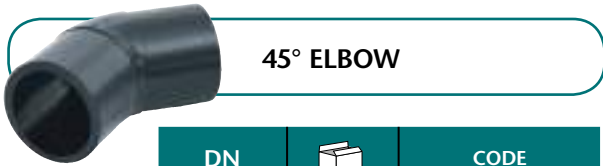
SDR 11



SDR 17



## SPIGOT FITTINGS



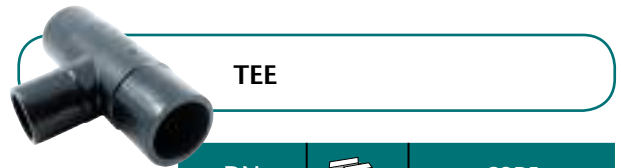
**45° ELBOW**

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**

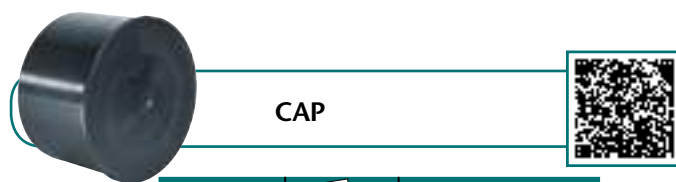
SDR 11



SDR 17



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
160/160	1	WT170160
160/160	1	WT160160
200/200	1	WT170200
225/225	1	WT170225
250/250	1	WT170250
315/315	1	WT170315



**CAP**



DN		CODE
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
125/90	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

EMQ20160

### RANGE 20 - 315 mm.



CODE

EMQ20315

### RANGE 20 - 500 mm.



CODE

EMQ20500

TECHNICAL FEATURES	EMQ20160	EMQ20315	EMQ20500
Working range	20 - 160 mm.	20 - 315 mm.	20 - 500 mm.
Welding voltage – range	8 ± 48V.	8 ± 48V.	8 ± 48V.
Packaging	Bag	Aluminium case	Aluminium case
Barcode reader	Scanner	Scanner	Scanner
Printer	On request	On request	On request
Power supply	230 V 50/60 Hz.	230 V 50/60 Hz.	230 V 50/60 Hz.
Max. Absorbed power	2.000 W.	4.000 W.	6.400 W.
Amperage	80 A.	100 A.	120 A.
Output connectors	USB, R232	USB, R232	USB, R232
Memory (weldings)	350	500	4.000
Protection	IP 54	IP 54	IP 54
Cable length	3 meters	3 meters	3 meters
Dimensions	200x250x210 mm.	240x220x240 mm.	520x435x230 mm.
Weight	7 Kg.	15 Kg.	18 Kg.

## SPIGOT FITTINGS – 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
125 - 500 mm.	EALTR125

### SCRAPER TURBO



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

### SQUEEZE OFF TOOL



DIMENSION	CODE
20 - 90 mm.	EPM02090

### HYDRAULIC



DIMENSION	CODE
90 - 225 mm.	EPH90225

Pipe  
trimming



Pipe  
scraping



### PE PIPE MARKER



CODE
EMARCADO

### HAND SCRAPER



DIMENSION	CODE
40 mm.	ERASC037
62 mm.	ERASC062

### CLEANING TISSUES (10 units)



CODE
ETISSUE1

### WRENCH FOR TATTING TEES



CODE
ELLAVTOM

### WELDING LIQUIDS (1 litre)



CODE
ELIFOXIT

### PE PIPE CUTTER



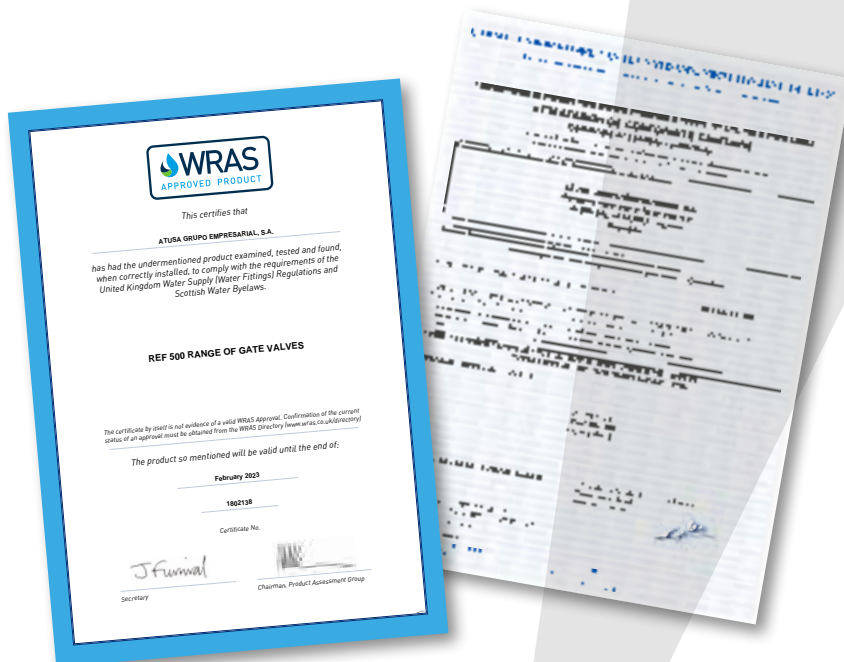
DIMENSION	CODE
6 - 76 mm.	ECORT006
50 - 140 mm.	ECORT050
100 - 160 mm.	ECORT100
180 - 315 mm.	ECORT180



# 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**



**500** DUCTILE IRON GATE VALVE - RESILIENT SEAT - F4 FLANGED



Flanges:

- PN 10
- PN 10/16
- PN 16

DN	Nº HOLES x d mm.	CODE
40	4 x 19	VF500040
50	4 x 19	VF500050
65	4 x 19	VF500065
80	8 x 19	VF500080
100	8 x 19	VF500100
125	8 x 19	VF500125
150	8 x 23	VF500150
200	8 x 23	VF500201
200	12 x 23	VF500200
250	12 x 23	VF500251
250	12 x 28	VF500250
300	12 x 23	VF500301
300	12 x 28	VF500300
350	16 X 23	VF500351
350	16 x 28	VF500350
400	16 x 28	VF500401
400	16 x 31	VF500400
450	20 x 28	VF500451
450	20 x 31	VF500450
500	20 x 28	VF500501
500	20 x 34	VF500500
600	20 x 31	VF500601
600	20 x 37	VF500600

**509** DUCTILE IRON GATE VALVE - RESILIENT SEAT - F5 FLANGED



Flanges:

- PN 10
- PN 10/16
- PN 16

DN	Nº AGUJEROS x d mm.	COD.
40	4 x 19	VF509040
50	4 x 19	VF509050
65	4 x 19	VF509065
80	8 x 19	VF509080
100	8 x 19	VF509100
125	8 x 19	VF509125
150	8 x 23	VF509150
200	8 x 23	VF509201
200	12 x 23	VF509200
250	12 x 23	VF509251
250	12 x 28	VF509250
300	12 x 23	VF509301
300	12 x 28	VF509300
350	16 X 23	VF509351
350	16 x 28	VF509350
400	16 x 28	VF509401
400	16 x 31	VF509400
500	20 x 28	VF509501
500	20 x 34	VF509500

**501** DUCTIL IRON GATE VALVE - RESILIENT SEAT - THREADED



Ø	CODE
3/4"	VF501004
1"	VF501005
1 1/4"	VF501006
1 1/2"	VF501007
2"	VF501008

	CODE
Ref. 502 Square Cap	VF502000
Ref. 503 Handwheel	VF503000

**502** DUCTILE IRON GATE VALVE - RESILIENT SEAT RISING STEM - FLANGED



Flanges:  PN 10/16  PN 16

DN	Nº HOLES x d mm.	CODE
50	4 x 19	VF502050
65	4 x 19	VF502065
80	8 x 19	VF502080
100	8 x 19	VF502100
125	8 x 19	VF502125
150	8 x 23	VF502150
200	12 x 23	VF502200
250	12 x 28	VF502250
300	12 x 28	VF502300

**505** SQUARE CAP FOR RESILIENT SEAT GATE VALVE Ref.500



DN	CODE
40 - 50 - 65	VF505050
80	VF505080
100 - 125 - 150	VF505125
200	VF505200
250 - 300 - 350 - 400	VF505250
500	VF505500

**508** EXTENSION SHAFT FOR A GATE VALVE Ref. 500



DN	LENGTH		
	600 mm.	1000 mm.	1500 mm.
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



## 503 GREY IRON GATE VALVE - METAL SEAT - FLANGED



DN	Nº HOLES x d mm.	CODE
40	4 x 19	VF503040
50	4 x 19	VF503050
65	4 x 19	VF503065
80	8 x 19	VF503080
100	8 x 19	VF503100
125	8 x 19	VF503125
150	8 x 23	VF503150
200	8 x 23	VF503201
250	12 x 23	VF503251
300	12 x 23	VF503301

Flanges: ■ PN 10 ■ PN 10/16

## 504 DUCTILE IRON GATE VALVE METAL SEAT RISING STEM - FLANGED



DN	Nº HOLES x d mm.	CODE
40	4 x 19	VF504040
50	4 x 19	VF504050
65	4 x 19	VF504065
80	8 x 19	VF504080
100	8 x 19	VF504100
125	8 x 19	VF504125
150	8 x 23	VF504150
200	8 x 23	VF504201
200	12 x 23	VF504200
250	12 x 23	VF504251
250	12 x 28	VF504250
300	12 x 23	VF504301
300	12 x 28	VF504300

Flanges: ■ PN 10 ■ PN 16 ■ PN 10/16

## 510 GREY CAST IRON "Y" STRAINER - FLANGED



DN	Nº HOLES x d mm.	CODE
32	4 x 19	VF510032
40	4 x 19	VF510040
50	4 x 19	VF510050
65	4 x 19	VF510065
80	8 x 19	VF510080
100	8 x 19	VF510100
125	8 x 19	VF510125
150	8 x 23	VF510150
200	8 x 23	VF510201
200	12 x 23	VF510200
250	12 x 23	VF510251
250	12 x 28	VF510250
300	12 x 23	VF510301
300	12 x 28	VF510300
350	16 x 28	VF510350
400	16 x 31	VF510400
500	20 x 34	VF510500

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

## 511 DUCTILE IRON "Y" STRAINER - THREADED



Ø	CODE
1/2"	VF511003
3/4"	VF511004
1"	VF511005
1 1/4"	VF511006
1 1/2"	VF511007
2"	VF511008
2 1/2"	VF51100A
3"	VF51100B

## 521 GREY CAST IRON DOUBLE DISC CHECK VALVE - WAFER TYPE



DN	CODE
40	VF521040
50	VF521050
65	VF521065
80	VF521080
100	VF521100
125	VF521125
150	VF521150
200	VF521200
250	VF521250
300	VF521300
350	VF521350
400	VF521400
450	VF521450
500	VF521500
600	VF521600

## 520 GREY CAST IRON DOUBLE DISC CHECK VALVE - WAFER TYPE



DN	CODE
40	VF520040
50	VF520050
65	VF520065
80	VF520080
100	VF520100
125	VF520125
150	VF520150
200	VF520200
250	VF520250
300	VF520300
350	VF520350
400	VF520400
450	VF520450
500	VF520500
600	VF520600

**550 DUCTILE IRON BALL CHECK VALVE - FLANGED**


DN	Nº HOLES x d mm.	CODE
40	4 x 19	VF550040
50	4 x 19	VF550050
65	4 x 19	VF550065
80	8 x 19	VF550080
100	8 x 19	VF550100
125	8 x 19	VF550125
150	8 x 23	VF550150
200	8 x 23	VF550201
200	12 x 23	VF550200
250	12 x 23	VF550251
250	12 x 28	VF550250
300	12 x 23	VF550301
300	12 x 28	VF550300
350	16 x 23	VF550351
350	16 x 28	VF550350
400	16 x 28	VF550401
400	16 x 31	VF550400

