TP Product Catalogue

PVC-U & ABS

Pipe, Fittings & Manual Valves

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ACCESSORIES

PVC-U BS INCH

General properties of PVC-U Fittings BS Inch range

APPLICATIONS
TP (formerly known as Tecno Plastic) is a dedicated brand of PVC pipe, fittings and valves for water piping systems. Each TP product is designed to meet the demands of the customers in specific application areas such as distribution, treatment and sewage water, public and private swimming pools, thermal pools and spas, aquariums and irrigation.

MATERIAL
Fittings supplied in rigid PVC (polyvinylchloride) unplasticised and stabilized suitable for conveying potable water.

STANDARDS
The raw material is in compliance with international standards, details available upon request. TP pipe and fittings are in compliance with ISO EN 1452 and BS4346-1.

QUALITY APPROVALS
Our PVC compound is suitable for conveying potable water in accordance with Water Regulations Advisory Scheme, WRAS.

GASKETS
Standard gaskets for unions and flanges are in EPDM (ethylene-polypropylene rubber).

MECHANICAL RESISTANCES
The following data are referred to water or not particularly aggressive fluids, at a working temperature of 20°C.

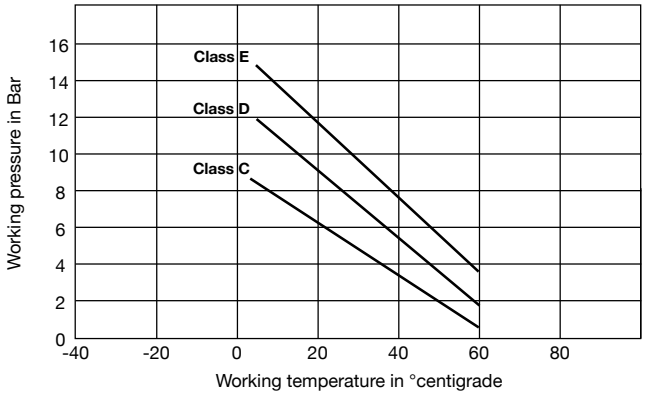
Max working pressure in Bar

SERIES	DIMENSIONS	CLASS	NP
Solvent welding (L)	from 3/8" to 8"	E	15
BS plain-ISO plain (T)	from 3/8" to 6"	E	15
Adaptor (R)	from 3/8" to 2"	E	15
	from 3/8" to 2"	D	12

Safety factors at 20° C

CLASS	NP NOMINAL PRESSURE	1 Hour	50 YEARS
E	15 Bar	3.6	2.1
D	12 Bar	4.5	2.6
C	9 Bar	6.0	3.5

Working pressure range relating to temperature



TP can not assume liability of characteristics not directly involved in international standards.

PVC-U Fittings & Valves Installation Notes

Solvent Cement Fittings
TP fittings in rigid PVC-U can be cemented to each other and with pipes of same material provided that the pipe dimension and tolerances are in accordance with the mentioned standard.

A strong dense-type solvent cement is recommended, especially for coupling large diameters, where the ovalisation effect may cause a considerable gap. For a perfect sealing this gap should never exceed 0.6mm with a dense type cement and 0.3mm with a fluid type cement. For a perfect sealing strictly follow the cement manufacturer's instructions:

a) Cut the pipe squarely, remove burrs and chamfer edge of pipe.Then, using a clean cloth wipe over with cleaning fluid.
b) Apply an even coating of solvent cement to both socket and spigot.
c) Push spigot into socket immediately (1-2 minutes)
d) Wipe off excess cement.

Leave joint undisturbed for the time required by the cement manufacturer and in any case allow 24 hours at normal room temperature (20°C) before applying pressure.

Verify the correct alignment of pipe and fitting.

Threaded Fittings
TP fittings in rigid PVC-U of the threaded series or of the adaptor series can be screwed to each other or to pipe and other threaded parts in other materials. For a perfect sealing follow these instructions:

a) Wind up the the threaded male end completely with a good quality PTFE tape.
b) Press PTFE tape on the threads to ensure a good contact.
c) Add an extra coat of PTFE if required.
d) Screw the female socket by hand making sure that the PTFE is not removed.
e) Finally, tighten the joint.

Warning: excessive tightening could damage the threads. PVC female threaded fittings should never be connected with metal pipes or fittings or with cone shaped male threads as it could break the female socket. The use of hemp or similar material should be avoided as - contrary to PTFE tape - they are not rejected by the coupling even when used in excess. Consequently the socket end will expand and possibly break during jointing or running procedures. Threaded fittings should not be used with aggressive fluids at high pressure (10-16 bar). For such applications solvent cement fittings are advised.

PVC-U Ball Valves
Read and follow the instructions as per the fittings instructions.

When connecting the valve, take out the central body in order to prevent the cement from coming into contact with the valve seats and ball. While assembling the valve, tighten the union nuts handtight only. If there is leakage from the union nuts, please check the correct line-up of the installation and the pipe length. An excessive tightening of the union nuts could break them.

Before the valve is operated, all dirt, sand and other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closing/ opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.

RV0.**CLC**

PVC-U Pipe Class C

d	PN	Code	L (m)
2”	9	**RV0.CLC.630**	6
*2½”/75mm	10	**RV0.CMC.750**	6
3”	9	**RV0.CLC.900**	6
4”	9	**RV0.CLC.910**	6
*5”/140mm	10	**RV0.CMC.930**	5
6”	9	**RV0.CLC.940**	6
8”	9	**RV0.CLC.970**	6

RV0.**CLD**

PVC-U Pipe Class D

d	PN	Code	L (m)
1¼”	12	**RV0.CLD.400**	6
1½”	12	**RV0.CLD.500**	6
2”	12	**RV0.CLD.630**	6
3”	12	**RV0.CLD.900**	6
4”	12	**RV0.CLD.910**	6

RV0.**CLE**

PVC-U Pipe Class E

d	PN	Code	L (m)
⅜”	15	**RV0.CLE.160**	6
½”	15	**RV0.CLE.200**	6
¾”	15	**RV0.CLE.250**	6
1”	15	**RV0.CLE.320**	6
1¼”	15	**RV0.CLE.400**	6
1½”	15	**RV0.CLE.500**	6
2”	15	**RV0.CLE.630**	6
3”	15	**RV0.CLE.900**	6
4”	15	**RV0.CLE.910**	6

RV0.**CLT**

PVC-U Pipe Class T

d	PN	Code	L (m)
⅜”	12	**RV0.CLT.160**	6
½”	12	**RV0.CLT.200**	6
¾”	12	**RV0.CLT.250**	6
1”	12	**RV0.CLT.320**	6
1¼”	12	**RV0.CLT.400**	6
1½”	12	**RV0.CLT.500**	6
2”	12	**RV0.CLT.630**	6

*** PLEASE NOTE:**

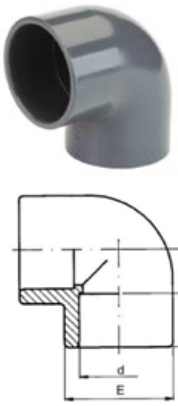
2½”/75mm — Pipe length : 6m
Nominal pressure PN 10 (at 20°C)

*5”/140mm — Pipe length : 5m
Nominal pressure PN 10 (at 20°C)

90° Elbow

RV0.**GOL**

d	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.GOL.160**	14.5	8.5	23	13
1/2"	16	**RV0.GOL.200**	16.5	10.5	28	18
3/4"	16	**RV0.GOL.250**	19.5	13.5	34	29
1"	16	**RV0.GOL.320**	22.5	16.5	42	49
1 1/4"	16	**RV0.GOL.400**	27.0	20.0	51	75
1 1/2"	16	**RV0.GOL.500**	30.0	27.0	61	140
2"	16	**RV0.GOL.630**	36.0	35.0	75	222
2 1/2"	16	**RV0.GOI.750**	44.0	39.0	89	386
3"	16	**RV0.GOL.900**	50.5	47.5	106	600
4"	16	**RV0.GOL.910**	63.0	55.0	129	1060
5"	16	**RV0.GOI.930**	76.0	72.0	163	2050
6"	16	**RV0.GOL.940**	90.0	78.0	195	3335
8"	10	**RV0.GOL.970**	113.0	116.0	258	6600



45° Elbow

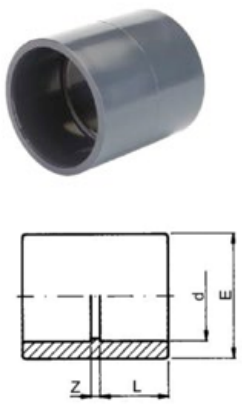
RV0.**GYL**

d	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.GYL.160**	14.5	3	23	9
1/2"	16	**RV0.GYL.200**	16.5	5	28	17
3/4"	16	**RV0.GYL.250**	19.5	6	34	29
1"	16	**RV0.GYL.320**	22.5	7.5	42	47
1 1/4"	16	**RV0.GYL.400**	27.0	9	51	77
1 1/2"	16	**RV0.GYL.500**	30.0	12	61	113
2"	16	**RV0.GYL.630**	36.0	15	75	190
2 1/2"	16	**RV0.GYI.750**	44.0	17	89	310
3"	16	**RV0.GYL.900**	50.5	21	106	486
4"	16	**RV0.GYL.910**	63.0	22	129	836
5"	16	**RV0.GYI.930**	76.0	31	163	1600
6"	16	**RV0.GYL.940**	90.0	36	198	2965
8"	10	**RV0.GYL.970**	116.0	46	249	4900

Socket

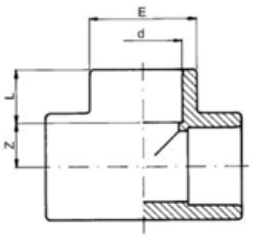
RV0.**MAL**

d	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.MAL.160**	14.5	3	23	9
1/2"	16	**RV0.MAL.200**	16.5	3	27	15
3/4"	16	**RV0.MAL.250**	19.5	3	33	23
1"	16	**RV0.MAL.320**	22.5	3	41	36
1 1/4"	16	**RV0.MAL.400**	27.0	3	52	57
1 1/2"	16	**RV0.MAL.500**	30.0	3	61	84
2"	16	**RV0.MAL.630**	36.0	3	75	142
2 1/2"	16	**RV0.MAI.750**	44.0	4	89	222
3"	16	**RV0.MAL.900**	50.5	5	107	353
4"	16	**RV0.MAL.910**	63.0	6	133	605
5"	16	**RV0.MAI.930**	76.0	8	162	1100
6"	16	**RV0.MAL.940**	90.0	8	198	1540
8"	10	**RV0.MAL.970**	120.0	10	255	3550



RV0.**TIL**

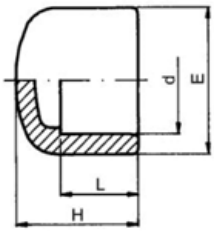
90° Tee



d	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.TIL.160**	14.5	8.5	23	12
1/2"	16	**RV0.TIL.200**	16.5	10.5	28	23
3/4"	16	**RV0.TIL.250**	19.5	13.5	34	30
1"	16	**RV0.TIL.320**	22.5	16.5	42	65
1 1/4"	16	**RV0.TIL.400**	27.0	20.0	51	127
1 1/2"	16	**RV0.TIL.500**	30.0	27.0	61	208
2"	16	**RV0.TIL.630**	36.0	35.0	75	315
2 1/2"	16	**RV0.TII.750**	44.0	39.0	89	523
3"	16	**RV0.TIL.900**	50.5	47.5	106	820
4"	16	**RV0.TIL.910**	63.0	55.0	129	1330
5"	16	**RV0.TII.930**	76.0	72.0	163	2650
6"	16	**RV0.TIL.940**	90.0	78.0	195	4330
8"	10	**RV0.TIL.970**	116.0	116.0	258	11300

RV0.**CAL**

Cap

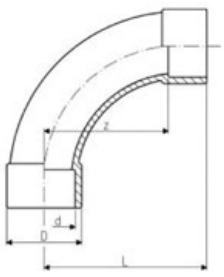


d	PN	Code	L	H	E	Gr.
3/8"	16	**RV0.CAL.160**	14.5	22	23	7
1/2"	16	**RV0.CAL.200**	16.5	26	28	11
3/4"	16	**RV0.CAL.250**	19.5	30	34	18
1"	16	**RV0.CAL.320**	22.5	33	42	27
1 1/4"	16	**RV0.CAL.400**	27.0	41	51	44
1 1/2"	16	**RV0.CAL.500**	30.0	46	61	75
2"	16	**RV0.CAL.630**	36.0	55	75	133
2 1/2"	16	**RV0.CAI.750**	44.0	64	89	187
3"	16	**RV0.CAL.900**	50.5	73	106	325
4"	16	**RV0.CAL.910**	63.0	87	129	520
5"	16	**RV0.CAI.930**	76.0	108	162	915
6"	16	**RV0.CAL.940**	90.0	123	192	1120

RV0.**CUL**

90° Bend

Discontinued - available while stocks last

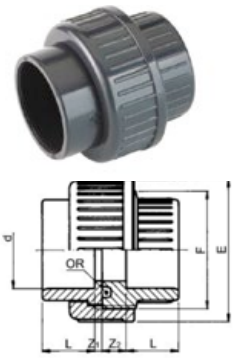


d	PN	Code	L	Z	E	Gr.
1/2"	16	**RV0.CUL.200**	16	40	30	41
3/4"	16	**RV0.CUL.250**	19	50	36	70
1"	16	**RV0.CUL.320**	22	64	44	116
1 1/4"	16	**RV0.CUL.400**	27	80	54	200
1 1/2"	16	**RV0.CUL.500**	32	100	63	333
2"	16	**RV0.CUL.630**	39	126	78	584
2 1/2"	16	**RV0.CUI.750**	44	150	94	1016
3"	16	**RV0.CUL.900**	51	180	113	1808
4"	16	**RV0.CUL.910**	61	220	136	2739

Union with O ring

RV0.**BOL**

d	PN	Code	L	Z_1	Z_2	F	E	Gr.
3/8"	16	**RV0.BOL.160**	15	3	10	3/4"	34	25
1/2"	16	**RV0.BOL.200**	16	3	10	1"	42	42
3/4"	16	**RV0.BOL.250**	19	3	10	1 1/4"	52	66
1"	16	**RV0.BOL.320**	22	3	10	1 1/2"	59	92
1 1/4"	16	**RV0.BOL.400**	27	3	12	2"	73	160
1 1/2"	16	**RV0.BOL.500**	32	3	14	2 1/4"	82	200
2"	16	**RV0.BOL.630**	39	3	18	2 3/4"	100	350
2 1/2"	10	**RV0.BOI.750**	44	3	18	3 1/2"	119	575
3"	10	**RV0.BOL.900**	52	5	18	4"	134	790
4"	10	**RV0.BOL.910**	61	5	18	5"	163	1285



Union Bush

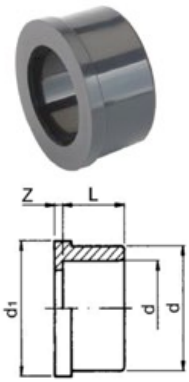
RV0.**BFL**

d	PN	Code	L	Z	F	Gr.
3/8"	16	**RV0.BFL.160**	14.5	10.0	3/4"	10
1/2"	16	**RV0.BFL.200**	16.5	10.0	1"	15
3/4"	16	**RV0.BFL.250**	20.0	10.0	1 1/4"	25
1"	16	**RV0.BFL.320**	22.5	10.0	1 1/2"	34
1 1/4"	16	**RV0.BFL.400**	27.0	11.0	2"	57
1 1/2"	16	**RV0.BFL.500**	30.0	15.0	2 1/4"	78
2"	16	**RV0.BFL.630**	36.0	20.0	2 3/4"	134
2 1/2"	10	**RV0.BFI.750**	44.0	18.0	3 1/2"	205
3"	10	**RV0.BFL.900**	50.5	18.5	4"	270
4"	10	**RV0.BFL.910**	63.0	16.0	5"	465

Union End

RV0.**BLL**

d	PN	Code	L	Z	d	d_1	Gr.
3/8"	16	**RV0.BLL.160**	14.5	2.5	22.0	24.0	6
1/2"	16	**RV0.BLL.200**	16.5	2.5	27.5	30.1	9
3/4"	16	**RV0.BLL.250**	19.5	2.5	36.0	38.8	16
1"	16	**RV0.BLL.320**	22.5	2.5	41.5	44.7	22
1 1/4"	16	**RV0.BLL.400**	27.0	2.0	53.0	56.5	40
1 1/2"	16	**RV0.BLL.500**	30.0	4.0	59.0	62.6	43
2"	16	**RV0.BLL.630**	36.0	5.0	74.0	78.4	80
2 1/2"	10	**RV0.BLI.750**	44.0	3.0	92.5	97.2	150
3"	10	**RV0.BLL.900**	50.5	5.5	105.0	110.0	195
4"	10	**RV0.BLL.910**	63.0	3.0	129.0	135.4	350



Reducing Socket

RV0.**MRL**

Discontinued - available while stocks last

L x L	PN	Code	H_1	H_2	Z	E_1	E_2	Fig	Gr.
1/2" x 3/8"	16	**RV0.MRL.20A**	16.5	14.5	5.0	28	23	B	14
2 1/2" x 2"	16	**RV0.MRL.75G**	44.0	36.0	6.0	89	75	A	211

Fig. A

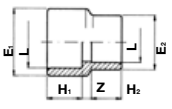
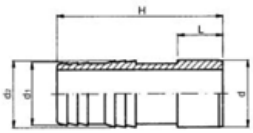


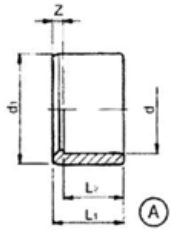
Fig. B

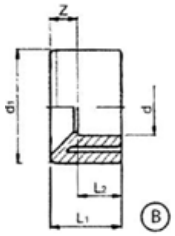
RV0.**PGL** Hose Adaptor spigot



d	x	d2	x	d1	PN	Code	L	H	d1	d2	Gr.
3/8"	x	18	x	16	16	**RV0.PGL.160**	15	60	16	18	10
1/2"	x	22	x	20	16	**RV0.PGL.200**	17	67	20	22	14
3/4"	x	27	x	25	16	**RV0.PGL.250**	20	74	25	25	20
1"	x	32	x	30	16	**RV0.PGL.320**	23	80	30	32	30
1 1/4"	x	42	x	40	16	**RV0.PGL.400**	27	92	40	42	55
1 1/2"	x	52	x	50	16	**RV0.PGL.500**	30	101	50	52	78
2"	x	64	x	60	16	**RV0.PGL.630**	36	111	60	64	142

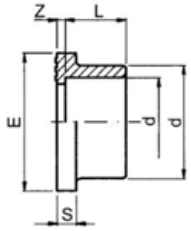
RV0.**RCL** Reducing Bush





d	x	d1	PN	Code	L	L1	Z	Fig	Gr.
1/2"	x	3/8"	16	**RV0.RCL.20A**	16.5	14.5	2.0	A	14
3/4"	x	1/2"	16	**RV0.RCL.25B**	19.5	16.5	3.0	A	22
1"	x	1/2"	16	**RV0.RCL.32B**	22.5	16.5	6.0	B	17
1"	x	3/4"	16	**RV0.RCL.32C**	22.5	19.5	3.0	A	35
1 1/4"	x	1"	16	**RV0.RCL.40D**	27.0	22.5	4.5	A	53
1 1/2"	x	1	16	**RV0.RCL.50D**	30.0	22.5	7.5	B	35
1 1/2"	x	1 1/4"	16	**RV0.RCL.50E**	30.0	27.0	3.0	A	81
2"	x	1	16	**RV0.RCL.63D**	36.0	22.5	13.5	B	67
2"	x	1 1/2"	16	**RV0.RCL.63F**	36.0	30.0	6.0	A	120
2 1/2"	x	1 1/2"	16	**RV0.RCL.75F**	44.0	30.0	14.0	B	122
2 1/2"	x	2"	16	**RV0.RCL.75G**	44.0	36.0	8.0	A	211
3"	x	1 1/2"	16	**RV0.RCL.90F**	50.5	30.0	20.5	B	200
3"	x	2	16	**RV0.RCL.90G**	50.5	36.0	14.5	B	195
3"	x	2 1/2"	16	**RV0.RCL.90H**	50.5	44.0	6.5	A	345
4"	x	2"	16	**RV0.RCL.91G**	63.0	36.0	27.0	B	450
4"	x	2 1/2"	16	**RV0.RCL.91H**	63.0	44.0	19.0	B	370
4"	x	3"	16	**RV0.RCL.91I**	63.0	50.5	12.5	A	550
5"	x	3"	16	**RV0.RCL.93I**	76.0	50.5	25.5	B	550
6"	x	4"	16	**RV0.RCL.94L**	90.0	63.0	27.0	B	795
8"	x	6"	10	**RV0.RCL.97O**	115.5	90.0	25.5	B	1860

