

# suprem fittings

By QUAPUS SA srl



PVC FITTINGS by **NEISCO** (Quotation upon request)

RACCORDI IN PVC by **NEISCO** (Quotazione su richiesta)





A QUALITY YOU TRUST



**OMEGA** by **COMER NEISCO**

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## General properties

### Material

#### U-PVC PIPE SYSTEMS

U-PVC (unplasticized polyvinyl chloride) is one of the most popular thermoplastic materials used for pipe work installations; it is obtained from ethylene (43%) and chlorine (57%).

Light, U-PVC has excellent resistance to chemicals and abrasion, is tasteless and odorless making it ideal for use with potable water systems. Its extremely smooth bore gives excellent low characteristic without sediment or deposit. Connections can be made by either solvent cement or BSP threaded fittings.

#### MATERIALS

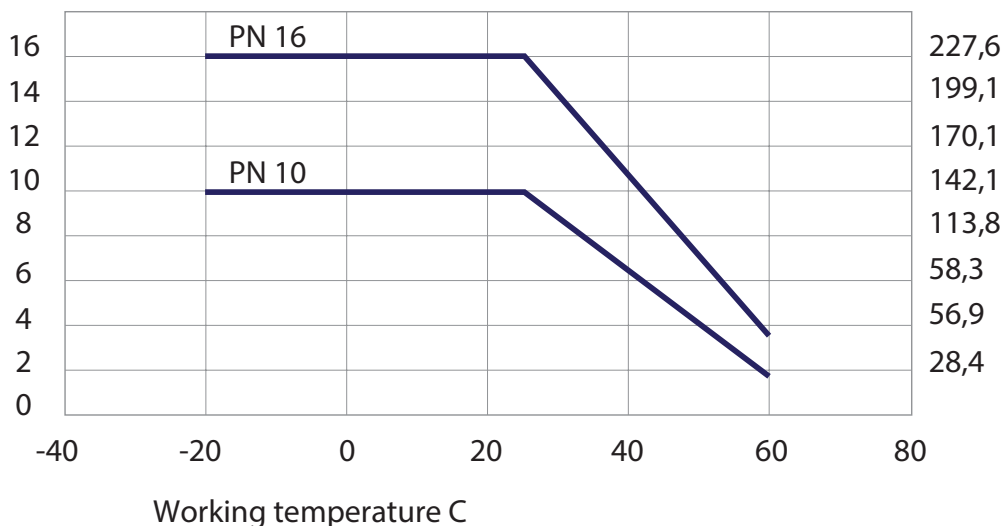
Fittings: U-PVC (unplasticized polyvinyl chloride)  
 Gaskets: EPDM (ethylene - polypropylene rubber)  
 FPM (fluorocarbonic - rubber)

#### PRESSURE-TEMPERATURE RELATIONSHIP

The maximum working pressure is 16 kg/cm<sup>2</sup> (227,6 PSI) from -20°C to +25°C.

Above +25°C the working pressure decreases by a linear way down to 4 kg/cm<sup>2</sup> (56,9 PSI) to +60°C

#### Pressure-Temperature relationship according to DIN 3441 BLATT 1





## Mechanical properties

Max working pressure in Kg/cm

Series	Dimensions	NP
Solvent jointing	from D16 to D160	16
Solvent jointing	from D200 to D315	10
Threaded	from G3/8 to G4	16
Adaptor set	from D16 to D110	16

Safety factor at 20°C

NP	HOURS 1	HOURS 1000	Corrisp. to 50 years
10 Bar	6.7	5.1	4.0
16 Bar	4.2	3.2	2.5

## Chemical resistance

U-PVC has chemical resistance properties which are excellent being resistant to most solutions of salts, acids, alkalis and watersoluble solvents. PVC is NOT resistant to aromatic or chlorinated hydrocarbons.

## Abbreviations

- D** connecting size for plastic piping corresponding to external diameter of pipe and internal diameter of female fittings.
- D"** nominal diameter for connecting B.S. piping (inches)
- DN** nominal diameter for metal pipes corresponding approximately to internal diameter
- G** nominal diameter for threaded pipes and fittings (inches)

## Physical properties of U-PVC

Characteristics	Method	Units	UPVC
Density	DIN 53479	g / cm <sup>3</sup>	1.4
Elongation	ISO R527	%	125
Modulus to traction	ISO R527	Kg / cm <sup>2</sup>	30.000
Resistance to traction	ISO R527	N / mm <sup>2</sup>	55
Tensile Strength	ISO R527	Kg / cm <sup>2</sup>	520
ZOD Impact strength at 23°C	ASTM D256	Kg cm / cm	3,5/4,5
Vicat softening point with 5 Kgs	ISO R306	°C	76
Thermal conductivity	ASTM C177	kcal / mh°C	0,15
Coefficient of linear expansion	ASTM D696	m / m°C	8x10
Water absorption	ISO R527	mg / cm <sup>3</sup>	<4
Flammability			Self extinguishing M1

## Pipe fitting tolerances for solvent joint according to:

Fittings: ISO 727, DIN 8063, KIWA BRL-K 504, NF T54-028, UNI EN ISO 1452 ]

Pipes: ISO 161, DIN 8062, KIWA 49, NFT54-016

D	DN Nominal Diameter	Mean outside diameter of fittings		Mean inside diameter of fittings	
		Min	Max	Min	Max
16	10	16	16.2	16.1	16.3
20	15	20	20.2	20.1	20.3
25	20	25	25.2	25.1	25.3
32	25	32	32.2	32.1	32.3
40	32	40	40.2	40.1	40.3
50	40	50	50.2	50.1	50.3
63	50	63	63.2	63.1	63.3
75	65	75	75.2	75.1	75.3
90	80	90	90.2	90.1	90.3
110	100	110	110.3	110.1	110.4
125	110	125	125.3	125.1	125.4
140	125	140	140.3	140.2	140.5
160	150	160	160.3	160.2	160.5
200	175	200	200.4	200.2	200.6
225	200	225	225.4	225.3	225.7
250	225	250	250.5	250.3	250.8
280	250	280	280.5	280.3	280.9
315	280	315	315.5	315.4	316

## Threading dimension according to:

ISO 7/1, UNI ISO 228/1, BS 21, DIN 2999

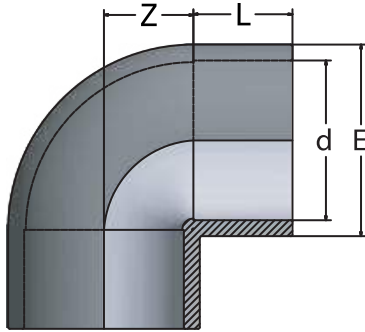
G Nominal Diameter	Diameter of screw	Passo Pitch		Depth of thread	Length of thread assembling
		N° fil/1"	mm		
3/8"	16.66	19	1.337	0.856	11.04
1/2"	20.95	14	1.814	1.162	15
3/4"	26.44	14	1.814	1.162	16.3
1"	33.25	11	2.309	1.479	19.1
1 1/4"	41.91	11	2.309	1.479	21.4
1 1/2"	47.8	11	2.309	1.479	21.4
2"	59.61	11	2.309	1.479	25.7
2 1/4"	65.71	11	2.309	1.479	-
2 1/2"	75.18	11	2.309	1.479	30.2
2 3/4"	81.53	11	2.309	1.479	-
3"	87.88	11	2.309	1.479	33.3
4"	113.03	11	2.309	1.479	39.3
5"	138.43	11	2.309	1.479	43.6
6"	163.83	11	2.309	1.479	43.6



## EL50

90° ELBOW

كوع 90°

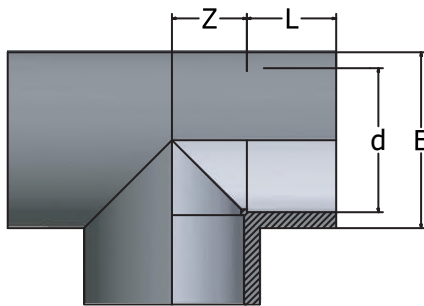


Code	d	L	Z	E	PN	GR.	Pack	Size
EL50N0200	20	16	11	26.5	16	16	300	S
EL50N0250	25	19	14	32.5	16	29	350	M
EL50N0320	32	22	17	41	16	55	200	M
EL50N0400	40	26	23	50	16	90	140	L
EL50N0500	50	31	28	60	16	135	140	L
EL50N0630	63	38	34	75	16	247	70	L
EL50N0750	75	44	40	89	16	375	40	L
EL50N0900	90	51	48	106	16	565	25	L
EL50N1100	110	61	58	129	16	1060	14	L
EL50N1250	125	69	66	145	16	1420	10	L
EL50C1400	140	76	73	164	16	1990	6	L
EL50N1600	160	86	81	188	16	3200	4	L
EL50N2000	200	106	102	232	10	5850	2	L
☆ EL50N2250	225	119	115	258	10	7500	1	L
☆ EL50N2500	250	132	188	286	10	12150	10	XL
☆ EL50N2800	280	146	210	316	10	15620	8	XL
☆ EL5003150	315	162	239	358	10	23500	5	XL
☆ EL5003550	355	184	177	393	6	20850		
☆ EL5004000	400	206	202	439	6	26350		

## TE40

90° TEE

مشارك 90°

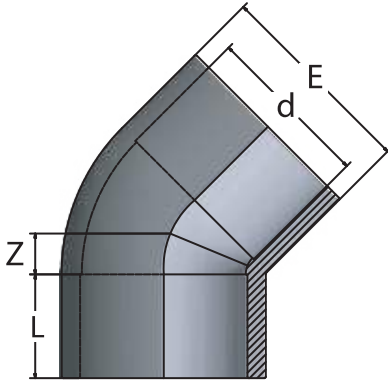


Code	d	L	Z	E	PN	GR.	Pack	Size
TE40N0200	20	16	11	27.5	16	25	450	M
TE40N0250	25	19	14	33.5	16	44	250	M
TE40N0320	32	22	17	42	16	69	130	M
TE40N0400	40	26	21	51	16	125	80	M
TE40N0500	50	31	26	61	16	183	90	L
TE40N0630	63	38	33	75	16	315	50	L
TE40N0750	75	44	39	89	16	495	32	L
TE40N0900	90	51	47	106	16	790	20	L
TE40N1100	110	61	57	130	16	1454	10	L
TE40N1250	125	69	64	145	16	1850	7	L
TE40N1400	140	76	72	163	16	2.61	4	L
TE40N1600	160	86	81	188	16	4280	3	L
TE40N2000	200	106	102	232	10	7200	20	XL
☆ TE40N2250	225	119	114	258	10	9700	15	XL
☆ TE40N2500	250	133	127	286	10	12650	10	XL
☆ TE40N2800	280	148	142	319	10	17480	7	XL
☆ TE4003150	315	165	159	360	10	24350	4	XL
☆ TE4003550	355	184	294	386	6	35900		

## EY50

45° ELBOW

كوع 45°

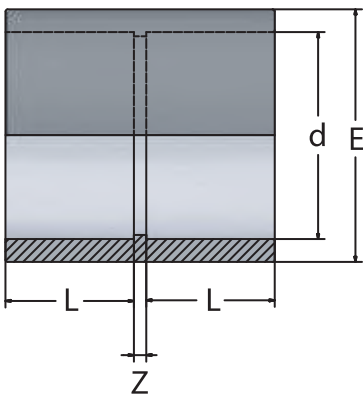


Code	d	L	Z	E	PN	GR.	Pack	Size
EY50N0200	20	16	5.5	28	16	17	700	M
EY50N0250	25	19	6	34	16	30	450	M
EY50N0320	32	22	8	42	16	47	250	M
EY50N0400	40	26	10	51	16	77	150	M
EY50N0500	50	31	12	61	16	115	170	L
EY50N0630	63	38	15	75	16	190	90	L
EY50N0750	75	44	18	88	16	310	50	L
EY50N0900	90	51	21	106	16	485	30	L
EY50N1100	110	61	25	128	16	835	16	L
EY50N1250	125	69	27	145	16	1065	12	L
EY50N1400	140	76	32	164	16	1640	6	L
EY50N1600	160	86	36	184	16	2100	4	L
EY50N2000	200	106	43	232	10	4540	30	XL
☆ EY50N2250	225	119	49	258	10	6200	26	XL
☆ EY50N2500	250	132	58	287	10	7680	16	XL
☆ EY50N2800	280	147	62	320	10	10350	11	XL
☆ EY5003150	315	165	66	360	10	14480	8	XL
☆ EY5003550	355	184	77	393	6	16000		
☆ EY5004000	400	206	83	439	6	20200		

## SO10

SOCKET

جلبة



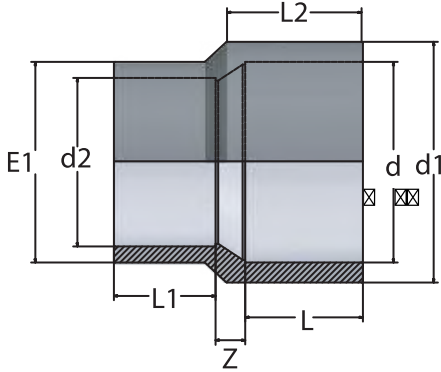
Code	d	L	Z	E	PN	GR.	Pack	Size
SO10N0200	20	16	3	28	16	15	380	S
SO10N0250	25	19	3	34	16	23	500	M
SO10N0320	32	22	3	42	16	36	300	M
SO10N0400	40	26	3	51	16	60	200	M
SO10N0500	50	31	3	61	16	85	220	L
SO10N0630	63	38	3	75	16	145	125	L
SO10N0750	75	44	4	88	16	214	85	L
SO10N0900	90	51	5	106	16	365	45	L
SO10N1100	110	61	6	126	16	520	27	L
SO10N1250	125	69	7	145	16	807	20	L
SO10N1400	140	76	9	161	16	1100	12	L
SO10N1600	160	86	8	181	16	1400	8	L
SO10N2000	200	106	11	226	10	2660	50	XL



## RP20

### REDUCING PIECE M/F

مسلوب طويل

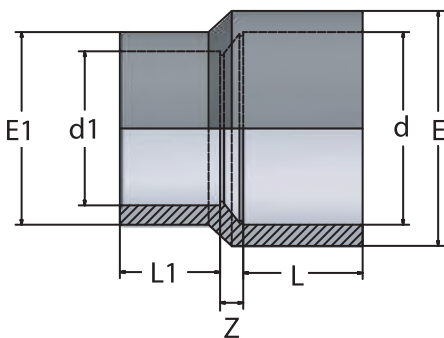


Code	dx1xd2	L	L1	L2	Z	E	PN	Gr	Pack	Box
RP20N032B	25x32x20	19	16	22	6	28	16	17	300	S
RP20N040B	32x40x20	22	16	24	9	28	16	27	200	S
RP20N040C	32x40x25	22	19	24	8	33	16	28	170	S
RP20N050B	40x50x20	26	16	31	9	28	16	46	230	M
RP20N050C	40x50x25	28	19	31	12	33	16	49	230	M
RP20N050D	40x50x32	28	22	31	9	41	16	53	200	M
RP20N063C	50x63x25	32	19	38	19	33	16	85	130	M
RP20N063D	50x63x32	31	22	38	12	41	16	88	125	M
RP20N063E	50x63x40	31	26	38	12	50	16	93	120	M
RP20N075E	63x75x40	38	26	44	17	50	16	140	80	M
RP20N075F	63x75x50	38	31	44	12	61	16	124	80	M
RP20N090F	75x90x50	44	31	51	18	61	16	203	45	M
RP20N090G	75x90x63	44	38	51	11	75	16	225	36	M
RP20N110F	90x110x50	51	31	61	28	61	16	362	45	L
RP20N110G	90x110x63	51	38	61	22	75	16	375	45	L
RP20N110H	90x110x75	51	44	61	16	88	16	396	45	L
RP20N125F	110x125x50	61	31	69	34	61	16	376	42	L
RP20N125G	110x125x63	61	38	69	28	75	16	393	42	L
RP20N125H	110x125x75	61	44	69	23	88	16	432	42	L
RP20N125I	110x125x90	61	51	69	17	106	16	486	42	L
RP20C140I	125x140x90	69	51	76	24	106	16	575	30	L
RP20C140L	125x140x110	69	61	76	17	129	16	645	20	L
RP20C140M	125x140x125	69	69	76	6	145	16	590	20	L
RP20C160I	140x160x90	76	51	86	24	106	16	850	16	L
RP20C160L	140x160x110	76	61	86	18	129	16	905	16	L
RP20C160M	140x160x125	76	69	86	8	145	16	960	12	L
RP20C160N	140x160x140	76	76	86	8	164	16	990	12	L

## RS10

### REDUCING SOCKET

جلبة مسلوقة



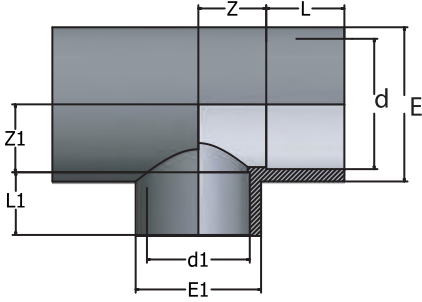
Code	dx1	L	L1	Z	E	E1	PN	Gr	Pack	Box
RS10C020A	20x16	16	14	6	28	23	16	15	500	S
RS10C025B	25x20	19	16	6	34	28	16	25	300	S
RS10C032C	32x25	22	19	6	42	33	16	35	170	S
RS10C040D	40x32	26	22	6	51	41	16	58	220	M
RS10C050E	50x40	31	26	6	61	50	16	80	130	M
RS10C063F	63x50	38	31	6	75	61	16	120	100	M
RS10C075G	75x63	44	38	6	89	75	16	210	60	M
RS10C090H	90x75	51	44	6	106	88	16	300	36	M
RS10C110I	110x90	61	51	6	129	106	16	510	42	L
RS10C125L	125x110	69	61	7	145	128	16	740	20	L
RS10C140L	140x110	76	61	19	160	128	16	1140	16	L
RS10C140M	140x125	76	69	19	160	145	16	1040	12	L
RS10N160L	160x110	86	61	28	180	129	16	1250	12	L
RS10N200O	200x160	106	86	49	226	180	10	2560	4	L
RS10C225P	225x200	119	106	11	258	227	10	3500	2	L
RS10C250O	250x160	106	86	78	283	190	10	4700	1	L
RS10C250P	250x200	106	102	44	283	234	10	4500	1	L



## TR40

### 90° TEE REDUCED

مشترك منخفض



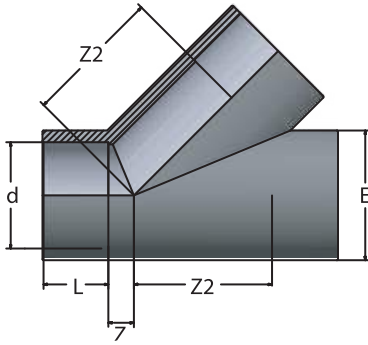
Code	dxd1	L	L1	Z	Z1	E	E1	PN	GR.	Pack	Size
TR40C025B	25x20	19	14	14	14	34	24	16	42	300	M
TR40N032B	32x20	22	16	17	17	42	28	16	69	160	M
TR40N032C	32x25	22	19	17	17	42	24	16	70	140	M
TR40C040B	40x20	26	16	21	21	51	28	16	112	100	M
TR40C040C	40x25	26	19	21	21	51	34	16	115	90	M
TR40C040D	40x32	26	22	21	21	51	42	16	118	90	M
TR40N050B	50x20	31	16	26	26	61	28	16	165	110	M
TR40N050C	50x25	31	19	26	26	61	34	16	166	110	M
TR40N050D	50x32	31	22	26	26	61	42	16	170	110	L
TR40N063C	63x25	38	19	33	33	75	34	16	282	70	L
TR40N063D	63x32	38	22	33	33	75	42	16	279	70	L
TR40N063F	63x50	38	31	33	33	75	61	16	292	60	L
TR40N075D	75x32	44	22	39	39	89	42	16	453	38	L
TR40N075E	75x40	44	26	39	39	89	51	16	465	38	L
TR40N075F	75x50	44	31	39	39	89	61	16	465	35	L
TR40N075G	75x63	44	38	39	39	89	75	16	469	35	L
TR40N090E	90x40	51	26	47	47	106	51	16	714	24	L
TR40N090F	90x50	51	31	47	47	106	61	16	721	24	L
TR40N090G	90x63	51	38	47	47	106	75	16	740	22	L
TR40N090H	90x75	51	44	47	47	106	89	16	760	22	L
TR40N110F	110x50	61	31	57	57	129	61	16	1250	12	L
TR40N110G	110x63	61	38	57	57	129	75	16	1.2	12	L
TR40N110H	110x75	61	44	57	57	129	89	16	1.22	12	L
TR40N110I	110x90	61	51	57	57	129	106	16	1.25	10	L
TR40N125G	125x63	69	44	66	66	148	75	16	1660	8	L
TR40N125H	125x75	69	44	66	66	148	89	16	1700	8	L
TR40N125I	125x90	69	51	66	66	148	106	16	1750	8	L
TR40N125L	125x110	69	61	66	66	148	129	16	1830	8	L
TR40N140H	140x75	76	44	72	72	163	89	16	2460	4	L
TR40N140I	140x90	76	51	72	72	163	106	16	2490	4	L
TR40N140L	140x110	76	61	72	72	163	129	16	2530	4	L
TR40N140M	140x125	76	69	72	72	163	148	16	2590	4	L
TR40N160I	160x90	86	51	82	82	184	106	16	3069	3	L
TR40N160L	160x110	86	61	82	82	184	129	16	3152	2	L
TR40N160M	160x125	86	69	82	82	184	148	16	3890	3	L
☆ TR40N160N	160x140	86	76	82	82	184	163	16	3940	3	L
☆ TR40N225L	225x110	120	63	58	114	258	135	10	6600	12	XL
☆ TR40N225N	225x160	120	88	84	153	258	193	10	8300	12	XL
☆ TR40N250L	250x110	132	61	128	128	288	128	10	12600	12	XL
☆ TR40N250O	250x160	132	86	128	128	288	184	10	12700	12	XL
☆ TR40N250P	250x200	132	106	128	128	288	232	10	13100	12	XL