**Flanges:**

- PN 10
- PN 10/16
- PN 16

**555 DUCTILE IRON BALL CHECK VALVE - THREADED**


Ø	CODE
1"	VF555005
1 1/4"	VF555006
1 1/2"	VF555007
2"	VF555008
2 1/2"	VF55500A
3"	VF55500B

**530 DUCTILE IRON SWING CHECK VALVE**


DN	Nº HOLES x d mm.	CODE
50	4 x 19	VF530050
65	4 x 19	VF530065
80	8 x 19	VF530080
100	8 x 19	VF530100
125	8 x 19	VF530125
150	8 x 23	VF530150
200	8 x 23	VF530201
200	12 x 23	VF530200
250	12 x 23	VF530251
250	12 x 28	VF530250
300	12 x 23	VF530301
300	12 x 28	VF530300
350	16 x 23	VF530351
350	16 x 28	VF530350
400	16 x 28	VF530401
400	16 x 31	VF530400

**Flanges:**

- PN 10
- PN 10/16
- PN 16

**560 GREY CAST IRON AXIAL DISC CHECK VALVE**


DN	Nº HOLES x d mm.	CODE
50	4 x 19	VF560050
65	4 x 19	VF560065
80	8 x 19	VF560080
100	8 x 19	VF560100
125	8 x 19	VF560125
150	8 x 23	VF560150
200	8 x 23	VF560201
200	12 x 23	VF560200
250	12 x 23	VF560251
250	12 x 28	VF560250
300	12 x 23	VF560301
300	12 x 28	VF560300

**Flanges:**

- PN 10
- PN 10/16
- PN 16

**570 GREY CAST IRON BALL VALVE**


DN	Nº HOLES x d mm.	CODE
15	4 x 14	VF570015
20	4 x 14	VF570020
25	4 x 14	VF570025
32	4 x 19	VF570032
40	4 x 19	VF570040
50	4 x 19	VF570050
65	4 x 19	VF570065
80	8 x 19	VF570080
100	8 x 19	VF570100
125	8 x 19	VF570125
150	8 x 23	VF570150
200	12 x 23	VF570200

**Flanges:**  PN 10/16  PN 16

**565 STRAINER FOR AXIAL DISC CHECK VALVE**


DN	CODE
50	VF565050
65	VF565065
80	VF565080
100	VF565100
125	VF565125
150	VF565150
200	VF565200
250	VF565250
300	VF565300



# 580

## GREY CAST IRON GLOBE VALVE



DN	N° HOLES x d mm.	CODE
15	4 X 14	VF580015
20	4 X 14	VF580020
25	4 X 14	VF580025
32	4 x 19	VF580032
40	4 x 19	VF580040
50	4 x 19	VF580050
65	4 x 19	VF580065
80	8 x 19	VF580080
100	8 x 19	VF580100
125	8 x 19	VF580125
150	8 x 23	VF580150
200	12 x 23	VF580200

Flanges: ■ PN 10/16 ■ PN 16

# 700

## TELESCOPIC DISMANTLING JOINT



DN	Ø	LENGTH mm.	N° HOLES x d mm.	CODE
50	2"	180	4 x 18	VF700050
65	2 1/2"	180	8 x 18	VF700065
80	3"	180	8 x 18	VF700080
100	4"	180	8 x 18	VF700100
125	5"	180	8 x 18	VF700125
150	6"	180	8 x 22	VF700150
200	8"	220	8 x 22	VF700201
200	8"	220	12 x 22	VF700200
250	10"	230	12 x 22	VF700251
250	10"	230	12 x 26	VF700250
300	12"	230	12 x 22	VF700301
300	12"	230	12 x 26	VF700300
350	14"	270	16 x 22	VF700351
350	14"	270	16 x 26	VF700350
400	16"	270	16 x 26	VF700401
400	16"	270	16 x 30	VF700400
500	20"	270	20 x 26	VF700501
500	20"	270	20 x 33	VF700500
600	24"	330	20 x 30	VF700601
600	24"	330	20 x 36	VF700600

Flanges: ■ PN 10 ■ PN 10/16 ■ PN 16

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



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		

# 950/951/960/961/970/971 DUCTILE IRON LUG BUTTERFLY VALVE



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

Flanges:   PN 10   PN 10/16   PN 16

### RUBBER EXPANSION JOINT - DOUBLE WAVE



DN	LENGTH mm.	CODE EPDM
20	200	VSMU0020
25	200	VSMU0025
32	200	VSMU0032
40	200	VSMU0040
50	200	VSMU0050
<b>NEW</b> 65	200	VSMU0065
<b>NEW</b> 80	200	VSMU0080

### RUBBER EXPANSION JOINT - SINGLE WAVE - TYPE FLANGE



DN	LENGTH mm.	CODE EPDM	CODE NBR
32	95	VSMB0032	
40	95	VSMB0040	VSMBN040
50	105	VSMB0050	VSMBN050
65	115	VSMB0065	VSMBN065
80	135	VSMB0080	VSMBN080
100	135	VSMB0100	VSMBN100
125	165	VSMB0125	VSMBN125
150	180	VSMB0150	VSMBN150
200	205	VSMB1200	
200	205	VSMB0200	VSMBN200
250	240	VSMB1250	
250	240	VSMB0250	VSMBN250
300	260	VSMB1300	
300	260	VSMB0300	
350	265	VSMB0350	
400	265	VSMB0400	

Flanges:

PN 10

PN 16



### METALLIC VIBRATION ABSORBER - WELDED ENDS



DN	LENGTH mm.	CODE
25	250	VSMUM025
32	350	VSMUM032
40	350	VSMUM040
50	350	VSMUM050
65	350	VSMUM065
80	350	VSMUM080
100	350	VSMUM100
125	350	VSMUM125
150	350	VSMUM150
200	350	VSMUM200

### METALLIC VIBRATION ABSORBER



DN	LENGTH mm.	CODE
25	120	VSMBM025
32	125	VSMBM032
40	130	VSMBM040
50	120	VSMBM050
65	120	VSMBM065
80	120	VSMBM080
100	130	VSMBM100
125	140	VSMBM125
150	155	VSMBM150
200	150	VSMBM200
250	200	VSMBM250

### RUBBER EXPANSION JOINT



DN	LENGTH mm.	HOLES	CODE
20	71	4	VSMG0020
25	71	4	VSMG0025
32	71	4	VSMG0032
40	71	4	VSMG0040
50	71	4	VSMG0050
65	71	4	VSMG0065
80	71	8	VSMG0080
100	71	8	VSMG0100
125	71	8	VSMG0125
150	71	8	VSMG0150
200	91	8	VSMG0200

**770 DUCTILE IRON UNIVERSAL COUPLING**


DN	CODE
40	VF770040
50	VF770050
65	VF770065
80	VF770080
100	VF770101
100	VF770100
125	VF770125
150	VF770150
175	VF770175
200	VF770200
225	VF770225
250	VF770250
300	VF770300

**720 DUCTILE IRON SADDLE FOR PVC / PE PIPE**


Ø EXT PIPE mm.	THREADED OUTLET	CODE
50	3/4"	VF720504
	1"	VF720505
63	3/4"	VF720634
	1"	VF720635
	1 1/4"	VF720636
	1 1/2"	VF720637
75	2"	VF720638
	3/4"	VF720754
	1"	VF720755
	1 1/4"	VF720756
90	1 1/2"	VF720757
	2"	VF720758
	3/4"	VF720904
	1"	VF720905
110	1 1/4"	VF720906
	1 1/2"	VF720907
	2"	VF720908
	3/4"	VF721104
125	1"	VF721105
	1 1/4"	VF721106
	1 1/2"	VF721107
	2"	VF721108
140	3/4"	VF721254
	1"	VF721255
	1 1/4"	VF721256
	1 1/2"	VF721257
160	2"	VF721258
	2 1/2"	VF72125A
	3"	VF72125B
	1"	VF721405
200	1 1/4"	VF721406
	1 1/2"	VF721407
	2"	VF721408
	2 1/2"	VF72140A
250	3"	VF72140B
	1"	VF721605
	1 1/4"	VF721606
	1 1/2"	VF721607
315	2"	VF721608
	3"	VF72160B
	1"	VF722005
	1 1/4"	VF722006
300	1 1/2"	VF722007
	2"	VF722008
	3"	VF72200B
	1"	VF722505
300	1 1/2"	VF722507
	2"	VF722508
	3"	VF72250B
315	2"	VF723158
	3"	VF72315B

**780 DUCTILE IRON UNIVERSAL FLANGE ADAPTOR**


DN	CODE
50	VF780050
65	VF780065
80	VF780080
100	VF780101
100	VF780100
125	VF780125
150	VF780150
200	VF780175
200	VF780200
250	VF780225
250	VF780250
300	VF780300

## 730 DUCTILE IRON COUPLING FOR PE PIPE



DN	CODE
63	VF730063
75	VF730075
90	VF730090
110	VF730110
125	VF730125
140	VF730140
160	VF730160
200	VF730200
250	VF730250
315	VF730315

## 740 DUCTILE IRON FLANGE ADAPTER FOR PE PIPE



DN	Ø mm.	CODE
50/65	63	VF740063
65	75	VF740075
80	90	VF740090
100	110	VF740110
125	125	VF740125
125	140	VF740140
150	160	VF740160
200	200	VF740200
250	250	VF740250
300	315	VF740315

## 750 DUCTILE IRON FLANGE ADAPTER FOR PE PIPE



DN	Ø mm.	CODE
50/65	63	VF750063
65	75	VF750075
80	90	VF750090
100	110	VF750110
125	125	VF750125
125	140	VF750140
150	160	VF750160
200	200	VF750200

## 760 DUCTILE IRON FLANGE ADAPTER FOR PVC PIPE



DN	Ø mm.	CODE
50/65	63	VF760063
65	75	VF760075
80	90	VF760090
100	110	VF760110
125	125	VF760125
125	140	VF760140
150	160	VF760160
200	200	VF760200

## 710/D DUCTILE IRON GIBALT COUPLING FOR PVC PIPE



DN	CODE
63	VF71D063
75	VF71D075
90	VF71D090
110	VF71D110
125	VF71D125
140	VF71D140
160	VF71D160
180	VF71D180
200	VF71D200
250	VF71D250
315	VF71D315

## 710 GREY CAST IRON GIBALT COUPLING FOR PVC PIPE



Ø mm.	CODE
50	VF710050
63	VF710063
75	VF710075
90	VF710090
110	VF710110
125	VF710125
140	VF710140
160	VF710160
180	VF710180
200	VF710200
250	VF710250
315	VF710315
400	VF710400
500	VF710500



## 790 GREY CAST IRON SADDLE FOR PVC PIPE

DN	Ø	CODE	DN	Ø	CODE
40	3/4"	VF790404	125	2 1/2"	VF79125A
	1"	VF790405		3"	VF79125B
50	3/4"	VF790504	140	1"	VF791405
	1"	VF790505		1 1/4"	VF791406
63	3/4"	VF790634		1 1/2"	VF791407
	1"	VF790635		2"	VF791408
	1 1/4"	VF790636		2 1/2"	VF79140A
75	3/4"	VF790754		3"	VF79140B
	1"	VF790755	160	1"	VF791605
	1 1/4"	VF790756		1 1/4"	VF791606
90	3/4"	VF790904		1 1/2"	VF791607
	1"	VF790905		2"	VF791608
	1 1/4"	VF790906		2 1/2"	VF79160A
	1 1/2"	VF790907		3"	VF79160B
	2"	VF790908	200	1"	VF792005
110	3/4"	VF791104		1 1/4"	VF792006
	1"	VF791105		1 1/2"	VF792007
	1 1/4"	VF791106		2"	VF792008
	1 1/2"	VF791107		2 1/2"	VF79200A
	2"	VF791108		3"	VF79200B
	2 1/2"	VF79110A	250	2"	VF792508
125	3/4"	VF791254		2 1/2"	VF79250A
	1"	VF791255		3"	VF79250B
	1 1/4"	VF791256	315	2"	VF793158
	1 1/2"	VF791257		2 1/2"	VF79315A
	2"	VF791258		3"	VF79315B

## 790/I GREY CAST IRON SADDLE FOR PVC PIPE WITH STAINLESS STEEL BOLTS



DN	Ø	CODE
50	3/4"	VF7I0504
	1"	VF7I0505
63	3/4"	VF7I0634
	1"	VF7I0635
75	3/4"	VF7I0754
	1"	VF7I0755
90	3/4"	VF7I0904
	1"	VF7I0905
110	3/4"	VF7I1104
	1"	VF7I1105
125	3/4"	VF7I1254
	1"	VF7I1255
140	1"	VF7I1405
160	1"	VF7I1605

## REPAIR CLAMPS

### SINGLE BAND



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 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



### 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



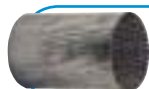
### 506 WEDGE for Ref. 500

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

### 990 GEAR OPERATOR for Ref. 901, 911, 931, 951, 961 and 971



DN	CODE
40 - 50 - 65	VF990050
80 - 100	VF990080
125 - 150	VF990125
200	VF990200
250	VF990250
300	VF990300
350	VF990350
400	VF990400
500	VF990500



### 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



### 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

### 991 LEVER for Ref. 900, 910, 930, 950, 960 and 970



DN	CODE
40 - 50 - 65	VF991050
80 - 100	VF991080
125 - 150	VF991125
200	VF991200
250 - 300	VF991250



### 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



### 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



### 517 PLUG for Ref. 510

DN	CODE
40 - 50 - 65 80 - 100 125 - 150	VF517040
200 - 250 - 300	VF517200
350 - 400 - 500	VF517350



### 719 GASKET for GIBALTO 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

## 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.



 **ATUSA**

**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 ( $\pm 5$ ) 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.