RV0.**QRL** Stub Flange serrated face

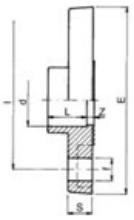


d	PN	Code	L	Z	d	S	E	Gr.
1/2"	16	**RV0.QRL.200**	16.5	2.5	27	6	34	10
3/4"	16	**RV0.QRL.250**	19.5	2.5	33	7	41	16
1"	16	**RV0.QRL.320**	22.5	2.5	41	7	50	25
1 1/4"	16	**RV0.QRL.400**	27.0	2.5	50	8	61	40
1 1/2"	16	**RV0.QRL.500**	30.0	2.0	61	8	73	60
2"	16	**RV0.QRL.630**	36.0	4.0	76	9	90	105
2 1/2"	16	**RV0.QRI.750**	44.0	5.0	90	10	106	170
3"	16	**RV0.QRL.900**	50.5	3.0	108	11	125	277
4"	16	**RV0.QRL.910**	63.0	5.5	131	12	150	380
5"	16	**RV0.QRI.930**	76.0	3.0	165	14	188	750
6"	16	**RV0.QRL.940**	90.0	5.0	188	16	213	895
8"	10	**RV0.QRL.970**	115.5	6.0	248	19	274	1700

Fixed Flange NP10-16 drilled to BS 4504

RV0.**FFL**

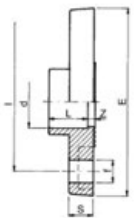
d	PN	Code	L	Z	E	I	f	Holes	Gr.
1/2"	16	**RV0.FFL.200**	16.5	4.0	95	65	14	4	70
3/4"	16	**RV0.FFL.250**	19.5	4.0	105	75	14	4	105
1"	16	**RV0.FFL.320**	22.5	4.0	115	85	14	4	145
1 1/4"	16	**RV0.FFL.400**	27.0	3.5	140	100	18	4	220
1 1/2"	16	**RV0.FFL.500**	30.0	5.5	150	110	18	4	270
2"	16	**RV0.FFL.630**	36.0	6.5	165	125	18	4	380
2 1/2"	16	**RV0.FFI.750**	44.0	6.0	185	145	18	4	505
3"	16	**RV0.FFL.900**	50.5	7.5	200	160	18	8	685
4"	10	**RV0.FFL.910**	63.0	6.0	220	180	18	8	870
5"	10	**RV0.FFL.930**	76.0	7.0	250	210	18	8	1335
6"	10	**RV0.FFL.940**	86.0	7.0	285	240	22	8	1853



Fixed Flange threaded

RV0.**FFF**

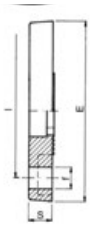
G	PN	Code	S	L	Z	E	I	f	Holes	Gr.
1/2"	16	**RV0.FFF.200**	11	15.0	5.5	95	65	14	4	70
3/4"	16	**RV0.FFF.250**	12	16.3	7.5	105	75	14	4	105
1"	16	**RV0.FFF.320**	14	19.1	7.5	115	85	14	4	145
1 1/4"	16	**RV0.FFF.400**	15	21.4	9.0	140	100	18	4	220
1 1/2"	16	**RV0.FFF.500**	16	21.4	14.0	150	110	18	4	270
2"	16	**RV0.FFF.630**	18	25.7	17.0	165	125	18	4	380
2 1/2"	16	**RV0.FFF.750**	19	30.2	20.0	185	145	18	4	505
3"	16	**RV0.FFF.900**	20	30.3	25.0	200	160	18	8	685
4"	16	**RV0.FFF.910**	22	39.9	30.0	220	180	18	8	870



Blank Flange NP10 / NP16

RV0.**FCI**

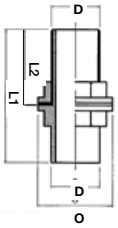
d	PN	Code	E	S	I	f	Holes	Gr.
1/2"	16	**RV0.FCI.200**	95	11	65	14	4	73
3/4"	16	**RV0.FCI.250**	105	12	75	14	4	95
1"	16	**RV0.FCI.320**	115	14	85	14	4	135
1 1/4"	16	**RV0.FCI.400**	140	15	100	18	4	220
1 1/2"	16	**RV0.FCI.500**	150	16	110	18	4	270
2"	16	**RV0.FCI.630**	165	18	125	18	4	370
2 1/2"	16	**RV0.FCI.750**	185	19	145	18	4	495
3"	16	**RV0.FCI.900**	200	20	160	18	8	630
4"	16	**RV0.FCI.910**	220	22	180	18	8	800
5"	16	**RV0.FCI.930**	250	26	210	18	8	1620
6"	16	**RV0.FCI.940**	285	28	240	22	8	2480
8"	9	**RV0.FCI.970**	340	30	295	22	8	2480



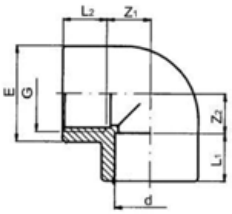
Tank Connector

RV0.**TAC**

D	PN	Code	L_1	L_2	O	Gr.
1/2"	16	**RV0.TAC.200**	77	42	28	41
3/4"	16	**RV0.TAC.250**	77	42	33	52
1"	16	**RV0.TAC.320**	103	55	46	108
1 1/4"	16	**RV0.TAC.400**	121	70	50	153
1 1/2"	16	**RV0.TAC.500**	128	73	60	216
2"	16	**RV0.TAC.630**	154	82	80	370



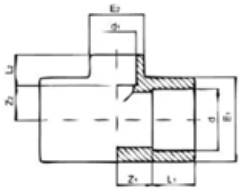
RV0.**GOR** **90° Elbow** plain/threaded



d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
3/8" x 3/8"	16	**RV0.GOR.16A**	14.5	11.4	8.5	11.6	23	13
1/2" x 1/2"	16	**RV0.GOR.20B**	16.5	15.0	10.5	12.0	28	21
3/4" x 3/4"	16	**RV0.GOR.25C**	19.5	16.3	13.5	16.7	34	35
1" x 1"	16	**RV0.GOR.32D**	22.5	19.1	16.5	19.9	42	60
1 1/4" x 1 1/4"	16	**RV0.GOR.40E**	27.0	21.4	20.0	25.6	51	91
1 1/2" x 1 1/2"	16	**RV0.GOR.50F**	30.0	21.4	27.0	35.6	61	155
2" x 2"	16	**RV0.GOR.63G**	36.0	25.7	35.0	45.3	75	265
2 1/2" x 2 1/2"	16	**RV0.GOP.75H**	44.0	30.2	39.0	52.8	89	400
3" x 3"	16	**RV0.GOR.90I**	50.5	33.3	47.5	64.7	106	670
4" x 4"	16	**RV0.GOR.91L**	63.0	39.3	55.0	78.7	129	1055

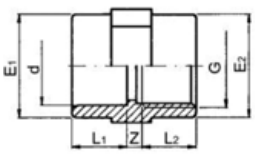
RV0.**TIR** **90° Tee** threaded centre off-take

Discontinued - available while stocks last



d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
2" x 2"	16	**RV0.TIR.63G**	36.0	25.7	35.0	45.3	75	335
2 1/2" x 2 1/2"	16	**RV0.TIP.75H**	44.0	30.2	39.0	52.8	89	540
3" x 3"	16	**RV0.TIR.90I**	50.5	33.3	47.5	64.7	106	790

RV0.**MAR** **Socket** plain/threaded

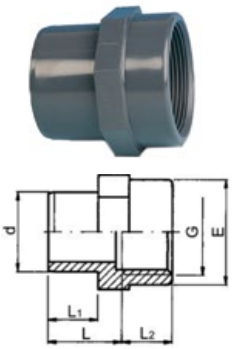


d x G	PN	Code	L_1	L_2	Z	E_1	E_2	Gr.
3/8" x 3/8"	16	**RV0.MAR.16A**	15	11.4	6	23	23	9
1/2" x 1/2"	16	**RV0.MAR.20B**	17	15.0	4	28	28	17
3/4" x 3/4"	16	**RV0.MAR.25C**	20	16.3	6	34	34	24
1" x 1"	16	**RV0.MAR.32D**	23	19.1	6	42	42	42
1 1/4" x 1 1/4"	16	**RV0.MAR.40E**	27	21.4	7	51	51	60
1 1/2" x 1 1/2"	16	**RV0.MAR.50F**	30	21.4	9	61	58	87
2" x 2"	16	**RV0.MAR.63G**	36	25.7	10	75	72	134
2 1/2" x 2 1/2"	16	**RV0.MAP.75H**	44	30.0	8	89	89	215
3" x 3"	16	**RV0.MAR.90I**	51	33.3	10	106	103	351
4" x 4"	16	**RV0.MAR.91L**	63	39.3	8	129	130	478

Adaptor female thread

RV0.**AFR**

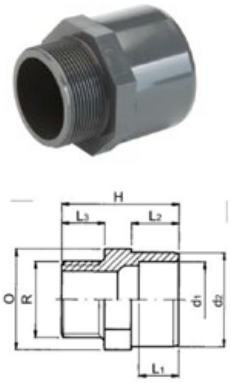
d x G	PN	Code	L_1	L_2	E	L	Gr.
3/8" x 3/8"	16	**RV0.AFR.16A**	14	11.4	23	22	16
1/2" x 1/2"	16	**RV0.AFR.20B**	16	15.0	28	24	19
3/4" x 3/4"	16	**RV0.AFR.25C**	19	16.3	32	27	26
1" x 1"	16	**RV0.AFR.32D**	22	19.1	42	30	43
1 1/4" x 1 1/4"	16	**RV0.AFR.40E**	26	21.4	51	36	65
1 1/2" x 1 1/2"	16	**RV0.AFR.50F**	31	21.4	58	41	73
2 " x 2 "	16	**RV0.AFR.63G**	38	25.7	72	48	135
2 1/2" x 2 1/2"	16	**RV0.AFP.75H**	44	30.2	89	58	225
3" x 3"	16	**RV0.AFR.90I**	51	33.3	103	65	310
4" x 4"	16	**RV0.AFR.91L**	61	39.3	130	76	480



Adaptor double dia. BSP male thread

RV0.**AMR**

d_1 x d_2 x R	PN	Code	L_1	L_2	L_3	H	O	Gr.
3/8" x 1/2" x 3/8"	16	**RV0.AMR.16A**	14.5	16	11.4	40	24	10
3/8" x 1/2" x 1/2"	16	**RV0.AMR.16B**	14.5	16	15.0	43	24	11
1/2" x 3/4" x 1/2"	16	**RV0.AMR.20B**	16.5	19	15.0	46	30	14
1/2" x 3/4" x 3/4"	16	**RV0.AMR.20C**	16.5	19	16.3	47	30	18
3/4" x 1" x 3/4"	16	**RV0.AMR.25C**	19.5	22	16.3	50	36	26
3/4" x 1" x 1"	16	**RV0.AMR.25D**	19.5	22	19.1	53	36	29
1" x 1 1/4" x 1"	16	**RV0.AMR.32D**	22.5	26	19.1	57	46	40
1" x 1 1/4" x 1 1/4"	16	**RV0.AMR.32E**	22.5	26	21.4	60	46	45
1 1/4" x 1 1/2" x 1 1/4"	16	**RV0.AMR.40E**	27.0	31	21.4	67	55	73
1 1/4" x 1 1/2" x 1 1/2"	16	**RV0.AMR.40F**	27.0	31	21.4	67	55	76
1 1/2" x 2" x 1 1/2"	16	**RV0.AMR.50F**	30.0	38	21.4	74	65	113
1 1/2" x 2" x 2"	16	**RV0.AMR.50G**	30.0	38	25.7	78	65	120
2" x 2 1/2" x 2"	16	**RV0.AMR.63G**	36.0	44	25.7	84	80	150
2" x 2 1/2" x 2 1/2"	16	**RV0.AMR.63H**	36.0	44	30.2	91	80	170
2 1/2" x 3" x 2 1/2"	16	**RV0.AMR.75H**	44.0	51	30.2	99	95	268
2 1/2" x 3" x 3"	16	**RV0.AMR.75I**	44.0	51	33.3	102	95	280
3" x 4" x 3"	16	**RV0.AMR.90I**	50.5	61	33.3	113	115	476
3" x 4" x 4"	16	**RV0.AMR.90L**	50.5	61	39.3	118	115	485

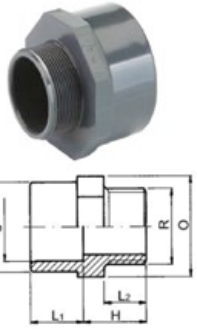


d_1 - Socket (F)
d_2 - Spigot (M)
R - Male Thread

Adaptor plain/BSP male thread

RV0.**ADR**

d x R	PN	Code	L_1	L_2	E	Z	O	Gr.
2 1/2" x 2 1/2"	16	**RV0.ADP.75H**	44.0	30.2	89	42.0	90	215
4" x 3"	16	**RV0.ADR.91I***	63.0	33.3	129	45.0	130	450

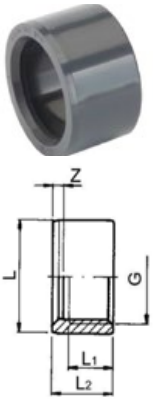


*Discontinued - available while stocks last

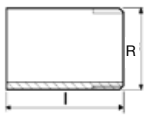
Reducing Bush plain/BSP female thread

RV0.**RCR**

D x G	PN	Code	L_1	L_2	Z_1	Gr.
1/2" x 3/8"	16	**RV0.RCR.20A**	16.5	11.4	5.1	4
3/4" x 1/2"	16	**RV0.RCR.25B**	19.5	15.0	4.5	7
1" x 3/4"	16	**RV0.RCR.32C**	22.5	16.3	6.2	12

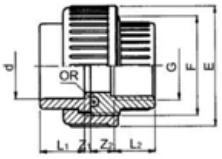


RV0.**BPF** — **Barrel Nipple** plain/threaded



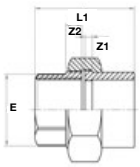
R	PN	Code	l	Gr.
1/2"	16	**RV0.BPF.200**	50	14
3/4"	16	**RV0.BPF.250**	56	25
1"	16	**RV0.BPF.320**	63	38
1 1/4"	16	**RV0.BPF.400**	75	52
1 1/2"	16	**RV0.BPF.500**	88	80
2"	16	**RV0.BPF.630**	88	115
2 1/2"	16	**RV0.BPF.750**	106	197
3"	16	**RV0.BPF.900**	128	300
4"	16	**RV0.BPF.910**	153	560

RV0.**BOR** — **Union** with O ring plain/threaded



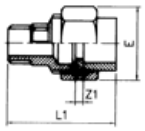
d	x	G	PN	Code	L_1	L_2	Z_1	Z_2	F	E	Gr.
3/8"	x	3/8"	16	**RV0.BOR.16A**	14.5	11.4	2.5	13.6	3/4"	34	31
1/2"	x	1/2"	16	**RV0.BOR.20B**	16.5	15.0	2.5	11.0	1"	42	42
3/4"	x	3/4"	16	**RV0.BOR.25C**	19.5	16.3	2.5	12.7	1 1/4"	52	70
1"	x	1"	16	**RV0.BOR.32D**	22.5	19.1	2.5	12.9	1 1/2"	59	96
1 1/4"	x	1 1/4"	16	**RV0.BOR.40E**	27.0	21.4	2.0	16.6	2"	72	155
1 1/2"	x	1 1/2"	16	**RV0.BOR.50F**	30.0	21.4	4.0	23.6	2 1/4"	79	237
2"	x	2"	16	**RV0.BOR.63G**	36.0	25.7	5.0	30.3	2 3/4"	96	405
2 1/2"	x	2 1/2"	10	**RV0.BOP.75H**	44.0	30.2	3.0	31.8	3 1/2"	119	625
3"	x	3"	10	**RV0.BOR.90I**	50.5	33.3	5.5	35.7	4"	134	865
4"	x	4"	10	**RV0.BOR.91L**	63.0	39.3	3.0	39.7	5"	163	1340

RV0.**BFC** — **Composite Union** brass female BSP



d	PN	Code	E	L_1	Z_1	Z_2	Gr.
1/2"	16	**RV0.BFC.200**	43	48	3	9	93
3/4"	16	**RV0.BFC.250**	51	54	3	10	145
1"	16	**RV0.BFC.320**	58	60	9	11	193
1 1/4"	16	**RV0.BFC.400**	72	70	10	11	344
1 1/2"	16	**RV0.BFC.500**	83	75	12	12	509
2"	16	**RV0.BFC.630**	100	88	11	14	776

RV0.**BMC** — **Composite Union** brass male BSP

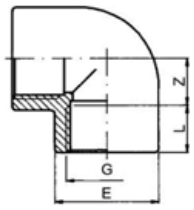


d	PN	Code	E	L_1	Z_1	Gr.
1/2"	16	**RV0.BMC.200**	43	63	3	132
3/4"	16	**RV0.BMC.250**	51	71	3	196
1"	16	**RV0.BMC.320**	58	79	9	282
1 1/4"	16	**RV0.BMC.400**	72	91	10	519
1 1/2"	16	**RV0.BMC.500**	83	97	12	723
2"	16	**RV0.BMC.630**	100	115	14	1091

90° **Elbow** threaded female

RV0.**GOF**

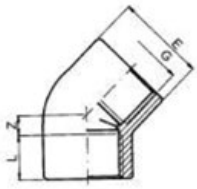
G	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.GOF.160**	11.4	11.6	23	15
1/2"	16	**RV0.GOF.200**	15.0	12.0	28	22
3/4"	16	**RV0.GOF.250**	16.3	16.7	34	37
1"	16	**RV0.GOF.320**	19.1	19.9	42	59
1 1/4"	16	**RV0.GOF.400**	21.4	25.6	51	94
1 1/2"	16	**RV0.GOF.500**	21.4	35.6	61	184
2"	16	**RV0.GOF.630**	25.7	45.3	75	310
2 1/2"	16	**RV0.GOF.750**	30.2	52.8	89	425
3"	16	**RV0.GOF.900**	33.3	64.7	106	770
4"	16	**RV0.GOF.910**	39.3	78.7	129	1050



45° **Elbow** threaded female

RV0.**GYF**

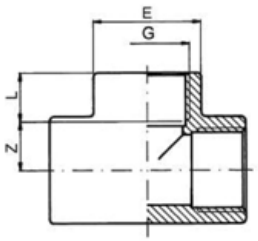
G	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.GYF.160**	11.4	11.6	23	10
1/2"	16	**RV0.GYF.200**	15.0	12.0	28	18
3/4"	16	**RV0.GYF.250**	16.3	16.7	34	31
1"	16	**RV0.GYF.320**	19.1	19.9	42	51
1 1/4"	16	**RV0.GYF.400**	21.4	25.6	51	80
1 1/2"	16	**RV0.GYF.500**	21.4	35.6	61	155
2"	16	**RV0.GYF.630**	25.7	45.3	75	275
2 1/2"	16	**RV0.GYF.750**	30.2	52.8	89	360
3"	16	**RV0.GYF.900**	33.3	67.7	106	620
4"	16	**RV0.GYF.910**	39.3	78.7	129	830