## TY40

45° TEE

مشارك 45°

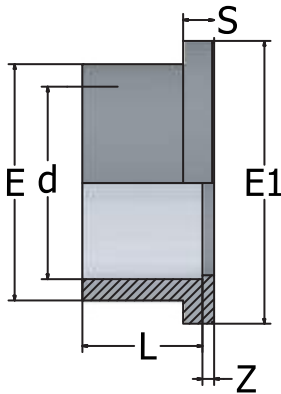


	Code	d	L	Z1	Z2	E	PN	Gr	Pack	Size
☆	TY40N0200	20	16	7	29	28	16	36	180	S
☆	TY40N0250	25	19	7	36	34	16	59	90	S
☆	TY40N0320	32	22	8	44	42	16	103	50	S
☆	TY40N0400	40	26	10	54	51	16	175	50	M
☆	TY40N0500	50	31	12	65	61	16	254	35	M
☆	TY40N0630	63	38	14	80	75	16	420	18	M
☆	TY40N0750	75	44	20	94	89	16	675	12	M
☆	TY40N0900	90	51	21	113	106	16	1100	12	L
☆	TY40N1100	110	61	23	143	129	16	1920	8	L

## ST20

STUB SERRATED

مشارك

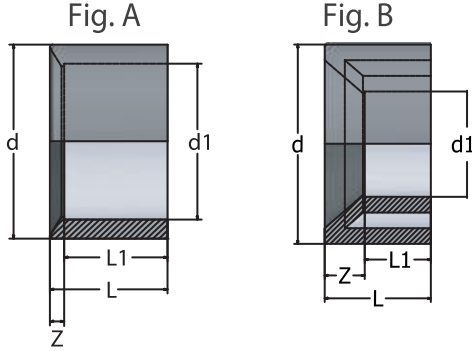


	Code	d	DN	L	Z	S	E	E1	PN	GR	Pack	Box
	ST20N0200	25	20	19	3	7	33	41	16	16	550	S
	ST20N0250	32	25	22	3	7	41	50	16	25	300	S
	ST20N0400	40	32	26	3	8	50	61	16	40	250	M
	ST20N0500	50	40	31	3	8	61	73	16	60	180	M
	ST20N0630	63	50	38	3	9	76	90	16	113	90	M
	ST20N0750	75	65	44	3	10	90	106	16	160	120	L
	ST20N0900	90	80	51	5	11	108	125	16	263	70	L
	ST20N1100	110	100	61	5	12	131	150	16	430	45	L
	ST20N1250	125	110	69	5	12	147	167	16	540	25	L
	ST20N1400	140	125	77	7	13	163	187	16	744	20	L
	ST20N1600	160	150	86	6	16	185	213	16	1052	16	L
	ST20N2000	200	200	106	7	18	231	253	10	1850	7	L
	ST20N2250	225	200	119	8	19	247	274	10	1768	6	L
	ST20N2500	250	225	131	10	20	273	307	10	2.32	4	L
☆	ST20N2800	280	250	142	10	23	308	329	10	3.04	5	L2
☆	ST2003150	315	300	161	11	27	346	379	10	4.58	3	L2
☆	ST2003550	355	337	184	8	30	386	431	6	6.05		
☆	ST2004000	400	384	206	12	30	432	483	6	8.1		

# RB90

## REDUCING BUSH

بوش قصير



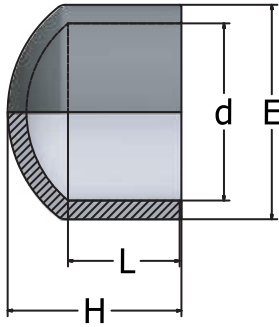
Code	dx d1	L	L1	Z	Fig	PN	Gr	Pack	Box
RB90N025B	25x20	19	16	3	A	16	4	700	S
RB90N032B	32x20	22	16	6	A	16	15	450	S
RB90N032C	32x25	22	19	3	A	16	10	450	S
RB90N040B	40x20	26	16	10	B	16	25	270	S
RB90N040C	40x25	26	19	7	A	16	28	270	S
RB90N040D	40x32	26	22	4	A	16	16	270	S
RB90N050C	50x25	33	19	14	B	16	45	350	M
RB90N050D	50x32	33	22	9	B	16	41	350	M
RB90N050E	50x40	33	28	5	A	16	31	350	M
RB90N063C	63x25	38	19	19	B	16	71	180	M
RB90N063D	63x32	38	22	16	B	16	73	180	M
RB90N063E	63x40	38	26	12	B	16	76	180	M
RB90N063F	63x50	38	31	7	A	16	61	180	M
RB90N075D	75x32	44	22	22	B	16	128	110	M
RB90N075E	75x40	44	26	18	B	16	102	160	M
RB90N075F	75x50	44	31	14	B	16	122	110	M
RB90N075G	75x63	44	38	6	A	16	85	110	M
RB90N090F	90x50	51	31	20	B	16	171	65	M
RB90N090G	90x63	51	38	13	B	16	166	65	M
RB90N090H	90x75	51	44	7	A	16	140	65	M
RB90N110G	110x63	61	38	23	B	16	254	40	M
RB90N110H	110x75	61	44	17	B	16	262	40	M
RB90N110I	110x90	61	51	10	A	16	266	40	M
RB90N125H	125x75	69	44	25	B	16	440	50	L
RB90N125I	125x90	69	51	18	B	16	373	50	L
RB90N125L	125x110	69	61	8	A	16	260	50	L
RB90N140I	140x90	76	51	25	B	16	600	40	L
RB90N140L	140x110	76	61	15	B	16	480	40	L
RB90N140M	140x125	76	69	7	A	16	335	40	L
RB90N160I	160x90	88	56	30	B	16	850	24	L
RB90N160L	160x110	88	63	25	B	16	820	24	L
RB90N160M	160x125	88	71	17	B	16	745	24	L
RB90N160N	160x140	86	76	10	A	16	565	24	L
RB90N200O	200x160	106	86	20	B	10	1381	12	L
RB90N225O	225x160	119	86	33	B	10	2411	7	L
RB90N225P	225x200	119	106	13	A	10	1408	7	L
RB90N250O	250x160	134	87	47	B	10	2798	6	L
RB90N250P	250x200	134	107	27	B	10	1752	6	L
☆ RB90N250Q	250x225	132	120	12	A	10	2.1	6	L
☆ RB90N280Q	280x225	147	120	27	B	10	3687	4	L
☆ RB90N280R	280x250	147	132	15	A	10	2520	5	L
☆ RB90N315P	315x200	165	107	58	B	10	8.55	5	L2
☆ RB900315Q	315x225	165	132	33	B	10	8.09	5	L2
☆ RB900315R	315x250	165	132	33	B	10	5300	5	L2
☆ RB900315S	315x280	165	149	16	A	10	3800	5	L2
☆ RB900355T	355x315	184	163	21	A	6	5.5	4	L2
☆ RB900400T	400x315	206	165	41	B	6	10.7	3	L2
☆ RB900400U	400x355	206	185	21	A	6	7650	3	L2



## CA70

CAP

طبة

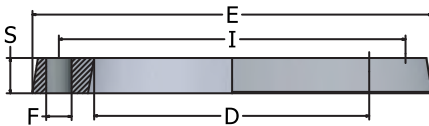


Code	d	L	H	E	PN	Gr	Pack	Box
CA70N0200	20	16	27	28	16	10	500	S
CA70N0250	25	19	31	33	16	18	350	S
CA70N0320	32	22	36	41	16	30	450	M
CA70N0400	40	28	43	52	16	45	300	M
CA70N0500	50	32	49	61	16	70	180	M
CA70N0630	63	39	57	75	16	120	100	M
CA70N0750	75	44	67	89	16	188	60	M
CA70N0900	90	51	80	106	16	295	65	L
CA70N1100	110	61	95	129	16	490	40	L
CA70N1250	125	69	102	145	16	680	33	L
CA70C1400	140	78	114	161	16	927	20	L
CA70N1600	160	86	126	181	16	1146	14	L
CA70N2000	200	106	145	227	10	2048	7	L
CA70N2250	225	119	160	254	10	2684	6	L
CA70C2500	250	131	208	286	10	3925	4	L

## BR00

LOOSE FLANGE  
DIN 8063 PN 10-16

فلانشة متحركة



Code	d	DN	D	E	S	I	F	Drill	Bolts	PN	GR
BR00C0250	25	20	34	105	12	75	14	4	M12x60	16	90
BR00C0320	32	25	42	115	14	85	14	4	M12x60	16	120
BR00C0400	40	32	51	142	15	100	18	4	M16x70	16	195
BR00N0500	50	40	62	152	16	110	18	4	M16x75	16	230
BR00N0630	63	50	78	165	18	125	18	4	M16x80	16	280
BR00N0750	75	65	92	185	19	145	18	4	M16x90	16	355
BR00N0900	90	80	110	200	20	160	18	8	M16x90	16	430
BR00N1100	110	100	133	220	22	180	18	8	M16x100	16	520
BR00N1250	125	110	149	230	24	190	18	8	M16x100	16	964
BR00N1400	140	125	167	250	26	210	18	8	M16x110	16	1165
BR00N1600	160	150	190	285	28	240	22	8	M20x120	16	930
BR00N2000	200	200	235	340	30	295	22	8	M20x120	10	1.2
BR00N2250	225	200	250	340	30	295	22	8	M20x120	10	2484
BR00N2500	250	225	280	395	34	350	22	12	M20x120	10	1.7
☆ BR0002800	280	250	310	395	30	350	22	12	M20x120	10	1300
☆ BR0003150	315	300	349	445	34	400	22	12	M20x120	10	2.7
☆ BR0003550	355	350	388	511	34	460	22	16	-	6	3.6
☆ BR0004000	400	400	438	572	34	515	25	16	-	6	4.5

## SA50

### SADDLE WITH STAINLESS STEEL BOLT AND NUT

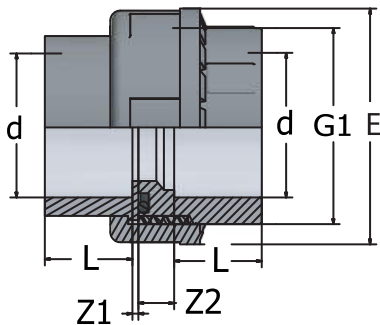
ركاب بأربع مسامير

Code	dxd1	L	L1	Z	Fig	PN	Gr	Pack	Box
SA51N075C	75x¾"	22	19	134	105	54	683	25	L
SA51N075D	75x1"	30	22	134	105	54	692	25	L
SA51N075F	75x1½"	31	25	134	105	54	725	25	L
SA51N075G	75x2"	31	30	134	105	54	780	25	L
SA51N090C	90x¾"	22	19	152	105	61	764	20	L
SA51N090D	90x1"	28	22	152	105	61	778	20	L
SA51N090F	90x1½"	40	25	152	105	61	805	20	L
SA51N090G	90x2"	40	30	152	105	61	877	20	L
SA51N110C	110x¾"	22	19	176	105	72	982	20	L
SA51N110D	110x1"	28	22	176	105	72	993	20	L
SA51N110F	110x1½"	40	25	176	105	72	1.02	20	L
SA51N110G	110x2"	40	30	176	105	72	1.08	20	L
SA51N125D	125x1"	25	22	190	112	80	1.26	20	L
SA51N125F	125x1½"	40	25	190	112	80	1.32	20	L
SA51N125G	125x2"	50	30	190	112	80	1.41	20	L
SA51N160D	160x1"	28	22	233	120	98	1.45	10	L
SA51N160F	160x1½"	40	25	233	120	98	1.48	10	L
SA51N160G	160x2"	50	30	233	120	98	1.52	10	L
SA51N200F	200x1½"	40	25	300	133	118	2.06	7	L
SA51N200G	200x2"	52	30	300	133	118	2.12	7	L
SA51N200I	200x3"	52	36	300	133	118	2.15	7	L
SA51N225F	225x1½"	40	25	333	125	132	2.61	7	L
SA51N225G	225x2"	50	30	333	125	132	2.65	7	L
SA51N225I	225x3"	74	36	333	125	132	2.74	7	L

## UN80

### UNION WITH O-RING

لاكور تجميع



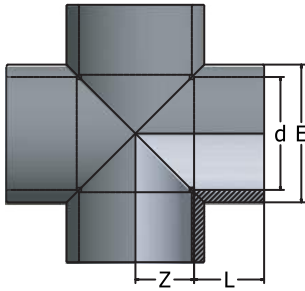
Code	d	L	Z1	Z2	G1	E	O-Ring	PN	GR	Pack	Box
UN80N0200	20	16	3	10	1"	42	4081	16	42	180	S
UN80N0250	25	19	3	10	1¼"	52	4112	16	70	220	M
UN80N0320	32	22	3	10	1½"	59	4131	16	97	150	M
UN80N0400	40	26	3	12	2"	72	6162	16	155	80	M
UN80N0500	50	31	3	14	2¼"	79	6187	16	194	120	L
UN80N0630	63	38	3	18	2¾"	96	6237	16	333	60	L
UN80N0750	75	44	3	18	3½"	119	6312	16	580	35	L
UN80N0900	90	51	5	18	4"	134	6362	16	760	24	L
UN80N1100	110	61	5	18	5"	163	6450	16	1280	12	L



## CR30

CROSS 90°

صليبة 90°



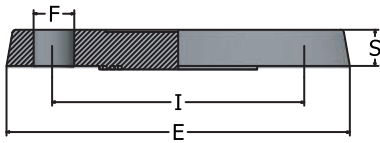
Code	d	L	Z	E	PN	Gr	Pack	Box
CR3000200	20	16	11	28	16	30	200	S
CR3000250	25	19	14	34	16	60	100	S
CR3000320	32	22	17	42	16	110	50	S
CR3000400	40	26	21	51	16	180	60	M
CR3000500	50	31	26	61	16	270	35	M
CR3000630	63	38	33	75	16	510	20	M
CR3000750	75	44	40	89	16	574	10	M
CR3000900	90	51	46	106	16	933	12	L
CR3001100	110	61	56	130	16	1588	7	L



## BF00

BLANK FLANGE

فلنشة عمياء

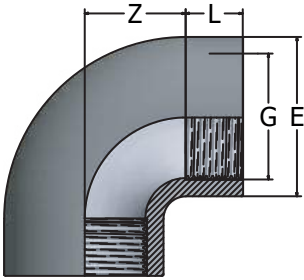


Code	d	DN	E	S	I	F	Drill	Bolts	PN	Gr	Pack
BF0000200	20	15	95	11	65	14	4	M12x55	16	76	150
BF0000250	25	20	105	12	75	14	4	M12x60	16	104	80
BF0000320	32	25	115	14	85	14	4	M12x60	16	140	65
BF0000400	40	32	142	15	100	18	4	M16x70	16	220	70
BF0000500	50	40	152	16	110	18	4	M16x75	16	280	65
BF0000630	63	50	165	18	125	18	4	M16x80	16	370	50
BF0000750	75	65	185	19	145	18	4	M16x90	16	495	35
BF0000900	90	80	200	20	160	18	8	M16x90	16	655	30
BF0001100	110	100	220	22	180	18	8	M16x100	16	850	20
BF0001250	125	110	230	24	190	18	8	M16x100	16	950	18
BF0001400	140	125	250	26	210	18	8	M16x110	16	1165	16
BF0001600	160	150	285	28	240	22	8	M20x120	16	1610	12
BF0002000	200*	200	340	30	295	22	8	M20x120	16	2312	10
BF0002250	225*	200	340	30	295	22	8	M20x120	16	2484	10

## EL51

### 90° ELBOW THREADED

كوع سن 90°

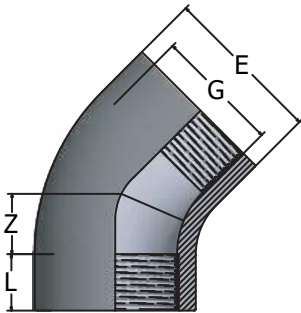


Code	G	L	Z	E	PN	Gr.	Pack	Box
EL51N0200	1/2"	15	12	27	16	17	300	S
EL51N0250	3/4"	16	17	33	16	30	300	M
EL51N0320	1"	19	20	41	16	53	300	M
EL51N0400	1 1/4"	21	28	50	16	85	300	M
EL51N0500	1 1/2"	21	38	60	16	180	300	L
EL51N0630	2"	26	46	75	16	340	300	L
EL51N0750	2 1/2"	30	54	89	16	436	40	L
☆ EL5100900	3"	33	66	106	16	770	25	L
☆ EL5101100	4"	39	80	129	16	1020	14	L

## ☆ EY51

### 45° ELBOW THREADED

كوع سن 45°

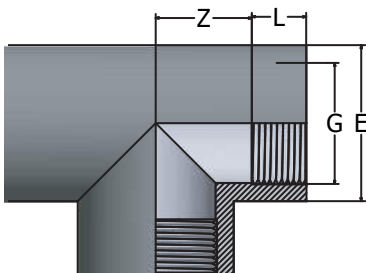


Code	G	L	Z	E	PN	Gr	Pack	Box
EY5100200	1/2"	15	6.5	28	16	18	700	M
EY5100250	3/4"	16	8.7	34	16	30	400	M
EY51C0320	1"	19	11	42	16	50	250	M
EY5100400	1 1/4"	21	15	51	16	72	150	M
EY5100500	1 1/2"	21	22	61	16	145	170	L
EY5100630	2"	26	27	75	16	254	90	L
EY5100750	2 1/2"	30	32	89	16	360	50	L
EY5100900	3"	33	39	106	16	620	30	L
EY5101100	4"	39	47	128	16	830	16	L

## TE41

### 90° TEE THREADED

مشترك سن 90°



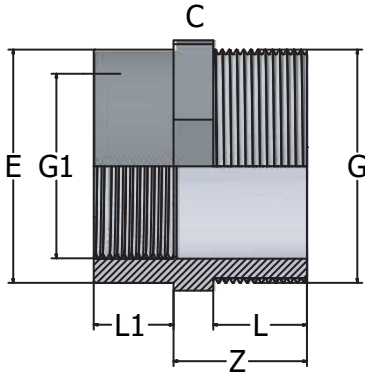
Code	G	L	Z	E	PN	Gr	Pack	Box
TE41N0200	1/2"	15	12	27	16	26	450	M
TE41N0250	3/4"	16	17	34	16	43	250	M
TE41N0320	1"	19	20	42	16	80	130	M
TE41C0400	1 1/4"	21	28	51	16	120	80	M
TE41N0500	1 1/2"	21	38	61	16	240	90	L
TE41N0630	2"	26	46	75	16	425	50	L
TE41C0750	2 1/2"	30	54	89	16	560	32	L
TE41C0900	3"	33	66	106	16	1000	20	L
TE41C1100	4"	39	80	129	16	1310	10	L