## 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 to 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



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

# A 910 WAFER BUTTERFLY ACTUATED VALVE



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	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



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



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
350	AS900350	350	AD900350
400	AS900400	400	AD900400
500	AS900500	500	AD900500

# A 950 LUG BUTTERFLY ACTUATED VALVE



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	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



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



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

# A 970 LUG BUTTERFLY ACTUATED VALVE



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	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



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



## ALIMENTARY ACTUATED VALVES

### A 570 ACTUATED BALL VALVE



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 THREAD / THREAD



PNEUMATIC ACTUATOR				ELECTRIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING		SINGLE RETURN		DOUBLE ACTING	
DN	CODE	DN	CODE	DN	CODE	DN	CODE
25	AS90E025	25	AD90E025	25	AB90E025	25	AA90E025
32	AS90E032	32	AD90E032	32	AB90E032	32	AA90E032
40	AS90E040	40	AD90E040	40	AB90E040	40	AA90E040
50	AS90E050	50	AD90E050	50	AB90E050	50	AA90E050
65	AS90E065	65	AD90E065	65	AB90E065	65	AA90E065
80	AS90E080	80	AD90E080	80	AB90E080	80	AA90E080
100	AS90E100	100	AD90E100	100	AB90E100	100	AA90E100

### A 91E THREAD / WELD



PNEUMATIC ACTUATOR				ELECTRIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING		SINGLE RETURN		DOUBLE ACTING	
DN	CODE	DN	CODE	DN	CODE	DN	CODE
25	AS91E025	25	AD91E025	25	AB91E025	25	AA91E025
32	AS91E032	32	AD91E032	32	AB91E032	32	AA91E032
40	AS91E040	40	AD91E040	40	AB91E040	40	AA91E040
50	AS91E050	50	AD91E050	50	AB91E050	50	AA91E050
65	AS91E065	65	AD91E065	65	AB91E065	65	AA91E065
80	AS91E080	80	AD91E080	80	AB91E080	80	AA91E080
100	AS91E100	100	AD91E100	100	AB91E100	100	AA91E100

### A 92E WELD / WELD



PNEUMATIC ACTUATOR				ELECTRIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING		SINGLE RETURN		DOUBLE ACTING	
DN	CODE	DN	CODE	DN	CODE	DN	CODE
25	AS92E025	25	AD92E025	25	AB92E025	25	AA92E025
32	AS92E032	32	AD92E032	32	AB92E032	32	AA92E032
40	AS92E040	40	AD92E040	40	AB92E040	40	AA92E040
50	AS92E050	50	AD92E050	50	AB92E050	50	AA92E050
65	AS92E065	65	AD92E065	65	AB92E065	65	AA92E065
80	AS92E080	80	AD92E080	80	AB92E080	80	AA92E080
100	AS92E100	100	AD92E100	100	AB92E100	100	AA92E100



## A I2PR TWO PIECES ACTUATED BALL VALVE WITH FULL BORE – THREADED



PNEUMATIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING	
Ø	CODE	Ø	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

## A I3PR THREE PIECES ACTUATED BALL VALVE WITH FULL BORE SOCKET WELD



PNEUMATIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING	
Ø	CODE	Ø	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	
Ø	CODE	Ø	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



ELECTRIC ACTUATOR			
LOW VOLTAGE		HIGH VOLTAGE	
Ø	CODE	Ø	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



PNEUMATIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING	
Ø	CODE	Ø	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

# A I3PS

THREE PIECES ACTUATED BALL VALVE WITH FULL BORE SOCKET WELD



PNEUMATIC ACTUATOR			
SINGLE RETURN		DOUBLE ACTING	
Ø	CODE	Ø	CODE
1/2"	ASI3PS63	1/2"	ADI3PS63
3/4"	ASI3PS64	3/4"	ADI3PS64
1"	ASI3PS65	1"	ADI3PS65
1 1/4"	ASI3PS66	1 1/4"	ADI3PS66
1 1/2"	ASI3PS67	1 1/2"	ADI3PS67
2"	ASI3PS68	2"	ADI3PS68
2 1/2"	ASI3PS69	2 1/2"	ADI3PS69
3"	ASI3PS6A	3"	ADI3PS6A
4"	ASI3PS6C	4"	ADI3PS6C



ELECTRIC ACTUATOR			
LOW VOLTAGE		HIGH VOLTAGE	
Ø	CODE	Ø	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



ELECTRIC ACTUATOR			
LOW VOLTAGE		HIGH VOLTAGE	
Ø	CODE	Ø	CODE
1/2"	ABI3PS63	1/2"	AAI3PS63
3/4"	ABI3PS64	3/4"	AAI3PS64
1"	ABI3PS65	1"	AAI3PS65
1 1/4"	ABI3PS66	1 1/4"	AAI3PS66
1 1/2"	ABI3PS67	1 1/2"	AAI3PS67
2"	ABI3PS68	2"	AAI3PS68
2 1/2"	ABI3PS69	2 1/2"	AAI3PS69
3"	ABI3PS6A	3"	AAI3PS6A
4"	ABI3PS6C	4"	AAI3PS6C

# A I3VT/I3VL

THREE WAYS ACTUATED BALL VALVE - "T" & "L" TYPES



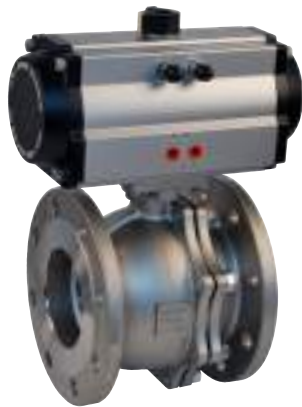
PNEUMATIC ACTUATOR					
SINGLE RETURN			DOUBLE ACTING		
Ø	CODE T	CODE L	Ø	CODE T	CODE L
1/4"	ASI3VT61	ASI3VL61	1/4"	ADI3VT61	ADI3VL61
3/8"	ASI3VT62	ASI3VL62	3/8"	ADI3VT62	ADI3VL62
1/2"	ASI3VT63	ASI3VL63	1/2"	ADI3VT63	ADI3VL63
3/4"	ASI3VT64	ASI3VL64	3/4"	ADI3VT64	ADI3VL64
1"	ASI3VT65	ASI3VL65	1"	ADI3VT65	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



### 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

**ACCESSORIES**


## YT-3300 R DIGITAL ELECTROPNEUMATIC POSITIONER

Aluminum / IP66 / DC 4-20mA / standard operation -30° C a 85° C / 1,4-7,0 bar / 2.8 kg. Consult options (stainless steel housing, communication HART, PTM load, tamper switch, extra low T<sup>a</sup>).

CODE

ACPOSI01



## YT-1000 R ELECTROPNEUMATIC POSITIONER

Aluminum / IP66 / DC 4-20mA / standard operation -20° C a 70° C / 1,4-7,0 bar / 2.8 kg. Consult options (stainless steel housing, PTM load, tamper switch, high-low T<sup>a</sup>, 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. Consult options (stainless steel housing, high-low T<sup>a</sup>, PTM-SVR 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



## SPEED CONTROL MODULE PNEUMATIC ACTUATOR

CODE

ACPLAC01





**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.

Consult 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. Consult options (micro SPDT, inductive detectors). Other tamper switch please consult.

CODE
ACFINC02

**SOLENOID VALVES**

**5/2**

VOLTAGE*	CODE
24V DC	ACEV5201
24V AC	ACEV5202
220V AC	ACEV5203



**5 WAY BISTABLE**

VOLTAGE*	CODE
24V DC	ACEVB101
24V AC	ACEVB102
220V AC	ACEVB103



**3/2**

VOLTAGE*	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.







**BALL VALVES**

**55** F/F VALVE - PN 25



Ø		BLUE CODE
1/2"	100 10	VS055003
3/4"	80 10	VS055004
1"	64 8	VS055005
1 1/4"	32 8	VS055006
1 1/2"	24 6	VS055007
2"	12 3	VS055008
2 1/2"	4 2	VS05500A
3"	4 2	VS05500B
4"	2 1	VS05500C

**55R** F/F VALVE - PN 25



Ø		RED CODE
1/2"	100 10	VSR05503
3/4"	80 10	VSR05504
1"	64 8	VSR05505
1 1/4"	32 8	VSR05506
1 1/2"	24 6	VSR05507
2"	12 3	VSR05508
2 1/2"	4 2	VSR0550A
3"	4 2	VSR0550B
4"	2 1	VSR0550C

**54** M/F VALVE - PN 25



Ø		BLUE CODE
1/2"	100 10	VS054003
3/4"	80 10	VS054004
1"	64 8	VS054005
1 1/4"	32 8	VS054006
1 1/2"	24 6	VS054007
2"	12 3	VS054008

**54R** M/F VALVE - PN 25



Ø		RED CODE
1/2"	100 10	VSR05403
3/4"	80 10	VSR05404
1"	64 8	VSR05405
1 1/4"	32 8	VSR05406
1 1/2"	24 6	VSR05407
2"	12 3	VSR05408

**355** F/F VALVE - PN 25



Ø		BLUE CODE
1/2"	100 10	VS355003
3/4"	80 10	VS355004
1"	64 8	VS355005

**355R** F/F VALVE - PN 25



Ø		RED CODE
1/2"	100 10	VSR35503
3/4"	80 10	VSR35504
1"	64 8	VSR35505

**354** M/F VALVE - PN 25



Ø		BLUE CODE
1/2"	100 10	VS354003
3/4"	80 10	VS354004
1"	64 8	VS354005

**354R** M/F VALVE - PN 25



Ø		RED CODE
1/2"	100 10	VSR35403
3/4"	80 10	VSR35404
1"	64 8	VSR35405

# 40

## F/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		BLUE CODE
1/4"	150	15	VS040001
3/8"	150	15	VS040002
1/2"	80	10	VS040003
3/4"	48	6	VS040004
1"	32	4	VS040005
1 1/4"	24	6	VS040006
1 1/2"	16	4	VS040007
2"	8	2	VS040008
2 1/2"	4	1	VS04000A
3"	4	1	VS04000B
4"	3	1	VS04000C

# 50

## F/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		RED CODE
1/4"	150	15	VS050001
3/8"	150	15	VS050002
1/2"	80	10	VS050003
3/4"	48	6	VS050004
1"	32	4	VS050005
1 1/4"	24	6	VS050006
1 1/2"	16	4	VS050007
2"	8	2	VS050008
2 1/2"	4	1	VS05000A
3"	4	1	VS05000B
4"	3	1	VS05000D

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## M/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		BLUE CODE
3/8"	150	15	VS046002
1/2"	80	8	VS046003
3/4"	48	6	VS046004
1"	32	4	VS046005
1 1/4"	24	6	VS046006
1 1/2"	16	4	VS046007
2"	8	2	VS046008