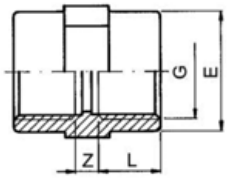
90° **Tee** threaded female

RV0.**TIF**

G	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.TIF.160**	11.4	11.6	23	18
1/2"	16	**RV0.TIF.200**	15.0	12.0	28	29
3/4"	16	**RV0.TIF.250**	16.3	16.7	34	50
1"	16	**RV0.TIF.320**	19.1	19.9	42	76
1 1/4"	16	**RV0.TIF.400**	21.4	25.6	51	122
1 1/2"	16	**RV0.TIF.500**	21.4	35.6	61	240
2"	16	**RV0.TIF.630**	25.7	45.3	75	411
2 1/2"	16	**RV0.TIF.750**	30.2	52.8	89	540
3"	16	**RV0.TIF.900**	33.3	64.7	106	915
4"	16	**RV0.TIF.910**	39.3	75.7	129	1310

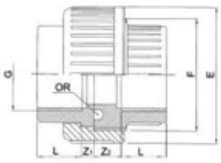


RV0.**MAF** **Socket** threaded female



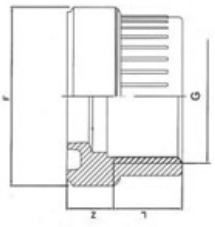
G	PN	Code	L	Z	E	Gr.
3/8"	16	**RV0.MAF.160**	11.4	6	23	8
1/2"	16	**RV0.MAF.200**	15.0	7	28	17
3/4"	16	**RV0.MAF.250**	16.3	67	34	24
1"	16	**RV0.MAF.320**	19.1	8	42	42
1 1/4"	16	**RV0.MAF.400**	21.4	8	51	60
1 1/2"	16	**RV0.MAF.500**	21.4	8	58	73
2"	16	**RV0.MAF.630**	25.7	8	72	123
2 1/2"	16	**RV0.MAF.750**	30.2	9	89	200
3"	16	**RV0.MAF.900**	33.3	10	103	280
4"	16	**RV0.MAF.910**	39.3	11	130	441
6"	16	**RV0.MAF.940**	48.0	84	182	1400

RV0.**BOF** **Union** with O ring threaded female



G	PN	Code	L	Z_1	Z_2	F	E	Gr.
3/8"	16	**RV0.BOF.160**	11.4	5.6	13.6	3/4"	34	31
1/2"	16	**RV0.BOF.200**	15.0	4.0	11.0	1"	42	42
3/4"	16	**RV0.BOF.250**	16.3	5.7	12.7	1 1/4"	52	70
1"	16	**RV0.BOF.320**	19.1	5.9	12.9	1 1/2"	59	96
1 1/4"	16	**RV0.BOF.400**	21.4	7.6	16.6	2"	72	155
1 1/2"	16	**RV0.BOF.500**	21.4	12.6	23.6	2 1/4"	79	237
2"	16	**RV0.BOF.630**	25.7	15.3	30.3	2 3/4"	96	405
2 1/2"	10	**RV0.BOF.750**	30.2	16.8	31.8	3 1/2"	119	625
3"	10	**RV0.BOF.900**	33.3	22.7	35.7	4"	134	865
4"	10	**RV0.BOF.910**	39.3	26.7	39.7	5"	163	1340

RV0.**BFF** **Union Bush** threaded

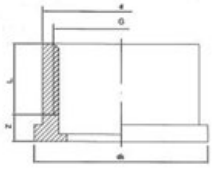


G	PN	Code	L	Z	F	Gr.
3/8"	16	**RV0.BFF.160**	11.4	13.6	3/4"	10
1/2"	16	**RV0.BFF.200**	15.0	11.0	1"	16
3/4"	16	**RV0.BFF.250**	16.3	12.7	1 1/4"	27
1"	16	**RV0.BFF.320**	19.1	12.9	1 1/2"	36
1 1/4"	16	**RV0.BFF.400**	21.4	16.6	2"	60
1 1/2"	16	**RV0.BFF.500**	21.4	23.6	2 1/4"	104
2"	16	**RV0.BFF.630**	25.7	30.3	2 3/4"	168
2 1/2"	10	**RV0.BFF.750**	30.2	31.8	3 1/2"	235
3"	10	**RV0.BFF.900**	33.3	35.7	4"	335
4"	10	**RV0.BFF.910**	39.3	39.7	5"	470

Union End threaded

RV0.**BLF**

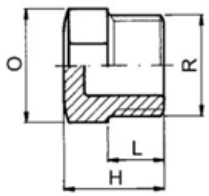
G	PN	Code	L	Z	d	d_1	Gr.
3/8"	16	**RV0.BLF.160**	11.4	5.6	22.0	24.0	7
1/2"	16	**RV0.BLF.200**	15.0	4.0	27.5	30.1	10
3/4"	16	**RV0.BLF.250**	16.3	5.7	36.0	38.8	17
1"	16	**RV0.BLF.320**	19.1	5.9	41.5	44.7	23
1 1/4"	16	**RV0.BLF.400**	21.4	7.6	53.0	56.5	42
1 1/2"	16	**RV0.BLF.500**	21.4	12.6	59.0	62.6	65
2"	16	**RV0.BLF.630**	25.7	15.3	74.0	78.4	120
2 1/2"	10	**RV0.BLF.750**	30.2	16.8	92.5	97.2	160
3"	10	**RV0.BLF.900**	33.3	22.7	105.0	110.0	235
4"	10	**RV0.BLF.910**	39.3	26.7	129.0	135.4	340



Plug threaded

RV0.**TAF**

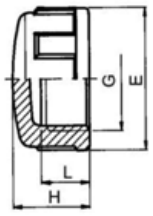
R	PN	Code	L	H	O	Gr.
3/8"	16	**RV0.TAF.160**	11.4	24	22	8
1/2"	16	**RV0.TAF.200**	15.0	29	24	9
3/4"	16	**RV0.TAF.250**	16.3	30	30	16
1"	16	**RV0.TAF.320**	19.1	33	36	23
1 1/4"	16	**RV0.TAF.400**	21.4	39	46	41
1 1/2"	16	**RV0.TAF.500**	21.4	39	50	45
2"	16	**RV0.TAF.630**	25.7	43	65	80
2 1/2"	16	**RV0.TAF.750**	30.2	51	80	140
3"	16	**RV0.TAF.900**	33.3	55	95	210
4"	16	**RV0.TAF.910**	39.3	61	120	340



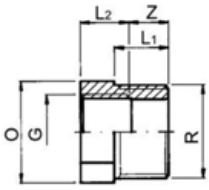
Cap threaded

RV0.**CAF**

G	PN	Code	L	H	E	Gr.
3/8"	16	**RV0.CAF.160**	11.4	22	23	8
1/2"	16	**RV0.CAF.200**	15.0	22	28	8
3/4"	16	**RV0.CAF.250**	16.3	23	34	13
1"	16	**RV0.CAF.320**	19.1	26	42	22
1 1/4"	16	**RV0.CAF.400**	21.4	29	51	35
1 1/2"	16	**RV0.CAF.500**	21.4	32	61	50
2"	16	**RV0.CAF.630**	25.7	37	75	80
2 1/2"	16	**RV0.CAF.750**	30.2	50	89	190
3"	16	**RV0.CAF.900**	33.3	53	106	270
4"	16	**RV0.CAF.910**	39.3	59	130	435

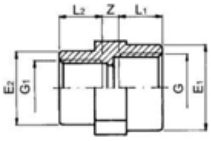


RV0.**RCF** Reducing Bush



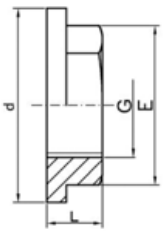
R x G	PN	Code	L_1	L_2	Z	O	Gr.
3/4" x 1/2"	16	**RV0.RCF.25B**	16.3	15.0	13.3	30	13
1" x 3/4"	16	**RV0.RCF.32C**	19.1	16.3	14.8	36	19
1 1/4" x 1"	16	**RV0.RCF.40D**	21.4	19.1	16.3	46	33
1 1/2" x 1 1/4"	16	**RV0.RCF.50E**	21.4	21.4	14.0	55	37
2" x 1 1/2"	16	**RV0.RCF.63F**	25.7	21.4	18.3	65	67
2 1/2" x 2"	16	**RV0.RCF.75G**	30.2	25.7	20.5	80	135
3" x 2 1/2"	16	**RV0.RCF.90H**	33.3	30.2	20.1	95	160
4" x 3"	16	**RV0.RCF.91I**	39.3	33.3	24.0	120	290

RV0.**MRF** Threaded Reducing Socket Rp



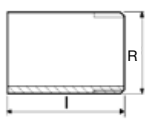
G x G_1	PN	Code	L_1	L_2	Z	E_1	E_2	Gr.
1/2" x 3/8"	16	**RV0.MRF.20A**	15.0	11.4	6	28.0	23.0	17
3/4" x 1/2"	16	**RV0.MRF.25B**	16.3	15.0	7	34.0	28.0	24
1" x 3/4"	16	**RV0.MRF.32C**	19.1	16.3	7	42.0	34.0	40
1 1/4" x 1"	16	**RV0.MRF.40D**	21.4	19.1	8	51.0	42.0	60
1 1/2" x 1 1/4"	16	**RV0.MRF.50E**	21.4	21.4	8	58.0	51.0	72
2" x 1 1/4"	16	**RV0.MRF.63F**	25.7	21.4	8	72.0	58.0	115
2 1/2" x 2"	16	**RV0.MRF.75G**	30.2	25.7	8	89.0	72.0	128
3" x 2 1/2"	16	**RV0.MRF.90H**	33.3	30.2	9	103.0	89.0	286
4" x 3"	16	**RV0.MRF.91I**	39.3	33.3	10	130.0	103.0	436

RV0.**DAF** Nut



G	PN	Code	E	H	d	Gr.
1/2"	16	**RV0.DAF.200**	29	13	38	9
3/4"	16	**RV0.DAF.250**	34	14	43	11
1"	16	**RV0.DAF.320**	46	16	56	26
1 1/4"	16	**RV0.DAF.400**	50	18	65	29
1 1/2"	16	**RV0.DAF.500**	60	19	72	43
2"	16	**RV0.DAF.630**	80	21	94	89
2 1/2"	16	**RV0.DAF.750**	94	24	115	94
3"	16	**RV0.DAF.900**	108	27	130	138
4"	16	**RV0.DAF.910**	135	30	162	205

RV0.**BNF** Barrel Nipple threaded

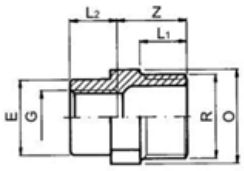


R	PN	Code	I	Gr.
3/8"	16	**RV0.BNF.160**	44	11
1/2"	16	**RV0.BNF.200**	50	13
3/4"	16	**RV0.BNF.250**	56	20
1"	16	**RV0.BNF.320**	62	30
1 1/4"	16	**RV0.BNF.400**	75	51
1 1/2"	16	**RV0.BNF.500**	87	83
2"	16	**RV0.BNF.630**	87	119
2 1/2"	16	**RV0.BNF.750**	105	169
3"	16	**RV0.BNF.900**	128	243
4"	16	**RV0.BNF.910**	156	485

Reducing Bush threaded

RV0.**RIF**

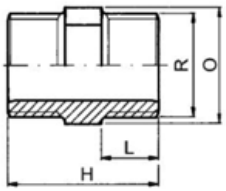
R x G	PN	Code	L_1	L_2	Z	E	O	Gr.
1/2" x 3/8"	16	**RV0.RIF.20A**	15	11	24	23	24	12
3/4" x 3/8"	16	**RV0.RIF.25A**	16	11	25	23	30	16
3/4" x 1/2"	16	**RV0.RIF.25B**	16	15	26	28	30	20
1" x 3/8"	16	**RV0.RIF.32A**	19	15	25	25	36	24
1" x 1/2"	16	**RV0.RIF.32B**	19	15	29	28	36	26
1" x 3/4"	16	**RV0.RIF.32C**	19	16	30	34	36	26
1 1/4" x 1/2"	16	**RV0.RIF.40B**	21	15	33	28	46	42
1 1/4" x 3/4"	16	**RV0.RIF.40C**	21	16	33	34	46	43
1 1/4" x 1"	16	**RV0.RIF.40D**	21	19	33	42	46	46
1 1/2" x 3/4"	16	**RV0.RIF.50C**	21	16	34	34	50	46
1 1/2" x 1"	16	**RV0.RIF.50D**	21	19	34	42	50	50
1 1/2" x 1 1/4"	16	**RV0.RIF.50E**	21	21	34	51	55	60
2" x 1"	16	**RV0.RIF.63D**	25	19	37	42	65	85
2" x 1 1/4"	16	**RV0.RIF.63E**	25	21	37	51	65	85
2" x 1 1/2"	16	**RV0.RIF.63F**	25	21	37	58	65	87
2 1/2" x 1 1/4"	16	**RV0.RIF.75E**	30	21	43	51	80	140
2 1/2" x 1 1/2"	16	**RV0.RIF.75F**	30	21	43	58	80	138
2 1/2" x 2"	16	**RV0.RIF.75G**	30	25	43	72	80	142
3" x 1 1/2"	16	**RV0.RIF.90F**	33	21	47	58	95	200
3" x 2"	16	**RV0.RIF.90G**	33	25	47	72	95	205
3" x 2 1/2"	16	**RV0.RIF.90H**	33	30	47	89	95	215
4" x 2"	16	**RV0.RIF.91G**	39	25	53	72	120	325
4" x 2 1/2"	16	**RV0.RIF.91H**	39	30	53	89	120	330
4" x 3"	16	**RV0.RIF.91I**	39	33	53	103	120	350



Hexagonal Nipple

RV0.**NIF**

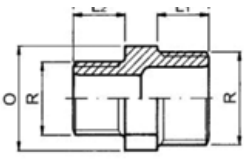
R	PN	Code	L	H	O	Gr.
3/8"	16	**RV0.NIF.160**	11.4	33	22	7
1/2"	16	**RV0.NIF.200**	15.0	42	24	11
3/4"	16	**RV0.NIF.250**	16.3	42	30	18
1"	16	**RV0.NIF.320**	19.1	50	36	28
1 1/4"	16	**RV0.NIF.400**	21.4	58	46	49
1 1/2"	16	**RV0.NIF.500**	21.4	58	50	51
2"	16	**RV0.NIF.630**	25.7	66	65	95
2 1/2"	16	**RV0.NIF.750**	30.2	80	80	142
3"	16	**RV0.NIF.900**	33.3	85	95	221
4"	16	**RV0.NIF.910**	39.3	96	120	345



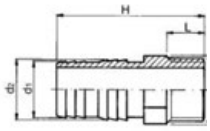
Reducing Nipple

RV0.**NRF**

R x R	PN	Code	L_1	L_2	H	O	Gr.
1/2" x 3/8"	16	**RV0.NRF.20A**	15.0	11.4	38	24	11
3/4" x 1/2"	16	**RV0.NRF.25B**	16.3	15.0	43	30	17
1" x 3/4"	16	**RV0.NRF.32C**	19.1	16.3	47	36	26
1 1/4" x 1"	16	**RV0.NRF.40D**	21.4	19.1	56	46	42
1 1/2" x 1 1/4"	16	**RV0.NRF.50E**	21.4	21.4	58	50	48
2" x 1 1/2"	16	**RV0.NRF.63F**	25.7	21.4	62	65	81
2 1/2" x 2"	16	**RV0.NRF.75G**	30.2	25.7	73	80	138
3" x 2 1/2"	16	**RV0.NRF.90H**	33.3	30.2	82	95	208
4" x 3"	16	**RV0.NRF.91I**	39.3	33.3	90	120	339

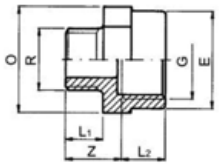


RV0.**PGF** Hose Adaptor threaded



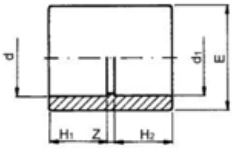
R	PN	Code	L	H	d_1	d_2	Gr.
3/8"	16	**RV0.PGF.160**	11.5	56.0	16	18	9
1/2"	16	**RV0.PGF.200**	15.3	66.0	20	22	16
3/4"	16	**RV0.PGF.250**	16.8	71.3	25	27	24
1"	16	**RV0.PGF.320**	19.9	77.1	32	34	35
1 1/4"	16	**RV0.PGF.400**	21.8	87.4	40	42	61
1 1/2"	16	**RV0.PGF.500**	22.9	91.4	50	52	74
2"	16	**RV0.PGF.630**	25.8	98.7	60	64	126

RV0.**MGF** Reducer Female-Male Threaded



R x G	PN	Code	L_1	L_2	Z	O	E	Gr.
3/8" x 1/2"	16	**RV0.MGF.16B**	11.4	15.0	22	30	28	16
1/2" x 3/4"	16	**RV0.MGF.20C**	15.0	16.3	24	36	34	22
3/4" x 1"	16	**RV0.MGF.25D**	16.3	19.1	26	46	42	37
1" x 1 1/4"	16	**RV0.MGF.32E**	19.1	21.4	30	55	51	59
1 1/4" x 1 1/2"	16	**RV0.MGF.40F**	21.4	21.4	33	60	58	74
1 1/2" x 2"	16	**RV0.MGF.50G**	21.4	25.7	34	75	72	110
2" x 2 1/2"	16	**RV0.MGF.63H**	25.7	30.2	38	90	89	187
2 1/2" x 3"	16	**RV0.MGF.75I**	30.2	33.3	44	105	103	262
3" x 4"	16	**RV0.MGF.90L**	33.3	39.3	48	130	128	416

RV0.**MAT** Adaptor Socket BS/ISO



d x d_1	PN	Code	H	Z	E	Gr.
3/8" x 16	16	**RV0.MAT.16A**	14.5	3	22	6
1/2" x 20	16	**RV0.MAT.20B**	16.5	3	26	10
3/4" x 25	16	**RV0.MAT.25C**	19.5	3	32	22
1" x 32	16	**RV0.MAT.32D**	22.5	3	40	36
1 1/4" x 40	16	**RV0.MAT.40E**	27.0	2	51	54
1 1/2" x 50	16	**RV0.MAT.50F**	30.0	4	61	93
2" x 63	16	**RV0.MAT.63G**	36.0	6	75	160
2 1/2" x 75	16	**RV0.MAI.750**	44.0	4	89	226
3" x 90	16	**RV0.MAT.90I**	50.5	6	106	353
4" x 110	16	**RV0.MAT.91L**	63.0	4	129	565
5" x 140	16	**RV0.MAI.930**	76.0	8	162	1100
6" x 160	16	**RV0.MAT.94O**	90.0	8	190	1540

PVC-U METRIC

General properties of PVC-U Fittings Metric range

APPLICATIONS
TP (formerly known as Tecno Plastic) is a dedicated brand of PVC pipe, fittings and valves for water piping systems. Each TP product is designed to meet the demands of the customers in specific application areas such as distribution, treatment and sewage water, public and private swimming pools, thermal pools and spas, aquariums and irrigation.

RANGE
TP full range of metric fittings is available for solvent cement from 16mm to 315mm and BSP threaded from 3/8" to 6".

MATERIAL
Fittings supplied in rigid PVC (polyvinylchloride) unplasticised suitable for conveying potable water.

STANDARDS
The raw material is in compliance with international standards, details available upon request. TP pipe and fittings are in compliance with ISO EN 1452.

QUALITY APPROVALS
Our PVC compound is suitable for conveying potable water in accordance with Water Regulations Advisory Scheme, WRAS.

GASKETS
Standard gaskets for unions and flanges are in EPDM (ethylene-polypropylene rubber).

MECHANICAL RESISTANCES
The following data are referred to water or not particularly aggressive fluids, at a working temperature of 20°C.

TP can not assume liability of characteristics not directly involved in international standards.