## RE61

### REDUCER MALE/ FEMALE

مسلوب سن خارجي / سن داخلي

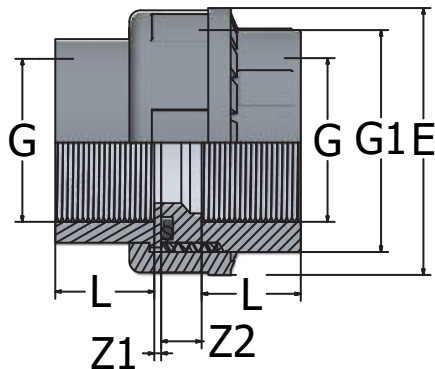


Code	GxG1	L	L1	Z	C	E	PN	Gr	Pack	Box
RE61N025B	3/4" x 1/2"	16	15	26	30	28	16	17	320	S
RE61N032B	1" x 1/2"	19	15	29	36	28	16	17	220	S
RE61N032C	1" x 3/4"	19	16	30	36	24	16	26	450	M
RE61C040B	1 1/4" x 1/2"	21	15	33	46	28	16	42	300	M
RE61C040C	1 1/4" x 3/4"	21	16	34	5	34	16	43	280	M
RE61C040D	1 1/4" x 1"	21	19	33	46	42	16	46	260	M
RE61C050C	1 1/2" x 3/4"	21	16	34	50	34	16	51	220	M
RE61N050D	1 1/2" x 1"	21	19	34	50	42	16	55	200	M
RE61C050E	1 1/2" x 1 1/4"	26	21	34	55	51	16	60	180	M
RE61N063C	2" X 3/4"	26	19	37	65	51	16	85	160	M
RE61N063D	2" x 1"	26	19	37	65	42	16	97	120	M
RE61N063E	2" x 1 1/4"	26	21	37	65	51	16	94	110	M
RE61N063F	2" x 1 1/2"	26	21	37	65	58	16	96	110	M
RE61C075E	2" 1/2 x 1" 1/4	30	21	43	80	51	16	140	85	M
RE61C075F	2" 1/2 x 1" 1/2	30	21	43	80	58	16	138	85	M
RE61C075G	2" 1/2 x 2"	30	26	43	80	72	16	142	60	M
RE61C090F	3" x 1" 1/2	33	21,4,	47	95	58	16	200	60	M
RE61C090G	3" x 2"	33	26	47	95	72	16	210	60	M
RE61C090H	3" x 2" 1/2	33	30	47	95	89	16	215	45	M
RE61C110G	4" x 2"	39	26	53	120	72	16	325	30	M
RE61C110H	4" x 2" 1/2	39	30	53	120	89	16	330	30	M
RE61C110I	4" x 3"	39	33	53	120	103	16	350	45	L

## UN81

### UNION WITH O-RING THREADED

لاکور تجميع سن



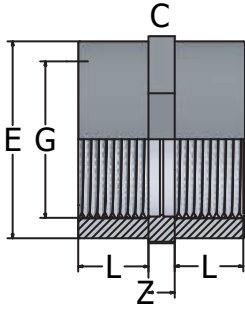
Code	G	L	Z1	Z2	G1	E	O-ring	Gr	Pack	Box
UN81N0200	1/2"	15	4	11	1"	42	4081	45	180	S
UN81N0250	3/4"	16	5.7	13	1" 1/4	52	4112	72	220	M
UN81N0320	1"	19	5.9	13	1" 1/2	59	4131	100	150	M
UN81N0400	1" 1/4	21	7.6	17	2"	72	6162	160	80	M
UN81N0500	1" 1/2	21	13	24	2" 1/4	79	6187	220	60	M
UN81N0630	2"	26	15	30	2" 3/4	96	6237	400	30	M
UN810750	2" 1/2	30	17	32	3" 1/2	119	6312	635	35	L
UN810900	3"	33	23	36	4"	134	6362	850	24	L
UN811100	4"	39	27	40	5"	163	6450	1260	12	L



## SO11

### SOCKET THREADED

جلبة سن

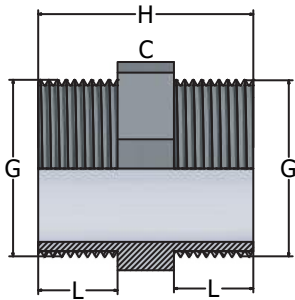


Code	G	L	Z	E	C	PN	Gr	Pack	Box
SO11N0200	1/2"	15	7	27	30	16	18	350	S
SO11N0250	3/4"	16	7	34	36	16	25	500	M
SO11N0320	1"	19	8	41	46	16	45	300	M
SO11N0400	1 1/4"	21	8	50	55	16	65	180	M
SO11N0500	1 1/2"	21	8	60	60	16	70	160	M
SO11N0630	2"	26	8	75	75	16	125	85	M
SO11C0750	2 1/2"	30	9	89	90	16	200	48	M
SO11C0900	3"	33	10	106	105	16	276	60	L
SO11C1100	4"	39	11	129	130	16	440	36	L

## NI61

### NIPPLE THREADED

نبل سن

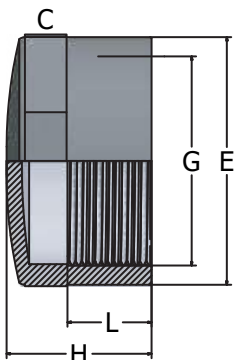


Code	G	L	H	C	PN	Gr	Pack	Box
NI61N0200	1/2"	15	42	24	16	11	500	S
NI61N0250	3/4"	16	44	30	16	18	450	M
NI61N0320	1"	19	50	36	16	28	450	M
NI61N0400	1 1/4"	21	58	46	16	47	240	M
NI61N0500	1 1/2"	21	58	55	16	61	160	M
NI61N0630	2"	26	66	65	16	98	200	L
NI61C0750	2 1/2"	30	78	80	16	144	60	M
NI61C0900	3"	33	85	95	16	230	70	L
NI61C1100	4"	39	96	120	16	345	40	L

## CA71

### CAP THREADED

طبة سن



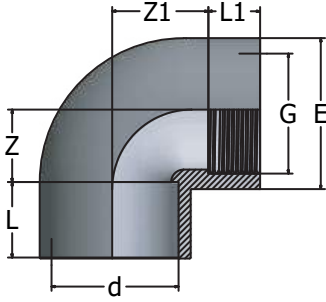
Code	G	L	H	E	C	PN	Gr	Pack	Box
CA71N0200	1/2"	15	26	28	30	16	13	450	S
CA71N0250	3/4"	16	28	34	36	16	19	280	S
CA71N0320	1"	19	32	42	46	16	30	180	S
CA71C0400	1 1/4"	21	35	51	55	16	56	120	S
CA71N0500	1 1/2"	21	35	58	60	16	84	230	M
CA71N0630	2"	26	39	72	75	16	113	125	M
CA71N0750	2 1/2"	30	52	89	90	16	190	45	M
CA71N0900	3"	33	56	103	105	16	270	45	M
CA71N1100	4"	39	64	130	130	16	499	30	M



## EL52

### 90° ELBOW PLAIN/ THREADED

كوع 90° لصق / سن

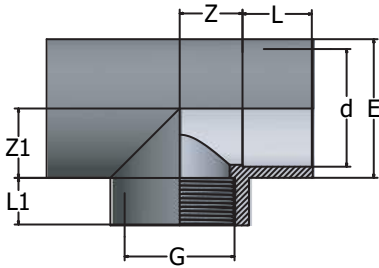


Code	dxG	L	L1	Z	Z1	E	PN	Gr	Pack	Box
EL52N020B	20X1/2	16	15	11	12	27	16	20	300	S
EL52N025C	25X3/4	19	16	14	16	33	16	35	350	M
EL52N032D	32X1	22	19	17	20	41	16	60	200	M
EL52N040E	40x1.1/4"	26	21	23	20	50	16	90	120	M
EL52N050F	50X11/2	31	21	28	28	60	16	155	140	L
EL52N063G	63X2	38	26	34	38	75	16	290	70	L
EL52C075H	75x2"1/2	44	30	40	46	89	16	410	40	L
EL52C090I	90x3"	51	33	48	54	106	16	700	25	L
EL52C110L	110x4"	61	39	58	66	129	16	1040	14	L

## TE42

### 90° TEE PLAIN/ THREADED

مشترك 90° لصق / سن

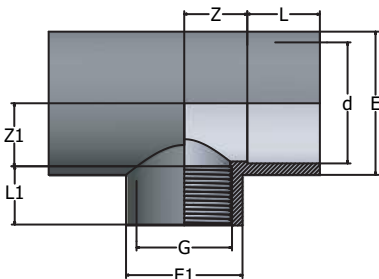


Code	dxG	L	L1	Z	Z1	E	Gr	Pack	Box
TE42N020B	20X1/2	16	15	11	12	27	25	200	S
TE42N025C	25X3/4	19	16	14	16	34	45	250	M
TE42N032D	32X1	22	19	17	20	42	75	130	M
TE42N040E	40/1.1/4"	26	21	23	20	51	120	80	M
TE42N050F	50X11/2	31	21	28	28	61	195	90	L
TE42N063G	63X2	38	26	34	38	75	350	50	L
TE42075H	75x2"1/2	44	30	40	46	89	505	32	L
TE42090I	90x3"	51	33	48	54	106	840	20	L
TE42110L	110x4"	61	39	58	66	129	1325	10	L

## TR42

### 90° TEE REDUCED PLAIN/ THREADED

مشترك مخفض 90° لصق / سن

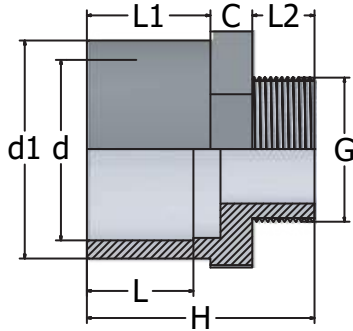


Code	dxG	L	L1	Z	Z1	E	E1	Gr	Pack	Box
TR42N032C	32 x 3/4	22	19	17	17	42	34	68	140	M
TR42N050B	50 x 1/2	31	16	26	26	61	28	165	50	M
TR42N050D	50 x 1	31	22	26	26	61	42	170	50	M
TR42N063B	63 X 1/2	38	16	33	33	75	28	280	30	M

## AD12

### MALE ADAPTOR

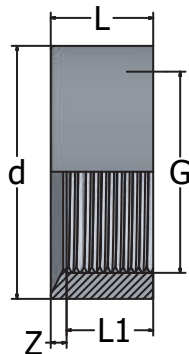
رأس خط سن خارجي



Code	dx $d_1$ xG	L	L1	L2	H	C	PN	Gr	Pack	Box
AD12N020B	20x25x1/2"	16	19	15	46	27	16	15	350	S
AD12N020C	20x25x3/4"	16	19	16	47	30	16	18	350	S
AD12N025B	25x32x1/2"	19	22	15	49	36	16	25	500	M
AD12N025C	25x32x3/4"	19	22	16	50	36	16	26	480	M
☆ AD120025D	25x32x1"	19	22	19	53	36	16	30	400	M
AD12N032C	32x40x3/4"	22	26	16	54	42	16	35	330	M
AD12N032D	32x40x1"	22	26	19	57	42	16	40	300	M
AD12N032E	32x40x1"1/4	22	26	21	60	46	16	45	240	M
☆ AD120040D	40x50x1"	26	31	19	64	55	16	74	160	M
AD12N040E	40x50x1"1/4	26	31	21	67	55	16	75	150	M
AD12N040F	40x50x1"1/2	26	31	21	67	55	16	77	140	M
AD12N050E	50x63x1"1/4	31	38	21	74	65	16	120	120	M
AD12N050F	50x63x1"1/2	31	38	21	74	65	16	113	120	M
AD12N050G	50x63x2"	31	38	26	78	65	16	120	170	L
AD12N063F	63x75x1"1/2	38	44	21	80	75	16	160	90	M
AD12N063G	63x75x2"	38	44	26	84	75	16	150	90	M
☆ AD120063H	63x75x2"1/2	38	44	30	91	80	16	180	90	L
AD12N075G	75x90x2"	44	51	26	94	95	16	280	45	M
AD12N075H	75x90x2"1/2	44	51	30	99	95	16	270	45	M
☆ AD120075I	75x90x3"	44	51	30	102	95	16	288	60	L
AD12N090H	90x110x2"1/2	51	61	30	110	115	16	475	45	L
AD120090I	90x110x3"	51	61	33	110	115	16	490	45	L
☆ AD120090L	90x110x4"	51	61	39	118	115	16	485	35	L
AD12N110I	110x125x3"	61	69	33	115	130	16	485	42	L
AD12N110L	110x125x4"	61	69	39	120	130	16	490	30	L
AD12N110N	110x125x5"	61	69	44	125	130	16	530	24	L

## RB92

### ADAPTOR REDUCING BUSH



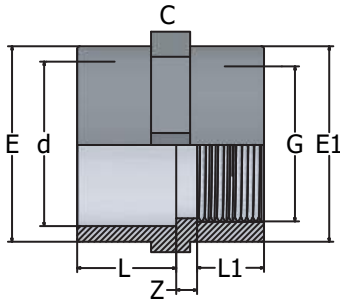
Code	dxG	L	L1	Z	PN	Gr	Pack	Box
RB92C025B	25x1/2"	14	15	4	16	8	700	S
RB92C032C	32x3/4"	16	16	5.7	16	12	450	S
RB92N040D	40x1"	19	19	6.9	16	22	270	S
RB92N050E	50x1"1/4	22	21	9.6	16	40	350	M
RB92C063F	63x1"1/2	26	21	17	16	68	180	M
RB92C075G	75x2"	31	26	18	16	96	110	M
RB92C090H	90x2"1/2	38	30	21	16	125	65	M
RB92C110I	110x3"	44	33	28	16	282	40	M



## SO12

### FEMALE ADAPTOR

جلبة لصق / سن

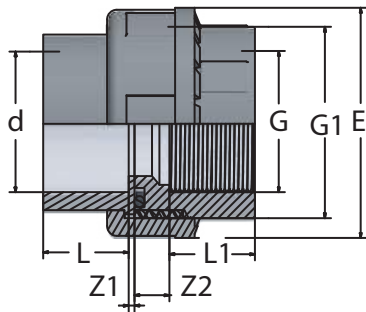


Code	dxG	L	L1	Z	E	E1	C	PN	Gr	Pack	Box
SO12N020B	20X1/2	16	15	7	27	27	30	16	15	350	S
SO12N025C	25X3/4	19	16	7	34	34	34	16	25	250	S
SO12N032D	32X1	22	19	8	41	41	42	16	38	300	M
SO12N040E	40X1 1/4"	26	21	8	50	50	55	16	61	180	M
SO12N050F	50X1 1/2"	31	21	8	60	60	65	16	95	120	M
SO12N063G	63X2	38	26	8	75	75	75	16	143	75	M
SO12N075H	75*2 1/2"	44	30	9	89	89	90	16	215	45	M
SO12N090I	90x3"	51	33	10	106	106	110	16	340	54	L
SO12N110L	110x4"	61	39	11	129	129	129	16	505	30	L
★ SO120125M	125x5"	69	44	38	160	143	/	10	1080	12	L

## UN82

### UNION WITH O-RING PLAIN/ THREADED

لاکور تجميع لصق / سن

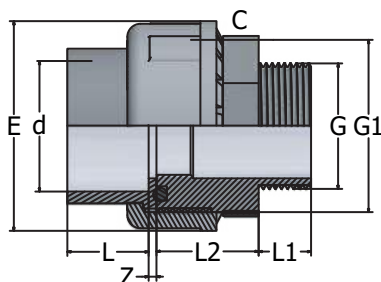


Code	dxG	L	L1	Z1	Z2	G1	E	O-Ring	Gr	Pack	Box
UN82C020B	20x1/2"	16	15	3	11	1"	42	4081	42	180	S
UN82C025C	25x3/4"	19	16	3	13	1 1/4"	52	4112	70	220	M
UN82N032D	32x1"	22	19	3	13	1 1/2"	59	4131	95	130	M
UN82N040E	40x1 1/4"	26	21	3	17	2"	72	6162	155	80	M
UN82N050F	50x1 1/2"	31	21	3	24	2 1/4"	79	6187	210	60	M
UN82N063G	63x2"	38	26	3	30	2 3/4"	96	6237	390	30	M
UN82C075H	75x2 1/2"	44	30	3	32	3 1/2"	119	6312	625	35	L
UN82C090I	90x3"	51	33	5	36	4"	134	6362	820	24	L
UN82C110L	110x4"	61	39	5	40	5"	163	6450	1280	12	L

## US82

### UNION MALE PLAIN/ THREADED WITH O-RING

لاکور تجميع لصق / سن خارجي

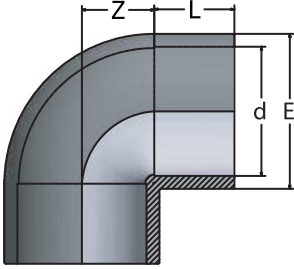


Code	dxG	L	L1	L2	Z1	C	G1	E	O-Ring	Gr	Pack
US82C050F	50x1 1/2"	31	21	40	3	65	2 1/4"	79	6187	300	50
US82C050G	50x2"	31	26	40	3	65	2 1/4"	79	6187	310	50
US82C063G	63x2"	38	26	42	3	70	2 1/4"	96	6237	430	30

## EL53

90° ELBOW BS

كوع 90°

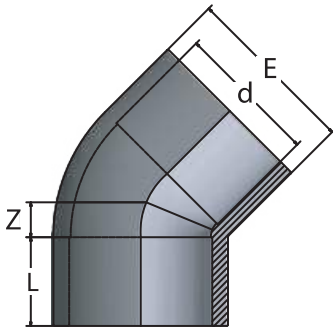


Code	d	L	Z	E	class	Gr	Pack	Box
EL53N0200	1/2"	16	11	26.5	E	15	300	S
EL53N0250	3/4"	19	14	32.5	E	24	350	M
EL53N0320	1"	22	17	41	E	42	200	M
EL53N0400	1 1/4"	26	23	50	E	72	120	M
EL53N0500	1 1/2"	31	28	60	E	150	140	L
EL53N0630	2"	38	34	75	E	285	70	L
EL53C0750	2 1/2"	44	40	89	E	380	40	L
EL53N0900	3"	51	48	106	E	655	25	L
EL53N1100	4"	61	59	132	E	1080	14	L
☆ EL5301600	6"	88	85	198	E	3990	4	L
☆ EL5302250	8"	119	115	258	E	8600	20	XL

## EY53

45° ELBOW BS

كوع 45°

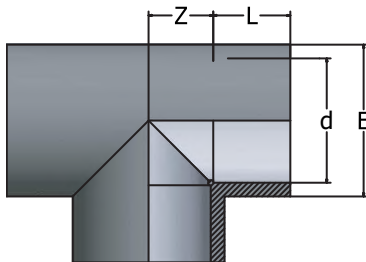


Code	d	L	Z	E	class	Gr	Pack	Box
EY53N0200	1/2"	16	5.5	28	E	15	700	M
EY53N0250	3/4"	19	6	34	E	25	450	M
EY53N0320	1"	22	8	42	E	41	250	M
EY53C0400	1 1/4"	26	10	51	E	59	150	M
EY53N0500	1 1/2"	31	12	61	E	125	140	L
EY53N0630	2"	38	15	75	E	215	70	L
EY53C0750	2 1/2"	44	18	88	E	310	50	L
EY53N0900	3"	51	21	106	E	500	30	L
EY53N1100	4"	61	25	130	E	920	16	L
☆ EY5301600	6"	88	36	198	E	2150	4	L
☆ EY5302250	8"	119	49	258	E	6800	26	XL

## TE43

90° TEE BS

مشارك 90°



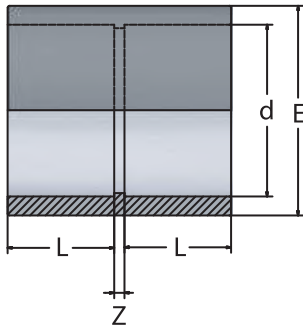
Code	d	L	Z	E	class	Gr	Pack	Box
TE43N0200	1/2"	16	11	27.5	E	21	450	M
TE43N0250	3/4"	19	14	33.5	E	35	250	M
TE43N0320	1"	22	17	42	E	63	130	M
TE43N0400	1 1/4"	26	21	51	E	101	80	M
TE43N0500	1 1/2"	31	26	61	E	207	90	L
TE43N0630	2"	38	33	75	E	365	50	L
TE43N0750	2 1/2"	44	39	89	E	495	32	L
TE43N0900	3"	51	47	106	E	837	20	L
TE43N1100	4"	61	62	132	E	1440	9	L
☆ TE4301600	6"	88	85	184	E	4950	3	L
☆ TE4302250	8"	119	114	258	E	11100	15	XL



## SO13

### SOCKET BS

جلبة

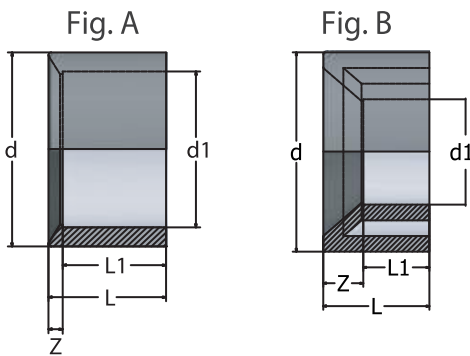


Code	d	L	Z	E	class	Gr	Pack	Box
SO13N0200	1/2"	16	3	28	E	13	380	S
SO13N0250	3/4"	19	3	34	E	20	500	M
SO13N0320	1"	22	3	42	E	33	300	M
SO13N0400	1 1/4"	26	3	51	E	50	200	M
SO13N0500	1 1/2"	31	3	61	E	89	220	L
SO13N0630	2"	38	3	75	E	168	125	L
SO13N0750	2 1/2"	44	4	88	E	222	85	L
SO13N0900	3"	51	5	106	E	372	45	L
SO13N1100	4"	61	6	132	E	620	27	L
SO13N1600	6"	88	11	190	E	1685	6	L
SO13N2250	8"	119	11	258	E	4200	42	XL
☆ SO1302800	10"	148	14	318	D	9050	14	XL