# 56

## M/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		RED CODE
3/8"	150	15	VS056002
1/2"	80	8	VS056003
3/4"	48	6	VS056004
1"	32	4	VS056005
1 1/4"	24	6	VS056006
1 1/2"	16	4	VS056007
2"	8	2	VS056008

# 340

## F/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		BLUE CODE
3/8"	150	15	VS340002
1/2"	90	9	VS340003
3/4"	80	8	VS340004
1"	40	5	VS340005

# 350

## F/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		RED CODE
3/8"	150	15	VS350002
1/2"	90	9	VS350003
3/4"	80	8	VS350004
1"	40	5	VS350005

# 346

## M/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		BLUE CODE
3/8"	150	15	VS346002
1/2"	90	9	VS346003
3/4"	80	8	VS346004
1"	32	4	VS346005

# 356

## M/F VALVE - PN 30



ANTI ICE SYSTEM



Ø	Box		RED CODE
3/8"	150	15	VS356002
1/2"	90	9	VS356003
3/4"	80	8	VS356004
1"	32	4	VS356005



**57** M/M VALVE - PN 30



ANTI ICE SYSTEM



Ø			CODE
1/2"	80	8	VS057003
3/4"	48	6	VS057004
1"	32	4	VS057005
1 1/4"	24	6	VS057006
1 1/2"	16	4	VS057007
2"	8	2	VS057008

**357** M/M VALVE - PN 30



ANTI ICE SYSTEM



Ø			CODE
1/2"	80	8	VS357003
3/4"	70	7	VS357004
1"	32	4	VS357005

**50/I** F/F VALVE STAINLESS STEEL HANDLE - PN 30



ANTI ICE SYSTEM



Ø			CODE
1/4"	150	15	VSS01001
3/8"	150	15	VSS01002
1/2"	80	10	VSS01003
3/4"	48	6	VSS01004
1"	32	4	VSS01005
1 1/4"	24	6	VSS01006
1 1/2"	16	4	VSS01007
2"	8	2	VSS01008

**65** F/F VALVE WITH AIR VENT AND PLUG - PN 30



Ø			CODE
1/2"	40	4	VS065003
3/4"	24	6	VS065004
1"	24	6	VS065005
1 1/4"	16	4	VS065006
1 1/2"	6	2	VS065007
2"	6	2	VS065008

**10** F/F VALVE STAINLESS STEEL HANDLE - PN 40



Ø			CODE
1/4"	150	15	VS010001
3/8"	150	15	VS010002
1/2"	56	7	VS010003
3/4"	48	6	VS010004
1"	24	6	VS010005
1 1/4"	16	4	VS010006
1 1/2"	8	2	VS010007
2"	8	2	VS010008

**58** F/F VALVE WITH SEALABLE SQUARE CAP - PN 25



Ø			CODE
1/2"	90	9	VS058003
3/4"	80	8	VS058004
1"	48	6	VS058005
1 1/4"	32	4	VS058006
1 1/2"	16	4	VS058007
2"	8	2	VS058008

**59** FEMALE VALVE WITH SQUARE CAP - PN 25



Ø			CODE
1/2"	80	10	VS059003
3/4"	48	6	VS059004
1"	36	9	VS059005
1 1/4"	24	6	VS059006
1 1/2"	16	4	VS059007
2"	8	2	VS059008

**620** M/F VALVE WITH 2 PCS CONNECTOR - PN 25



Ø			CODE
1/2"	70	7	VS620003
3/4"	60	6	VS620004
1"	32	4	VS620005
1 1/4"	24	6	VS620006

## 360 F/F VALVE WITH CHECK VALVE PN 16



Ø	Box		CODE
1/2"	90	9	VS360003
3/4"	70	7	VS360004
1"	32	4	VS360005

## 361 F/F VALVE SLIDING NUT WITH CHECK VALVE - PN 16



Ø	Box		CODE
1/2"	100	10	VS361003
3/4"	60	6	VS361004
1"	48	6	VS361005

## 1011 MINI F/F VALVE - PN 16



Ø	Box		BLUE CODE
1/8"	200	20	VS101100
1/4"	200	20	VS101101
3/8"	200	20	VS101102
1/2"	160	16	VS101103
3/4"	100	10	VS101104

## 1011R MINI F/F VALVE - PN 16



Ø	Box		RED CODE
1/8"	200	20	VSR10110
1/4"	200	20	VSR10111
3/8"	200	20	VSR10112
1/2"	160	16	VSR10113
3/4"	100	10	VSR10114

## 1012 MINI M/F VALVE - PN 16



Ø	Box		BLUE CODE
1/8"	200	20	VS101200
1/4"	200	20	VS101201
3/8"	200	20	VS101202
1/2"	160	16	VS101203
3/4"	100	10	VS101204

## 1012R MINI M/F VALVE - PN 16



Ø	Box		RED CODE
1/8"	200	20	VSR10120
1/4"	200	20	VSR10121
3/8"	200	20	VSR10122
1/2"	160	16	VSR10123
3/4"	100	10	VSR10124

## 30/S WELDING VALVE - PN 30



Ø	Box		CODE
15 mm.	64	8	VS30S315
18 mm.	64	8	VS30S418
22 mm.	48	6	VS30S422
28 mm.	32	4	VS30S528
35 mm.	16	4	VS30S635
42 mm.	8	2	VS30S742
54 mm.	4	1	VS30S854

## 330/S WELDING VALVE - PN 30



Ø	Box		CODE
15 mm.	64	8	VS33S315
18 mm.	64	8	VS33S418
22 mm.	48	6	VS33S422

**1302** 3 - WAYS VALVE "L" TYPE - PN 16



Ø	Box		CODE
1/4"	24	6	VS130201
3/8"	24	6	VS130202
1/2"	24	6	VS130203
3/4"	15	5	VS130204
1"	12	4	VS130205
1 1/4"	9	3	VS130206
1 1/2"	4	1	VS130207
2"	2	1	VS130208

**1303** 3 - WAYS VALVE "T" TYPE - PN 16



Ø	Box		CODE
1/4"	24	6	VS130301
3/8"	24	6	VS130302
1/2"	24	6	VS130303
3/4"	15	5	VS130304
1"	12	4	VS130305
1 1/4"	9	3	VS130306
1 1/2"	4	1	VS130307
2"	2	1	VS130308

**41** BIBCOCK VALVE, ALUMINUM HANDLE, QUICK CONNECTOR - PN 20



ANTI ICE SYSTEM



Ø	Box		CODE
1/2" x 3/4"	64	8	VS041003
3/4" x 1"	48	6	VS041004
1" x 1"	32	4	VS041005

**42** BIBCOCK VALVE WITH TWO OUTLETS, QUICK CONNECTOR - PN 16



ANTI ICE SYSTEM



Ø	Box		CODE
1/2" x 3/4" x 3/4"	36	9	VS042344

**43** BIBCOCK VALVE, STAINLESS STEEL HANDLE, QUICK CONNECTOR - PN 16



ANTI ICE SYSTEM



Ø	Box		CODE
1/2" x 3/4"	80	10	VS043003
3/4" x 1"	48	6	VS043004
1" x 1 1/4"	32	4	VS043005

**44** BIBCOCK VALVE - PN 16



ANTI ICE SYSTEM



Ø	Box		CODE
1/2" x 1/2"	80	10	VS044033
1/2" x 3/4"	80	10	VS044003
3/4" x 3/4"	48	6	VS044044
3/4" x 1"	48	6	VS044004
1" x 1 1/4"	32	4	VS044005

**45** BIBCOCK VALVE - PN 16



ANTI ICE SYSTEM



Ø	Box		CODE
1/2" x 3/4"	80	10	VS045003
3/4" x 1"	48	6	VS045004
1" x 1 1/4"	32	4	VS045005

**519** BOILER DRAIN VALVE



Ø	Box		CODE
1/2"	64	8	VS519003

## 800 GARDEN HOSE BOX



Ø		CODE
1/2" / 3/4" x 3/4"	2 1	VS800044
1/2" / 3/4" x 1"	2 1	VS800045

## 88 VERTICAL WATER HYDRANT VALVE



Ø		CODE
3/4" x 3/4"	48 6	VS088044
3/4" x 1"	48 6	VS088045

## 60 ANGLE VALVE



Ø		CODE
1/2" x 3/8"	160 2	VS060002
1/2" x 1/2"	160 2	VS060003

## 60L LONG ANGLE VALVE



Ø		CODE
1/2" x 3/8"	136 2	VS060L02

## 66 ANGLE VALVE WITH STRAINER



Ø		CODE
1/2" x 3/8"	138 2	VS066002
1/2" x 1/2"	138 2	VS066003
1/2" x 3/4"	138 2	VS066004

## 1100 WASHING MACHINE ANGLE VALVE



Ø	Ø mm.		CODE
1/2" x 3/4"	9	95 1	VS110034

## 1110 WASHING MACHINE ANGLE VALVE



Ø		CODE
1/2" x 3/4"	90 1	VS111034

## 1200 DOUBLE WASHING MACHINE VALVE



Ø		CODE
1/2" x 3/4" x 3/4"	48 6	VS120003

## 1300 MIXED VALVE WASHING MACHINE WASHBASIN



Ø		CODE
1/2" x 3/4" x 3/8"	36 1	VS130342



CHECK VALVES, FOOT CHECK VALVES AND FILTERS

130 CHECK VALVE



Ø	Box	CODE
3/8"	144 24	VS130002
1/2"	120 20	VS130003
3/4"	72 12	VS130004
1"	48 8	VS130005
1 1/4"	24 6	VS130006
1 1/2"	16 4	VS130007
2"	8 2	VS130008
2 1/2"	8 1	VS13000A
3"	6 1	VS13000B
4"	2 1	VS13000C

131 HEAVY TYPE CHECK VALVE



Ø	Box	CODE
1/2"	90 15	VS131003
3/4"	48 12	VS131004
1"	36 9	VS131005
1 1/4"	24 6	VS131006
1 1/2"	8 2	VS131007
2"	8 2	VS131008
2 1/2"	6 1	VS13100A
3"	4 1	VS13100B
4"	3 1	VS13100C

130/A FOOT CHECK VALVE



Ø	Box	CODE
1/2"	72 12	VS130A03
3/4"	48 12	VS130A04
1"	40 10	VS130A05
1 1/4"	12 3	VS130A06
1 1/2"	12 3	VS130A07
2"	6 3	VS130A08
2 1/2"	9 1	VS130A0A
3"	8 1	VS130A0B
4"	5 1	VS130A0C

611 STAINLESS STEEL STRAINER FOR CHECK VALVE



Ø	Box	CODE
1/2"	250 25	VS611003
3/4"	140 14	VS611004
1"	88 11	VS611005
1 1/4"	48 6	VS611006
1 1/2"	40 5	VS611007
2"	24 6	VS611008
2 1/2"	24 1	VS61100A
3"	8 1	VS61100B
4"	6 1	VS61100C

155 METAL SWING CHECK VALVE



Ø	Box	CODE
1/2"	72 12	VS155003
3/4"	60 10	VS155004
1"	24 6	VS155005
1 1/4"	20 5	VS155006
1 1/2"	16 4	VS155007
2"	8 1	VS155008
2 1/2"	5 1	VS15500A
3"	7 1	VS15500B
4"	4 1	VS15500C

155/A RUBBER SWING CHECK VALVE



Ø	Box	CODE
1/2"	72 12	VS155A03
3/4"	60 10	VS155A04
1"	24 6	VS155A05
1 1/4"	20 5	VS155A06
1 1/2"	16 4	VS155A07
2"	8 1	VS155A08
2 1/2"	5 1	VS155A0A
3"	7 1	VS155A0B
4"	4 1	VS155A0C

205 "Y" BRASS STRAINER



Ø	Box	CODE
3/8"	144 12	VS205002
1/2"	72 12	VS205003
3/4"	40 10	VS205004
1"	36 9	VS205005
1 1/4"	16 4	VS205006
1 1/2"	12 2	VS205007
2"	8 1	VS205008
2 1/2"	4 1	VS20500A
3"	6 1	VS20500B
4"	2 1	VS20500C