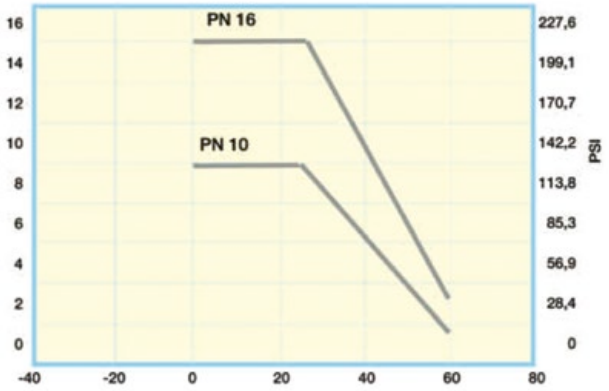
Max working pressure in Bar

SERIES	DIMENSIONS	PN
Solvent welding	d16 to d200 d225 to d315	16 10
Threaded	3/8" to 6"	16/10
Adaptor	d16 to d160	16

Safety factors at 20° C

WORKING PRESSURE	1 Hour	50 YEARS
10 Bar	6.7	4.0
16 Bar DN<160	4.2	2.5
16 Bar DN>160	3.36	2.0

PRESSURE - TEMPERATURE RELATIONSHIP ACCORDING TO DIN 3441 AND EN 1452/3/5



PVC-U Fittings & Valves Installation Notes

Solvent Cement Fittings
TP fittings in rigid PVC-U can be cemented to each other and with pipes of same material provided that the pipe dimension and tolerances are in accordance with the mentioned standard.

A strong dense-type solvent cement is recommended, especially for coupling large diameters, where the ovalisation effect may cause a considerable gap. For a perfect sealing this gap should never exceed 0.6mm with a dense type cement and 0.3mm with a fluid type cement. For a perfect sealing strictly follow the cement manufacturer's instructions:

a) Cut the pipe squarely, remove burrs and chamfer edge of pipe.Then, using a clean cloth wipe over with cleaning fluid.
b) Apply an even coating of solvent cement to both socket and spigot.
c) Push spigot into socket immediately (1-2 minutes)
d) Wipe off excess cement.

Leave joint undisturbed for the time required by the cement manufacturer and in any case allow 24 hours at normal room temperature (20°C) before applying pressure.

Verify the correct alignment of pipe and fitting.

Threaded Fittings
TP fittings in rigid PVC-U of the threaded series or of the adaptor series can be screwed to each other or to pipe and other threaded parts in other materials. For a perfect sealing follow these instructions:

a) Wind up the the threaded male end completely with a good quality PTFE tape.
b) Press PTFE tape on the threads to ensure a good contact.
c) Add an extra coat of PTFE if required.
d) Screw the female socket by hand making sure that the PTFE is not removed.
e) Finally, tighten the joint.

Warning: excessive tightening could damage the threads. PVC female threaded fittings should never be connected with metal pipes or fittings or with cone shaped male threads as it could break the female socket. The use of hemp or similar material should be avoided as - contrary to PTFE tape - they are not rejected by the coupling even when used in excess. Consequently the socket end will expand and possibly break during jointing or running procedures. Threaded fittings should not be used with aggressive fluids at high pressure (10-16 bar). For such applications solvent cement fittings are advised.

PVC-U Ball Valves
Read and follow the instructions as per the fittings instructions.

When connecting the valve, take out the central body in order to prevent the cement from coming into contact with the valve seats and ball. While assembling the valve, tighten the union nuts handtight only. If there is leakage from the union nuts, please check the correct line-up of the installation and the pipe length. An excessive tightening of the union nuts could break them.

Before the valve is operated, all dirt, sand and other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closing/ opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.

RV0.**CMC**

PVC-U Pipe 10 bar

d	PN	Code	L (m)
32	10	**RV0.CMC.320**	5
40	10	**RV0.CMC.400**	5
50	10	**RV0.CMC.500**	5
63	10	**RV0.CMC.630**	5
*75	10	**RV0.CMC.750**	6
90	10	**RV0.CMC.900**	5
110	10	**RV0.CMC.910**	5
125	10	**RV0.CMC.920**	5
140	10	**RV0.CMC.930**	5
160	10	**RV0.CMC.940**	5
200	10	**RV0.CMC.960**	5
225	10	**RV0.CMC.970**	5
250	10	**RV0.CMC.980**	5
315	10	**RV0.CMC.991**	5

PLEASE NOTE:
* 75mm PN10 pipe is supplied in 6m lengths

RV0.**CME**

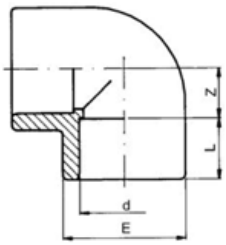
PVC-U Pipe 16 bar

d	PN	Code	L (m)
16	16	**RV0.CME.160**	5
20	16	**RV0.CME.200**	5
25	16	**RV0.CME.250**	5
32	16	**RV0.CME.320**	5
40	16	**RV0.CME.400**	5
50	16	**RV0.CME.500**	5
63	16	**RV0.CME.630**	5
75	16	**RV0.CME.750**	5
90	16	**RV0.CME.900**	5
110	16	**RV0.CME.910**	5
125	16	**RV0.CME.920**	5

90° Elbow

RV0.**GOI**

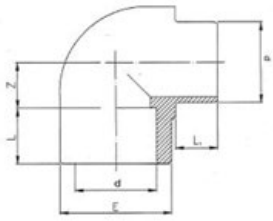
d	PN	Code	L	Z	E	Gr.
16	16	**RV0.GOI.160**	14	9	22	9
20	16	**RV0.GOI.200**	16	11	26	15
25	16	**RV0.GOI.250**	19	14	32	25
32	16	**RV0.GOI.320**	22	17	40	41
40	16	**RV0.GOI.400**	26	21	51	90
50	16	**RV0.GOI.500**	31	26	61	140
63	16	**RV0.GOI.630**	38	33	75	222
75	16	**RV0.GOI.750**	44	39	89	375
90	16	**RV0.GOI.900**	51	47	106	600
110	16	**RV0.GOI.910**	61	57	129	1060
125	16	**RV0.GOI.920**	69	66	145	1415
140	16	**RV0.GOI.930**	76	72	163	2050
160	16	**RV0.GOI.940**	86	82	190	3450
200	16	**RV0.GOI.960**	106	102	228	4700
225	10	**RV0.GOI.970**	119	115	255	5900
250	10	**RV0.GOI.980**	131	188	286	12150
315	10	**RV0.GOI.991**	164	239	358	23500



90° Elbow M/F

RV0.**GPI**

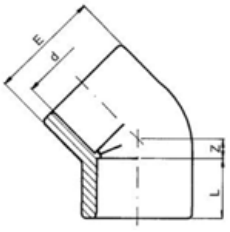
d	PN	Code	L	L_1	Z	E	Gr.
50	16	**RV0.GPI.500**	31	31	26	61	155
63	16	**RV0.GPI.630**	38	38	33	75	250



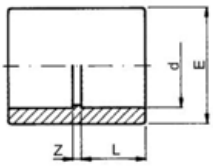
45° Elbow

RV0.**GYI**

d	PN	Code	L	Z	E	Gr.
16	16	**RV0.GYI.160**	14	5	23	10
20	16	**RV0.GYI.200**	16	5	28	17
25	16	**RV0.GYI.250**	19	6	34	29
32	16	**RV0.GYI.320**	22	8	42	47
40	16	**RV0.GYI.400**	26	10	51	77
50	16	**RV0.GYI.500**	31	12	61	113
63	16	**RV0.GYI.630**	38	14	75	190
75	16	**RV0.GYI.750**	44	17	89	310
90	16	**RV0.GYI.900**	51	20	106	486
110	16	**RV0.GYI.910**	61	24	129	836
125	16	**RV0.GYI.920**	69	27	145	1080
140	16	**RV0.GYI.930**	76	31	163	1525
160	16	**RV0.GYI.940**	86	35	185	2250
200	16	**RV0.GYI.960**	106	43	228	3500
225	10	**RV0.GYI.970**	119	49	255	5755
250	10	**RV0.GYI.980**	131	58	287	7680
315	10	**RV0.GYI.991**	164	66	360	14700

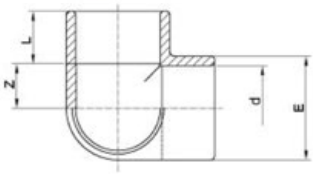


RV0.**MAI** Socket



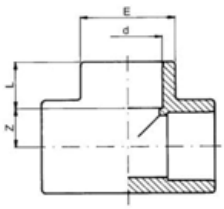
d	PN	Code	L	Z	E	Gr.
16	16	**RV0.MAI.160**	14	3	22	9
20	16	**RV0.MAI.200**	16	3	26	10
25	16	**RV0.MAI.250**	19	3	32	16
32	16	**RV0.MAI.320**	22	3	40	26
40	16	**RV0.MAI.400**	26	3	48	43
50	16	**RV0.MAI.500**	31	3	60	75
63	16	**RV0.MAI.630**	38	3	74	121
75	16	**RV0.MAI.750**	44	4	89	226
90	16	**RV0.MAI.900**	51	5	106	361
110	16	**RV0.MAI.910**	61	6	129	625
125	16	**RV0.MAI.920**	69	7	145	840
140	16	**RV0.MAI.930**	76	8	162	1100
160	16	**RV0.MAI.940**	86	8	184	1400
200	16	**RV0.MAI.960**	106	10	227	2560
225	10	**RV0.MAI.970**	119	10	225	3540
250	10	**RV0.MAI.980**	131	10	287	5250
315	10	**RV0.MAI.991**	164	12	355	10000

RV0.**GTI** Three Way Elbow



d	PN	Code	L	Z	E	Gr.
50	16	**RV0.GTI.500**	31	26	61	155
63	16	**RV0.GTI.630**	38	33	75	250

RV0.**TII** 90° Tee

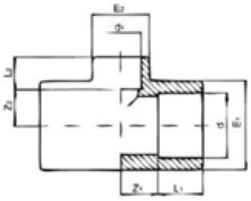


d	PN	Code	L	Z	E	Gr.
16	16	**RV0.TII.160**	14	9	22	12
20	16	**RV0.TII.200**	16	11	26	20
25	16	**RV0.TII.250**	19	14	32	34
32	16	**RV0.TII.320**	22	17	40	54
40	16	**RV0.TII.400**	26	21	51	127
50	16	**RV0.TII.500**	31	26	61	184
63	16	**RV0.TII.630**	38	33	75	315
75	16	**RV0.TII.750**	44	39	89	523
90	16	**RV0.TII.900**	51	47	106	734
110	16	**RV0.TII.910**	61	57	129	1330
125	16	**RV0.TII.920**	69	66	148	1960
140	16	**RV0.TII.930**	76	72	163	2650
160	16	**RV0.TII.940**	86	82	190	4350
200	16	**RV0.TII.960**	106	102	228	6540
225	10	**RV0.TII.970**	119	115	255	8100
250	10	**RV0.TII.980**	131	128	286	13250
315	10	**RV0.TII.991**	161	162	360	24350

90° Reducing Tee

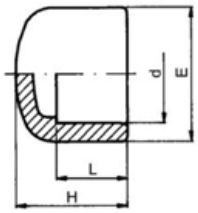
RV0.**TRI**

d x d_1	PN	Code	L_1	L_2	Z_1	Z_2	E_1	E_2	Gr.
20 x 16	16	**RV0.TRI.20A**	16	14	11	11	28	23	16
25 x 16	16	**RV0.TRI.25A**	19	14	14	14	34	23	41
25 x 20	16	**RV0.TRI.25B**	19	16	14	14	34	28	42
32 x 16	16	**RV0.TRI.32A**	22	14	17	17	42	23	68
32 x 20	16	**RV0.TRI.32B**	22	16	17	17	42	28	69
32 x 25	16	**RV0.TRI.32C**	22	19	17	17	42	34	70
40 x 20	16	**RV0.TRI.40B**	26	16	21	21	51	28	105
40 x 25	16	**RV0.TRI.40C**	26	19	21	21	51	34	107
40 x 32	16	**RV0.TRI.40D**	26	22	21	21	51	42	112
50 x 20	16	**RV0.TRI.50B**	31	16	26	26	61	28	156
50 x 25	16	**RV0.TRI.50C**	31	19	26	26	61	34	157
50 x 32	16	**RV0.TRI.50D**	31	22	26	26	61	42	162
50 x 40	16	**RV0.TRI.50E**	31	26	26	26	61	51	168
63 x 20	16	**RV0.TRI.63B**	38	16	33	33	75	28	268
63 x 25	16	**RV0.TRI.63C**	38	19	33	33	75	34	270
63 x 32	16	**RV0.TRI.63D**	38	22	33	33	75	42	274
63 x 40	16	**RV0.TRI.63E**	38	26	33	33	75	51	277
63 x 50	16	**RV0.TRI.63F**	38	31	33	33	75	61	278
75 x 32	16	**RV0.TRI.75D**	44	22	39	39	89	42	463
75 x 40	16	**RV0.TRI.75E**	44	26	39	39	89	51	465
75 x 50	16	**RV0.TRI.75F**	44	31	39	39	89	61	464
75 x 63	16	**RV0.TRI.75G**	44	38	39	39	89	75	478
90 x 40	16	**RV0.TRI.90E**	51	26	47	47	106	51	702
90 x 50	16	**RV0.TRI.90F**	51	31	47	47	106	61	703
90 x 63	16	**RV0.TRI.90G**	51	38	47	47	106	75	713
90 x 75	16	**RV0.TRI.90H**	51	44	47	47	106	89	731
110 x 50	16	**RV0.TRI.91F**	61	31	57	57	129	61	1245
110 x 63	16	**RV0.TRI.91G**	61	38	57	57	129	75	1250
110 x 75	16	**RV0.TRI.91H**	61	44	57	57	129	89	1255
110 x 90	16	**RV0.TRI.91I**	61	51	57	57	129	106	1297
125 x 50	16	**RV0.TRI.92F**	69	31	66	66	148	61	1930
125 x 63	16	**RV0.TRI.92G**	69	38	66	66	148	75	1955
125 x 75	16	**RV0.TRI.92H**	69	44	66	66	148	89	1980
125 x 90	16	**RV0.TRI.92I**	69	51	66	66	148	106	2020
125 x 110	16	**RV0.TRI.92L**	69	61	66	66	148	129	2060
160 x 90	16	**RV0.TRI.94I**	86	51	82	82	190	106	3790
160 x 110	16	**RV0.TRI.94L**	86	61	82	82	190	129	3840



RV0.**CAI**

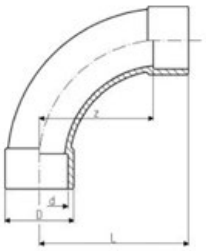
Cap



d	PN	Code	L	H	E	Gr.
16	16	**RV0.CAI.160**	14	22	22	4
20	16	**RV0.CAI.200**	16	26	26	7
25	16	**RV0.CAI.250**	19	30	32	13
32	16	**RV0.CAI.320**	22	33	40	22
40	16	**RV0.CAI.400**	26	41	51	44
50	16	**RV0.CAI.500**	31	46	61	66
63	16	**RV0.CAI.630**	38	55	75	112
75	16	**RV0.CAI.750**	44	64	89	208
90	16	**RV0.CAI.900**	51	73	106	325
110	16	**RV0.CAI.910**	61	87	129	520
125	16	**RV0.CAI.920**	69	98	145	640
140	16	**RV0.CAI.930**	76	108	162	880
160	16	**RV0.CAI.940**	86	123	182	1120
200	16	**RV0.CAI.960**	106	149	228	2115
225	10	**RV0.CAI.970**	119	119	256	3800

RV0.**CUI**

90° Bend

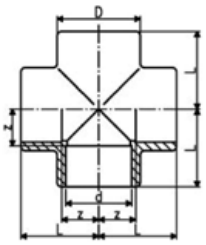


d	PN	Code	L	Z	E	Gr.
20	16	**RV0.CUI.200**	16	40	29	30
25	16	**RV0.CUI.250**	19	50	36	50
32	16	**RV0.CUI.320**	22	64	43	92
40	16	**RV0.CUI.400**	26	80	54	165
50	16	**RV0.CUI.500**	31	100	61	270
63	16	**RV0.CUI.630**	38	126	76	490
75	16	**RV0.CUI.750**	44	150	94	990
90	16	**RV0.CUI.900**	51	180	113	1600
110	16	**RV0.CUI.910**	61	220	137	2856

Cross 90°

RV0.**CRI**

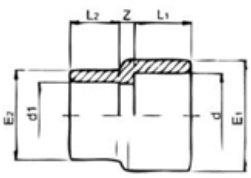
d	PN	Code	L	Z	D	Gr.
20	16	**RV0.CRI.200**	16	11	27.5	30
25	16	**RV0.CRI.250**	19	14	33.5	60
32	16	**RV0.CRI.320**	22	17	42.0	105
40	16	**RV0.CRI.400**	26	21	51.0	175
50	16	**RV0.CRI.500**	31	26	61.0	265
63	16	**RV0.CRI.630**	38	33	75.0	505
75	10	**RV0.CRI.750**	44	40	91.0	735
90	10	**RV0.CRI.900**	51	46	106.0	1180
110	10	**RV0.CRI.910**	61	56	129.5	1588



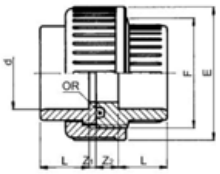
Reducing Socket

RV0.**MRI**

d_1 x d_1	PN	Code	L_1	L_2	Z	E_1	E_2	Fig	Gr.
20 x 16	16	**RV0.MRI.20A**	16	14	6	28	23	B	14
25 x 20	16	**RV0.MRI.25B**	19	16	6	34	28	B	22
32 x 25	16	**RV0.MRI.32C**	22	19	6	42	34	B	35
40 x 32	16	**RV0.MRI.40D**	26	22	6	51	42	B	53
50 x 40	16	**RV0.MRI.50E**	31	26	6	61	51	B	81
63 x 50	16	**RV0.MRI.63F**	38	31	6	75	61	B	120
75 x 63	16	**RV0.MRI.75G**	44	38	4	89	75	A	211
90 x 75	16	**RV0.MRI.90H**	51	44	5	106	89	A	345
110 x 90	16	**RV0.MRI.91I**	61	51	6	129	106	A	550
125 x 110	16	**RV0.MRI.92L**	69	61	24	145	129	B	740
140 x 110	16	**RV0.MRI.93L**	76	61	25	160	129	B	970
140 x 125	16	**RV0.MRI.93M**	76	69	19	160	145	B	1040
160 x 110	16	**RV0.MRI.94L**	86	61	24	181	130	B	1220
160 x 140	16	**RV0.MRI.94N**	86	76	8	184	162	B	1350
200 x 160	16	**RV0.MRI.96O**	106	86	24	227	184	B	2360
225 x 200	10	**RV0.MRI.97Q**	119	106	10	255	227	B	3220

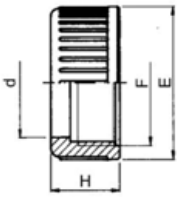


RV0.**BOI** Union with O ring EPDM



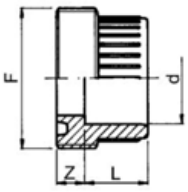
d	PN	Code	L	Z_1	Z_2	F	E	Gr.
16	16	**RV0.BOI.160**	14	3	10	3/4"	34	25
20	16	**RV0.BOI.200**	16	3	10	1"	42	42
25	16	**RV0.BOI.250**	19	3	10	1 1/4"	52	66
32	16	**RV0.BOI.320**	22	3	10	1 1/2"	59	92
40	16	**RV0.BOI.400**	16	3	12	2"	73	160
50	16	**RV0.BOI.500**	31	3	14	2 1/4"	82	200
63	16	**RV0.BOI.630**	38	3	18	2 3/4"	100	350
75	10	**RV0.BOI.750**	44	3	18	3 1/2"	119	575
90	10	**RV0.BOI.900**	51	5	18	4"	134	765
110	10	**RV0.BOI.910**	61	5	18	5"	163	1285

RV0.**BGO** Union Nut



d	PN	Code	H	F	E	Gr.
3/8"	16	**RV0.BGO.160**	21	3/4"	34	13
1/2"	16	**RV0.BGO.200**	23	1"	42	15
3/4"	16	**RV0.BGO.250**	25	1 1/4"	52	25
1"	16	**RV0.BGO.320**	27	1 1/2"	59	35
1 1/4"	16	**RV0.BGO.400**	30	2"	72	60
1 1/2"	16	**RV0.BGO.500**	34	2 1/4"	79	80
2"	16	**RV0.BGO.630**	38	2 3/4"	96	130
2 1/2"	10	**RV0.BGO.750**	45	3 1/2"	119	200
3"	10	**RV0.BGO.900**	52	4"	134	285
4"	10	**RV0.BGO.910**	60	5"	163	445