## RB93

### REDUCING BUSH BS

بوش قصير

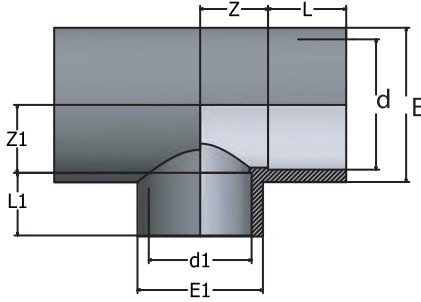


Code	dx d1	L	L1	Z	fig.	class	Gr	Pack	Box
RB93N025B	3/4" x 1/2"	19	16	3	A	E	5	700	S
RB93N032B	1" x 1/2"	22	16	6	A	E	12	400	S
RB93N032C	1" x 3/4"	22	19	3	A	E	6	400	S
RB93C040B	1 1/4 x 1/2"	26	16	10	B	E	23	250	S
RB93040C	1 1/4 x 3/4"	26	19	7	A	E	22	250	S
RB93N040D	1 1/4 x 1"	26	22	4	A	E	15	250	S
RB93N050C	1 1/2 x 3/4"	31	19	12	B	E	29	350	M
RB93N050D	1 1/2 x 1"	31	22	9	B	E	32	350	M
RB93N050E	1 1/2 x 1 1/4"	31	26	5	A	E	17	350	M
RB93N063D	2" x 1"	38	22	16	B	E	52	180	M
RB93C063E	2" x 1 1/4"	38	26	12	B	E	53	180	M
RB93N063F	2" x 1 1/2"	38	31	7	A	E	41	180	M
RB93C075F	2 1/2 x 1 1/2"	44	31	13	B	E	89	110	M
RB93C075G	2 1/2 x 2"	44	38	6	A	E	72	110	M
RB93N090F	3" x 1 1/2"	51	31	20	B	E	159	65	M
RB93N090G	3" x 2"	51	38	13	B	E	137	65	M
RB93N110G	4" x 2"	61	38	23	B	E	337	36	M
RB93N110I	4" x 3"	61	51	10	A	E	246	36	M
☆ RB930160L	6" x 4"	86	61	25	B	E	683	21	L
☆ RB930225O	8" x 6"	119	86	33	B	E	1540	7	L

## TR43

### 90° TEE REDUCED BS

مشترك منخفض

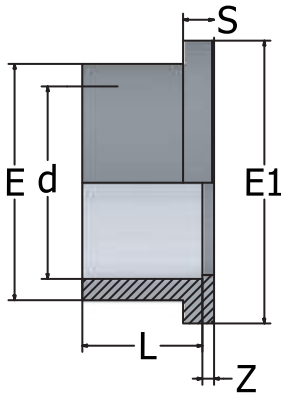


	Code	dxd1	L	L1	Z	Z1	E	E1	class	Gr	Pack	Box
☆	TR430040D	1"1/4x1"	26	22	21	21	51	42	E	118	90	M
	TR43N050B	1 1/2" X 1/2"	31	16	26	26	61	28	E	155	110	L
☆	TR430050C	1"1/2x3/4"	31	19	26	26	61	34	E	166	110	L
	TR43N050D	1 1/2" X 1"	31	22	26	26	61	42	E	170	110	L
☆	TR430050E	1"1/2x1"1/4"	31	26	26	26	61	51	E	178	100	L
	TR43N063C	2X 3/4"	38	19	33	33	75	34	E	270	70	L
	TR43N063D	2 X 1"	38	22	33	33	75	42	E	275	70	L
☆	TR430063E	2"x1"1/4"	38	26	33	33	75	51	E	288	70	L
	TR43N063F	2 X 1 1/2"	38	31	33	33	75	61	E	300	60	L
	TR43N090F	3X1.1/2"	51	31	47	47	106	61	E	740	24	L
	TR43N090G	3"1/2"	51	38	47	47	106	75	E	740	22	L
☆	TR430090H	3"x2"1/2"	51	44	47	47	106	89	E	760	22	L
	TR43N110F	4"x1"1/2"	61	31	57	57	129	61	E	1250	12	L
	TR43N110G	4"1/2"	61	38	57	57	129	75	E	1200	12	L
☆	TR430110I	4"x3"	61	51	57	57	129	106	E	1250	10	L

## ST23

### STUB FLANGE BS

بردة



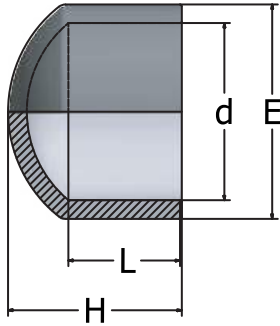
	Code	d	L	Z	S	E	E1	Class	Gr	Pack	Box
	ST23N0200	1/2"	16	3	6	27	34	E	10	550	S
	ST23N0250	3/4"	19	3	7	33	41	E	14	350	S
	ST23N0320	1"	22	3	7	41	50	E	23	200	S
	ST23N0400	1"1/4"	26	3	8	50	61	E	48	250	M
	ST23N0500	1"1/2"	31	3	8	61	73	E	68	180	M
	ST23N0630	2"	38	3	9	76	90	E	128	90	M
	ST23N0750	2"1/2"	44	3	10	90	106	E	160	120	L
	ST23N0900	3"	51	5	11	108	125	E	272	70	L
	ST23N1100	4"	61	5	12	131	150	E	361	45	L
☆	ST2301400	5"	76	5	14	165	188	E	750	20	L
☆	ST2301600	6"	88	7	14	193	288	E	1058	14	L
☆	ST2302250	8"	119	7	19	248	274	E	2092	6	L
☆	ST2302800	10"	148	14	34	307	327	D	3850	5	L2



## CA73

CAP BS

طبة

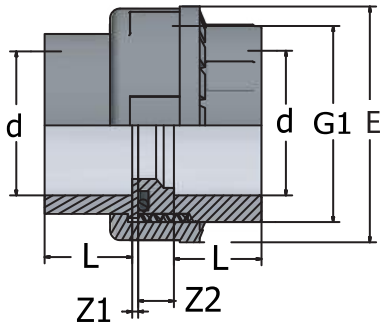


Code	d	L	H	E	class	Gr	Pack	Box
CA73N0200	1/2"	16	27	28	E	10	500	S
CA73N0250	3/4"	19	31	33	E	16	350	S
CA73N0320	1"	22	36	41	E	26	450	M
CA73N0400	1.1/4"	26	43	50	E	40	300	M
CA73N0500	1.1/2"	31	49	60.5	E	73	180	M
CA73N0630	2"	38	57	75	E	128	100	M
CA73N0750	2.1/2"	44	67	89	E	178	60	M
CA73N0900	3"	51	80	106	E	310	65	L
☆ CA7301100	4"	61	95	132	E	520	40	L
☆ CA7301400	5"	76	114	161	E	920	20	L
☆ CA7301600	6"	88	126	190	E	1317	14	L
☆ CA7302250	8"	119	145	258	E	3478	6	L

## UN83

UNION WITH O-RING BS

لاکور تجميع

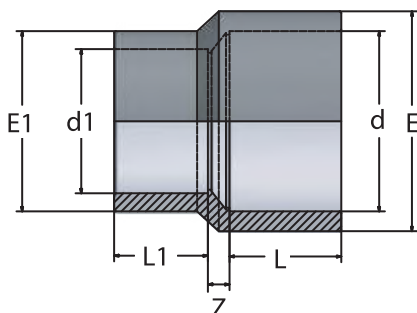


Code	d	L	Z1	Z2	G1	E	O-Ring class	Gr	Pack	Box	
UN83N0200	1/2"	16	3	10	1"	42	4081	E	41	180	S
UN83N0250	3/4"	19	3	10	1.1/4"	52	4112	E	67	220	M
UN83N0320	1"	22	3	10	1.1/2"	59	4131	E	90	130	M
UN83C0400	1.1/4"	26	3	12	2"	72	6162	E	135	80	M
UN83N0500	1.1/2"	31	3	14	2.1/4"	79	6187	E	206	120	L
UN83N0630	2"	38	3	18	2.3/4"	96	6237	E	360	60	L
UN83C0750	2.1/2"	44	3	18	3.1/2"	119	6312	E	580	35	L
UN83C0900	3"	51	5	18	4"	134	6362	E	777	24	L
UN83C1100	4"	61	5	18	5"	163	6450	E	1150	12	L

## RS13

REDUCING SOCKET BS

مسلوب طویل



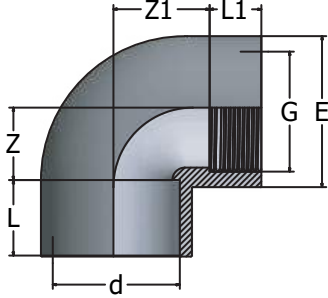
Code	dxd1	L	L1	Z	E	E1	class	Gr	Pack	Box
RS13N025B	3/4"x1/2"	19	16	6	34	28	E	32	250	S
RS13N032C	1"x3/4"	22	19	6	42	33	E	53	160	S
RS13N040D	1.1/4"x1"	26	22	6	51	41	E	89	220	M
RS13N050E	1.1/2"x1.1/4"	31	26	6	61	50	E	134	130	M
RS13N063F	2"x1.1/2"	38	31	6	75	61	E	225	80	M
RS13N075G	2.1/2"x2"	44	38	6	89	75	E	359	60	M
☆ RS130090H	3"x2.1/2"	51	44	6	106	88	E	571	36	M
☆ RS130110I	4"x3"	61	51	6	129	106	E	940	42	L



## EL54

90° ELBOW BS Plain/Threaded

كوع لصق / سن 90°

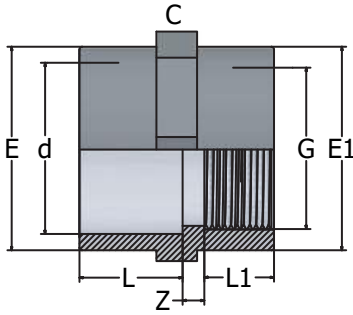


Code	dxG	L	L1	Z	Z1	E	Gr	Pack	Box
EL54N020B	1/2X1/2	16	15	11	12	27	15	300	S
EL54N025C	3/4X3/4	19	16	14	16	33	27	350	M
EL54N032D	1X1	22	19	17	20	41	48	200	M
EL54C040E	1"1/4x1"1/4	26	21	23	20	50	72	120	M
EL54N050F	1 1/2X1 1/2	31	21	28	28	60	162	140	L
EL54N063G	2X2	38	26	34	38	75	310	70	L
EL54C075H	2"1/2x2"1/2	44	30	40	46	89	410	40	L
EL54N090I	3"x3"	51	33	48	54	106	715	25	L
EL54N110L	4"x4"	61	33	58	66	132	1078	14	L

## SO14

FEMALE ADAPTOR

جلبة

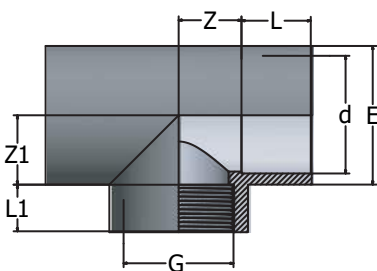


Code	dxG	L	L1	Z	E	E1	C	Gr	Pack	Box
SO14N020B	1/2"X1/2"	16	15	4	28	28	24	15	350	S
SO14N025C	3/4"X3/4"	19	16	4	34	34	30	22	250	M
SO14N032D	1"X1"	22	19	5	42	42	34	33	300	M
SO14C040E	1"1/4x1"1/4	26	21	5	51	50	42	63	180	M
SO14N050F	1 1/2"X1 1/2"	31	21	5	61	58	55	100	120	M
SO14N063G	2"X2"	38	26	5	75	72	65	158	75	M
SO14C075H	2"1/2x2"1/2	44	30	5	88	89	75	215	45	M
SO14N090I	3"x3"	51	33	8	106	106	90	347	54	L
SO14N110L	4"x4"	61	39	8	132	129	110	508	30	L

## TE44

90° TEE BS Plain/Threaded

مشترك لصق / سن 90°



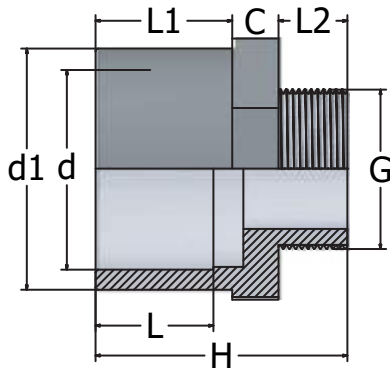
Code	dxG	L	L1	Z	Z1	E	Gr	Pack	Box
TE44N020B	1/2"X1/2"	16	15	11	12	28	25	200	S
TE44N025C	3/4"x3/4"	19	16	14	16	34	38	250	M
TE44N032D	1"x1"	22	19	17	20	42	69	130	M
TE44C040E	1"1/4x1"1/4	26	21	23	20	51	106	80	M
TE44N050F	1"1/2x1"1/2	31	21	28	28	61	213	90	L
TE44N063G	2"x2"	38	26	34	38	75	380	50	L
TE44075H	2"1/2x2"1/2	44	30	40	46	89	505	32	L



## AD14

### MALE THREADED ADAPTOR BS

رأس خط سن خارجي

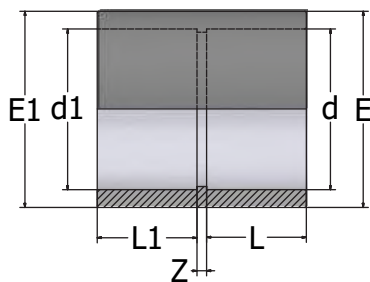


Code	dXd1XG	L	L1	L2	H	C	Gr	Pack	Box
AD14N020B	1/2"x3/4"x1/2"	16	19	15	46	27	15	350	S
AD14C020C	1/2"x3/4"x3/4"	16	19	16	47	30	16	300	S
AD14N025C	3/4"x1"x3/4"	19	22	16	50	36	27	450	M
AD14C025D	3/4"x1"x1"	19	22	19	53	36	29	400	M
AD14N032D	1"x1.1/4" x 1"	22	26	19	57	42	43	250	M
AD14C032E	1"x1.1/4"x1.1/4"	22	26	21	60	46	52	200	M
AD14N040E	1.1/4"x1.1/4"	26	31	21	67	55	61	150	M
AD14C040F	1.1/4"x1.1/2"x1.1/2"	26	31	21	67	55	64	140	M
AD14N050F	1.1/2" x2"x 1.1/2"	31	38	21	74	65	110	120	M
AD14C050G	1.1/2x2"x2"	31	38	26	78	65	124	170	L
AD14N063G	2"X2.1/2"X2"	38	44	26	84	75	152	90	M
AD14C063H	2"x2.1/2x2"1/2	38	44	30	91	80	180	90	L
AD14C075H	2.1/2x3"x2"1/2	44	51	30	99	95	260	45	M
AD14C075I	2.1/2x3"x3"	44	51	33	102	95	275	60	L
AD14N090I	3" x 4" x 3"	53	61	33	113	119	578	45	L
AD14C090L	3"x4"x4"	51	61	39	118	15	584	36	L
AD14N110L	4" x 5" x 4"	61	69	39	120	130	426	30	L
AD14C110N	4"x5"x5"	61	64	44	124	140	526	30	L

## SO15

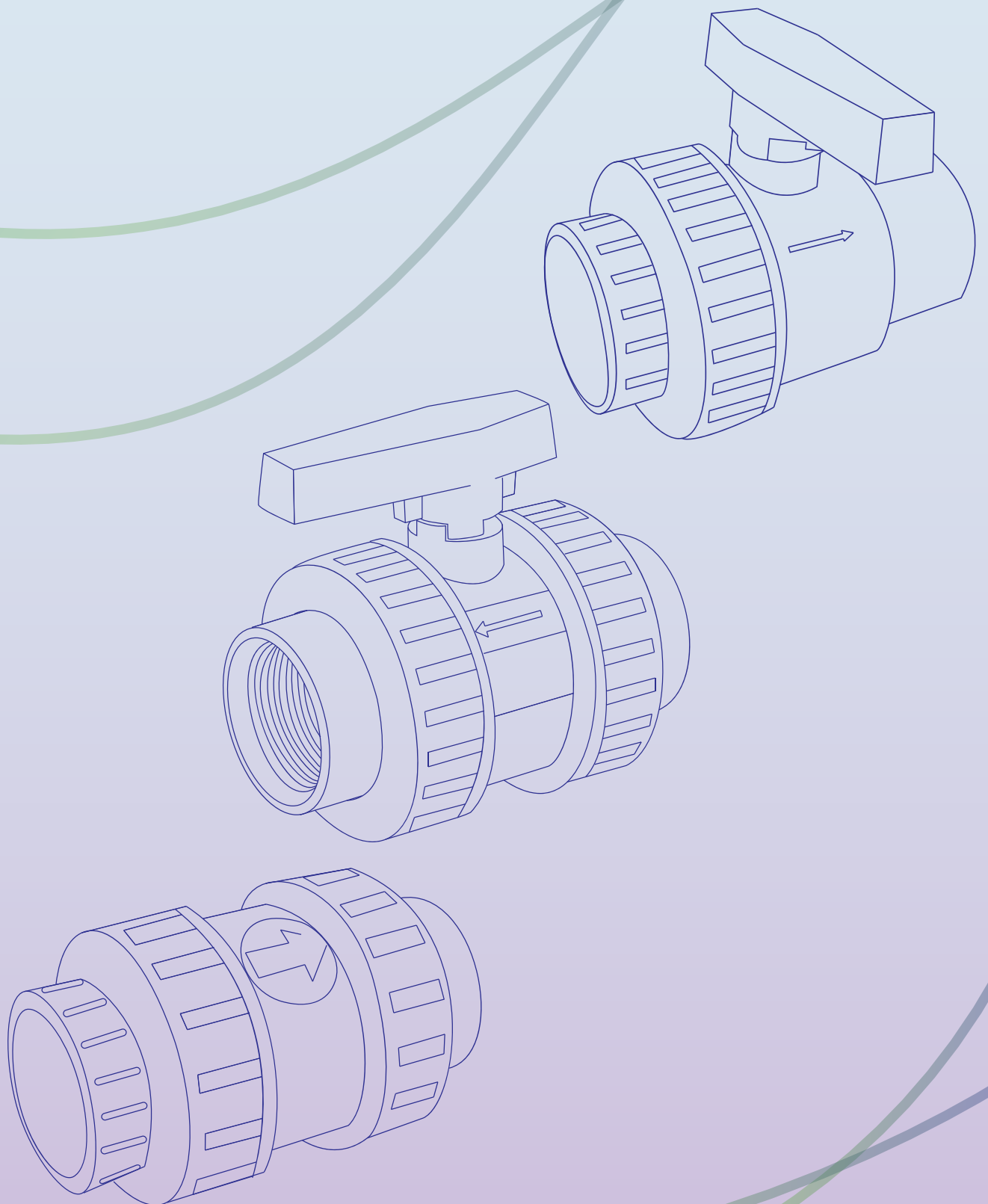
### ADAPTOR SOCKET

جلبة

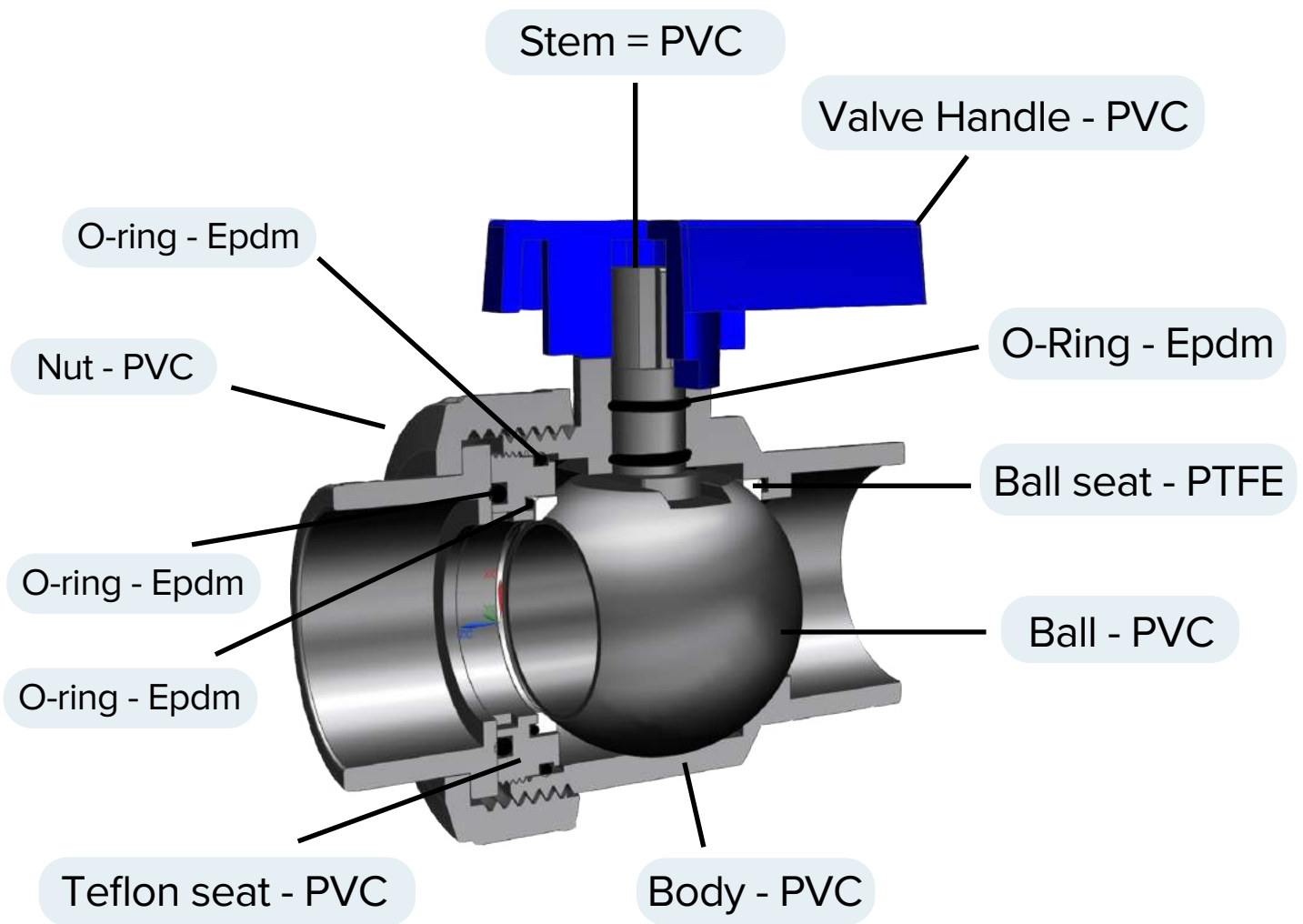


Code	dxd1	L1	L2	Z	E	E1	PN	Gr	Pack	Box
SO15N020B	20X1/2"	16	16	3	28	28	16	11	380	S
SO15N025C	25X3/4"	19	19	3	33	33	16	17	500	M
SO15N032D	32X1	22	22	3	41	41	16	27	300	M
SO15N040E	40X1.1/4"	26	26	3	50	50	16	45	200	M
SO15N050F	50X1.1/2"	31	31	3	61	61	16	64	220	L
SO15N063G	63X2"	38	38	3	75	75	16	109	125	L

# UPVC VALVES



## UPVC BALL VALVE





## Technical Data

### UPVC VALVES - General characteristics

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Our compact type, double and single union ball valves are characterized by low torque and full bore, and can be used, where applicable, as end stop valves. These features make These Valves the obvious choice for use in water treatment swimming pools foodstuff and potable water systems and with non-reactive chemicals.