196 FOOT CHECK VALVE



Ø	Box	CODE
1/2"	60 15	VS196003
3/4"	48 12	VS196004
1"	36 6	VS196005
1 1/4"	20 5	VS196006
1 1/2"	12 3	VS196007
2"	8 2	VS196008
2 1/2"	8 1	VS19600A
3"	8 1	VS19600B
4"	5 1	VS19600C



## SAFETY VALVES

### 560 ANGLE SAFETY VALVE



Ø	Box		CODE
1/2"	50	1	VSS60003
3/4"	40	1	VSS60004
1"	25	1	VSS60005
1 1/4"	15	1	VSS60006
1 1/2"	10	1	VSS60007
2"	5	1	VSS60008
2 1/2"	2	1	VSS6000A
3"	2	1	VSS6000B

### 701 SAFETY VALVE FOR WATER HEATER M-F ADJUSTABLE



WITHOUT HANDLE



WITH HANDLE



Ø	Box		CODE
1/2"	250	25	VS701R03
1/2"	180	20	VS701RP3

### 702 SAFETY VALVE FOR WATER HEATER M-F



Ø	Box		CODE
1/2"	250	25	VS702003
3/4"	90	10	VS702004

### 703 SAFETY VALVE FOR WATER HEATER WITH HANDLE M-F



Ø	Box		CODE
1/2"	180	20	VS703003
3/4"	90	10	VS703004

### 705 DIAPHRAGM SAFETY VALVE F-F



Ø	Box		CODE
1/2"	108	12	VS705033
1/2"	108	12	VS705073

### 706 DIAPHRAGM SAFETY VALVE M-F



Ø	Box		CODE
1/2"	108	12	VS706033
1/2"	108	12	VS706073

### 707 DIAPHRAGM SAFETY VALVE M-F WITH ATTACK MANOMETER



Ø	Box		CODE
1/2"	90	10	VS707033

### 709 DOUBLE FUNCTION SAFETY VALVE TEMPERATURE AND PRESSURE



Ø	Box		CODE
1/2" M x Ø15	24	1	VS709335
3/4" M x Ø22	24	1	VS709342

PRESSURE REDUCERS

**140** PISTON PRESSURE REDUCING VALVE



Ø		CODE
1/2"	50 1	RP140003
3/4"	50 1	RP140004

**143** PISTON PRESSURE REDUCING VALVE



Ø		CODE
1/2"	25 1	RP143003
3/4"	20 1	RP143004
1"	15 1	RP143005
1 1/4"	6 1	RP143006
1 1/2"	6 1	RP143007
2"	4 1	RP143008
2 1/2"	4 1	RP14300A
3"	3 1	RP14300B
4"	2 1	RP14300C

**146** PRESSURE REDUCING VALVE PISTON WITH DISMANTLING FITTINGS FEMALE



Ø		CODE
1/2"	20 1	RP146003
3/4"	10 1	RP146004
1"	10 1	RP146005
1 1/4"	6 1	RP146006
1 1/2"	6 1	RP146007
2"	3 1	RP146008

**148** PRESSURE REDUCING VALVE PISTON



Ø		CODE
1/2"	25 1	RP148003
3/4"	20 1	RP148004
1"	15 1	RP148005
1 1/4"	6 1	RP148006
1 1/2"	6 1	RP148007
2"	4 1	RP148008
2 1/2"	4 1	RP14800A

**149** PRESSURE REDUCING VALVE PISTON - FLANGED



Ø		CODE
50	2 1	RP149050
65	2 1	RP149065
80	2 1	RP149080
100	1 1	RP149100

**156** SELF CLEANING FILTER, 100 MICRON SCREEN



Ø		CODE
1/2"	10 1	RP156003
3/4"	10 1	RP156004
1"	6 1	RP156005
1 1/4"	6 1	RP156006
1 1/2"	6 1	RP156007
2"	6 1	RP156008

**145** STOPSHOCK VALVE



Ø		CODE
1/2"	50 1	RP145003

## GATE AND GLOBE VALVES

### 150/G RUBBER WEDGE GATE VALVE



Ø	Box	Code
1/2"	96 12	VS150G03
3/4"	64 8	VS150G04
1"	48 6	VS150G05
1 1/4"	28 7	VS150G06
1 1/2"	12 3	VS150G07
2"	12 3	VS150G08
2 1/2"	3 1	VS150G0A
3"	3 1	VS150G0B
4"	2 1	VS150G0C

### 150 BRASS GATE VALVE



Ø	Box	Code
3/8"	96 12	VS150002
1/2"	48 12	VS150003
3/4"	48 12	VS150004
1"	32 8	VS150005
1 1/4"	24 4	VS150006
1 1/2"	12 3	VS150007
2"	8 2	VS150008
2 1/2"	10 1	VS15000A
3"	8 1	VS15000B
4"	4 1	VS15000C

### 172 BRONZE GATE VALVE



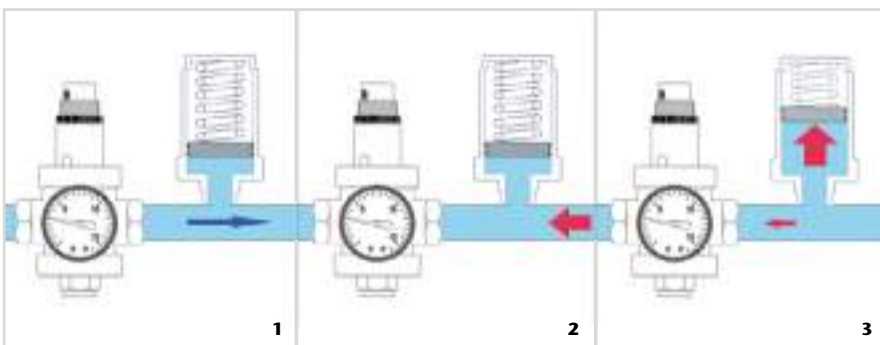
Ø	Box	Code
1/2"	160 20	VS172003
3/4"	100 20	VS172004
1"	80 10	VS172005
1 1/4"	40 10	VS172006
1 1/2"	35 5	VS172007
2"	25 5	VS172008
2 1/2"	14 1	VS17200A
3"	12 1	VS17200B
4"	6 1	VS17200D

### 173 STRAIGHT PATTERN GLOBE VALVE



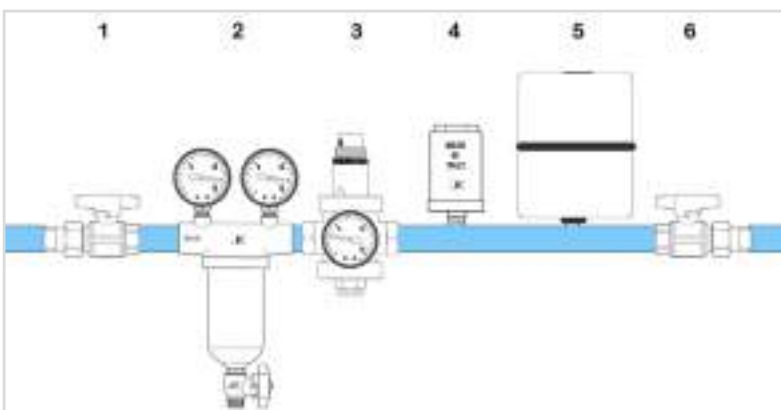
Ø	Box	Code
1/2"	60 6	VS173003
3/4"	50 5	VS173004
1"	24 3	VS173005
1 1/4"	16 4	VS173006
1 1/2"	8 2	VS173007
2"	8 1	VS173008

## 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

**PRESSURE GAUGES**

Possibility of  
PERSONALIZATION



# 400

Ø 50 PRESSURE GAUGE WITH CARBON STEEL CASE



PRESSURE RATING		CODE
0 - 2	125 1	VS400002
0 - 4	125 1	VS400004
0 - 6	125 1	VS400006
0 - 10	125 1	VS400010
0 - 16	125 1	VS400016



# 410

Ø 50 PRESSURE GAUGE WITH CARBON STEEL CASE - BRASS PLUG



PRESSURE RATING		CODE
0 - 2	180 1	VS410002
0 - 4	180 1	VS410004
0 - 6	180 1	VS410006
0 - 10	180 1	VS410010
0 - 16	180 1	VS410016



# 420

Ø 63 PRESSURE GAUGE WITH CARBON STEEL CASE - BRASS PLUG



PRESSURE RATING		CODE
0 - 2	120 1	VS420002
0 - 4	120 1	VS420004
0 - 6	120 1	VS420006
0 - 10	120 1	VS420010
0 - 16	120 1	VS420016



# 432

Ø 63 PRESSURE GAUGE WITH GLYCERINE - AISI 304 STAINLESS STEEL CASE



PRESSURE RATING		CODE
0 - 2	64 1	VS432002
0 - 4	64 1	VS432004
0 - 6	64 1	VS432006
0 - 10	64 1	VS432010
0 - 16	64 1	VS432016
0 - 25	64 1	VS432025
0 - 60	64 1	VS432060
0 - 100	64 1	VS432100



# 430

Ø 63 PRESSURE GAUGE WITH GLYCERINE - AISI 304 STAINLESS STEEL CASE AND BRASS PLUG



PRESSURE RATING		CODE
0 - 2	100 1	VS430002
0 - 4	100 1	VS430004
0 - 6	100 1	VS430006
0 - 10	100 1	VS430010
0 - 16	100 1	VS430016
0 - 25	100 1	VS430025
0 - 60	100 1	VS430060
0 - 100	100 1	VS430100
0 - 250	100 1	VS430250
0 - 600	100 1	VS430600



# 440

Ø 100 PRESSURE GAUGE WITH GLYCERINE - AISI 304 STAINLESS STEEL CASE AND BRASS PLUG



PRESSURE RATING		CODE
0 - 2	36 1	VS440002
0 - 4	36 1	VS440004
0 - 6	36 1	VS440006
0 - 10	36 1	VS440010
0 - 16	36 1	VS440016
0 - 25	36 1	VS440025
0 - 60	36 1	VS440060
0 - 100	36 1	VS440100



# 431

Ø 63 PRESSURE GAUGE WITH GLYCERINE - AISI 304 STAINLESS STEEL CASE AND PLUG



PRESSURE RATING		CODE
0 - 2	100 1	VS431002
0 - 4	100 1	VS431004
0 - 6	100 1	VS431006
0 - 10	100 1	VS431010
0 - 16	100 1	VS431016
0 - 25	100 1	VS431025
0 - 60	100 1	VS431060
0 - 100	100 1	VS431100



# 441

Ø 100 PRESSURE GAUGE WITH GLYCERINE - AISI 304 STAINLESS STEEL CASE AND BRASS PLUG




PRESSURE RATING		CODE
0 - 6	36 1	VS441006
0 - 10	36 1	VS441010
0 - 16	36 1	VS441016
0 - 25	36 1	VS441025
0 - 60	36 1	VS441060
0 - 100	36 1	VS441100



**SEALANTS**

**A90 ANAEROBIC SEALANT OF PTFE FOR METAL JOINT**




	CODE
6	TLA90000

**SEALANT**

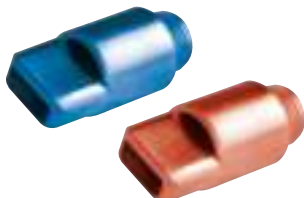
**PTFE TAPE**




Ø		CODE
0,1 mm. x 12 mm. x 12 mts	350 10	TC001212
0,1 mm. x 25 mm. x 50 mts	60 5	TC002550
0,1 mm. x 19 mm. x 50 mts	80 5	TC001950
0,2 mm. x 19 mm. x 15 mts	100 5	TC001915

**PLUG**

**POLYESTER GASKETS FOR INSTALLATION TEST**



Ø	COLOUR		CODE
1/2 "	BLUE	600 20	RAFUTPAZ
1/2 "	RED	600 20	RAFUTPRO

# ACCESSORIES



**55R-54R  
55-54 HANDLE**

Ø	RED CODE	BLUE CODE
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



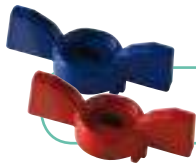
**50-56  
40-46 HANDLE**

Ø	RED CODE	BLUE CODE
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



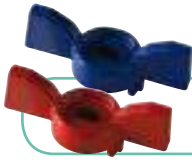
**10 HANDLE**

Ø	CODE
1/2" - 3/4"	VS010M34
1"	VS010M05
1 1/4" - 1 1/2"	VS010M67
2"	VS010M08



**355R-354R  
355-354 HANDLE**

Ø	RED CODE	BLUE CODE
1/2" - 3/4"	VSR35M34	VS355M34
1"	VSR35M05	VS355M05



**350-356  
340-346 HANDLE**

Ø	RED CODE	BLUE CODE
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"	VS205MOA
3"	VS205MOB
4"	VS205M0C