RV0.**BFI** Union Bush

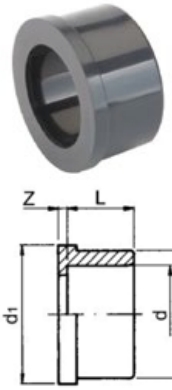


d	PN	Code	L	Z	F	Gr.
16	16	**RV0.BFI.160**	14	10	3/4"	9
20	16	**RV0.BFI.200**	16	10	1"	15
25	16	**RV0.BFI.250**	19	10	1 1/4"	24
32	16	**RV0.BFI.320**	22	10	1 1/2"	34
40	16	**RV0.BFI.400**	16	12	2"	57
50	16	**RV0.BFI.500**	31	14	2 1/4"	78
63	16	**RV0.BFI.630**	38	18	2 3/4"	134
75	10	**RV0.BFI.750**	44	18	3 1/2"	205
90	10	**RV0.BFI.900**	51	18	4"	270
110	10	**RV0.BFI.910**	61	18	5"	465

Union End

RV0.**BLI**

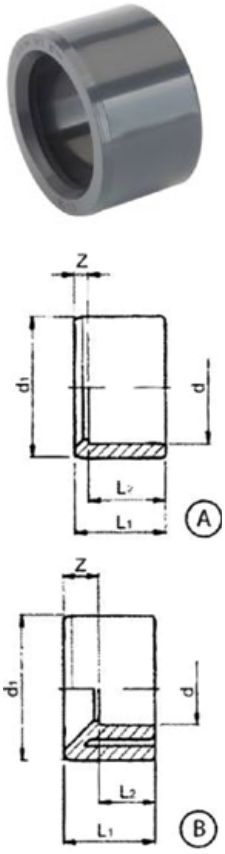
D	PN	Code	L	Z	d	d_1	Gr.
16	16	**RV0.BLI.160**	14	3	22.0	24.0	6
20	16	**RV0.BLI.200**	16	3	27.5	30.1	9
25	16	**RV0.BLI.250**	19	3	36.0	38.8	16
32	16	**RV0.BLI.320**	22	3	41.5	44.7	22
40	16	**RV0.BLI.400**	16	3	53.0	56.5	40
50	16	**RV0.BLI.500**	31	3	59.0	62.6	43
63	16	**RV0.BLI.630**	38	3	74.0	78.4	80
75	10	**RV0.BLI.750**	44	3	92.5	97.2	150
90	10	**RV0.BLI.900**	51	5	105.0	110.0	195
110	10	**RV0.BLI.910**	61	5	129.0	135.4	350



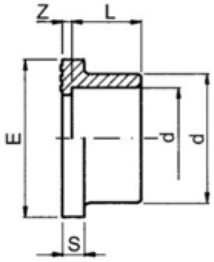
Reducing Bush

RV0.**RCI**

d x d_1	PN	Code	L_1	L_2	Z	Fig	Gr.
20 x 16	16	**RV0.RCI.20A**	16	14	2	A	3
25 x 16	16	**RV0.RCI.25A**	19	14	5	B	8
25 x 20	16	**RV0.RCI.25B**	19	16	3	A	5
32 x 16	16	**RV0.RCI.32A**	22	14	8	B	15
32 x 20	16	**RV0.RCI.32B**	22	16	6	B	15
32 x 25	16	**RV0.RCI.32C**	22	19	3	A	10
40 x 20	16	**RV0.RCI.40B**	26	16	10	B	25
40 x 25	16	**RV0.RCI.40C**	26	19	7	B	26
40 x 32	16	**RV0.RCI.40D**	26	22	4	A	16
50 x 25	16	**RV0.RCI.50C**	31	19	12	B	44
50 x 32	16	**RV0.RCI.50D**	31	22	9	B	41
50 x 40	16	**RV0.RCI.50E**	31	26	5	A	30
63 x 32	16	**RV0.RCI.63D**	38	22	16	B	83
63 x 40	16	**RV0.RCI.63E**	38	26	12	B	78
63 x 50	16	**RV0.RCI.63F**	38	31	7	A	61
75 x 40	16	**RV0.RCI.75E**	44	26	18	B	120
75 x 50	16	**RV0.RCI.75F**	44	31	13	B	122
75 x 63	16	**RV0.RCI.75G**	44	38	6	A	80
90 x 50	16	**RV0.RCI.90F**	51	31	20	B	210
90 x 63	16	**RV0.RCI.90G**	51	38	13	B	195
90 x 75	16	**RV0.RCI.90H**	51	44	7	A	140
110 x 63	16	**RV0.RCI.91G**	61	38	23	B	372
110 x 75	16	**RV0.RCI.91H**	61	44	17	B	370
110 x 90	16	**RV0.RCI.91I**	61	51	10	A	273
125 x 75	16	**RV0.RCI.92H**	69	44	25	B	412
125 x 90	16	**RV0.RCI.92I**	69	51	18	B	450
125 x 110	16	**RV0.RCI.92L**	69	61	8	A	273
140 x 90	16	**RV0.RCI.93I**	76	51	25	B	550
140 x 110	16	**RV0.RCI.93L**	76	61	15	B	510
140 x 125	16	**RV0.RCI.93M**	76	69	7	A	320
160 x 110	16	**RV0.RCI.94L**	86	61	25	B	820
160 x 125	16	**RV0.RCI.94M**	86	69	17	B	725
160 x 140	16	**RV0.RCI.94N**	86	76	10	A	555
180 x 160	16	**RV0.RCI.95O**	96	86	10	A	710
200 x 160	16	**RV0.RCI.96O**	106	86	10	A	1645
200 x 180	16	**RV0.RCI.96P**	106	96	10	A	870
225 x 160	10	**RV0.RCI.97O**	119	86	33	B	2300
225 x 200	10	**RV0.RCI.97Q**	119	106	13	A	1360
250 x 160	10	**RV0.RCI.98O**	134	87	47	B	3300
250 x 200	10	**RV0.RCI.98Q**	134	107	27	B	2700
250 x 222	10	**RV0.RCI.98R**	132	120	12	A	2100
315 x 200	10	**RV0.RCI.991Q**	165	107	58	B	5000
315 x 225	10	**RV0.RCI.991R**	165	132	33	B	4500
315 x 250	10	**RV0.RCI.991S**	165	132	33	B	4100



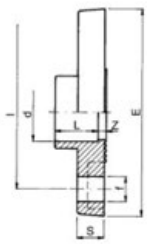
RV0.**QRI** Stub Flange serrated face



d	PN	Code	L	Z	S	E	Gr.
20	16	**RV0.QRI.200**	16	3	6	34	10
25	16	**RV0.QRI.250**	19	3	7	41	16
32	16	**RV0.QRI.320**	22	3	7	50	25
40	16	**RV0.QRI.400**	26	3	8	61	40
50	16	**RV0.QRI.500**	31	3	8	73	60
63	16	**RV0.QRI.630**	38	3	9	90	105
75	16	**RV0.QRI.750**	44	3	10	106	160
90	16	**RV0.QRI.900**	51	5	11	125	277
110	16	**RV0.QRI.910**	61	5	12	150	442
125	16	**RV0.QRI.920**	69	5	13	168	570
140	16	**RV0.QRI.930**	76	5	14	188	750
160	16	**RV0.QRI.940**	86	5	16	213	1046
200	16	**RV0.QRI.960**	106	7	18	254	2000
225	10	**RV0.QRI.970**	119	7	19	274	1700
250	10	**RV0.QRI.980**	131	10	20	307	2325
315	10	**RV0.QRI.991**	164	11	27	379	4834

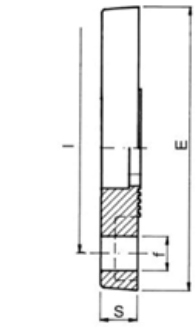
Backing Ring & gaskets available see Accessories section.

RV0.**FFI** Fixed Flange NP10-16 drilled to BS 4504



d	PN	Code	L	Z	E	S	l	f	Holes	Gr.
20	16	**RV0.FFI.200**	16	4.5	95	11	65	14	4	70
25	16	**RV0.FFI.250**	19	4.5	105	12	75	14	4	105
32	16	**RV0.FFI.320**	22	4.5	115	14	85	14	4	145
40	16	**RV0.FFI.400**	26	4.5	140	15	100	18	4	220
50	16	**RV0.FFI.500**	31	4.5	150	16	110	18	4	270
63	16	**RV0.FFI.630**	38	4.5	165	18	125	18	4	380
75	16	**RV0.FFI.750**	44	6.0	185	19	145	18	4	505
90	16	**RV0.FFI.900**	51	7.0	200	20	160	18	8	685
110	16	**RV0.FFI.910**	61	8.0	220	22	180	18	8	940
125	10	**RV0.FFI.920**	69	7.0	230	24	190	18	8	1033
140	10	**RV0.FFI.930**	76	7.0	250	26	210	18	8	1335
160	10	**RV0.FFI.940**	86	7.0	285	28	240	18	8	1853

RV0.**FCI** Blank Flange NP10-16

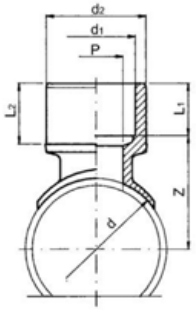


d	PN	Code	E	S	l	f	Holes	Gr.
20	16	**RV0.FCI.200**	95	11	65	14	4	73
25	16	**RV0.FCI.250**	105	12	75	14	4	95
32	16	**RV0.FCI.320**	115	14	85	14	4	135
40	16	**RV0.FCI.400**	140	15	100	18	4	220
50	16	**RV0.FCI.500**	150	16	110	18	4	270
63	16	**RV0.FCI.630**	165	18	125	18	4	370
75	16	**RV0.FCI.750**	185	19	145	18	4	495
90	16	**RV0.FCI.900**	200	20	160	18	8	630
110	16	**RV0.FCI.910**	220	22	180	18	8	800
125	16	**RV0.FCI.920**	230	24	190	18	8	890
140	16	**RV0.FCI.930**	250	26	210	18	8	1000
160	16	**RV0.FCI.940**	285	28	240	22	8	1620
200	10	**RV0.FCI.960**	340	30	295	22	8	2480
225	10	**RV0.FCI.970**	340	30	295	22	8	2480

Saddle Socket Male / Female

DV0.**DEI**

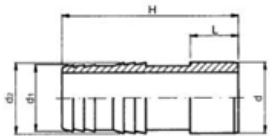
d x d_1 x d_2	PN	Code	L_1	L_2	Z	P	Gr.
50 x 20 x 25	10	**DV0.DEI.50B**	16	19	43	14	12
50 x 32 x 40	10	**DV0.DEI.50D**	22	26	45	24	35
63 x 20 x 25	10	**DV0.DEI.63B**	16	19	49	14	13
63 x 25 x 22	10	**DV0.DEI.63C**	19	22	50	19	21
63 x 32 x 40	10	**DV0.DEI.63D**	22	26	51	24	35
90 x 40 x 50	10	**DV0.DEI.75F**	31	31	68	30	101
90 x 50 x 63	10	**DV0.DEI.90F**	31	38	71	38	108
90 x 63 x 75	10	**DV0.DEI.90G**	38	44	70	48	142
110 x 40 x 50	10	**DV0.DEI.91E**	26	31	78	30	58
110 x 50 x 63	10	**DV0.DEI.91F**	31	38	81	38	108
110 x 63 x 75	10	**DV0.DEI.91G**	38	44	80	48	137
125 x 50 x 63	10	**DV0.DEI.92F**	31	38	88	38	108
140 x 40 x 50	10	**DV0.DEI.93E**	26	31	93	30	59
140 x 63 x 75	10	**DV0.DEI.93G**	38	44	95	48	140
160 x 63 x 75	10	**DV0.DEI.94G**	38	44	105	48	137
200 x 63 x 75	10	**DV0.DEI.96G**	38	44	125	48	137
225 x 63 x 75	10	**DV0.DEI.97G**	38	44	138	48	137



Hose Adaptor

RV0.**PGI**

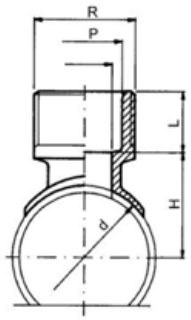
d	PN	Code	L	H	d_1	d_2	Gr.
16	16	**RV0.PGI.160**	14	60	16	18	10
20	16	**RV0.PGI.200**	16	67	20	22	14
25	16	**RV0.PGI.250**	19	74	25	27	20
32	16	**RV0.PGI.320**	22	80	30	32	30
40	16	**RV0.PGI.400**	26	92	40	42	55
50	16	**RV0.PGI.500**	31	101	50	52	78
63	16	**RV0.PGI.630**	38	111	60	64	142



Saddle with male thread R

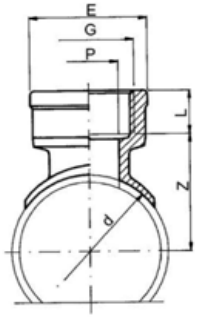
DV0.**DMF**

d x R	PN	Code	L	P	H	Gr.
50 x ½"	10	**DV0.DMF.50B**	15.0	14	42	12
90 x 1½"	10	**DV0.DMF.90F**	21.4	38	66	65
110 x 1"	10	**DV0.DMF.91D**	19.1	24	74	36
140 x 1½"	10	**DV0.DMF.93F**	21.4	38	91	60



DV0.**DEF**

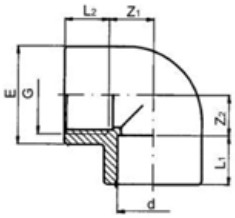
Saddle with female thread Rp



d x Rp	PN	Code	L	Z	P	E	Gr.
32 x 1/4"	10	**DV0.DEF.32Z**	12.9	28.9	11	24.2	10
32 x 3/8"	10	**DV0.DEF.32A**	12.9	28.9	11	24.2	15
40 x 3/8"	10	**DV0.DEF.40A**	14.0	32.0	11	24.2	9
50 x 3/8"	10	**DV0.DEF.50A**	14.0	37.0	11	24.2	10
50 x 1/2"	10	**DV0.DEF.50B**	15.0	42.0	14	30.0	15
50 x 3/4"	10	**DV0.DEF.50C**	16.3	43.0	19	36.0	15
50 x 1/4"	10	**DV0.DEF.50Z**	12.9	37.9	11	24.2	24
63 x 3/8"	10	**DV0.DEF.63A**	14.0	43.5	11	24.2	15
63 x 1/2"	10	**DV0.DEF.63B**	15.0	48.0	14	30.0	15
63 x 3/4"	10	**DV0.DEF.63C**	16.3	49.0	19	36.0	23
75 x 3/8"	10	**DV0.DEF.75A**	14.0	49.5	11	24.2	16
75 x 3/4"	10	**DV0.DEF.75C**	16.3	55.0	19	36.0	23
75 x 1"	10	**DV0.DEF.75D**	19.1	56.0	24	45.0	36
90 x 1/2"	10	**DV0.DEF.90B**	15.0	62.0	14	30.0	13
90 x 1"	10	**DV0.DEF.90D**	19.1	64.0	24	45.0	37
90 x 1 1/2"	10	**DV0.DEF.90F**	21.4	66.0	38	64.0	95
110 x 1/2"	10	**DV0.DEF.91B**	15.0	72.0	14	30.0	15

RV0.**GOP**

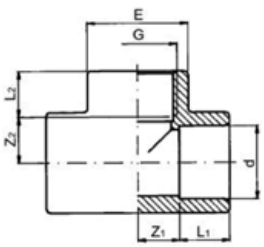
90° Elbow plain/threaded



d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
16 x 3/8"	16	**RV0.GOP.16A**	14	11.4	9	11.6	23	13
20 x 1/2"	16	**RV0.GOP.20B**	16	15.0	11	12.0	28	21
25 x 3/4"	16	**RV0.GOP.25C**	19	16.3	14	16.7	34	34
32 x 1"	16	**RV0.GOP.32D**	22	19.1	17	19.9	42	56
40 x 1 1/4"	16	**RV0.GOP.40E**	26	21.4	21	25.6	51	93
50 x 1 1/2"	16	**RV0.GOP.50F**	31	21.4	26	35.6	61	160
63 x 2"	16	**RV0.GOP.63G**	38	25.7	33	45.3	75	275
75 x 2 1/2"	16	**RV0.GOP.75H**	44	30.2	39	52.8	89	420
90 x 3"	16	**RV0.GOP.90I**	51	33.3	47	64.7	106	710
110 x 4"	16	**RV0.GOP.91L**	61	39.3	57	78.7	129	1065

RV0.**TIP**

90° Tee plain/threaded

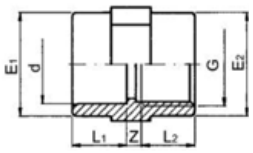


d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
16 x 3/8"	16	**RV0.TIP.16A**	14	11.4	9	11.6	23	17
20 x 1/2"	16	**RV0.TIP.20B**	16	15.0	11	12.0	28	28
25 x 3/4"	16	**RV0.TIP.25C**	19	16.3	14	16.7	34	46
32 x 1"	16	**RV0.TIP.32D**	22	19.1	17	19.9	42	76
40 x 1 1/4"	16	**RV0.TIP.40E**	26	21.4	21	25.6	51	120
50 x 1 1/2"	16	**RV0.TIP.50F**	31	21.4	26	35.6	61	200
63 x 2"	16	**RV0.TIP.63G**	38	25.7	33	45.3	75	355
75 x 2 1/2"	16	**RV0.TIP.75H**	44	30.2	39	52.8	89	540
90 x 3"	16	**RV0.TIP.90I**	51	33.3	47	64.7	106	850
110 x 4"	16	**RV0.TIP.91L**	61	39.3	57	78.7	129	1440

Socket plain/threaded

RV0.**MAP**

d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
16 x 3/8"	16	**RV0.MAP.16A**	14	11.4	6	23	23	10
20 x 1/2"	16	**RV0.MAP.20B**	16	15.0	6	28	28	17
25 x 3/4"	16	**RV0.MAP.25C**	19	16.3	6	34	34	24
32 x 1"	16	**RV0.MAP.32D**	22	19.1	6	42	42	42
40 x 1 1/4"	16	**RV0.MAP.40E**	26	21.4	4	51	51	60
50 x 1 1/2"	16	**RV0.MAP.50F**	31	21.4	7	61	58	87
63 x 2"	16	**RV0.MAP.63G**	38	25.7	7	75	72	134
75 x 2 1/2"	16	**RV0.MAP.75H**	44	30.2	8	89	89	215
90 x 3"	16	**RV0.MAP.90I**	51	33.3	9	106	103	345
110 x 4"	16	**RV0.MAP.91L**	61	39.3	10	129	130	550
*125 x 5"	16	**RV0.MAP.92N**	69	43.6	51	160	-	1060
*140 x 5"	16	**RV0.MAP.93N**	76	43.6	40	162	-	1120
*160 x 6"	16	**RV0.MAP.94O**	86	48.0	46	184	-	1400

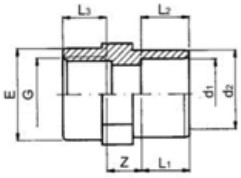


*without octagon

Adaptor Socket Rp 3 diameters

RV0.**MFP**

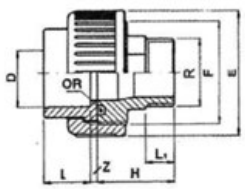
d_1 - d_2 x Rp	PN	Code	L_1	L_2	L_3	Z	E	Gr.
20-25 x 1/2"	16	**RV0.MFP.25B**	16	19	15.0	12	28	15
25-32 x 3/4"	16	**RV0.MFP.32C**	19	22	16.3	13	34	27
32-40 x 1"	16	**RV0.MFP.40D**	22	26	19.1	14	42	50
40-50 x 1 1/4"	16	**RV0.MFP.50E**	26	31	21.4	16	51	70
50-63 x 1 1/2"	16	**RV0.MFP.63F**	31	38	21.4	18	58	120
63-75 x 2"	16	**RV0.MFP.75G**	38	44	25.7	18	72	180
75-90 x 2 1/2"	16	**RV0.MFP.90H**	44	51	30.2	21	89	284
90-110 x 3"	16	**RV0.MFP.91I**	51	61	33.3	25	103	490