### Installation and use

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When gluing the end connector on the pipe, care must be taken to prevent the glue or solvent from coming into contact with the valve seats or ball. Parallel threaded ends should not be connected with taper male heads and the use of hems or similar materials should be avoided. Special attention should be paid to the correct line-up of the installation and to the pipe length. Tighten the union nut hand-tight only. The use of a wrench is not recommended. It is important that the unions are not used to pull the system together. If there is any leakage from the union nuts, please check the correct line-up of the system and the pipe length. Excessive tightening of the union could break them. Before the valve is commissioned all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. Avoid rapid closing / opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline. It is important that all installation and maintenance personnel become familiar with the proper solvent cement and thread jointing procedures.

### Assembling & Disassembling instructions in case of maintenance

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#### Double union BVD

The whole body of the valve can be removed from the installation by unscrewing the union nuts. To reach the internal parts of the valve, proceed as follows:

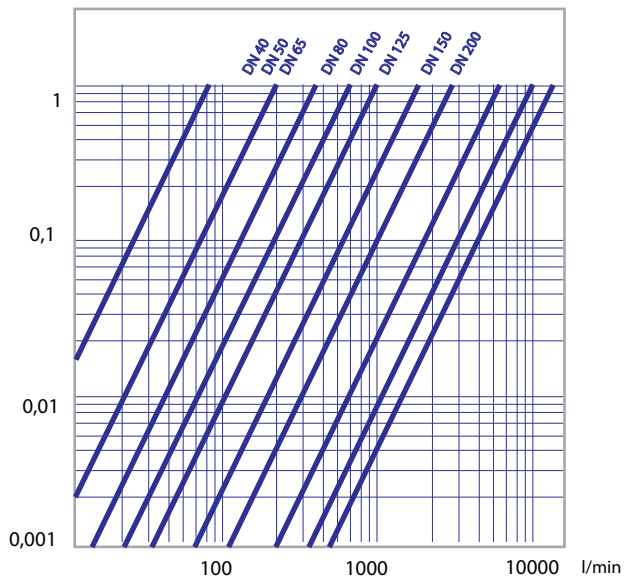
- A) Set the valve open.
- B) Remove the handle 1 from control stem 2
- C) Unscrew the sealing bush 7 off the body 3 using the two teeth (d) of the Handle 1 unscrewing operations should be done counter-clockwise.
- D) After having unscrewed the sealing bush 7 it is possible to dismantle all the internal parts of the valve and to check the O-rings. To remove the ball 6, turn the control stem 90° to the closed position. The ball can then be removed through the control stem 2. To remove the control stem push it downwards as far as possible. To reassemble the valve follows the instructions in reverse order, being careful to set the O-ring properly and grease it with silicone grease.

#### Single Union BVS

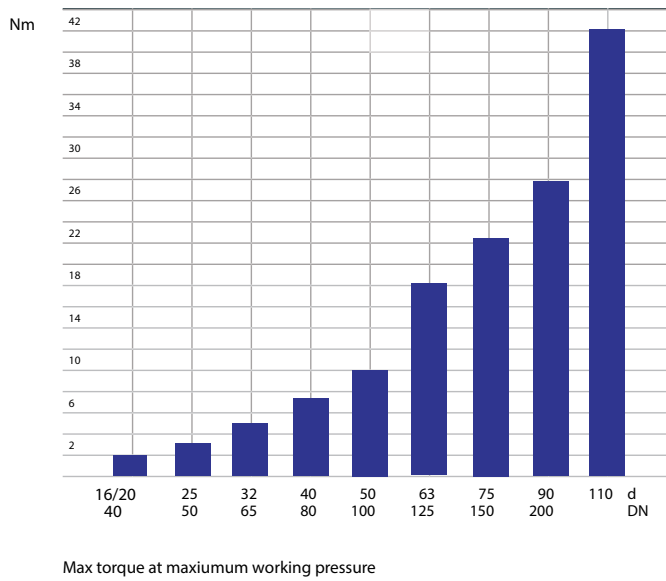
Positioning this valve in an installation, take care that it's not possible to remove it from the installation by unscrewing the union nut. To disassemble and reassemble the valve, follow the instructions of BVD version from point A to D.

\* All our check valves are manufactured to the same dimensions as our valves BVD 10/11/13 and can be removed from the installation by unscrewing the union nuts. Our whilst type CVD is a spring loaded check valve. Types FVD are foot valves, ARV is an air release valve.

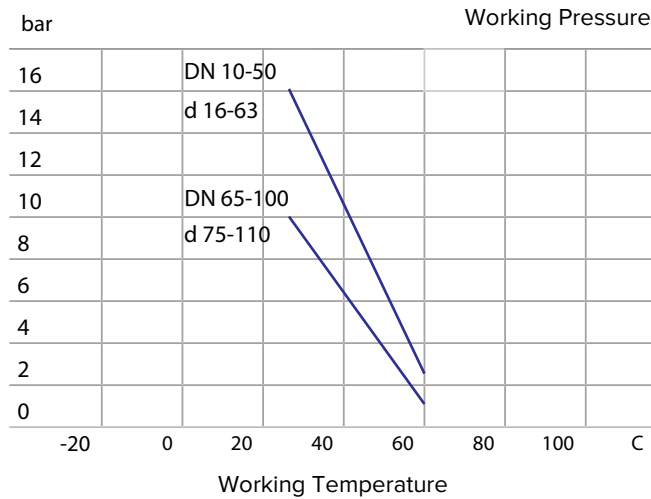
### Pressure Chart



### Working pressure



- Pressure/temperature rating for water and other suitable fluids to which PVC is Resistant.



### Flow Coefficient KV 100:

kV100 is the number of litres per minute of water at a temperature of 20 C that will flow through a valve with one-bar pressure differential at a specified rate. The kV100 values shown in the table are calculated with the valve completely open.

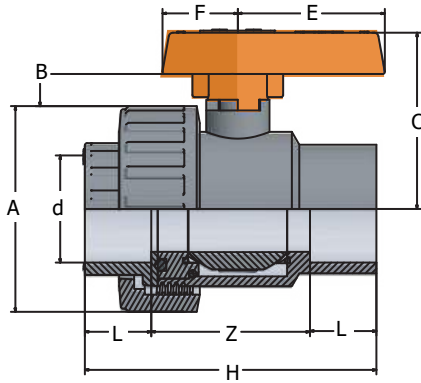
d	16	20	25	32	40	50	63	75	90	110
DN	10	15	20	25	32	40	50	65	80	100
K <sub>v100</sub>	80	200	385	770	1100	1750	3400	5250	7100	9500

Valves certified according to EN 1267



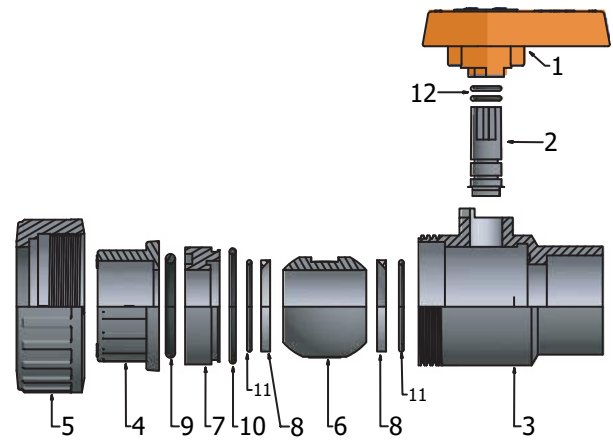
## BVS 10

Single union ball valve with female plain ends for solvent welding



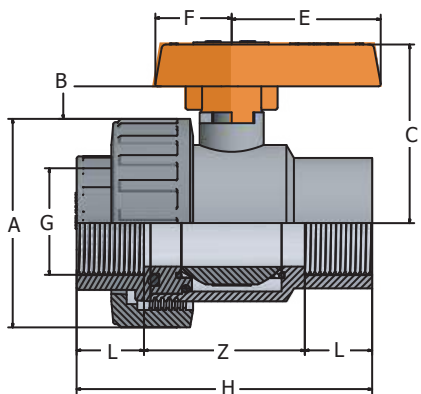
d	DN	L	Z	H	A	B	C	E	F	PN	Gr
20	15	16	44	76	50	10	48	39	19	16	110
25	20	19	52	90	60	11	54	47	22	16	170
32	25	22	58	102	68	13	62	55	25	16	250
40	32	26	66	118	80	18	75	60	30	16	370
50	40	31	74	127	96	20	87	68	35	16	560
63	50	38	92	168	116	20	101	80	40	16	980
75	65	44	126	210	145	25	123	90	45	10	1825
90	80	51	138	235	166	28	138	100	50	10	2900
110	100	61	153	275	210	28	160	120	60	10	4790

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



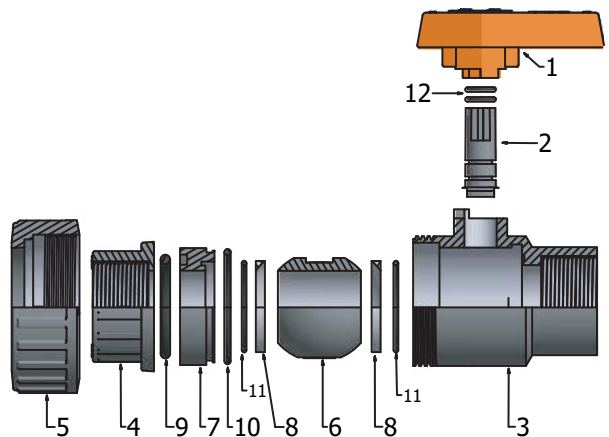
## BVS 11

Single union ball valve with female threaded ends



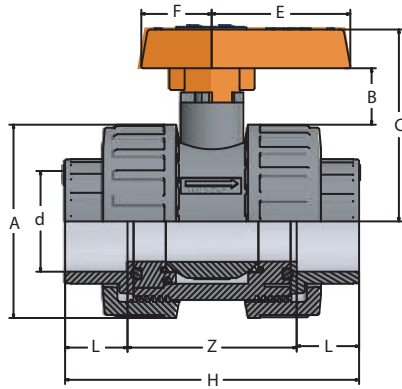
G	DN	L	Z	H	A	B	C	E	F	PN	Gr
1/2"	15	16	44	76	50	10	48	39	19	16	110
3/4"	20	19	52	90	60	11	54	47	22	16	170
1"	25	22	58	102	68	13	62	55	25	16	250
1 1/4"	32	26	66	118	80	18	75	60	30	16	370
1 1/2"	40	31	74	136	96	20	87	68	35	16	580
2	50	38	92	168	116	20	101	80	40	16	1030
2 1/2"	65	44	126	214	145	25	123	90	45	10	1870
3"	80	51	138	240	166	28	138	100	50	10	2950
4"	100	61	153	275	210	28	160	120	60	10	4850

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



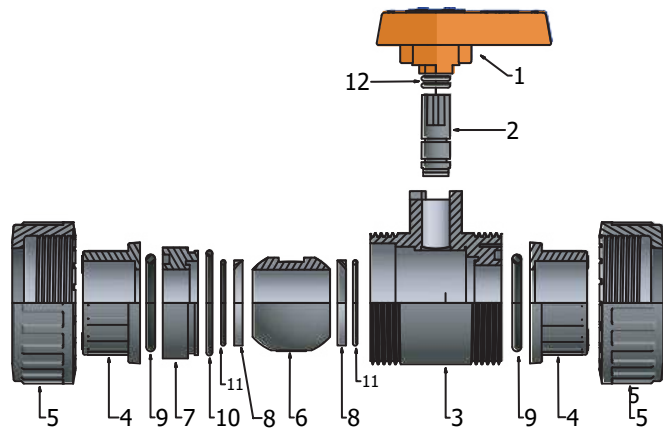
## BVD 10

Double union ball valve  
with plain ends for  
solvent welding



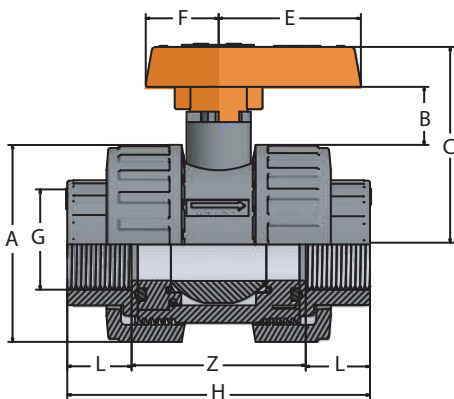
Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Sealing Bush	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM

d	DN	L	Z	H	A	B	C	E	F	PN	Gr
20	15	16	49	81	50	10	48	39	19	16	130
25	20	19	56	94	60	11	54	47	22	16	210
32	25	22	63	107	68	13	62	55	25	16	310
40	32	26	72	124	80	18	75	60	30	16	450
50	40	31	84	146	96	20	87	68	35	16	700
63	50	38	94	170	116	20	101	80	40	16	1180
75	65	44	130	218	145	25	123	90	45	10	2260
90	80	51	148	250	166	28	138	100	50	10	3520
110	100	61	168	290	210	28	160	120	60	10	5830



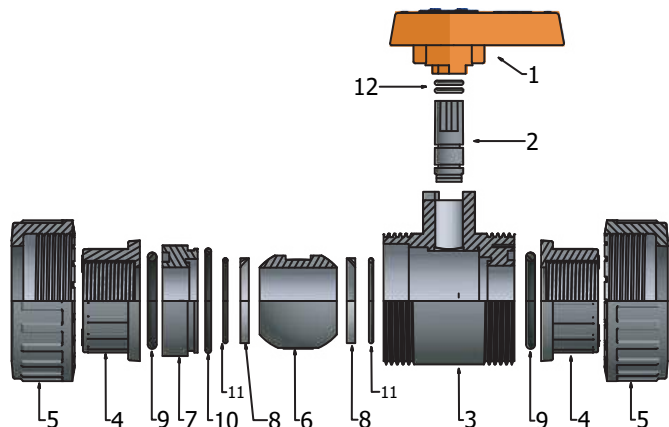
## BVD 11

Double union ball valve  
with female threaded ends



Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Sealing Bush	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM

d	DN	L	Z	H	A	B	C	E	F	PN	Gr
1/2"	15	16	49	81	50	10	48	39	19	16	130
3/4"	20	19	56	94	60	11	54	47	22	16	210
1"	25	22	63	107	68	13	62	55	25	16	310
1 1/4"	32	26	72	124	80	18	75	60	30	16	450
1 1/2"	40	31	84	146	96	20	87	68	35	16	730
2"	50	38	94	170	116	20	101	80	40	16	1220
2 1/2"	65	44	130	218	145	25	123	90	45	10	2300
3"	80	51	148	250	166	28	138	100	50	10	3650
4"	100	61	168	290	210	28	160	120	60	10	6000

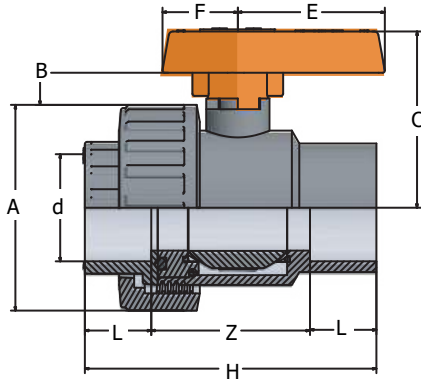






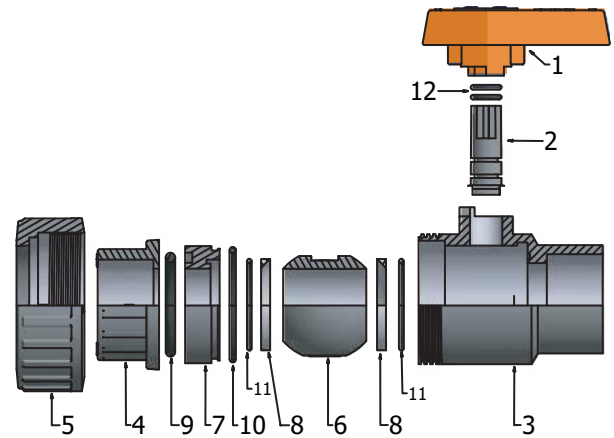
## BVS 13

Single union ball valve  
with BS male plain ends  
for solvent welding



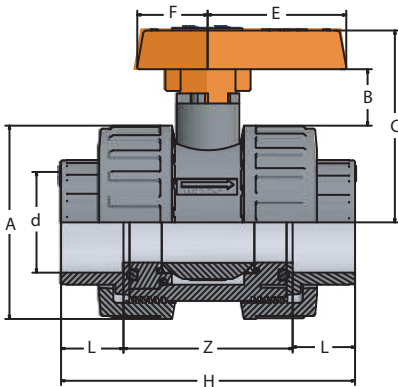
d	DN	L	Z	H	A	B	C	E	F	Class	PN	Gr
1/2"	15	16	44	76	50	10	48	39	19	E	16	105
3/4"	20	19	52	90	60	11	54	47	22	E	16	170
1"	25	22	58	102	68	13	62	55	25	E	16	250
1 1/4"	32	26	66	118	80	18	75	60	30	E	16	370
1 1/2"	40	31	74	127	96	20	87	68	35	E	16	448
2"	50	38	92	168	116	20	101	80	40	E	16	784
2 1/2"	65	44	126	214	145	25	123	90	45	D	16	1460
3"	80	51	133	235	166	28	138	100	50	D	10	2320
4"	100	61	153	275	210	28	160	120	60	D	10	3832