300 µm 500 µm 1200 µm



**QUICK CONNECTOR**

Ø	Box		CODE
3/4"	400	40	VS046RR4
1"	300	30	VS046RR5



**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



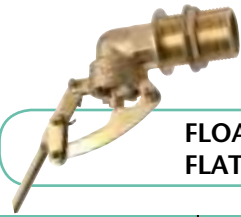
**205 JOINT**

Ø	CODE
1/2"	VS205J03
3/4"	VS205J04
1"	VS205J05

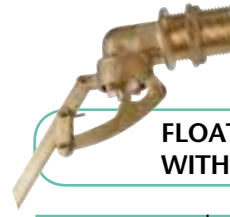


**QUICK CONNECTOR**

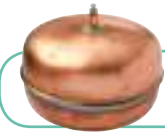
Ø	Box		CODE
3/4"	140	20	VS046RP4
1"	60	15	VS046RP5
1 1/4"	30	10	VS046RP6

**FLOAT VALVES AND FLOATS**

**FLOAT VALVE WITH  
FLAT ROD**

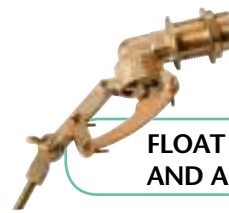

Ø	SIZE			CODE
3/8"	3/16	50	5	VS91LR02
1/2"	6/100	50	5	VS91LR03
3/4"	7/100	50	5	VS91LR04
1"	8/100	25	5	VS91LR05
1 1/4"	9/100	10	1	VS91LR06
1 1/2"	9/100	10	1	VS91LR07
2"	9/100	6	1	VS91LR08


**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			CODE
3/8"	9	200	1	VS92PE02
1/2"	11	110	1	VS92PE03
3/4"	13	65	1	VS92PE04
1"	15	30	1	VS92PE05
1 1/4" - 1 1/2"	20	18	1	VS92PE06
2"	23	12	1	VS92PE08


**MIXED FLAT PLASTIC FLOAT FOR  
FLOAT VALVE**

Ø	SIZE cm			CODE
1/2"	12	120	1	VS92PM03
3/4"	12	120	1	VS92PM04
1"	15	60	1	VS92PM05
1 1/4" - 1 1/2"	20	25	1	VS92PM06
2"	25	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

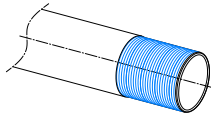

**PIN OF FLOAT VALVE**

Ø		CODE
3/8" - 1/2"	10	VS93PA02
3/4" - 1"	10	VS93PA04
1 1/4" - 1 1/2"	10	VS93PA06
2"	10	VS93PA08

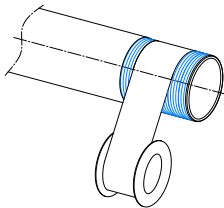
# VALVE INSTALLATION REFERENCE

Ensure valve is suitable for service conditions, e.g. pressure, temperature, service media.

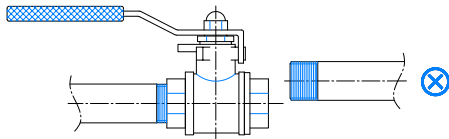
Ensure that the ends pipe is well defined and without scraps.



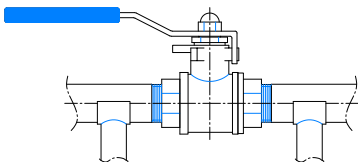
It is essential the use of a thread sealant (PTFE or similar) on the thread to give a pressure tight seal.



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.



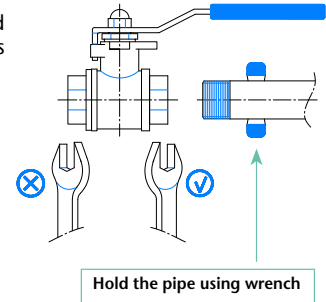
The pipes which joint the valve must be perfectly fastened.



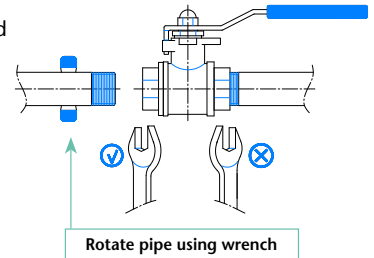
Never grip the valve bodies in a vice, do not block with extensions of key. The valve could be deformed or even broken.

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.

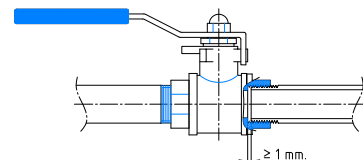


Second side: The valve held secure and rotate the pipe.



In general, not exceed a torque of 30 Nm.

Due to the fact that usually the length of the pipe thread is longer than 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.



**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.

**FLEXIBLE CONNECTORS**

# DN 8

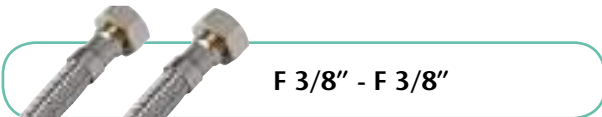
**STAINLESS STEEL BRAIDED FLEXIBLE CONNECTOR FOR SANITARY INSTALLATIONS**

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:**

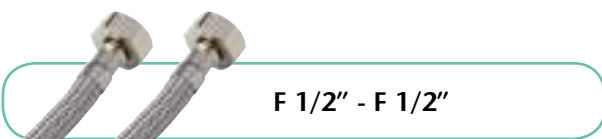
Sanitary installations, wash- basins, bidets,  
 WC suites, water heaters, catering.


**F 3/8" - F 3/8"**

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


**M 3/8" - F 3/8"**

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

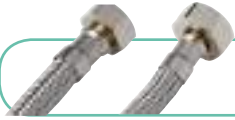

**F 1/2" - F 1/2"**

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


**M 1/2" - F 1/2"**

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.



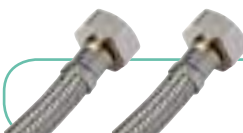
**F 1/2" - F 1/2"**

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



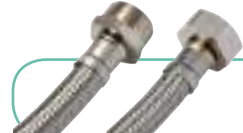
**M 1/2" - F 1/2"**

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



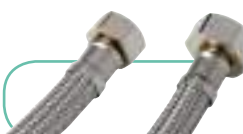
**F 3/4" - F 3/4"**

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



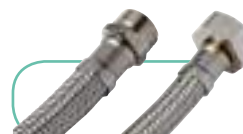
**M 3/4" - F 3/4"**

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

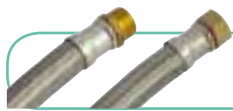
EPDM rubber inner tube – ACS certified.  
 Stainless steel braid AISI 304.  
 Stainless steel ferrules AISI 304 (3/4" and 1").  
 Aluminium ferrules (1 1/4" to 2").  
 Nickel plated brass fittings.  
 EPDM rubber washers.

**Working pressure: 16 bar.**

Maximum working temperature: 90° C.  
 Suitable for drinking water.

### Applications:

Water meters, pressure meters, water pumps, air conditioning, industrial applications.



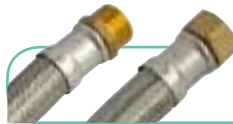
**M 3/4" - F 3/4"**

FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 19 mm.</b> 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



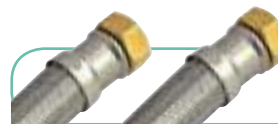
**F 3/4" - F 3/4"**

FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 19 mm.</b> 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
<b>Inner diameter: 25 mm.</b> 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



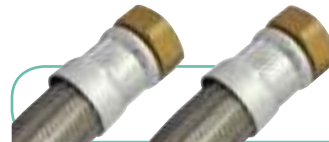
**F 1" - F 1"**

FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 25 mm.</b> 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
<b>Inner diameter: 30 mm.</b> 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"**

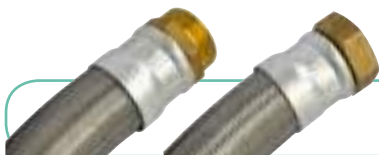
FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 30 mm.</b> Outer diameter: 43 mm. Fitting inner diameter: 25 mm. Caudal nominal: 400 l./min. Minimum bending radius: 190 mm.	300	15 5	H3H6H630
	400	10 5	H3H6H640
	500	10 5	H3H6H650
	600	10 5	H3H6H660
	800	10 5	H3H6H680
	1000	10 5	H3H6H699


**M 1 1/2" - F 1 1/2"**

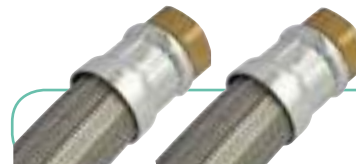
FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 40 mm.</b> Outer diameter: 53 mm. Fitting inner diameter: 32 mm. Flow rate: 700 l./min. Minimum bending radius: 230 mm.	300	15 5	H3M7H730
	400	10 5	H3M7H740
	500	10 5	H3M7H750
	600	5 5	H3M7H760
	800	5 5	H3M7H780
	1000	5 5	H3M7H799


**F 1 1/2" - F 1 1/2"**

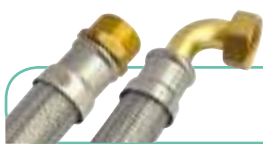
FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 40 mm.</b> Outer diameter: 53 mm. Fitting inner diameter: 32 mm. Flow rate: 700 l./min. Minimum bending radius: 230 mm.	300	15 5	H3H7H730
	400	10 5	H3H7H740
	500	10 5	H3H7H750
	600	5 5	H3H7H760
	800	5 5	H3H7H780
	1000	5 5	H3H7H799


**M 2" - F 2"**

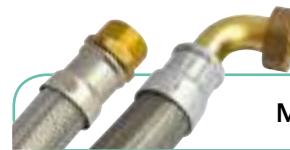
FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 50 mm.</b> Outer diameter: 63 mm. Fitting inner diameter: 40 mm. Flow rate: 1.050 l./min. Minimum bending radius: 300 mm.	300	10 5	H3M8H830
	400	10 5	H3M8H840
	500	10 5	H3M8H850
	600	5 5	H3M8H860
	800	5 5	H3M8H880
	1000	5 5	H3M8H899


**F 2" - F 2"**

FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 50 mm.</b> 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
<b>Inner diameter: 25 mm.</b> 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

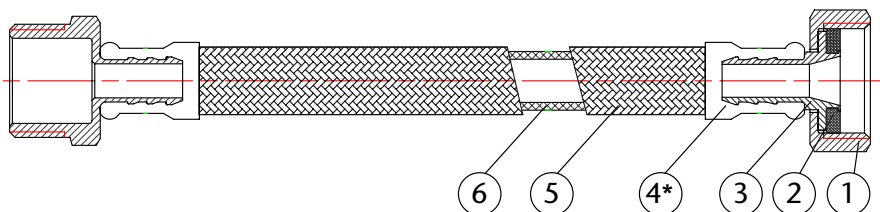

**M 1 1/4" - ELBOW F 1 1/4"**

FEATURES	LENGTH mm.		CODE
<b>Inner diameter: 30 mm.</b> 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



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

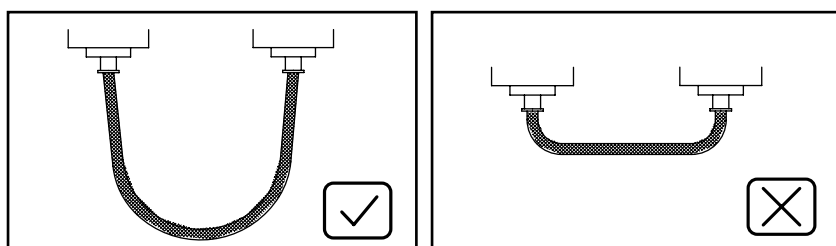


1. Nickel plated brass.
2. EPDM rubber.
3. Brass.
4. Stainless steel AISI 304.
- \* Aluminium for sizes from 1 1/4" to 2".
5. Stainless steel AISI 304.
6. EPDM.