Union plain/threaded

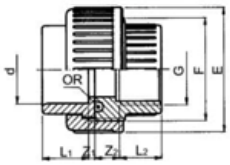
RV0.**BMP**

d x G	PN	Code	L	L_1	Z	F	E	H	Gr.
25 x 3/4"	16	**RV0.BMP.25C**	19	16.3	3	1 3/4"	52	44	78
32 x 1"	16	**RV0.BMP.32D**	22	19.1	3	1 1/2"	59	48	102
40 x 1 1/4"	16	**RV0.BMP.40E**	26	21.4	3	2"	72	54	163
50 x 1 1/2"	16	**RV0.BMP.50F**	31	22.0	3	2 1/4"	79	58	220
50 x 2"	16	**RV0.BMP.50G**	31	26.0	3	2 1/4"	79	58	260
63 x 2"	16	**RV0.BMP.63G**	38	26.0	3	2 3/4"	96	66	375



RV0.**BOP**

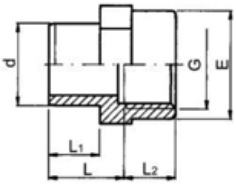
Union with O ring plain/threaded



d x G	PN	Code	L_1	L_2	Z_1	Z_2	F	E	Gr.
16 x 3/8"	16	**RV0.BOP.16A**	14	11.4	3	13.6	3/4"	34	31
20 x 1/2"	16	**RV0.BOP.20B**	16	15.0	3	11.0	1"	42	42
25 x 3/4"	16	**RV0.BOP.25C**	19	16.3	3	12.7	1 1/4"	52	70
32 x 1"	16	**RV0.BOP.32D**	22	19.1	3	12.9	1 1/2"	59	96
40 x 1 1/4"	16	**RV0.BOP.40E**	26	21.4	3	16.6	2"	72	155
50 x 1 1/2"	16	**RV0.BOP.50F**	31	21.4	3	23.6	2 1/4"	79	237
63 x 2"	16	**RV0.BOP.63G**	38	25.7	3	30.3	2 3/4"	96	405
75 x 2 1/2"	10	**RV0.BOP.75H**	44	30.2	3	31.8	3 1/2"	119	625
90 x 3"	10	**RV0.BOP.90I**	51	33.3	5	35.7	4"	134	865
110 x 4"	10	**RV0.BOP.91L**	61	39.3	5	39.7	5"	163	1340

RV0.**AFP**

Adaptor female thread

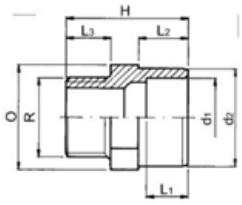


d x G	PN	Code	L_1	L_2	E	L	Gr.
16 x 3/8"	16	**RV0.AFP.16A**	14	11.4	23	22	16
20 x 1/2"	16	**RV0.AFP.20B**	16	15.0	28	24	19
20 x 3/4"	16	**RV0.AFP.20C**	16	16.3	34	24	24
25 x 1/2"	16	**RV0.AFP.25B**	19	15.0	28	27	20
25 x 3/4"	16	**RV0.AFP.25C**	19	16.3	34	27	26
25 x 1"	16	**RV0.AFP.25D**	19	19.1	42	27	39
32 x 3/4"	16	**RV0.AFP.32C**	22	16.3	34	30	32
32 x 1"	16	**RV0.AFP.32D**	22	19.1	42	30	42
40 x 1"	16	**RV0.AFP.40D**	26	19.1	42	36	50
40 x 1 1/4"	16	**RV0.AFP.40E**	26	21.4	51	36	65
50 x 1 1/4"	16	**RV0.AFP.50E**	31	21.4	51	41	70
50 x 1 1/2"	16	**RV0.AFP.50F**	31	21.4	58	41	73
50 x 2 "	16	**RV0.AFP.50G**	31	25.7	72	41	80
63 x 2 "	16	**RV0.AFP.63G**	38	25.7	72	48	135
75 x 2 "	16	**RV0.AFP.75G**	44	25.7	72	53	175
75 x 2 1/2"	16	**RV0.AFP.75H**	44	30.2	89	58	225
75 x 3"	16	**RV0.AFP.75I**	44	33.3	103	58	295
90 x 2 1/2"	16	**RV0.AFP.90H**	51	30.2	89	65	275
90 x 3"	16	**RV0.AFP.90I**	51	33.3	103	65	310
90 x 4"	16	**RV0.AFP.90L**	51	39.3	130	65	450
110 x 3"	16	**RV0.AFP.91I**	61	33.3	103	76	440
110 x 4"	16	**RV0.AFP.91L**	61	39.3	130	76	480

Adaptor male thread

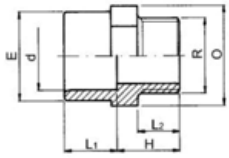
RV0.**AMP**

d_1 x	d_2	x R	PN	Code	L_1	L_2	L_3	H	O	Gr.
12 x	16	x 3/8"	16	**RV0.AMP.12A**	-	14	11.4	36	22	8
16 x	20	x 3/8"	16	**RV0.AMP.16A**	14	16	11.4	40	24	9
16 x	20	x 1/2"	16	**RV0.AMP.16B**	14	16	15.0	43	24	10
20 x	25	x 3/8"	16	**RV0.AMP.20A**	16	19	11.4	43	30	14
20 x	25	x 1/2"	16	**RV0.AMP.20B**	16	19	15.0	46	30	14
20 x	25	x 3/4"	16	**RV0.AMP.20C**	16	19	16.3	47	30	15
25 x	32	x 1/2"	16	**RV0.AMP.25B**	19	22	15.0	49	36	25
25 x	32	x 3/4"	16	**RV0.AMP.25C**	19	22	16.3	50	36	26
25 x	32	x 1"	16	**RV0.AMP.25D**	19	22	19.1	53	36	29
32 x	40	x 3/4"	16	**RV0.AMP.32C**	22	26	16.3	54	46	36
32 x	40	x 1"	16	**RV0.AMP.32D**	22	26	19.1	57	46	40
32 x	40	x 1 1/4"	16	**RV0.AMP.32E**	22	26	21.4	60	46	49
40 x	50	x 1"	16	**RV0.AMP.40D**	26	31	19.1	64	55	70
40 x	50	x 1 1/4"	16	**RV0.AMP.40E**	26	31	21.4	67	55	75
40 x	50	x 1 1/2"	16	**RV0.AMP.40F**	26	31	21.4	67	55	76
50 x	63	x 1 1/4"	16	**RV0.AMP.50E**	31	38	21.4	74	65	115
50 x	63	x 1 1/2"	16	**RV0.AMP.50F**	31	38	21.4	74	65	113
50 x	63	x 2"	16	**RV0.AMP.50G**	31	38	25.7	78	65	125
63 x	75	x 1 1/2"	16	**RV0.AMP.63F**	38	44	21.4	80	80	145
63 x	75	x 2"	16	**RV0.AMP.63G**	38	44	25.7	84	80	150
63 x	75	x 2 1/2"	16	**RV0.AMP.63H**	38	44	30.2	91	80	170
75 x	90	x 2"	16	**RV0.AMP.75G**	44	51	25.7	94	95	270
75 x	90	x 2 1/2"	16	**RV0.AMP.75H**	44	51	30.2	99	95	275
75 x	90	x 3"	16	**RV0.AMP.75I**	44	51	33.3	102	95	285
90 x	110	x 2 1/2"	16	**RV0.AMP.90H**	51	61	30.2	110	115	470
90 x	110	x 3"	16	**RV0.AMP.90I**	51	61	33.3	113	115	486
90 x	110	x 4"	16	**RV0.AMP.90L**	51	61	39.3	118	115	485
110 x	125	x 3"	10	**RV0.AMP.91I**	61	66	33.3	115	130	490
110 x	125	x 4"	10	**RV0.AMP.91L**	61	66	39.3	120	130	492
110 x	125	x 5"	10	**RV0.AMP.91N**	61	66	40.0	120	120	535
125 x	140	x 5"	10	**RV0.AMP.92N**	69	71	74.0	145	145.7	740



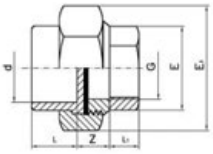
d_1 - Socket (F)
d_2 - Spigot (M)
R - Male Thread

RV0.**ADP** Threaded Adaptor R



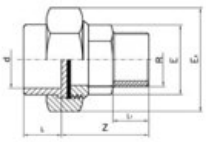
d x G	PN	Code	L_1	L_2	E	L	O	Gr.
75 x 2½"	16	**RV0.ADP.75H**	44	30.2	89	42	90	210
90 x 3"	16	**RV0.ADP.90I**	51	33.3	106	46	110	330
110 x 4"	16	**RV0.ADP.91L**	61	39.3	129	51	130	460

RV0.**BMF** **Union** plain female/brass threaded female



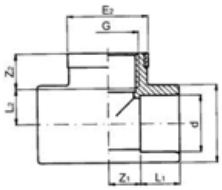
d x G	PN	Code	E	E_1	L	L_1	Z	Gr.
16 x ⅜"	16	**RV0.BMF.16A**	20	30	14	11	10	85
20 x ½"	16	**RV0.BMF.20B**	25	38	16	15	11	145
25 x ¾"	16	**RV0.BMF.25C**	32	47	19	15	14	215
32 x 1"	16	**RV0.BMF.32D**	38	55	22	16	12	280
40 x 1¼"	16	**RV0.BMF.40E**	48	65	26	19	13	380
50 x 1½"	16	**RV0.BMF.50F**	54	72	31	21	13	500
63 x 2"	16	**RV0.BMF.63G**	66	88	38	25	14	1200

RV0.**BMM** **Union** plain female/brass threaded male



d x R	PN	Code	L	L_1	Z	E	E_1	Gr.
16 x ⅜"	16	**RV0.BMM.16A**	14	11	35	20	30	110
20 x ½"	16	**RV0.BMM.20B**	16	12	41	25	38	165
25 x ¾"	16	**RV0.BMM.25C**	19	15	45	32	47	245
32 x 1"	16	**RV0.BMM.32D**	22	19	47	38	55	325
40 x 1¼"	16	**RV0.BMM.40E**	26	21	55	48	65	460
50 x 1½"	16	**RV0.BMM.50F**	31	21	57	54	72	610
63 x 2"	16	**RV0.BMM.63G**	38	25	68	66	88	975

RV0.**TTP** **Tee Rp** threaded central offtake

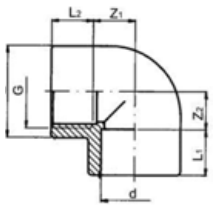


d x Rp	PN	Code	L_1	L_2	Z_1	Z_2	E_1	E_2	Gr.
16 x ⅜"	16	**RV0.TTP.16A**	14	11.4	9	11.6	23	25	18
20 x ½"	16	**RV0.TTP.20B**	16	15.0	11	12.0	28	30	30
25 x ¾"	16	**RV0.TTP.25C**	19	13.3	14	16.7	34	35	48
32 x 1"	16	**RV0.TTP.32D**	22	19.1	17	19.9	42	45	76
40 x 1¼"	16	**RV0.TTP.40E**	26	21.4	21	25.6	51	55	124
50 x 1½"	16	**RV0.TTP.50F**	31	21.4	26	35.6	61	65	200
63 x 2"	16	**RV0.TTP.63G**	38	25.7	33	45.3	75	75	365

90° Elbow Rp plain/threaded

RV0.**GGP**

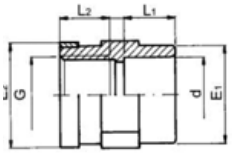
d	x Rp	PN	Code	L_1	L_2	Z_1	Z_2	E_1	E_2	Gr.
16	x 3/8"	16	**RV0.GGP.16A**	14	11.4	9	11.6	23	25	14
20	x 1/2"	16	**RV0.GGP20B**	16	15.0	11	12.0	28	30	21
25	x 3/4"	16	**RV0.GGP.25C**	19	16.3	14	16.7	34	35	38
32	x 1"	16	**RV0.GGP.32D**	22	19.1	17	19.9	42	45	62
40	x 1 1/4"	16	**RV0.GGP.40E**	26	21.4	21	25.6	51	55	95
50	x 1 1/2"	16	**RV0.GGP.50F**	31	21.4	26	35.6	61	65	160
63	x 2"	16	**RV0.GGP.63G**	38	25.7	33	45.3	75	75	290



Socket Rp plain/threaded

RV0.**MMP**

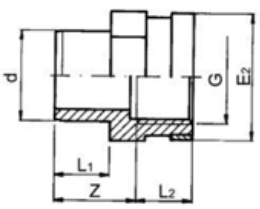
d	x Rp	PN	Code	L_1	L_2	Z_1	E_1	E_2	Gr.
16	x 3/8"	16	**RV0.MMP.16A**	14	11.4	6	23	25	10
20	x 1/2"	16	**RV0.MMP.20B**	16	15.0	4	28	30	20
25	x 3/4"	16	**RV0.MMP.25C**	19	16.3	6	34	35	26
32	x 1"	16	**RV0.MMP.32D**	22	19.1	6	42	45	44
40	x 1 1/4"	16	**RV0.MMP.40E**	26	21.4	8	51	55	70
50	x 1 1/2"	16	**RV0.MMP.50F**	31	21.4	13	61	65	92
63	x 2"	16	**RV0.MMP.63G**	38	25.7	15	75	75	140



Threaded Adaptor Rp plain spigot/threaded

RV0.**AAP**

d	x Rp	PN	Code	L_1	L_2	Z	E_2	Gr.
16	x 3/8"	16	**RV0.AAP.16A**	14	11.4	22	25	20
20	x 1/2"	16	**RV0.AAP.20B**	14	15.0	22	30	20
20	x 3/4"	16	**RV0.AAP.20C**	16	15.0	24	30	25
25	x 1"	16	**RV0.AAP.25B**	16	16.3	24	35	22
25	x 1 1/4"	16	**RV0.AAP.25C**	19	15.0	27	30	28
25	x 1 1/2"	16	**RV0.AAP.25D**	19	16.3	27	35	41
32	x 2"	16	**RV0.AAP.32C**	19	19.1	27	45	34
32	x 3/8"	16	**RV0.AAP.32D**	22	16.3	30	35	47
40	x 1/2"	16	**RV0.AAP.40D**	22	19.1	30	45	53
40	x 3/4"	16	**RV0.AAP.40E**	26	19.1	36	45	68
50	x 1"	16	**RV0.AAP.50E**	26	21.4	36	55	74
50	x 1 1/4"	16	**RV0.AAP.50F**	31	21.4	41	55	107
50	x 1 1/2"	16	**RV0.AAP.50G**	31	21.4	41	60	135
63	x 2"	16	**RV0.AAP.63G**	31	25.7	41	75	150
75	x 2"	16	**RV0.AAP.75G**	38	25.7	48	75	140



PVC-U VALVES

PVC-U Safeblock water ball valves

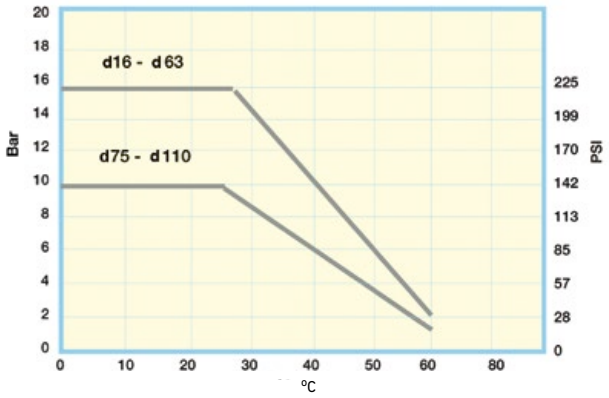
GENERAL CHARACTERISTICS

Single and Double Union Ball Valve - compact type characterized by optimal handling, full flow, axial pipe load block with micro-adjustment of ball seat. Moreover inclosed position the pipeline can be disconnected downstream from the valve.

Features outlined make TP valves particularly suited for the following applications: distribution, treatment and sewage water, swimming pools, water parks and aquaculture.

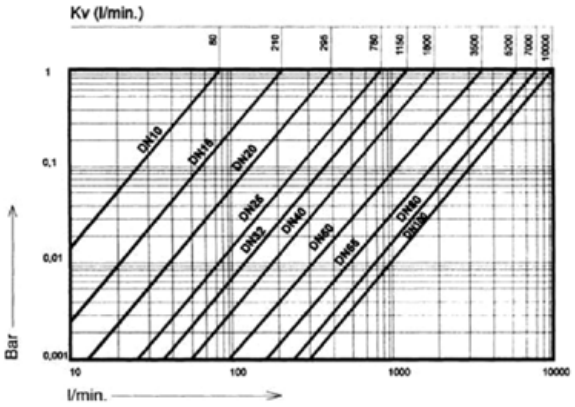
The technical information below should be used as a guide. Please consult our Technical department for specific queries.

MAX WORKING PRESSURE



Pressure temperature rating for water and harmless liquid.

CHARGE LOSS



With water at 20°C and the valve in open position

TORQUE

D	G	Nm
16-20	3/8"-1/2"	0,7
25	3/4"	2
32	1"	3,5
40	1" 1/4	7
50	1" 1/2	9
63	2"	13
75	2" 1/2	24
90	3"	30
110	4"	48

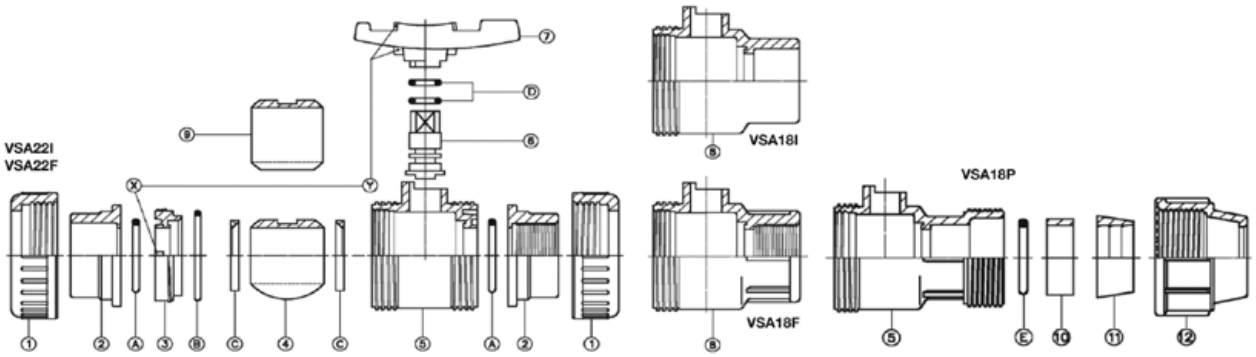
Max torque at max working pressure.

INSTALLATION AND USE

When glueing the end connector of the pipe, care must be taken to prevent the glue or solvent from coming in contact with the valve seats or ball.
Threaded ends should not be connected with coneshaped male threads and the use of hemp or similar materials should be carefully avoided. A special attention should be paid to the correct line-up of the installation. Tighten the union nut hand tight only. The use of wrench is not allowed. 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. An excessive tightening of the unions could finally break them.

Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closures/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.
It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and the adjoining procedure.

PVC-U Safeblock water ball valves



VALVE COMPONENTS

Pos	Components	n° VSA22	n° VSA18	n° VSA18P	Material
1	Union nut	2	1	1	PVC
2	End connector	2	1	1	PVC
3	Adjustable support	1	1	1	PVC
4	Ball DN↗40 a ↖100	1	-	1	PVC
5	Body	1	-	1	PVC
6	Stem	1	1	1	PVC
7	Handle	1	1	1	PVC
8	Single union body	-	1	-	PVC
9	Ball DN↗10 a↖32	1	-	-	PVC
9	Ball	-	1	-	PVC
10	Packing presser bush	-	-	1	PVC
11	Clip ring	-	-	1	POM
12	Quick joint nut	-	-	1	PVC
A	O-ring body	2	1	1	EPDM
B	O-ring support	1	1	1	EPDM
C	Ball sea	2	2	1	PTFE+PE
D	O-ring stem	2	2	2	EPDM
E	Quick joint O-ring	-	-	1	EPDM

PVC: Polyvinyl chloride
EPDM: Ethylene-propylene
PTFE+PE: Polytetra+fluoroethylene+polyethylene
POM: Polyacetale

DISASSEMBLING AND REASSEMBLING IN CASE OF MAINTENANCE DOUBLE UNION VSA.22. ...