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



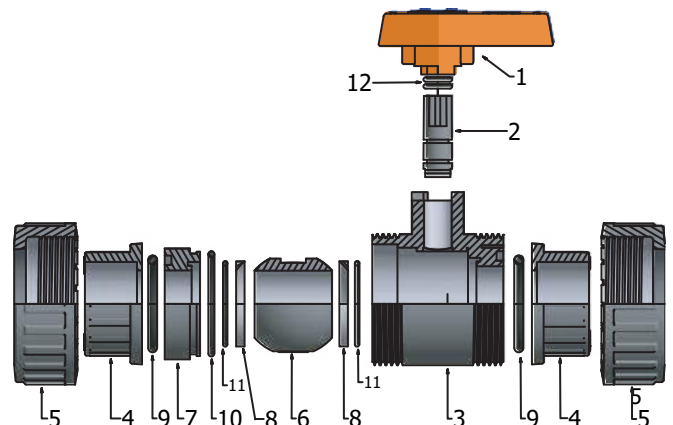
## BVD 13

Double union ball valve  
with BS female plain ends  
for solvent welding



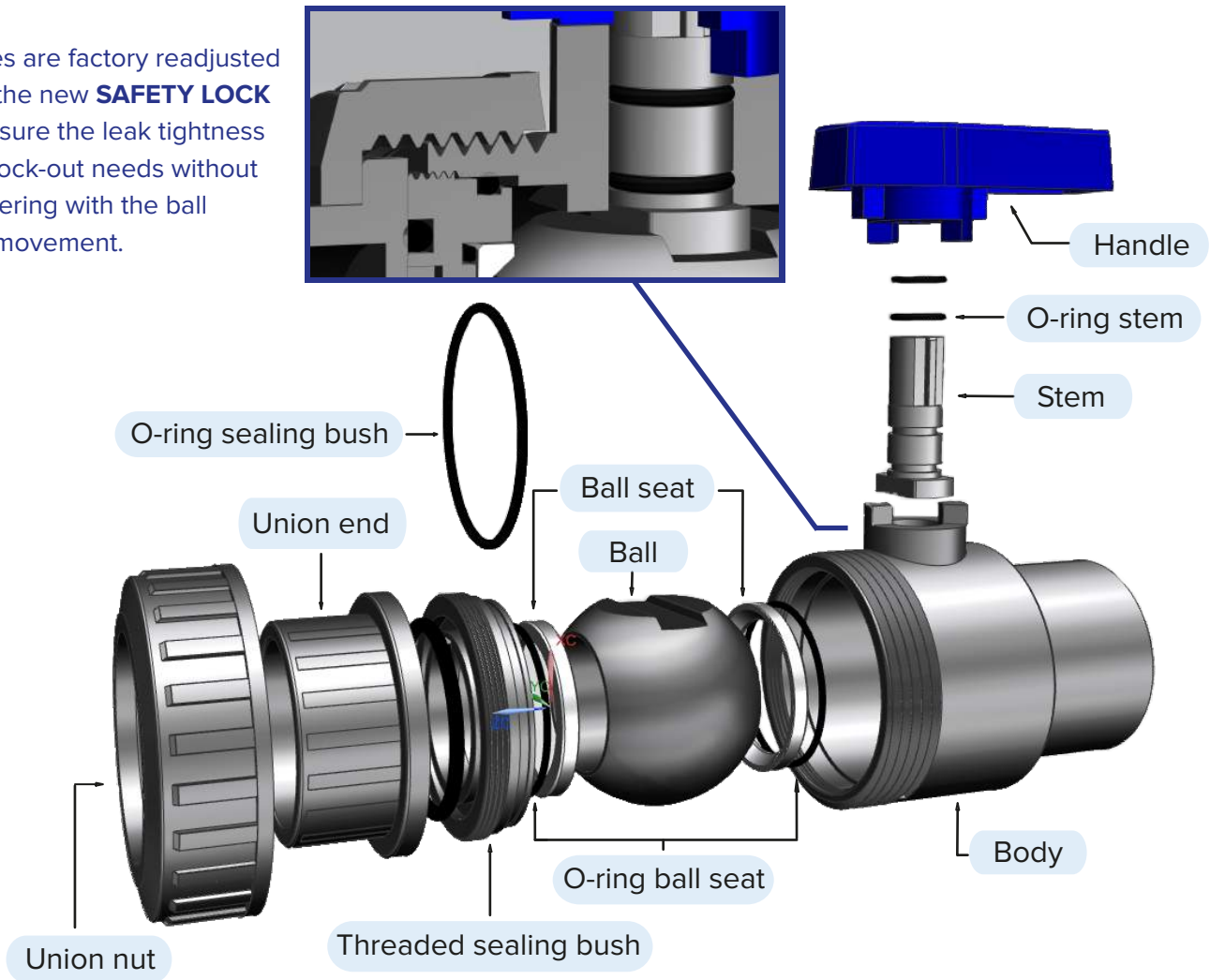
D	DN	L	Z	H	A	B	C	E	F	Class	PN	Gr
1/2"	15	16	49	81	50	10	48	39	19	E	16	130
3/4"	20	19	56	94	60	11	54	47	22	E	16	200
1"	25	22	63	107	68	13	62	55	25	E	16	295
1 1/4"	32	26	72	124	80	18	75	60	30	E	16	440
1 1/2"	40	31	84	146	96	20	87	68	35	E	16	720
2"	50	38	94	170	116	20	101	80	40	E	16	1190
2 1/2"	65	44	130	218	145	25	123	90	45	D	16	2210
3"	80	51	148	290	166	28	138	100	50	D	10	3520
4"	100	61	168	290	210	28	160	120	60	D	10	5150

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



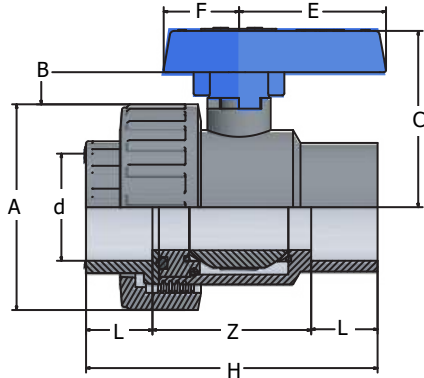
## UPVC BALL VALVE WITH SAFETY LOCK

Valves are factory readjusted with the new **SAFETY LOCK** to ensure the leak tightness and lock-out needs without tampering with the ball free movement.



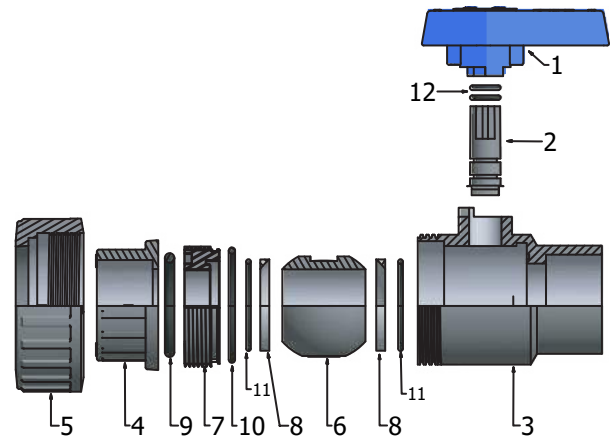
## BVSL 10

Single union ball valve  
with adjustable seat  
& female plain ends



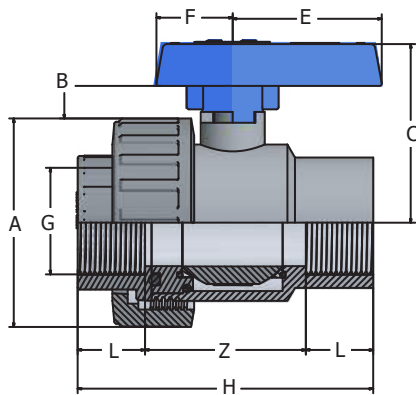
d	DN	L	Z	H	A	B	C	E	F	PN	Gr
20	15	16	44	76	50	10	48	39	19	16	110
25	20	19	52	90	60	11	54	47	22	16	170
32	25	22	58	102	68	13	62	55	25	16	250
40	32	26	66	118	80	18	75	60	30	16	370
50	40	31	74	127	96	20	87	68	35	16	560
63	50	38	92	168	116	20	101	80	40	16	980
75	65	44	126	210	145	25	123	90	45	10	1825
90	80	51	138	235	166	28	138	100	50	10	2900
110	100	61	153	275	210	28	160	120	60	10	4790

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



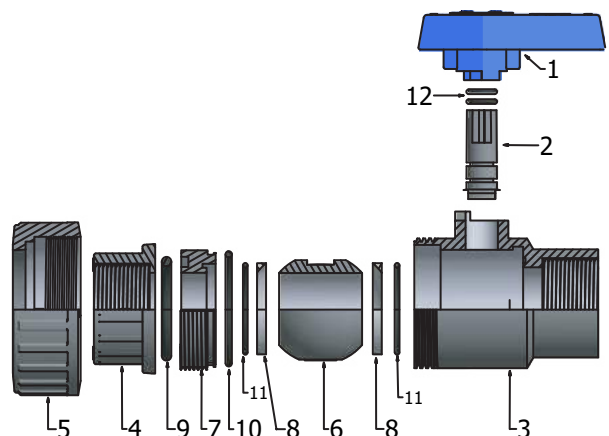
## BVSL 11

Single union ball valve  
with adjustable seat &  
female threaded ends



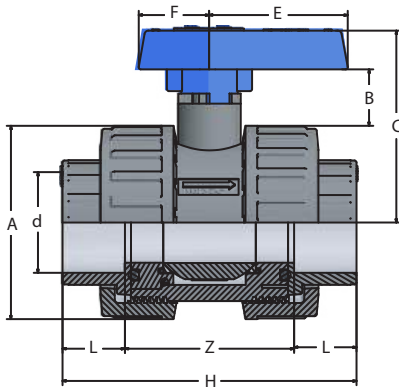
G	DN	L	Z	H	A	B	C	E	F	PN	Gr
1/2"	15	16	44	76	50	10	48	39	19	16	110
3/4"	20	19	52	90	60	11	54	47	22	16	170
1"	25	22	58	102	68	13	62	55	25	16	250
1 1/4"	32	26	66	118	80	18	75	60	30	16	370
1 1/2"	40	31	74	136	96	20	87	68	35	16	580
2	50	38	92	168	116	20	101	80	40	16	1030
2 1/2"	65	44	126	214	145	25	123	90	45	10	1870
3"	80	51	138	240	166	28	138	100	50	10	2950
4"	100	61	153	275	210	28	160	120	60	10	4850

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



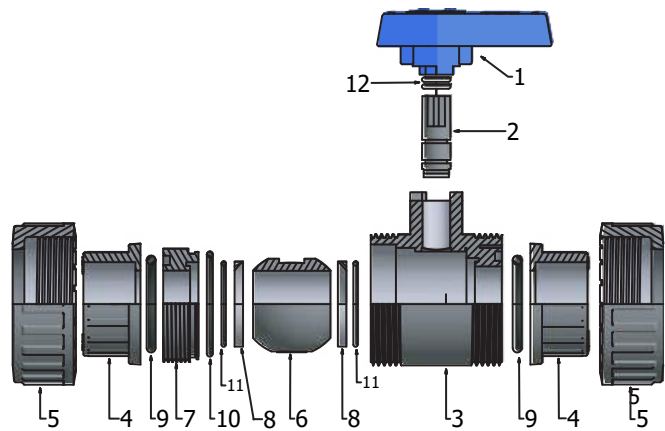
## BVDL 10

Double union ball valve with adjustable seat & female plain ends



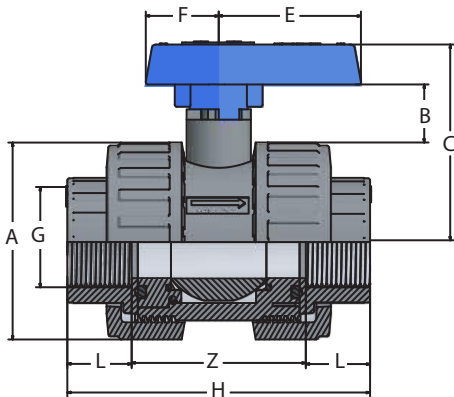
d	DN	L	Z	H	A	B	C	E	F	PN	Gr
20	15	16	49	81	50	10	48	39	19	16	130
25	20	19	56	94	60	11	54	47	22	16	210
32	25	22	63	107	68	13	62	55	25	16	310
40	32	26	72	124	80	18	75	60	30	16	450
50	40	31	84	146	96	20	87	68	35	16	700
63	50	38	94	170	116	20	101	80	40	16	1180
75	65	44	130	218	145	25	123	90	45	10	2260
90	80	51	148	250	166	28	138	100	50	10	3520
110	100	61	168	290	210	28	160	120	60	10	5830

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Sealing Bush	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



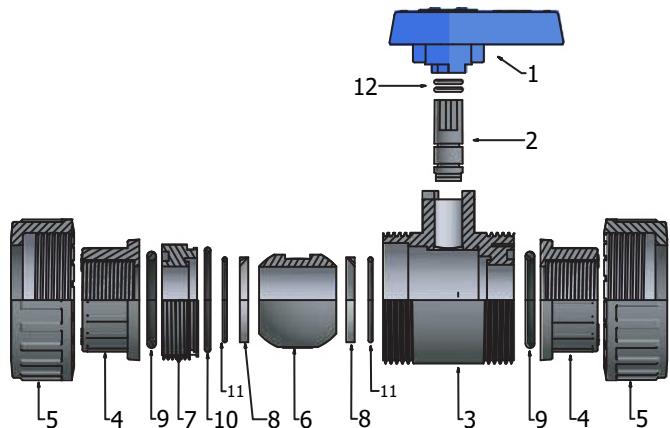
## BVDL 11

Double union ball valve with adjustable seat & female threaded ends



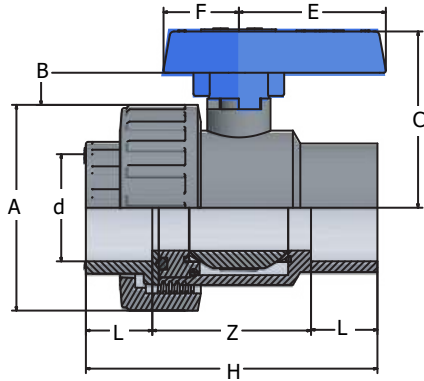
d	DN	L	Z	H	A	B	C	E	F	PN	Gr
1/2"	15	16	49	81	50	10	48	39	19	16	130
3/4"	20	19	56	94	60	11	54	47	22	16	210
1"	25	22	63	107	68	13	62	55	25	16	310
1 1/4"	32	26	72	124	80	18	75	60	30	16	450
1 1/2"	40	31	84	146	96	20	87	68	35	16	730
2"	50	38	94	170	116	20	101	80	40	16	1220
2 1/2"	65	44	130	218	145	25	123	90	45	10	2300
3"	80	51	148	250	166	28	138	100	50	10	3650
4"	100	61	168	290	210	28	160	120	60	10	6000

Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Sealing Bush	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM



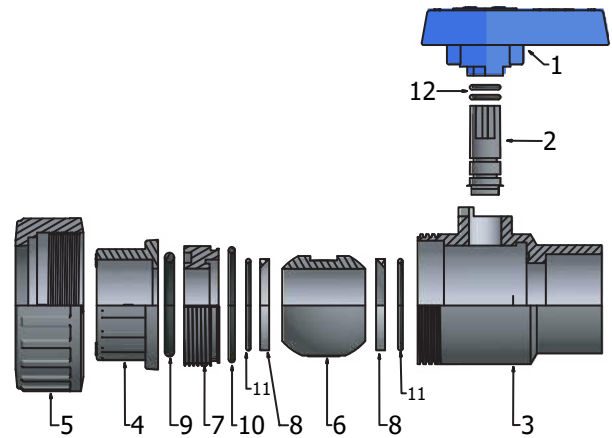
## BVSL 13

Single union ball valve  
with adjustable seat &  
BS male plain ends



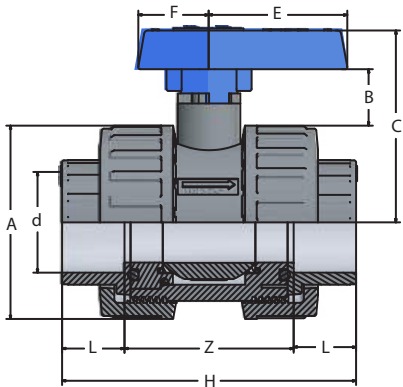
Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM

d	DN	L	Z	H	A	B	C	E	F	Class	PN	Gr
1/2"	15	16	44	76	50	10	48	39	19	E	16	105
3/4"	20	19	52	90	60	11	54	47	22	E	16	170
1"	25	22	58	102	68	13	62	55	25	E	16	250
1 1/4"	32	26	66	118	80	18	75	60	30	E	16	370
1 1/2"	40	31	74	127	96	20	87	68	35	E	16	448
2"	50	38	92	168	116	20	101	80	40	E	16	784
2 1/2"	65	44	126	214	145	25	123	90	45	D	16	1460
3"	80	51	133	235	166	28	138	100	50	D	10	2320
4"	100	61	153	275	210	28	160	120	60	D	10	3832



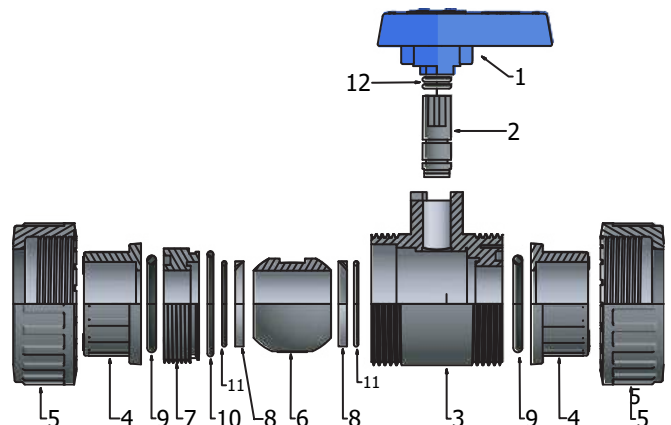
## BVDL 13

Double union ball valve  
with adjustable seat &  
BS female plain ends



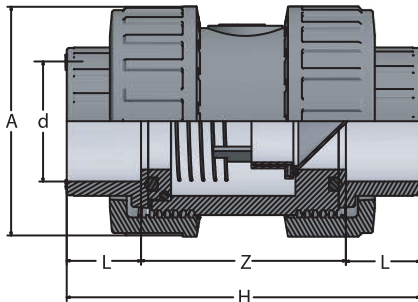
Pos.	Components	N°	Material	Pos.	Components	N°	Material
1	Handle	1	PVC	7	Support	1	PVC
2	Stem	1	PVC	8	Ball Seat	2	PTFE
3	Body	1	PVC	9	Union o-ring	2	EPDM
4	Union end	2	PVC	10	O-ring sealing bush	1	EPDM
5	Union Nut	2	PVC	11	O-ring ball seat	2	EPDM
6	Ball	1	PVC	12	O-ring stem	2	EPDM

D	DN	L	Z	H	A	B	C	E	F	Class	PN	Gr
1/2"	15	16	49	81	50	10	48	39	19	E	16	130
3/4"	20	19	56	94	60	11	54	47	22	E	16	200
1"	25	22	63	107	68	13	62	55	25	E	16	295
1 1/4"	32	26	72	124	80	18	75	60	30	E	16	440
1 1/2"	40	31	84	146	96	20	87	68	35	E	16	720
2"	50	38	94	170	116	20	101	80	40	E	16	1190
2 1/2"	65	44	130	218	145	25	123	90	45	D	16	2210
3"	80	51	148	290	166	28	138	100	50	D	10	3520
4"	100	61	168	290	210	28	160	120	60	D	10	5150



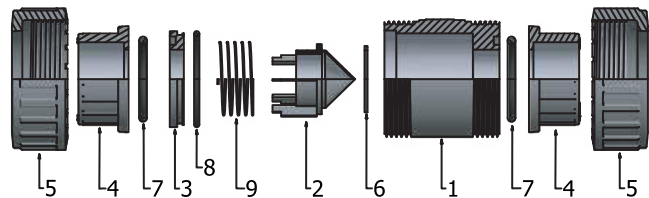
## CVD 10

Check valve with female sockets for solvent welding



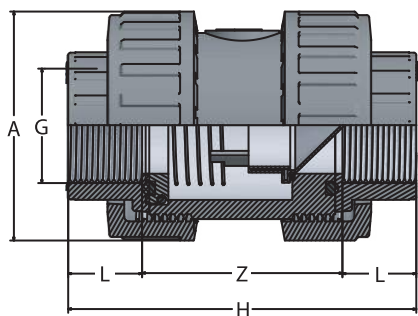
Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX

d	DN	L	Z	H	A	PN	Gr
20	15	16	49	81	50	16	110
25	20	19	56	94	60	16	170
32	25	22	63	107	68	16	250
40	32	26	72	124	80	16	370
50	40	31	84	146	96	16	560
63	50	38	94	170	116	16	980
75	65	44	130	218	145	10	1740
90	80	51	148	250	166	10	2770
110	100	61	168	290	210	10	4740



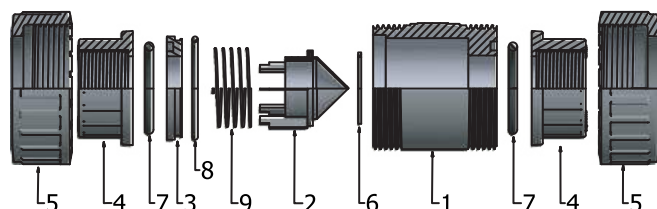
## CVD 11

Check valve female with female threaded sockets



Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX

G	DN	L	Z	H	A	PN	Gr
1/2"	15	16	49	81	50	16	110
3/4"	20	19	56	94	60	16	170
1"	25	22	63	107	68	16	250
1 1/4"	32	26	72	124	80	16	370
1 1/2"	40	31	84	146	96	16	560
2"	50	38	94	170	116	16	980
2 1/2"	65	44	130	218	145	10	1740
3"	80	51	148	250	166	10	2770
4"	100	61	168	290	210	10	4740