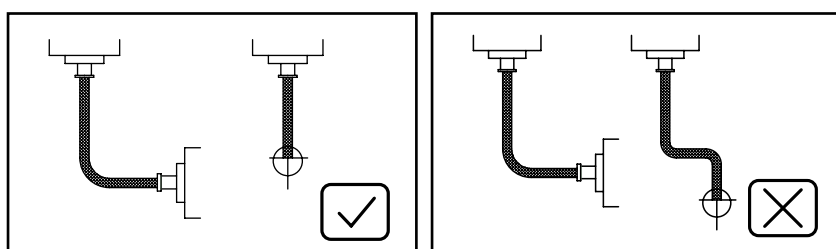
## RECOMMENDATIONS FOR INSTALLATION

Before using the flexible connector, verify that the product is under perfect conditions.

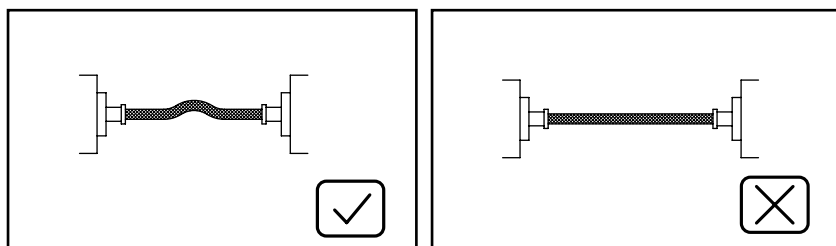
The flexible connectors must be installed visible. They do not have to go through the wall.



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.

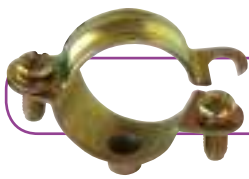
**ATUSA** also deals with clamps which are used to secure pipes or channels of any type, whether in a vertical or horizontal position or suspended from wall, rail or ceiling.



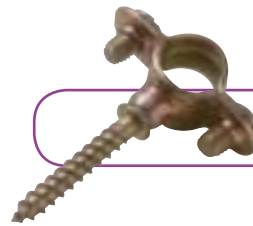
 **ATUSA**

**FIXING** SYSTEM

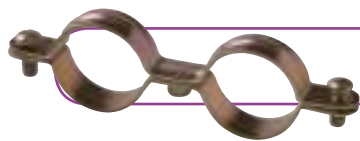
## LIGHT DUTY PIPE CLAMPS


**M6 PIPE CLAMP**

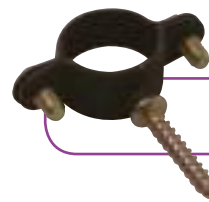
Ø mm.	Ø		CODE
12	1/4"	1.000 100	RFSM0012
15	-	1.000 100	RFSM0015
16	-	1.000 100	RFSM0016
18	3/8"	1.000 100	RFSM0018
20	-	1.000 100	RFSM0020
22	1/2"	1.000 100	RFSM0022
26	3/4"	1.000 100	RFSM0026
28	-	1.000 100	RFSM0028
32	1"	500 50	RFSM0032
35	-	500 50	RFSM0035
40	-	500 50	RFSM0040
42	1 1/4"	500 50	RFSM0042
50	-	500 50	RFSM0050
63	-	250 50	RFSM0063


**M6 PIPE CLAMP WITH SCREW**

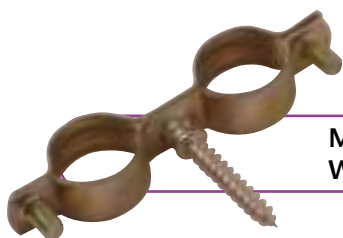
Ø mm.	Ø		CODE
12	1/4"	1.000 100	RFSMT012
15	-	1.000 100	RFSMT015
18	3/8"	1.000 100	RFSMT018
20	-	1.000 100	RFSMT020
22	1/2"	1.000 100	RFSMT022
24	-	1.000 100	RFSMT024
26	3/4"	1.000 100	RFSMT026
28	-	1.000 100	RFSMT028
32	1"	500 50	RFSMT032
35	-	500 50	RFSMT035
40	-	500 50	RFSMT040
42	1 1/4"	500 50	RFSMT042
50	-	500 50	RFSMT050


**M6 DOUBLE PIPE CLAMP**

Ø mm.	Ø		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 WITH SCREW**

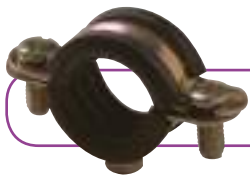
Ø mm.	Ø		CODE
15	3/8"	1.000 100	RFSRN015
18	-	1.000 100	RFSRN018
22	-	1.000 100	RFSRN022
28	3/4"	1.000 100	RFSRN028


**M6 DOUBLE PIPE CLAMP WITH SCREW**


Ø mm.	Ø		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

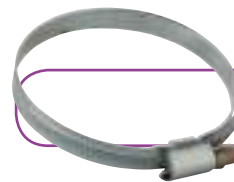
(1) Available while stocks last






**M6 PIPE CLAMP  
WITH RUBBER**

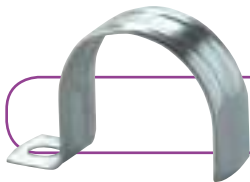
Ø mm.	Ø		CODE
12	1/4"	1.000 100	RFSG0012
14-15	-	1.000 100	RFSG0014
18	-	1.000 100	RFSG0018
20	1/2"	1.000 100	RFSG0020
22	-	1.000 100	RFSG0022
26	3/4"	500 100	RFSG0026
28	-	500 100	RFSG0028
32	1"	500 50	RFSG0032
35	-	500 50	RFSG0035
42	1 1/4"	500 50	RFSG0042




**HOSE CLAMP**



Ø mm.	Ø		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**

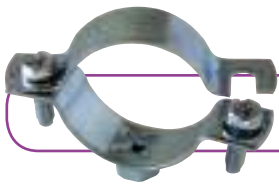
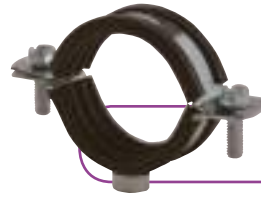
Ø mm.	Ø		CODE
8	-	2.000 100	RFGA0008
10	1/8"	2.000 100	RFGA0010
12	1/4"	2.000 100	RFGA0012
15	-	2.000 100	RFGA0015
16	3/8"	1.000 100	RFGA0016
18	-	1.000 100	RFGA0018
20	1/2"	1.000 100	RFGA0020
22	-	1.000 100	RFGA0022
26	3/4"	1.000 100	RFGA0026
32	1"	1.000 100	RFGA0032
40	-	500 50	RFGA0040



**BRIDGE CONDUIT CLIP**

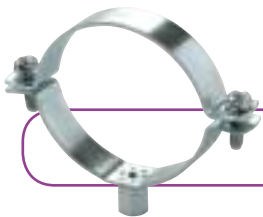
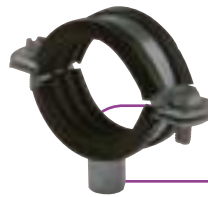
Ø mm.	Ø		CODE
8	-	2.000 100	RFGAP008
10	1/8"	2.000 100	RFGAP010
12	1/4"	2.000 100	RFGAP012
15	-	1.000 100	RFGAP015
16	3/8"	1.000 100	RFGAP016
18	-	1.000 100	RFGAP018
20	1/2"	1.000 100	RFGAP020
22	-	1.000 100	RFGAP022
24	-	1.000 100	RFGAP024
26	3/4"	1.000 100	RFGAP026
30	-	500 50	RFGAP030
32	1"	500 50	RFGAP032
40	-	500 50	RFGAP040

## HEAVY DUTY PIPE CLAMPS


**M8 OPEN PIPE CLAMP**

**M8 OPEN PIPE CLAMP WITH RUBBER**


Ø	mm.	Ø		CODE
22	20-24	1/2"	500 100	RFRM0022
28	25-28	3/4"	250 50	RFRM0028
35	32-36	1"	250 50	RFRM0035
42	40-43	1 1/4"	250 25	RFRM0042
48	47-50	1 1/2"	250 25	RFRM0048
54	50-54	-	250 25	RFRM0054
60	59-63	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

Ø	mm.	Ø		CODE
15	12-16	1/4"	500 50	RFRG0015
18	17-19	3/8"	250 50	RFRG0018
22	20-24	1/2"	250 50	RFRG0022
28	25-28	3/4"	250 25	RFRG0028
35	32-36	1"	250 25	RFRG0035
42	40-43	1 1/4"	125 25	RFRG0042
48	47-50	1 1/2"	100 20	RFRG0048
54	50-54	-	100 20	RFRG0054
60	59-63	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**

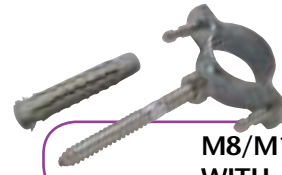

Ø	mm.	Ø		CODE
22	20-25	1/2"	500 50	RFRMD022
28	26-30	3/4"	500 50	RFRMD028
35	32-36	1"	250 50	RFRMD035
40	38-43	1 1/4"	250 25	RFRMD040
48	47-51	1 1/2"	250 25	RFRMD048
54	53-56	-	125 25	RFRMD054
60	60-64	2"	125 25	RFRMD060
75	75-80	2 1/2"	100 20	RFRMD075
90	87-92	3"	80 16	RFRMD090
110	107-112	-	50 10	RFRMD110
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	249-254	-	20 -	RFRMD250
315	312-318	-	20 -	RFRMD315

Ø	mm.	Ø		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	53-56	-	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







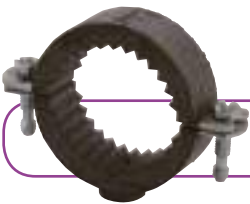
**M8/M10 PIPE CLAMP  
"PREMIUM"**



**M8/M10 PIPE CLAMP "PREMIUM"  
WITH PLUG AND SCREW**

Ø	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


Ø.	mm.	BOLT	CHEV.		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**

Ø	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

Ø.	mm.	BOLT	CHEV.		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


**"EXTRA" CLAMP**

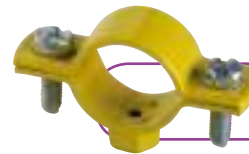

Ø	mm.	BOLT		CODE
17	17-19	M5	1.000 100	RFS00017
20	20-22	M5	1.000 100	RFS00020
23	23-25	M5	500 100	RFS00023
25	25-27	M5	500 100	RFS00025
26	26-28	M5	500 100	RFS00026
29	29-31	M6	250 50	RFS00029
32	32-35	M6	250 50	RFS00032
36	36-39	M6	250 50	RFS00036
40	40-43	M6	250 50	RFS00040
44	44-47	M6	125 25	RFS00044
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**

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**

Ø	Ø	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"**


Ø	mm.	Ø.	FILETA.		CODE
22	20-24	1/2"	M8	500 100	RFRR0022
28	26-30	3/4"	M8	500 50	RFRR0028
35	32-36	1"	M8	250 50	RFRR0035
40	38-42	1 1/4"	M8	250 25	RFRR0040
48	47-50	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	82-90	3"	M10	90 18	RFRR0090
115	114-119	4"	M10	30 15	RFRR0115


**"U" BOLT**


Ø Tube	Ø.	FILETA.		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



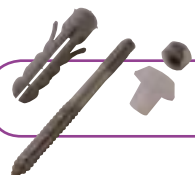
**FIXING KIT FOR WASHBASIN**  
(2 pieces)

BOLT	CHEVILLE			CODE
M8x110	10x50	150	15	RFFL0811
M10x120	12x60	150	15	RFFL1012



**FIX. KIT FOR WALL SANITARIES**  
(2 pieces)

BOLT	CHEVILLE			CODE
M8x110	10x50	150	15	RFFP0811
M10x120	12x60	150	15	RFFP1012



**KIT FIX. FOR WC AND BIDET**  
(2 pieces)

	BOLT	PLUG			CODE
INOX.	M5x75	8x40	250	25	RFFWIS75
LAITON	M5x75	8x40	250	25	RFFWLS75



**FIX. KIT FOR BOILERS** (2 pieces)

	BOLT	PLUG			CODE
	M8x65	10x50	250	25	RFFC0865
	M10x75	12x60	250	25	RFFC1075

## ANCHORS, PLUGS, SCREWS AND ACCESORIES

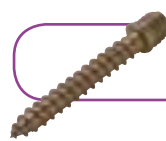


**M8/M10 DOUBLE THREAD**  
**SCREW**



M8 or M10 double thread screw.