Screwing the union nut (1) it is possible to take out radially from the system the whole body of the valve.
To reach the internal parts of the valve act as follows:

1- Set the valve on open position.
2- Withdraw the handle (7) from control stem (6).
3- Screw the support (3) of the body (5) using the two teeth (Y) of the handle (7) screwing operation should be done counter-clockwise.
4- After having screwed the support (3) and taken out the O-ring B which was inside (5), it is possible to reach all the internal parts of the valve to check the O-rings and in case substitute them.
   - to disassemble the ball (4)-(9) turn it using the control stem (6) setting it in closing position to withdraw the baionet coupling thruogh the control stem (6);
   - to disassemble the control stem (6) of the body (5) push it downwards as far as its complete outcome.

To assemble the valve act in the opposite way being careful to set the O-ring properly and greased it with silicon grease. Screw hreaded support 3 straight to the hand taking care not to block the ball (4)-(9).

VSK.**22L** Ball Valve

double union/plain socket EPDM seals inch

d	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
3/8"	16	**VSK.22L.160**	50	51	36	12	42	14	48	76	130
1/2"	16	**VSK.22L.200**	50	51	36	12	42	16	48	80	130
3/4"	16	**VSK.22L.250**	59	58	39	15	48	19	53	91	210
1"	16	**VSK.22L.320**	68	65	45	16	54	22	58	102	305
1 1/4"	16	**VSK.22L.400**	80	76	51	18	62	26	68	120	465
1 1/2"	16	**VSK.22L.500**	94	88	57	21	72	31	78	140	690
2"	16	**VSK.22L.630**	115	103	66	23	86	38	93	169	1160
2 1/2"	10	**VSK.22I.750**	145	124	78	24	110	44	118	206	2090
3"	10	**VSK.22L.900**	168	137	84	26	128	51	140	242	3200
4"	10	**VSK.22L.910**	210	162	105	28	150	61	160	282	5500

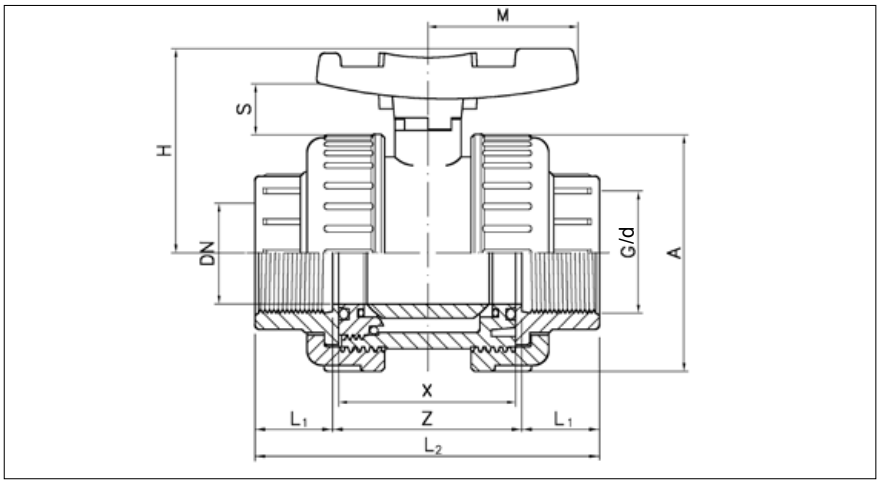
VSK.**22I** Ball Valve

double union/plain socket EPDM seals metric

d	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
16	16	**VSK.22I.160**	50	51	36	12	42	14	48	76	130
20	16	**VSK.22I.200**	50	51	36	12	42	16	48	80	130
25	16	**VSK.22I.250**	59	58	39	15	48	19	53	91	210
32	16	**VSK.22I.320**	68	65	45	16	54	22	58	102	305
40	16	**VSK.22I.400**	80	76	51	18	62	26	68	120	465
50	16	**VSK.22I.500**	94	88	57	21	72	31	78	140	690
63	16	**VSK.22I.630**	115	103	66	23	86	38	93	169	1160
75	10	**VSK.22I.750**	145	124	78	24	110	44	118	206	2090
90	10	**VSK.22I.900**	168	137	84	26	128	51	140	242	3200
110	10	**VSK.22I.910**	210	162	105	28	150	61	160	282	5500

VSK.**22F** Ball Valve double union BSP threaded socket EPDM seals

G	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
3/8"	16	**VSK.22F.160**	50	51	36	12	42	14	48	76	130
1/2"	16	**VSK.22F.200**	50	51	36	12	42	16	48	80	130
3/4"	16	**VSK.22F.250**	59	58	39	15	48	19	53	91	210
1"	16	**VSK.22F.320**	68	65	45	16	54	22	58	102	305
1 1/4"	16	**VSK.22F.400**	80	76	51	18	62	26	68	120	465
1 1/2"	16	**VSK.22F.500**	94	88	57	21	72	31	78	140	690
2"	16	**VSK.22F.630**	115	103	66	23	86	38	93	169	1160
2 1/2"	10	**VSK.22F.750**	145	124	78	24	110	44	118	206	2090
3"	10	**VSK.22F.900**	168	137	84	26	128	51	140	242	3200
4"	10	**VSK.22F.910**	210	162	105	28	150	61	160	282	5500



VSA.**22L** Ball Valve

double union/plain socket EPDM seals inch

d	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
3/8"	16	**VSA.22L.160**	50	53	40	19	42	14	48	76	130
1/2"	16	**VSA.22L.200**	50	53	40	19	42	16	48	80	130
3/4"	16	**VSA.22L.250**	59	60	45	19	48	19	53	91	205
1"	16	**VSA.22L.320**	68	67	51	21	54	22	58	102	300
1 1/4"	16	**VSA.22L.400**	80	79	59	25	62	26	68	120	435
1 1/2"	16	**VSA.22L.500**	94	90	70	27	72	31	78	140	670
2"	16	**VSA.22L.630**	115	107	84	29	86	38	93	169	1125
2 1/2"	10	**VSA.22I.750**	145	129	103	32	110	44	118	206	2090
3"	10	**VSA.22L.900**	168	143	120	36	128	51	140	242	3310
4"	10	**VSA.22L.910**	210	169	141	43	150	61	160	282	5925

VSA.**22I** Ball Valve

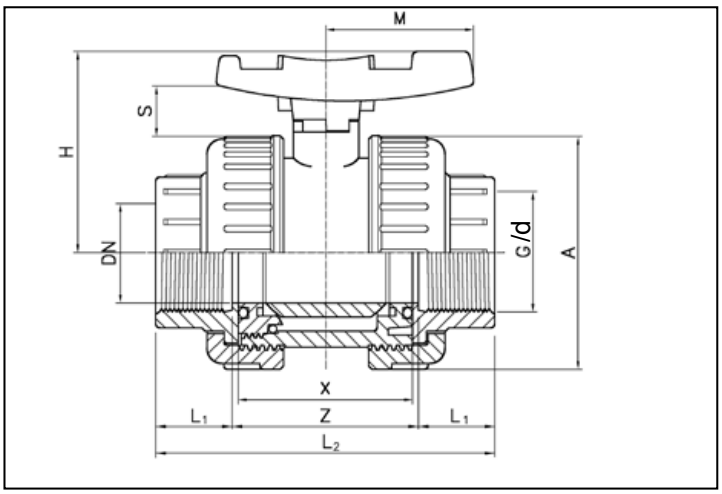
double union/plain socket EPDM seals metric

d	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
16	16	**VSA.22I.160**	50	53	40	19	42	14	48	76	130
20	16	**VSA.22I.200**	50	53	40	19	42	16	48	80	130
25	16	**VSA.22I.250**	59	60	45	19	48	19	53	91	205
32	16	**VSA.22I.320**	68	67	51	21	54	22	58	102	300
40	16	**VSA.22I.400**	80	79	59	25	62	26	68	120	435
50	16	**VSA.22I.500**	94	90	70	27	72	31	78	140	670
63	16	**VSA.22I.630**	115	107	84	29	86	38	93	169	1125
75	10	**VSA.22I.750**	145	129	103	32	110	44	118	206	2090
90	10	**VSA.22I.900**	168	143	120	36	128	51	140	242	3310
110	10	**VSA.22I.910**	210	169	141	43	150	61	160	282	5925

VSA.**22F** Ball Valve

double union BSP threaded socket EPDM seals

G	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
3/8"	16	**VSA.22F.160**	50	53	40	19	42	14	48	76	130
1/2"	16	**VSA.22F.200**	50	53	40	19	42	16	48	80	130
3/4"	16	**VSA.22F.250**	59	60	45	19	48	19	53	91	205
1"	16	**VSA.22F.320**	68	67	51	21	54	22	58	102	300
1 1/4"	16	**VSA.22F.400**	80	79	59	25	62	26	68	120	435
1 1/2"	16	**VSA.22F.500**	94	90	70	27	72	31	78	140	670
2"	16	**VSA.22F.630**	115	107	84	29	86	38	93	169	1125
2 1/2"	10	**VSA.22F.750**	145	129	103	32	110	44	118	206	2090
3"	10	**VSA.22F.900**	168	143	120	36	128	51	140	242	3310
4"	10	**VSA.22F.910**	210	169	141	43	150	61	160	282	5925



Ball Valve single union/plain socket EPDM seals inch VSA.**18L**

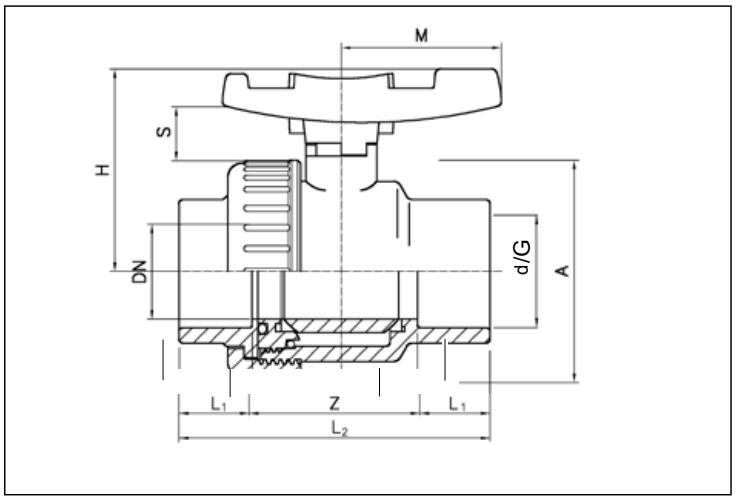
d	PN	Code	A	H	M	S	L_1	Z	L_2	Gr.
3/8"	16	**VSA.18L.160**	50	53	40	19	14	48	76	100
1/2"	16	**VSA.18L.200**	50	53	40	19	16	48	80	100
3/4"	16	**VSA.18L.250**	59	60	45	19	19	53	91	160
1"	16	**VSA.18L.320**	68	67	51	21	22	58	102	230
1 1/4"	16	**VSA.18L.400**	80	79	59	25	26	68	120	340
1 1/2"	16	**VSA.18L.500**	94	90	70	27	31	78	140	525
2"	16	**VSA.18L.630**	115	107	84	29	38	93	169	890
2 1/2"	10	**VSA.18I.750**	145	129	103	32	44	118	206	1620
3"	10	**VSA.18L.900**	168	143	120	36	51	140	242	2450
4"	10	**VSA.18L.910**	210	169	141	43	61	160	282	4100

Ball Valve single union/plain socket EPDM seals metric VSA.**18I**

d	PN	Code	A	H	M	S	L_1	Z	L_2	Gr.
16	16	**VSA.18I.160**	50	53	40	19	14	48	76	100
20	16	**VSA.18I.200**	50	53	40	19	16	48	80	100
25	16	**VSA.18I.250**	59	60	45	19	19	53	91	160
32	16	**VSA.18I.320**	68	67	51	21	22	58	102	230
40	16	**VSA.18I.400**	80	79	59	25	26	68	120	340
50	16	**VSA.18I.500**	94	90	70	27	31	78	140	525
63	16	**VSA.18I.630**	115	107	84	29	38	93	169	890
75	10	**VSA.18I.750**	145	129	103	32	44	118	206	1620
90	10	**VSA.18I.900**	168	143	120	36	51	140	242	2450
110	10	**VSA.18I.910**	210	169	141	43	61	160	282	4100

Ball Valve single union/BSP threaded socket EPDM seals VSA.**18F**

G	PN	Code	A	H	M	S	L_1	Z	L_2	Gr.
3/8"	16	**VSA.18F.160**	50	53	40	19	14	48	76	100
1/2"	16	**VSA.18F.200**	50	53	40	19	16	48	80	100
3/4"	16	**VSA.18F.250**	59	60	45	19	19	53	91	160
1"	16	**VSA.18F.320**	68	67	51	21	22	58	102	230
1 1/4"	16	**VSA.18F.400**	80	79	59	25	26	68	120	340
1 1/2"	16	**VSA.18F.500**	94	90	70	27	31	78	140	525
2"	16	**VSA.18F.630**	115	107	84	29	38	93	169	890
2 1/2"	10	**VSA.18F.750**	145	129	103	32	44	118	206	1620
3"	10	**VSA.18F.900**	168	143	120	36	51	140	242	2450
4"	10	**VSA.18F.910**	210	169	141	43	61	160	282	4100



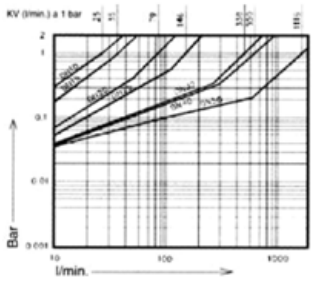
PVC-U One flow direction valves

General characteristics

Compact double type ball valve: all types are realized with the same dimensions of our ball valves VSA and can be disassembled from the network simply by unscrewing the two unions nuts.
VRO allows the passage of the liquid in one direction only.
VRO type orientated as a foot valve allows the passage of the liquid acting as a foot valve. As an air release valve acts releasing the air until the liquid reaches the floating wedge closing the valve and maintaining therefore the liquid under pressure.
Materials chemical resistances according to ISO/TR 10358.
Please consult the supplier about applications and details.

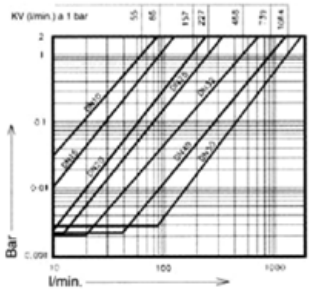
The technical information below should be used as a guide. Please consult our Technical department for specific queries.

VRO CHARGE LOSS

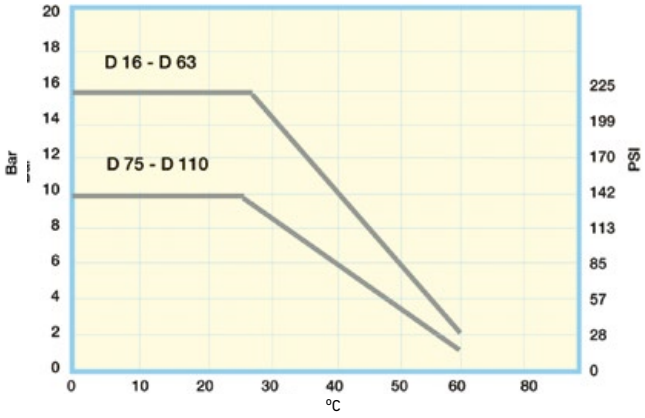


With water at 20°C (valve with spring)

VRV-VRF CHARGE LOSS



With water at 20°C (valve without spring)



Pressure temperature rating for water an harmless liquid.

PRESSURE

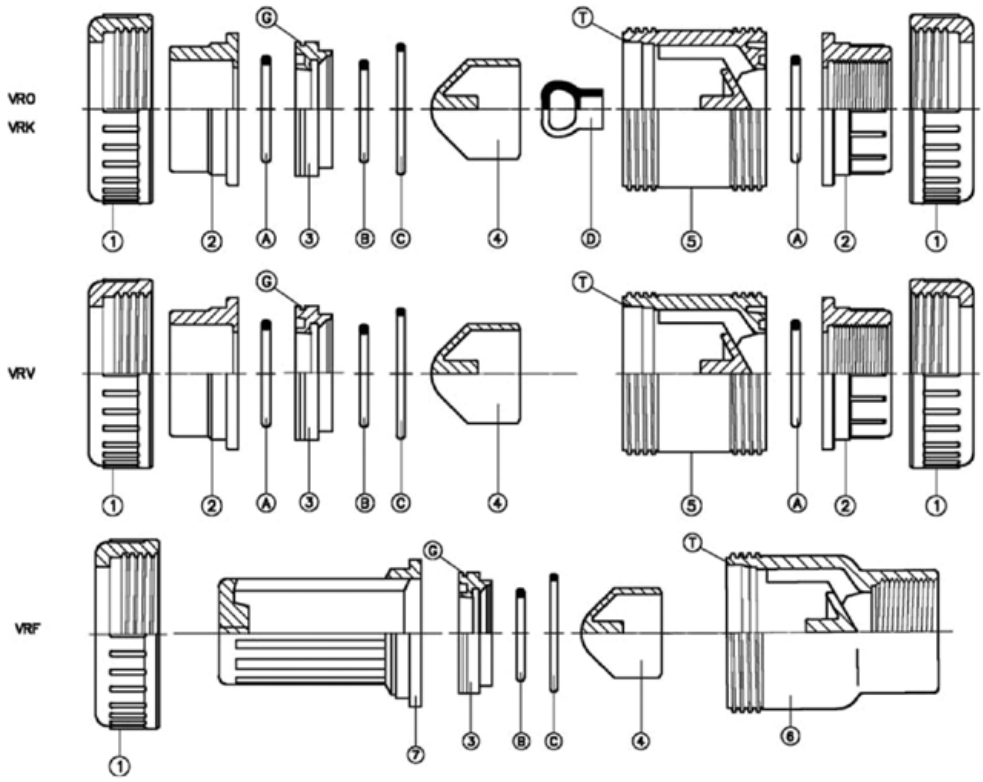
D	G	VRO mm H_2O	VRV/VRF mm H_2O	Weight g
16	3/8"	150	23	4
20	1/2"	150	23	4
25	3/4"	70	25	8
32	1"	32	22	11
40	11/4"	40	21	17
50	11/2"	38	24	30
63	2"	44	29	56

Min. opening pressure of spring and own weight (water column).

Installation and use

Be careful during the glueing of the end connector of the pipes; the glue or solvent must absolutely not run into the wedgw or O' ring of the valve. Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided.
A special attention should be paid to the correct line-up of the installation and to the pipe lenght. Tighten the union nut handtight only.
The use of wrench is not allowed. 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. An excessive tightening of the unions could finally break them.
Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thead joining procedure.

PVC-U One flow direction valves



PRESSURE

Pos	Components	n° VRO	n° VRV	n° VRF	Material
1	Union nut	2	2	1	PVC
2	End connector	2	2	-	PVC
3	Support	1	1	1	PVC
4	Wedge	1	1	1	PVC
5	Body	1	1	-	PVC
6	Threaded body	-	-	1	PVC
7	Screen	-	-	1	PP
A	O-ring body	2	2	1	EPDM
B	O-ring wedge	1	2	1	EPDM
C	O-ring support	1	1	1	EPDM
D	Spring wedge	1	-	-	EPDM

PVC: Polyvinyl chloride
EPDM: Ethylene-propylene (DUTRAL®)

Disassembling and reassembling in case of maintenance

Unscrewing the union nut (1) it is possible to take out radially from the system the whole central group of the valve.
To reach the internal parts of the valve act as follows:

1 Take out the support (3) from the body (5) levering with a screwdriver between the two gates T of the body and the groove G of the support.