Minimum pressure drop in the fully open position

d	20	25	32	40	50	63	75	90	110
R 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
bar	0.010	0.010	0.015	0.015	0.020	0.020	0.030	0.030	0.030

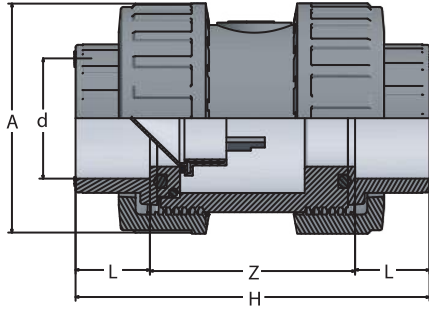
Minimum back pressure for tight service (valve in closed position)

d	20	25	32	40	50	63	75	90	110
R 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
bar	0.010	0.010	0.015	0.015	0.020	0.020	0.030	0.030	0.030



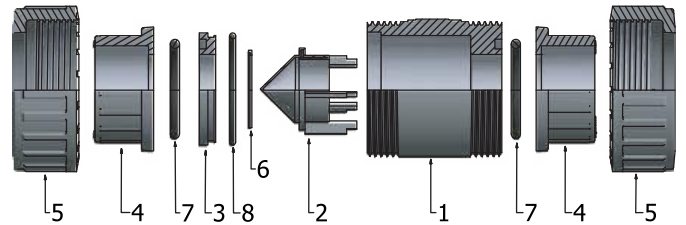
## ARV 10

Air release valve with female sockets for solvent welding



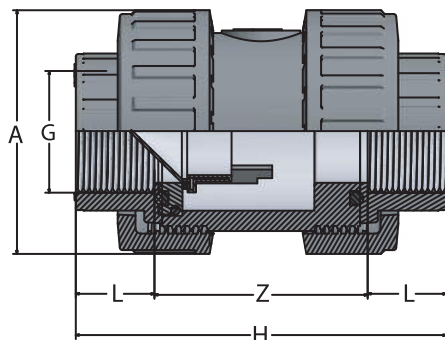
Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX

d	DN	L	Z	H	A	PN	Gr
20	15	16	49	81	50	16	85
25	20	19	56	94	60	16	140
32	25	22	63	107	68	16	240
40	32	26	72	124	80	16	395
50	40	31	84	146	96	16	670
63	50	38	94	170	116	16	1130
75	65	44	130	218	145	10	1780
90	80	51	148	250	166	10	2850
110	100	61	168	290	210	10	4810



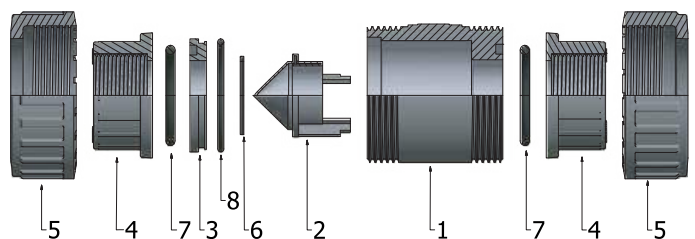
## ARV 11

Air release valve with female threaded sockets



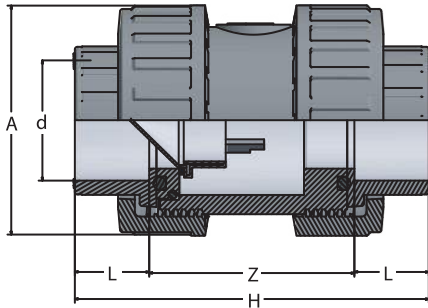
Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX

G	DN	L	Z	H	A	PN	Gr
1/2"	15	16	49	81	50	16	85
3/4"	20	19	56	94	60	16	140
1"	25	22	63	107	68	16	240
1 1/4"	32	26	72	124	80	16	395
1 1/2"	40	31	84	146	96	16	690
2"	50	38	94	170	116	16	1170
2 1/2"	65	44	130	218	145	10	1800
3"	80	51	148	250	166	10	2900
4"	100	61	168	290	210	10	4840



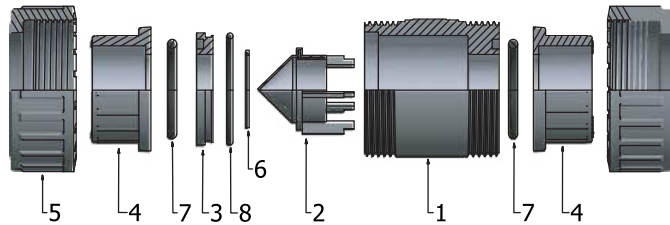
## ARV 13

Air release valve with BS female socket for solvent welding



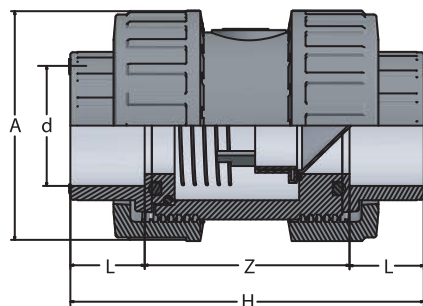
d	DN	L	Z	H	A	Class	Gr.
1/2"	15	16	49	81	50	E	85
3/4"	20	19	56	94	60	E	140
1"	25	22	63	107	68	E	240
1 1/4"	32	26	72	124	80	E	395
1 1/2"	40	31	84	146	116	E	670
2"	80	38	94	170	166	E	1130
2 1/2"	65	44	130	218	145	D	1780
3"	80	51	148	250	166	D	2850
4"	100	61	168	290	210	D	4810

Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX



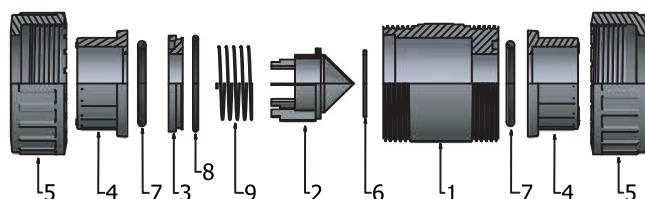
## CVD 13

Check valve with BS female socket for solvent welding



d	DN	L	Z	H	A	class	Gr. PVC
1/2"	15	16	49	81	50	E	110
3/4"	20	19	56	94	60	E	168
1"	25	22	63	107	68	E	246
1 1/4"	32	26	72	124	80	E	360
1 1/2"	40	31	84	146	96	E	552
2"	50	38	94	170	116	E	931
2 1/2"	65	44	130	218	145	D	1740
3"	80	51	148	250	166	D	2810
4"	110	61	168	290	210	D	4690

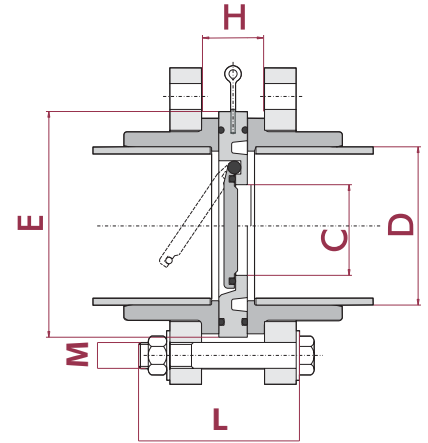
Pos.	Components	N°	Material
1	Body	1	PVC
2	Shutter	1	PVC
3	Sealing bush	1	PVC
4	union	2	PVC
5	Union but	2	PVC
6	Gasket	1	EPDM
7	Union O-ring	2	EPDM
8	O-ring	1	EPDM
9	Spring	1	INOX





## FLAP VALVE

D		C		H		E		M x L	
mm	"	mm	"	mm	"	mm	"	mm	"
63 / 2"		32	1.24	20	0.78	109	4.25	16x120	0.63x4.72
75 / 2 1/2"		40	1.57	20	0.79	129	5.08	16x120	0.63x4.72
90 / 3"		52	2.05	20	0.79	144	5.67	16x120	0.63x4.72
110 / 4 1/2"		70	2.76	22	0.87	164	6.46	16x120	0.63x4.72
125 / 4"		83	3.27	25	0.98	170	6.69	16x130	0.63x5.12
140 / 5"		92	3.62	24	0.94	195	7.68	16x130	0.79x6.30
160 / 6"		112	4.41	26	1.02	220	8.66	16x160	0.79x6.30
200 / 7"		139	5.47	28	1.10	247	9.72	16x160	0.79x6.30
225 / 8"		150	5.91	34	1.34	275	10.83	16x180	0.79x6.30



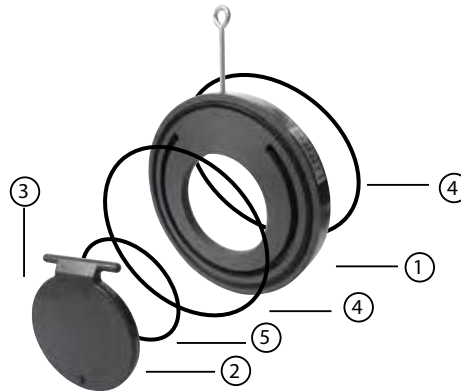
### Characteristics

Sizes	Metric flanges D63 - D315 (DN75 - DN225)	
Standards	ISO/DIN	EN 558-1
	ASTM - 4" - 12"	ANSI B.16.5 cl.150
Working pressure	20° (73°F)	
	D75 - D225 (2" - 12"): PN 6 (90 psi)	
Minimum return pressure	<b>0,1 - 0,3 bar</b> Minimal downstream pressure to keep the valve closed, depending on installation conditions.	
Materials	O-rings: EPDM	
Characteristics	- Requires little space in piping systems. - Easy installation: wafer body slips between standard flanges. No gaskets required - Vertical and horizontal operation. - Excellent flow characteristics.	
	Do not install the valve at a distance lower than 5 x D of the pump out. Install with pipe DIN PN 10. In case of PN 16, the valve could be damaged.	



## Components & Material

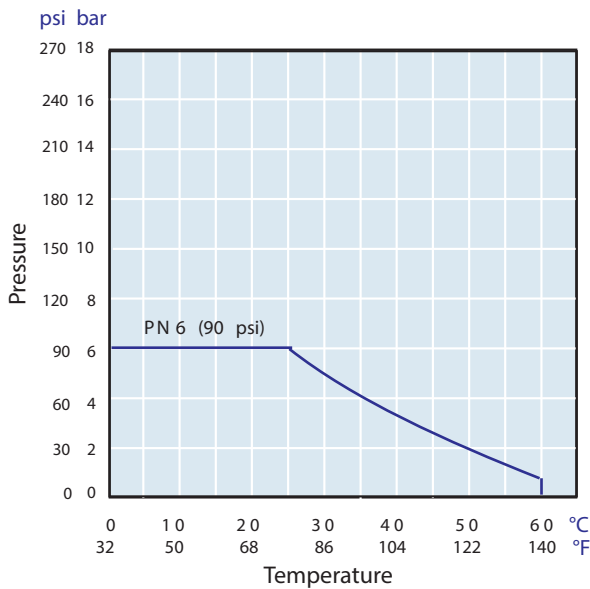
Components	Material
1) Body	PVC-U
2) Flap	PVC-U
3) Cap	PP
4) Body O-Ring	EPDM/ FPM
5) Flap O-Ring	EPDM/ FPM



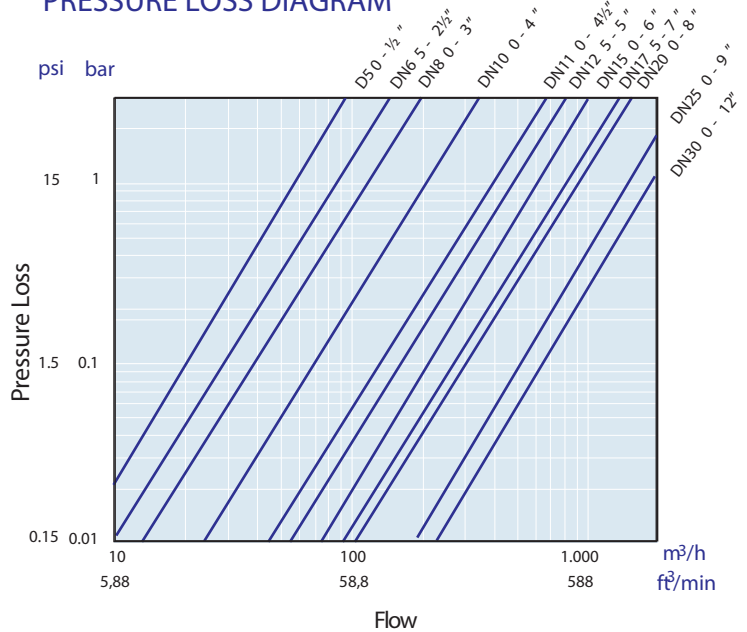
## Installation

- Install with flanges and PN 10 pipe.
- Do not install the valve at a distance lower than 5xD of the pump out.
- The valve must be installed in vertical horizontal pipework.
- On horizontal pipework the flange hinge must be at the top.
- Ensure the direction of flow is in accordance with the arrow on the valve body.
- Use the centralising screw to ensure the valve is positioned centrally in the flanges.
- **WARNING:** To ensure the valves work correctly, the stub flanges must be perfectly lined up.

## PRESSURE / TEMPERATURE GRAPH



## PRESSURE LOSS DIAGRAM



## RELATIVE FLOW

D	63	75	90	110	125	140	160	200	225
DN	50	65	80	100	125	125	150	175	200
Kv <sub>100</sub>	57	85	130	200	390	480	600	800	900
Cv	4,0	6,0	9,1	14,0	27,3	33,6	42,0	56,0	63,0

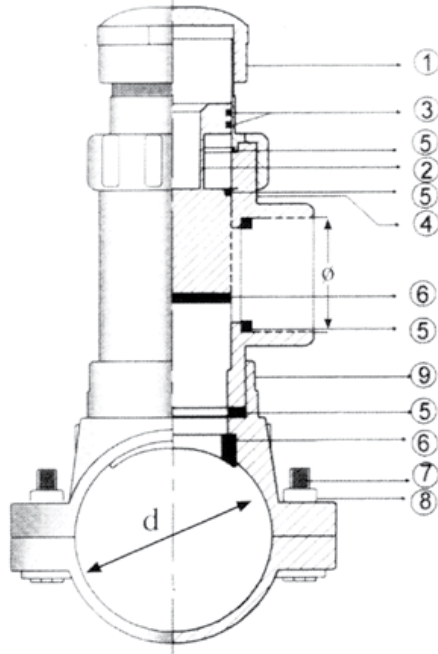
$$Cv = Kv_{100} / 14,28$$

$$Kv_{100} \text{ (l/min, } \Delta p = 1 \text{ bar)}$$

$$Cv \text{ (GPM, } \Delta p = 1 \text{ psi)}$$



## UPVC VALVE SADDLE



Pos.	Name	NO.	Material
1	CAP	1	U PVC
2	INSIDE PART	1	U PVC
3	OIL SEAL	2	EPDM
4	VALVE BODY	1	U PVC
5	O.RING	4	EPDM
6	SPECIAL GASKET	2	EPDM
7	BOLT	4	STAINLESS STEEL
8	NUT	4	STAINLESS STEEL
9	SADDLE	1	U PVC

### Installation Instructions:

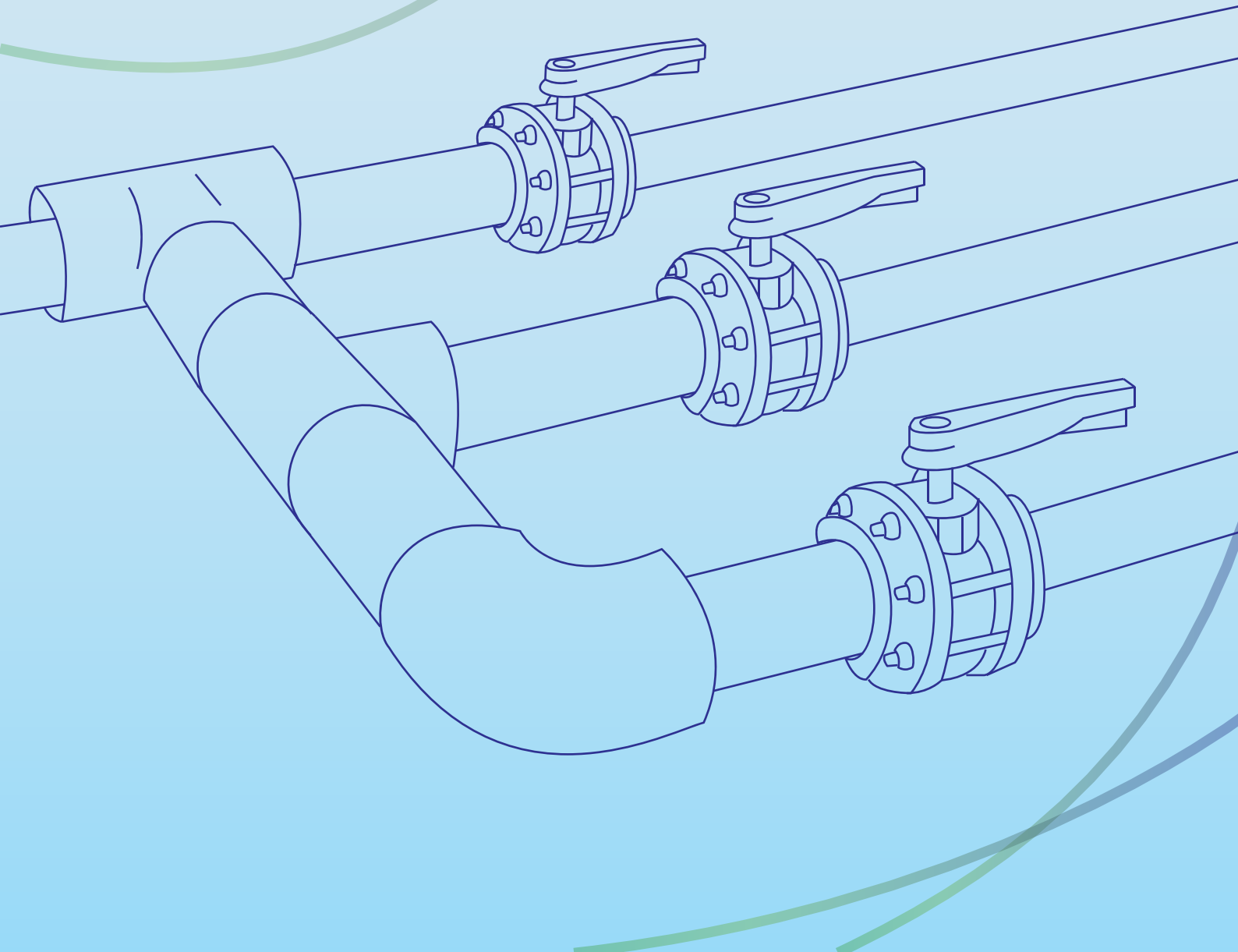
- Set the saddle gasket in its groove before installing on the upper part of the pipe and assemble the upper and lower parts by the 4 bolts and nuts.
- Make a hole in the pipe and be sure to disconnect the water supply during assembling.
- This will take a few minutes; connect the valve body with the saddle.  
Note: make sure all O-rings are installed.
- After installing all parts, install the cap on the top of the valve saddle to save it from dust.

### Advantages:

- Neisco Valve Saddle can be installed at any level underground surface and open or close the valve from the surface with a special key.
- Neisco Valve Saddle is easy to assemble and disassemble for maintenance and all spare parts are available and can be installed on PE/UPVC pipes.
- The Valve Saddle is chemical resistant and it's bolts and nuts are made of stainless-steel.
- The upper part (valve body) can rotate to reach any house connection up to angle 45.
- Neisco Valve Saddle is made in Egypt with Italian experience; it's working pressure is 10 bar, test pressure is 15 bar, & factory test is 25 bar.

dxG	d	Ø
VS 75 10 PVC	75	1"
VS 75 20 PVC	75	2"
VS 75 32 PVC	75	32 mm
VS 75 63 PVC	75	63 mm
VS 90 10 PVC	90	1"
VS 90 20 PVC	90	2"
VS 90 32 PVC	90	32 mm
VS 90 63 PVC	90	63 mm
VS 110 10 PVC	110	1"
VS 110 20 PVC	110	2"
VS 110 32 PVC	110	32 mm
VS 110 63 PVC	110	63 mm
VS 125 10 PVC	125	1"
VS 125 20 PVC	125	2"
VS 125 32 PVC	125	32 mm
VS 125 63 PVC	125	63 mm
VS 160 10 PVC	160	1"
VS 160 20 PVC	160	2"
VS 160 32 PVC	160	32 mm
VS 160 63 PVC	160	63 mm
VS 200 10 PVC	200	1"
VS 200 20 PVC	200	2"
VS 200 32 PVC	200	32 mm
VS 200 63 PVC	200	63 mm
VS 225 10 PVC	225	1"
VS 225 20 PVC	225	2"
VS 225 32 PVC	225	32 mm
VS 225 63 PVC	225	63 mm

# BUTTERFLY VALVES





## Technical Data

### BUTERFLY VALVE - General characteristics

The FEOV butterfly valve is for shutting off or regulating flow specifically designed for water applications.