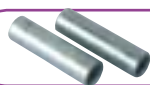
FILETA.	mm.			CODE
M8	50	1.000	100	RFTD0850
M8	80	1.000	100	RFTD0880
M8	100	600	100	RFTD8100
M8	120	600	100	RFTD8120
M10	80	1.000	100	RFTD1080
M10	100	1.000	100	RFTD1010



**M6/M8 SHOULDER**  
**SCREW**



FILETA.	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**

FILETA.	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**

FILETA.	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**

∅		CODE
M6x30	100	RFTN0630
M8x40	100	RFTN0840
M10x50	50	RFTN1050
M12x60	25	RFTN1260



**PERFORATED BANDING**

mm.	LENGTH	BANDE mm.		CODE
M6x30	10 m.	17 x 0.8	10	RFCP0017

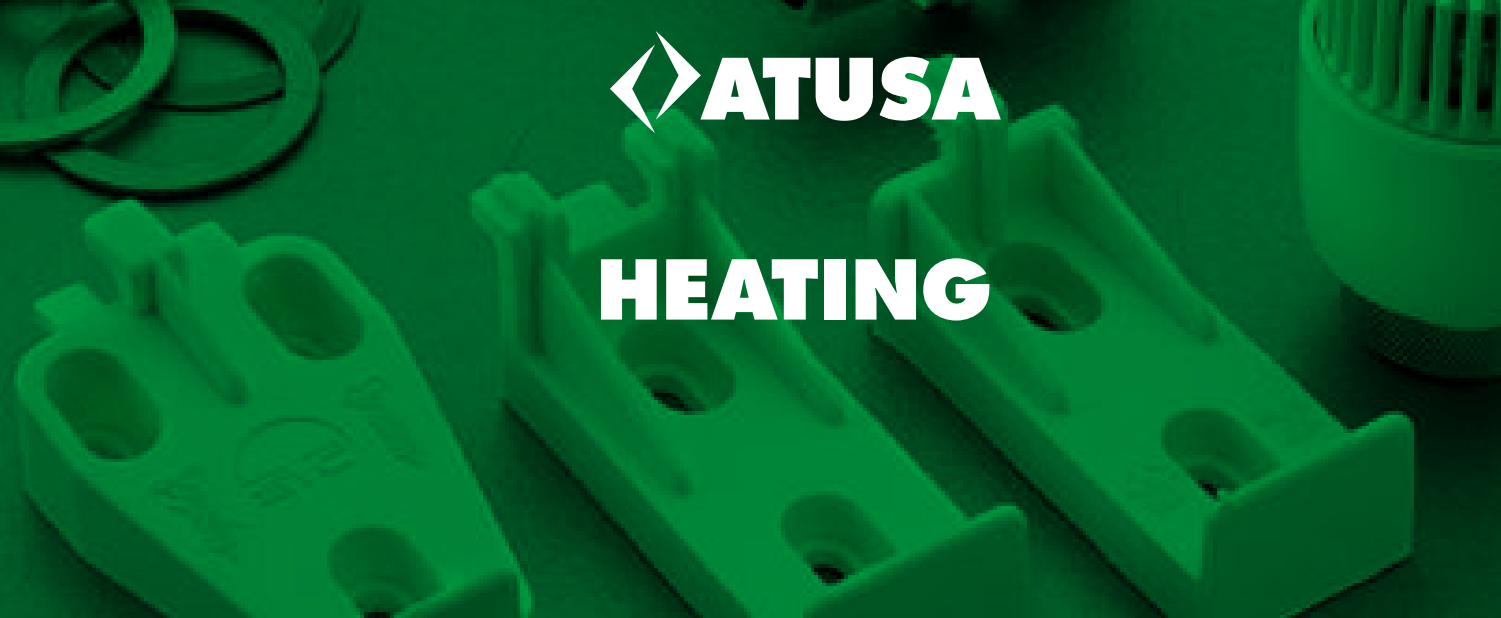
## HEATING

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.



**ATUSA**

**HEATING**





## RADIATOR PLUGS


**1" ZINC PLUG**

SIZE		CODE
1"	100	GZ5TCDCCH
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	GZ4TCDCCH
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 45) 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 45) ZINC PLUG FOR SHEET RADIATOR**

SIZE		CODE
1 1/4"	50	GZ6TCDCCH
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

5.000	100	CODE
		GA7GUTIL



### ECOLOGICAL PLUG GASKET WITHOUT ASBESTOS

SIZE	Ø	Thickness	100	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) 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
Right	Nickle Plated	100 10	GA13PURD
Left	Nickle Plated	100 10	GA13PURI
Right	White	100 10	GA13PBLD
Left	White	100 10	GA13PBLI



**AUTOMATIC AIR VENT VALVE**



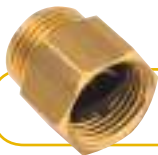
SIZE		CODE
3/8"	80 10	RX970002
1/2"	80 10	RX970003



**AUTOMATIC AIR VENT VALVE "MINI"**



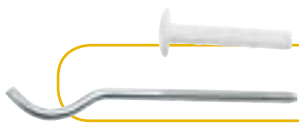
SIZE		CODE
3/8"	80 10	RX970B02
1/2"	80 10	RX970B03



**CHECK VALVE FOR AIR VENT VALVE**

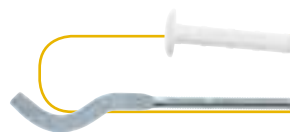
SIZE		CODE
H3/8" - M3/8"	100	RX971002
H1/2" - M1/2"	100	RX971003

**RADIATOR BRACKETS**



**TELESCOPIC ZINC BRACKETS KIT WITH STUD**

	CODE
50 bags 2 units	RXX94201



**FLAT TELESCOPIC ZINC BRACKETS KIT WITH STUD**

	CODE
50 bags 2 units	RXX942M5



**FLAT TELESCOPIC WHITE BRACKETS KIT WITH STUD**

	LARGEUR mm.	CODE
50 bags 2 units	170 mm.	RXX942MB
50 bags 2 units	195 mm.	RXX94LMB



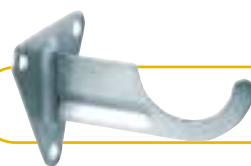
**1" ADJUSTABLE  
BRACKETS KIT**



50

CODE

GA5SORE2



**1" FIXED WALL BRACKET**



50

CODE

GA5SOFIJ



**RIGHT BRACKET**



100

CODE

GA15OEMP



**REVERSIBLE BRACKET**

95mm. Total Length  
(75mm. half curve)  
2mm. Thickness.

FINISH

White plastic-coated



100

CODE

GA3SOBRE



**NYLON BRACKET WITH  
ONE PIN**



500

CODE

GA3STERM



**NYLON BRACKET 3 PINS**



500

CODE

GA3STER3



**"ANTI-NOISE" NYLON  
BRACKET WITH ONE PIN**



500

CODE

GA3SUTIL



**UNIVERSAL MODEL  
NYLON BRACKET 3 PINS**

UNIVERSAL  
MODEL FOR  
ALL TYPES OF  
RADIATORS



500

CODE

GA3SUNI3



**UNIVERSAL ADJUSTABLE  
WHITE BRACKETS KIT**



100

1

CODE

GA27SREG



**WHITE GROUND BRACKET**

FINISH

White



2

CODE

GA15DOBL

**OTHER ACCESSORIES**



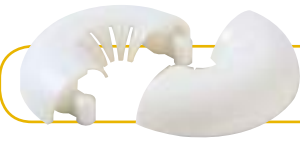
**RADIATOR FERRULE**

SIZE		CODE
1"	100	GA9CASQ1
1 1/4"	50	GA9CASQ6



**ECOLOGICAL BUSHING GASKET WITHOUT ASBESTOS - THICKNESS 1 mm.**

SIZE		CODE
1" (Ø 42)	100	GA8GCEC5
1" (Ø 48)	100	GA8GCE48
1 1/4" (Ø 56)	100	GA8GCEC6



**UNIVERSAL TRIM**

SIZE		CODE
10 - 25 mm.	1.000 100	RAFU1025



**PLASTIC TRIM**

SIZE		CODE
10 - 22 mm.	3.000 100	RAFUUTIL



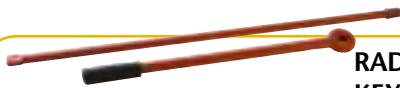
**DOUBLE UNIVERSAL TRIM**

SIZE		CODE
35 mm. - between axes	500 25	RAFUDOBL



**WHITE SPRAY**

	CODE
12	GA1BLACA



**RADIATORS ASSEMBLY KEY**

	CODE
1	GA13LLAV



**OSCAR AND EKOS PLUS RADIATOR MODEL FERRULE (30 MM.)**

	CODE
50	GOSNIPL



**OSCAR AND EKOS PLUS MODEL RADIATORS DIAPHRAGM**

	CODE
1	GOSDIAFR



**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 (Spain)
- VDS y DVGW (Germany)
- SVGW (Switzerland)
- CERTIF (Portugal)
- PZH (Poland)
- TSE (Turkey)
- FM and UL (USA)
- ULC (Canada)
- 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.



# GENERAL **SALES CONDITIONS**

The general conditions of sale are considered accepted by the buyer at the time of placing the order. These may be modified by special conditions previously agreed in writing and confirmed by the buying and selling parties. Different conditions not explicitly accepted by the seller, will not have legal effect.

## **GOODS**

Our products include our STANDARD packaging. The articles will always be supplied by the minimum sales packaging specified in the catalogue. The data included in this catalogue are approximate and informative. **ATUSA** reserves the right to modify all or part of the characteristics and materials of any of its products.

## **DELIVERIES**

Delivery times are approximate and may change. Partial deliveries are allowed if there is no written agreement preventing it. Failure to respect the deadline for delivery does not require any damages.

## **PRICES AND RESERVATION OF THE PROPERTY**

The prices indicated are expressed in euros, and the corresponding V.A.T. must be applied according to the regulations in force. **ATUSA** reserves the right of ownership of the goods supplied until the buyer has fully satisfied the amount due. Until then they will be considered as deposits. The seller may proceed to the recovery of the goods without notice, in case of default by the buyer.

## **RETURNS**

Returns that do not have the written acceptance of our commercial department will not be accepted. The returned material must be accompanied by a delivery note indicating the product code, quantity and reason for the return. In the case of refunds due, it will be the commercial department of **ATUSA** who will indicate the transport agency for shipment. Failure to comply with any of the above conditions will result in the rejection of the refund. Material returned for reasons not attributable to **ATUSA** will have a minimum demerit of 25% for handling. Returns of products that do not meet the conditions of sale or that do not keep their original packaging will not be accepted. In cases of defect of quantity or deterioration of the goods on delivery, no claims will be accepted after 7 calendar days from the dispatch of the same. In other cases, refunds will not be accepted after 30 days from the date of issue.

## **GUARANTEES**

**ATUSA** products have two years warranty from the date of delivery. During this period, **ATUSA** undertakes to replace defective items, excluding any other type of charge such as transportation or handling. The coverage of this warranty does not include the replacement of deteriorated products by improper treatment, defective assembly or unsuitable use.

**ATUSA** has a Civil Liability Insurance in accordance with the law in force.

## **JURISDICTION**

For those disputes that may arise in the framework of the contractual relationship between the buyer and **ATUSA**, the Courts of Vitoria (Álava) will be competent. Spanish law is agreed as applicable.