- Disk in PVC-U with through shaft

- Zinc plated square section steel stem completely isolated from the fluid omplying with standard ISO 5211: DN 40 ÷ 65: 11 mm DN 80 ÷ 100: 14 mm DN 125 ÷ 150: 17 mm DN 200: 22 mm

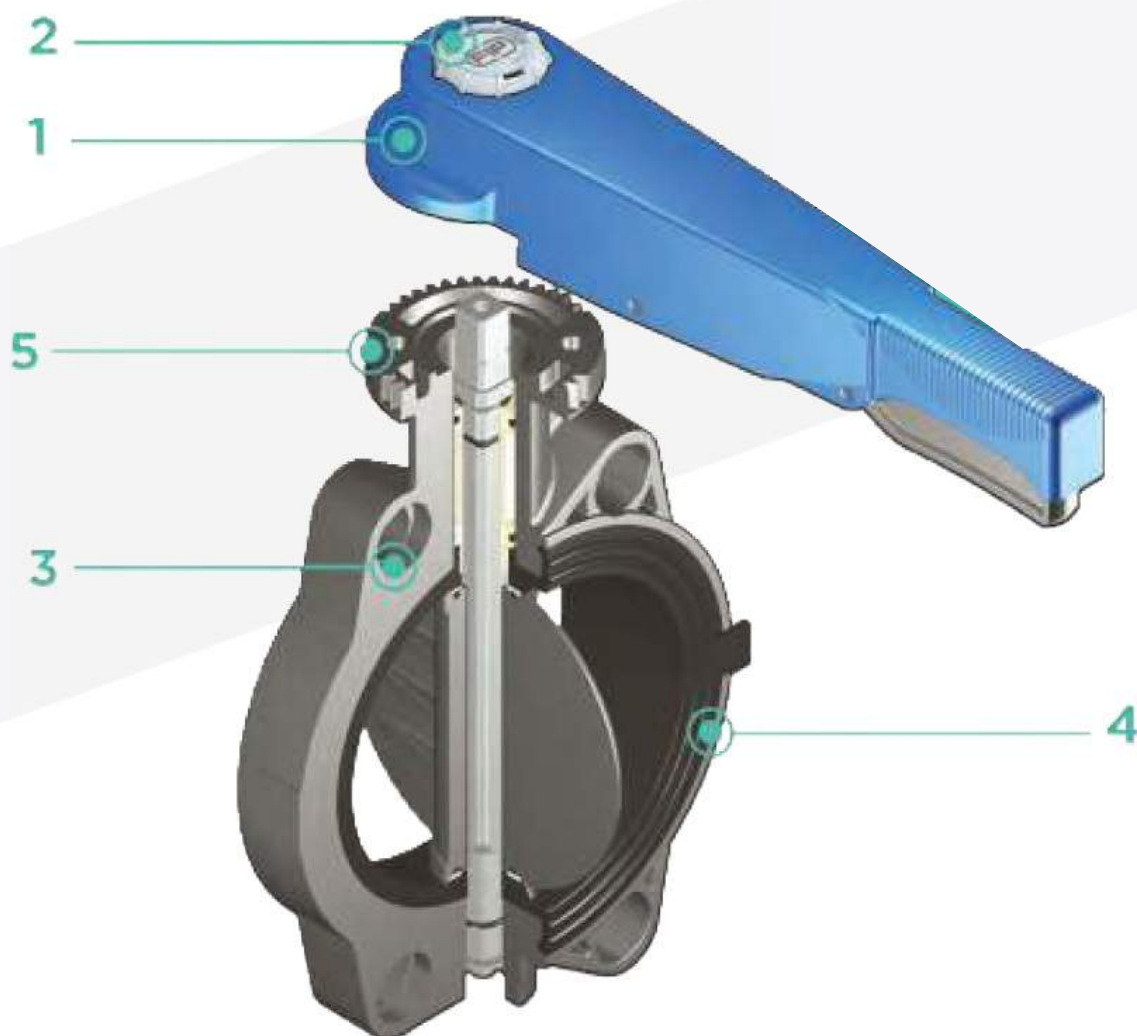
- Can also be installed as an end line valve, bottom discharge valve or tank dump valve.

- The wafer valve can be transformed into a one-way Lug body valve thanks to the set of zinc plated steel inserts available as an optional extra

- Valve material compatability;

water and other food substances according to possibility of directly installing a gearbox of pneumatic and/or electric actuators with a standard drilling pattern according to standard ISO 5211 FO5, FO7, F10.

Technical specifications	
Construction	Centric butterfly valve
Size range	DN 40 ÷ 200
Nominal pressure	Wafer version DN 40 ÷ 50: PN 16 with water at 20 °C DN 65÷200: PN 10 with water at 20 °C Lug version DN 40 ÷ 125: PN 6 with water at 20 °C DN 150÷200: PN 4 with water at 20 °C
Temperature range	0 °C ÷ 60 °C
Reference standards	Flanging system : EN ISO 1452, EN ISO 15493, DIN 2501, ISO 7005-1, EN 1092-1, ANSI B16.5 Cl.150
Reference standards	Construction criteria : EN ISO 16136, EN ISO 1452, EN ISO 15493
	Test methods and requirements : ISO 9393
	Actuator couplings: ISO 5211
Valve material	Body: PVC-U Disk: PVC-U Stem: Zinc plated carbon steel (C45). On request STAINLESS steel AISI 316
Seal material	Liner: EPDM, FKM. On request NBR
Control options	Hand lever operated; Gearbox, pneumatic actuator, electric actuator



**1** Ergonomic multifunctional handle in HIPVC with the option for quick operation, graduated adjustment in 12 positions (every 7.5°). 180° reversible mounting

**2** Customisable Labelling System: integrated module, made of a transparent protection plug customisable tag holder using the LSE set (available as accessory). The customisation lets you identify the valve on the system according to the specific needs

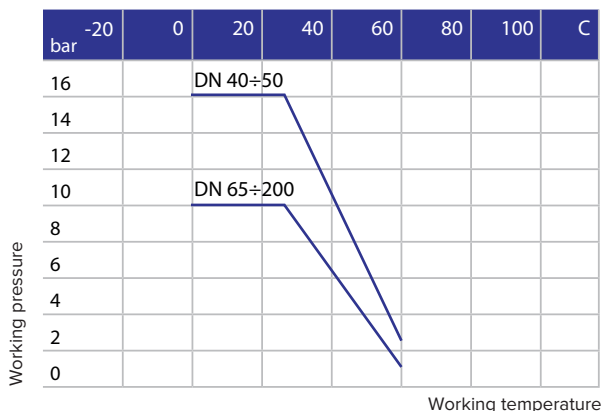
**3** Drilling pattern with oval slots that allow coupling to flanges according to numerous international standards

**4** Interchangeable liner with the dual function of forming a hydraulic seal and isolating the body from the fluid.

**5** One-piece top flange with PVC-U rack. Drilling according to standard ISO 5211 for direct drive:  
 DN 40 ÷ 65: F05  
 DN 80 ÷ 150: F07  
 DN 200: F10

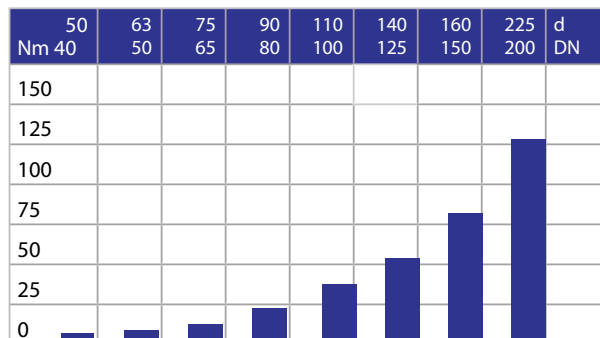


• Pressure variation according to temperature

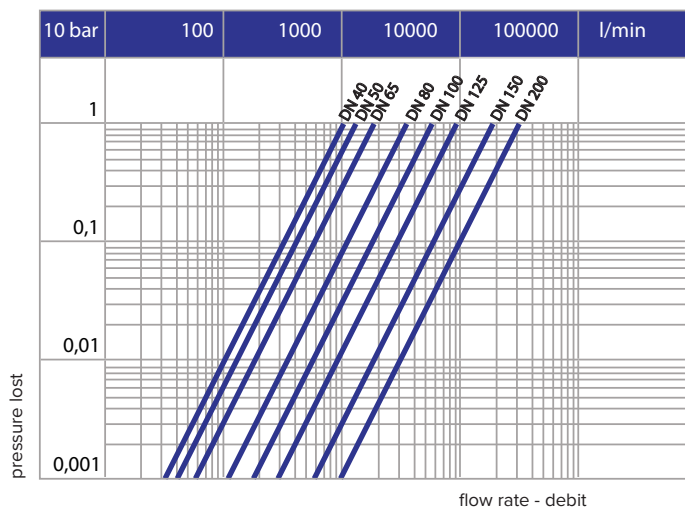


For water and non-hazardous fluids with regard to which the material is classified as CHEMICALLY RESISTANT. In other cases, reduction of the nominal pressure PN is required (25 years with-safety factor)

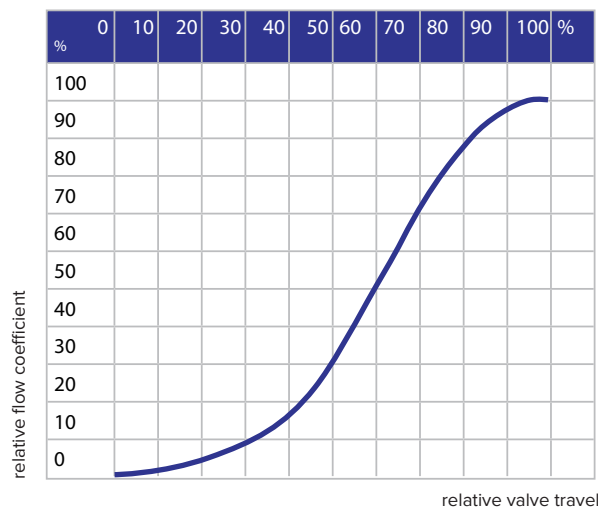
• Operating Torque at maximum working pressure



• Pressure drop graph



• Relative flow graph



• Flow coefficient Kv100

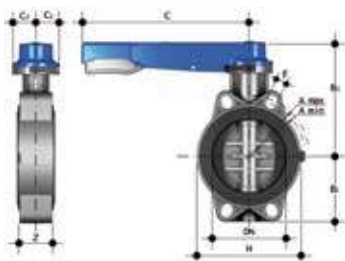
DN	40	50	65	80	100	125	150	200
Kv100 l/min	1000	1285	1700	3550	5900	9850	18700	30500

Kv100 is the number of litres per minute of water at a temperature of 20°C that will flow through a valve with a one-bar pressure differential at a specified rate. The Kv100 valves shown in the table are calculated with the valve completely open.



## FEOV/LM

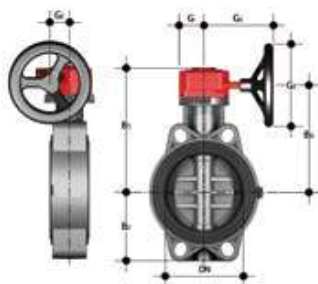
BUTTERFLY VALVE  
Hand operated



d	DN	PN	B2	B3	C	C <sub>1</sub>	C <sub>1</sub>	H	Z	A min.	A max.	f	U	g
50	40	16	60	136	175	45	42	132	33	93.5	109	19	4	827
63	50	16	70	143	175	45	42	147	43	108	124	19	4	1012
75	65	10	80	168	175	45	45	165	46	128	144	19	4	1420
90	80	10	90	182	250	45	45	130	49	145	159	19	4	1640
110	100	10	105	196	250	45	45	150	56	165	190	19	4	1990
125	125	10	121	215	335	45	45	185	64	204	215	23	4	2030
140	125	10	121	215	335	45	45	185	64	204	215	23	4	2030
160	150	10	132	229	335	45	45	210	70	230	242	23	4	3730
200	200	10	161	309	425	65	82	325	71	280	298	23	8	8240
225	200	10	161	309	425	65	82	325	71	280	298	23	8	8240

## FEOV/RM

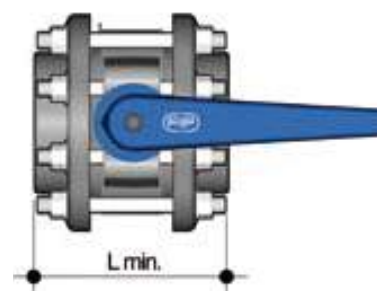
BUTTERFLY VALVE  
with gear box



d	DN	PN	B2	B5	B6	G	G1	G2	G3	U	g
75	65	10	80	173	145	48	135	39	125	4	2390
90	80	10	90	187	159	48	135	39	125	4	2600
110	100	10	105	201	173	48	135	39	125	4	2950
125	125	10	121	220	192	48	144	39	200	4	4400
140	125	10	121	220	192	48	144	39	200	4	4400
160	150	10	132	235	207	48	144	39	200	4	5100
200	200	10	161	288	257	65	175	60	200	8	9260
225	200	10	161	288	257	65	175	60	200	8	9260
280	250	6	-	-	-	-	-	-	-	-	-
315	300	4	-	-	-	-	-	-	-	-	-

Dimensions of the bolts to be in installation;

d	DN	L min	Nm
50	50	M 16x130	4
63	63	M 16x130	4
75	65	M 16x160	8
90	80	M 16x160	8
110	100	M 16x160	8
140	125	M 16x160	8
160	150	M 20x220	8
225	200	M20	8



PNEUMATIC ACTUATOR



GEAR BOX



ELECTRIC ACTUATOR

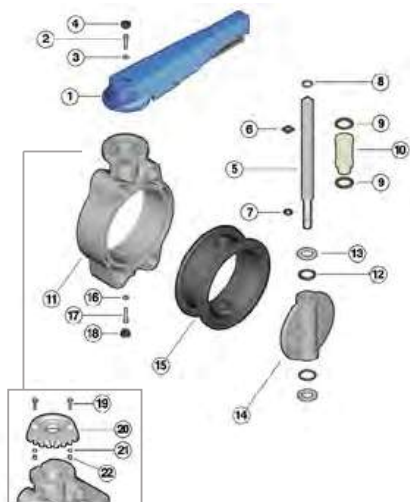


HAND LEVER



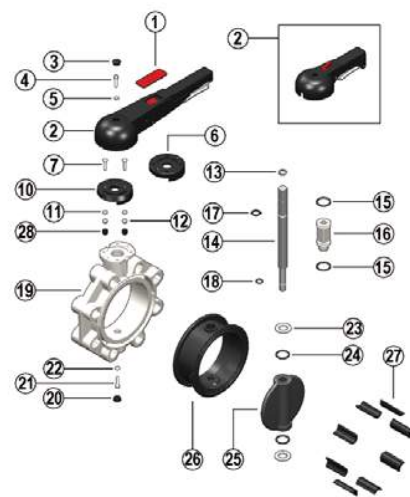


### FE PVC Standard Butterfly Valve

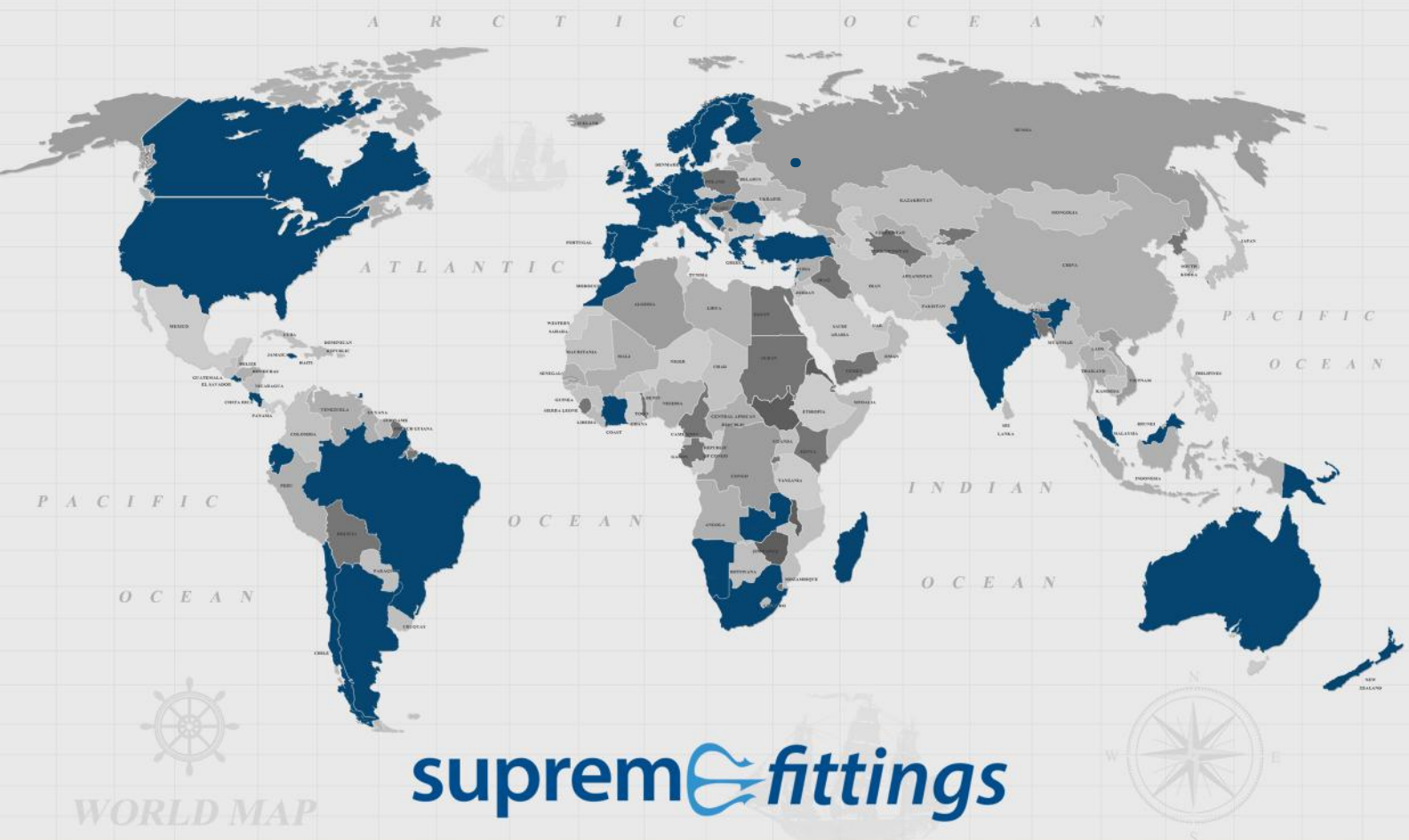


Pos.	Components	Material	Qty
1	Handle	HIPVC	1
2	Screw	Stainless steel	1
3	Washer	Stainless steel	1
4	Protection cap	PE	1
5	Shaft	Zincplated steel	1
6	Shaft O-ring	EPDM or FRM	1
7	Shaft O-ring	EPDM or FRM	1
8	Seeger ring	Stainless steel	1
9	Bush O-ring	EPDM or FRM	2
10	Bush	Nylon	1
11	Body	PVC-U	1
12	Disc O-ring	EPDM or FRM	2
13	Anti-friction ring	PTFE	2
14	Disc	PVC-U	1
15	Primary liner	EPDM or FRM	1
16	Washer	Stainless steel	1
17	Screw	Stainless steel	1
18	Protection cap	PE	1
19	Screw	Stainless steel	2
20	Pad	PVC-U	1
21	Washer	Stainless steel	2
22	Nut	Stainless steel	2

### FK Industrial Butterfly Valve



Pos.	Components	Material	Qty
1	Insert of the handle	ABS	1
2	Handle	HIPVC	1
3	Protection cap	PE	1
4	Screw	Stainless steel	1
5	Washer	Stainless steel	1
6	Flange	PP-GR	1
7	Screw	Stainless steel	2
10	Pad	PP-GR	1
11	Washer	Stainless steel	2
12	Nut	Stainless steel	2
13	Seeger ring	Stainless steel	1
14	Shaft	Stainless steel	1
15	Bush O-ring	EPDM or FRM	2
16	Bush	Nylon	1
17	Shaft O-ring	EPDM or FRM	1
18	Shaft O-ring	EPDM or FRM	1
19	Body	PP-GR	21
20	Protection cap	PE	1
21	Screw	Stainless steel	1
22	Washer	Stainless steel	1
23	Anti friction ring	PTFE	2
24	Disc O-ring	EPDM or FRM	2
25	Disc	PVC-C	1
26	Primary liner	EPDM or FRM	1
27	Inserts	ABS	4-8
28	Plug	PE	2



# SUPREME PRESENCE IN THE WORLD

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