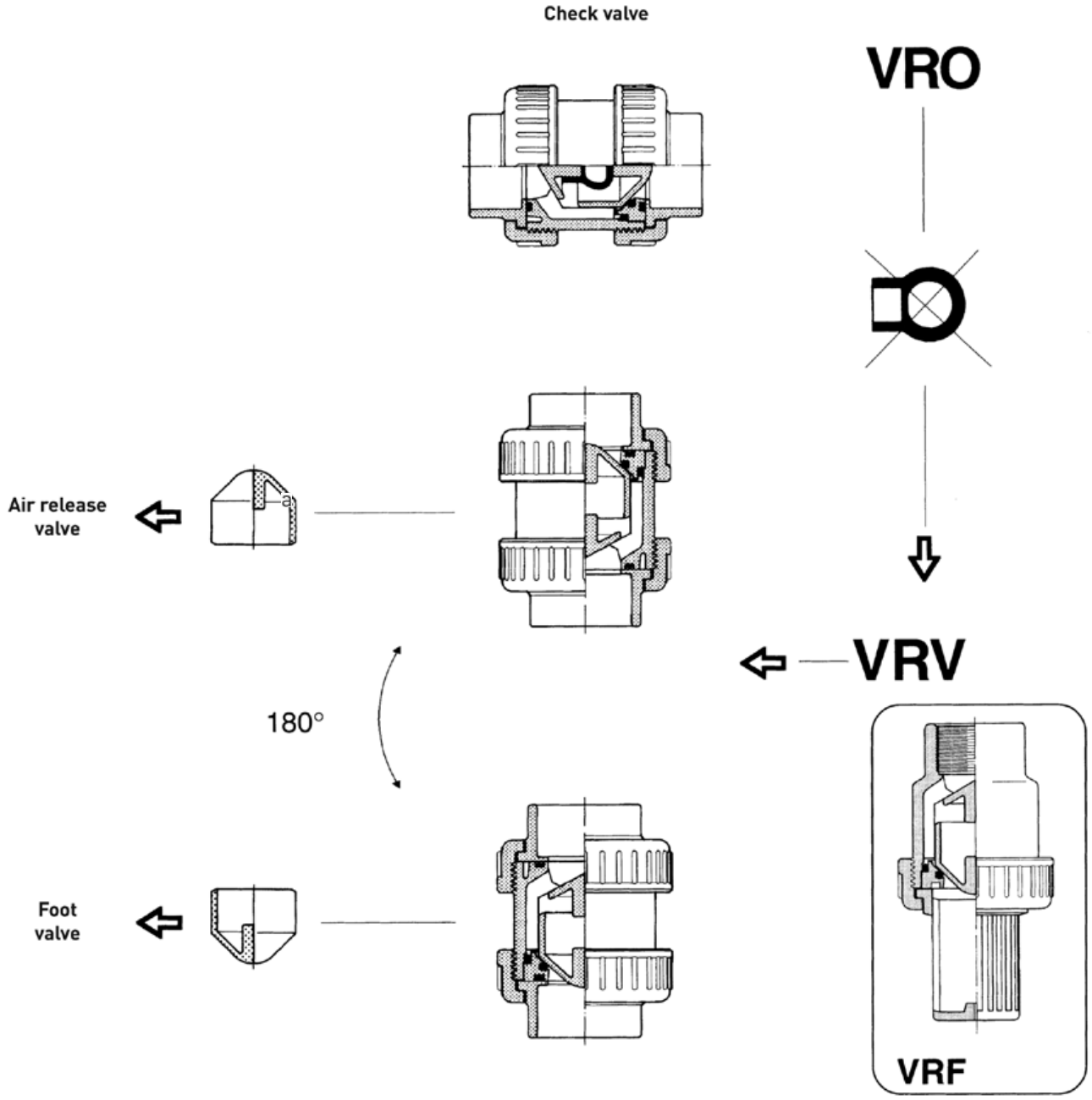
2 After disassembling the support (3) and taking out the O-ring C that has stayed inside the body (5), it is possible to reach all the parts of the valve and check the O-rings and in case substitute them.

To assemble the valve act in the opposite way being careful to set the O-ring properly and greased it with silicon grease.

PVC-U One flow direction valves

New

The VRO type has an internal rubber spring. Taking out the internal spring and orientating the valve in the right way, it is become either a foot valve or an air release.
The valve VR range has the same dimensions as the ball valves VSA, allowing this way a unique way of fixing to the wall thanks to the same type of clamping (cf. STF).

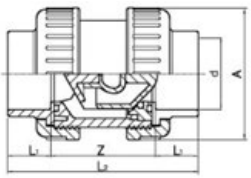


Check Valve

VRO.**21L**

double union/plain socket EPDM seals inch

d	PN	Code	A	X	L_1	Z	L_2	Gr.
3/8"	16	**VRO.21L.160**	50	42	14	48	76	110
1/2"	16	**VRO.21L.200**	50	42	16	48	80	110
3/4"	16	**VRO.21L.250**	59	48	19	53	91	175
1"	16	**VRO.21L.320**	68	54	22	58	102	245
1 1/4"	16	**VRO.21L.400**	80	62	26	68	120	375
1 1/2"	16	**VRO.21L.500**	94	72	31	78	140	580
2"	16	**VRO.21L.630**	115	86	38	93	169	1000
2 1/2"	10	**VRO.21I.750**	145	110	44	118	206	2900
3"	10	**VRO.21L.900**	168	128	51	140	242	3000

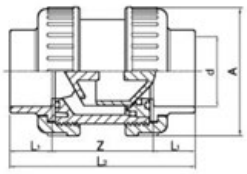


Check Valve

VRO.**21I**

double union/plain socket EPDM seals metric

d	PN	Code	A	X	L_1	Z	L_2	Gr.
16	16	**VRO.21I.160**	50	42	14	48	76	110
20	16	**VRO.21I.200**	50	42	16	48	80	110
25	16	**VRO.21I.250**	59	48	19	53	91	175
32	16	**VRO.21I.320**	68	54	22	58	102	245
40	16	**VRO.21I.400**	80	62	26	68	120	375
50	16	**VRO.21I.500**	94	72	31	78	140	580
63	16	**VRO.21I.630**	115	86	38	93	169	1000
75	10	**VRO.21I.750**	145	110	44	118	206	2900
90	10	**VRO.21I.900**	168	128	51	140	242	3000

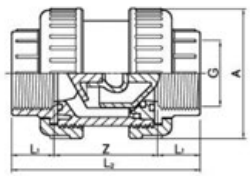


Check Valve

VRO.**21F**

double union/BSP threaded EPDM seals

G	PN	Code	A	X	L_1	Z	L_2	Gr.
3/8"	16	**VRO.21F.160**	50	42	14	48	76	110
1/2"	16	**VRO.21F.200**	50	42	16	48	80	110
3/4"	16	**VRO.21F.250**	59	48	19	53	91	175
1"	16	**VRO.21F.320**	68	54	22	58	102	245
1 1/4"	16	**VRO.21F.400**	80	62	26	68	120	375
1 1/2"	16	**VRO.21F.500**	94	72	31	78	140	580
2"	16	**VRO.21F.630**	115	86	38	93	169	1000
2 1/2"	10	**VRO.21F.750**	145	110	44	118	206	2900
3"	10	**VRO.21F.900**	168	128	51	140	242	3000

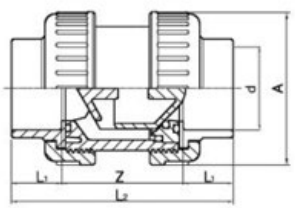


Air Release/Foot Valve ISO

VRV.**21I**

with solvent cement sockets

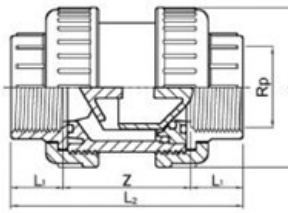
d	PN	Code	A	L_1	Z	L_2	Gr.
16	16	**VRV.21I.160**	50	14	48	76	110
20	16	**VRV.21I.200**	50	16	48	80	110
25	16	**VRV.21I.250**	59	19	53	91	175
32	16	**VRV.21I.320**	68	22	58	102	245
40	16	**VRV.21I.400**	80	26	68	120	375
50	16	**VRV.21I.500**	94	31	78	140	575
63	16	**VRV.21I.630**	115	38	93	169	990
75	10	**VRV.21I.750**	145	44	118	206	2845
90	10	**VRV.21I.900**	168	51	140	242	2900



VRV.21F

Air Release Valve

BSP threaded sockets Rp



G	PN	Code	A	L_1	Z	L_2	Gr.
3/8"	16	**VRV.21F.160**	50	14	48	76	110
1/2"	16	**VRV.21F.200**	50	16	48	80	110
3/4"	16	**VRV.21F.250**	59	19	53	91	175
1"	16	**VRV.21F.320**	68	22	58	102	240
1 1/4"	16	**VRV.21F.400**	80	24	68	116	370
1 1/2"	16	**VRV.21F.500**	94	24	78	126	555
2"	16	**VRV.21F.630**	115	28	93	149	985
2 1/2"	10	**VRV.21F.750**	168	33	118	184	2870
3"	10	**VRV.21F.900**	168	36	140	212	2870

VV.CLP

PVC-U Wafer Check Valve

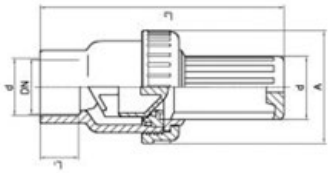
without spring

d	PN	Code	Gr.
90	10	**VV.CLP.900**	468
110	10	**VV.CLP.910**	660
125	10	**VV.CLP.920**	850
160	10	**VV.CLP.940**	1250
200	10	**VV.CLP.960**	2230

VRF.11I

Foot Valve

plain socket EPDM seals



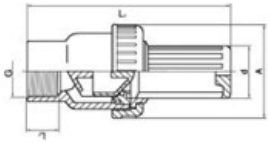
d	PN	Code	A	L_1	L_2	Gr.
20	16	**VRF.11I.200**	50	16	110	75
25	16	**VRF.11I.250**	59	19	130	120
32	16	**VRF.11I.320**	68	22	145	175
40	16	**VRF.11I.400**	80	26	162	260
50	16	**VRF.11I.500**	94	31	187	400
63	16	**VRF.11I.630**	115	38	215	700
90	16	**VRF.11I.900**	168	51	275	2000

PP Screen

VRF.11F

Foot Valve

BSP threaded EPDM seals



G	PN	Code	A	L_1	L_2	d	Gr.
1/2"	16	**VRF.11F.200**	50	16	110	23	75
3/4"	16	**VRF.11F.250**	59	19	130	30	120
1"	16	**VRF.11F.320**	68	22	145	38	175
1 1/4"	16	**VRF.11F.400**	80	24	160	48	260
1 1/2"	16	**VRF.11F.500**	94	24	180	57	400
2"	16	**VRF.11F.630**	115	28	205	71	700
3"	16	**VRF.11F.900**	168	36	260	110	2000

PP Screen

PVC-U Butterfly Valves

GENERAL DESCRIPTION
VFA Butterfly Valves are designed to guarantee reliability, safety, top level performance and simple operation. The rational, compact shape and the construction concept simplify assembly and routine maintenance operations. VFA valves are ideally suited for water and neutral fluids.

Technical features

Available versions
- Lever-operated
- Pre-assembled with flanges
- With pneumatic actuators
- With electric actuators

Dimensions
- All versions from DN65 to DN200/D75-225

Body material
- PVC-U

Gasket material
- EPDM disk gasket – O rings
- SANTOPRENE™ flange gaskets

Stem material
- Zinc plated steel

APPLICATIONS
VFA Butterfly Valves have been designed to be used mainly in contact with water and neutral fluids in different applications such as public and private swimming pools, water parks, thermal pools, spa's and irrigation.

Pressure
- From DN65 to DN150: PN 10
  DN200: PN 6

Temperature
- 0 °C + 60 °C

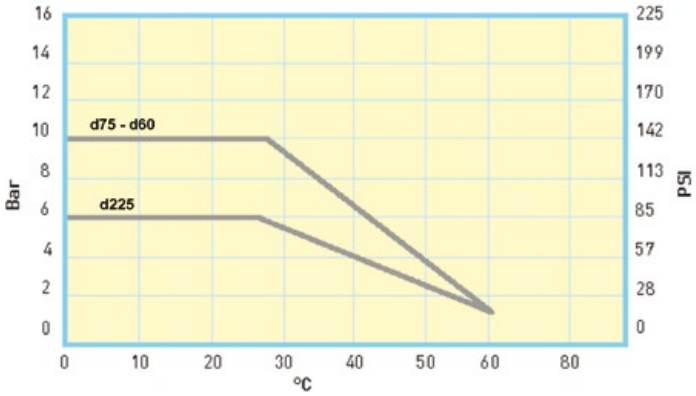
Flange Connecting Standards
- ISO – DIN - BS - ANSI

Conformity
- Ministerial Decree 174

Actuators
- 24 V electric actuators
- Single/double-acting pneumatic actuators

Valve standards
- Conform to ISO 16136 - Pr EN 1452 - ISO 9393

Operating Pressure versus temperature



Functional Features

VALVE SIZE DN Inch	OPERATING TORQUE New Valve at operating PN	TIGHTENING TORQUE (with PVC-U /Metal Flanges)
65 – 2"1/2	11 Nm *	15 Nm
80 – 3"	14 Nm *	20 Nm
100 – 4"	16 Nm *	23 Nm
125 – 5"	26 Nm *	30 Nm
150 – 6"	35 Nm *	30 Nm
200 – 8"	50 Nm *	50 Nm

* Reference value: These values can change, depending on the specific application and also over time

PVC-U Butterfly Valves - Assembly instructions

1

1. Insert the bolts, washers and nuts without tightening in the lower part between the flanges. Take the valve out of its package, carefully checking its integrity and that it is perfectly clean.

2

2. Insert the valve in the "CLOSED" position between the flanges until the slots in the lower part of the body rest directly on the bolts, taking care to maintain parallelism with the flanges.

3

3. Insert the remaining bolts, washers and nuts in the upper part between the flanges. Tighten the nuts/bolts in across pattern until the tightening torque indicated is reached. (TAB. A) We recommend that you use a torque wrench.

4

5

4-5. Check that:
- the flanges adhere perfectly to the valve body
- correct parallelism is maintained between the valve and the flanges
- an axial position is maintained relative to the pipe.

Operate the valve with no load, checking that movements are smooth and there are no abnormal stresses.

6

6. Use the safety stop if necessary

BUTTERFLY VALVE DISASSEMBLY INSTRUCTIONS

Before proceeding, make sure that:
- All valves upstream and downstream of the one to be worked on are closed.
- The system has been depressurised.
- The pipe has been completely emptied.

Carry out the assembly operations described in reverse order.

We recommend to clean the internal components of the valve as well as to open and close the valve itself regularly.
By complete disassembling of the valve, please pay attention to put the gaskets in the correct positioning

TAB. A

VALVE DN	TIGHTENING TORQUE*
65 – 2"1/2	15 Nm
80 – 3"	20 Nm
100 – 4"	23 Nm
125 – 5"	30 Nm
150 – 6"	30 Nm
200 – 8"	50 Nm

*WITH PVCU/METAL FLANGES

Butterfly Valve handle operated EPDM seals

VFA.**02D**

d	PN	Code	DN	d Inch	Gr.
75	10	**VFA.02D.750**	65	2½	1.300
90	10	**VFA.02D.900**	80	3	1.300
110	10	**VFA.02D.910**	100	4	1.500
125/140	10	**VFA.02D.920**	125	5	2.300
160	10	**VFA.02D.940**	150	6	3.350
200/225	6	**VFA.02D.960**	200	8	5.400

Butterfly Valve ready-fitted lever and flanges kit

VFA.**02D**

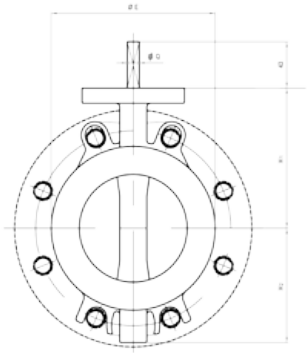
d	PN	Code	DN	d Inch	Gr.
75	10	**VFA.02D.75K**	65	2½	4.650
90	10	**VFA.02D.90K**	80	3	4.879
110	10	**VFA.02D.91K**	100	4	5.858
125	10	**VFA.02D.92K**	125	5	7.100
140	10	**VFA.02D.93K**	125	5	10.850
160	10	**VFA.02D.94K**	150	6	11.930
200	6	**VFA.02D.96K**	200	8	13.950
225	6	**VFA.02D.97K**	200	8	13.950

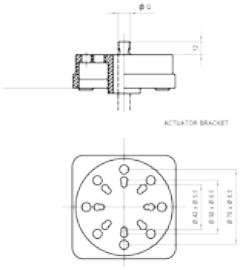
EPDM Gasket

Butterfly Valve Kit stub flange, PVC backing rings and galvanised steel bolts kit

XVF.**FLI**

d	PN	Code	DN	d Inch	Gr.
75	10	**XVF.FLI.Z75**	65	2½	3.350
90	10	**XVF.FLI.Z90**	80	3	3.585
110	10	**XVF.FLI.Z91**	100	4	3.585
125	10	**XVF.FLI.Z92**	125	5	4.800
140	10	**XVF.FLI.Z93**	125	5	4.800
160	10	**XVF.FLI.Z94**	150	6	7.500
200	6	**XVF.FLI.Z96**	200	8	8.550
225	6	**XVF.FLI.Z97**	200	8	8.550





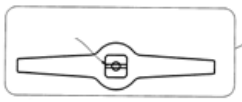
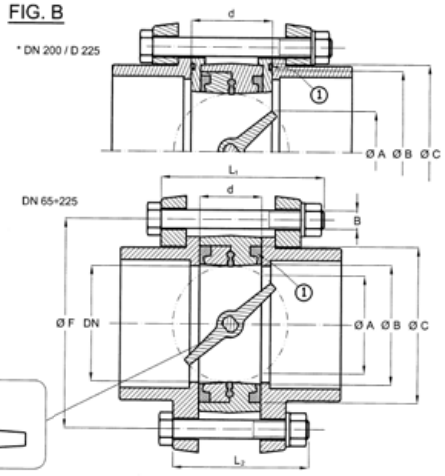


FIG. B



	ISO UNI-DIN PN6	ISO UNI-DIN PN10	ISO UNI-DIN PN16	BS10 Tab.D/E	BS4504 Tab.16/3 Tab.10/3	ANSI 150 lbs	JIS	DN	G	D	øA	øB	øC	d	L_1	L_2	B	øE	Q	H_1	H_2	C_m [Nm]	C_s [Nm]
øF	130	145	145	127	145	140	140	65	2"½	75	49	73	98	46	140	120	16	112	11	115	76	8	21
	150	160	160	145	160	152	150	80	3"	90	64	83	112	48	140	120	16	128	11	120	86	12	14
	170	180	180	178	181	190	175	100	4"	110	85	103	134	55	140	120	16	152	11	130	106	18	20
	200	210	210	-	210	216	210	125	5"	125/140	108	129	158	63	170	140	16	177	14	150	116	25	22
	225	240	240	235	241	241	240	150	6"	160	134	154	190	69	180	150	20	212	14	170	132	32	25
	280	295	295	292	295	298	290	200	8"	200	180	198	232	72	200	170	20	262	22	209	163	60	25
										225	164	229	248	100	230	190		274					

ABS BS Inch

General properties of ABS Fittings - BS range

APPLICATIONS
TP (formerly known as Tecno Plastic) is a dedicated brand of ABS pipe, fittings and valves for water piping systems. Each TP product is designed to meet the demands of the customers in specific application areas such as distribution, treatment and sewage water, public and private swimming pools, thermal pools and spas, aquariums and irrigation.

MATERIAL:
ABS is a homogenous material with a high impact resistance and elasticity given by the butadiene component. A major advantage of the material is the working temperature range -50 to +60°C at pressures up to 15 bar.

NB: ABS is not particularly resistance to UV light. When exposed to the sun, ABS material can show some colour fading and have less impact strength.

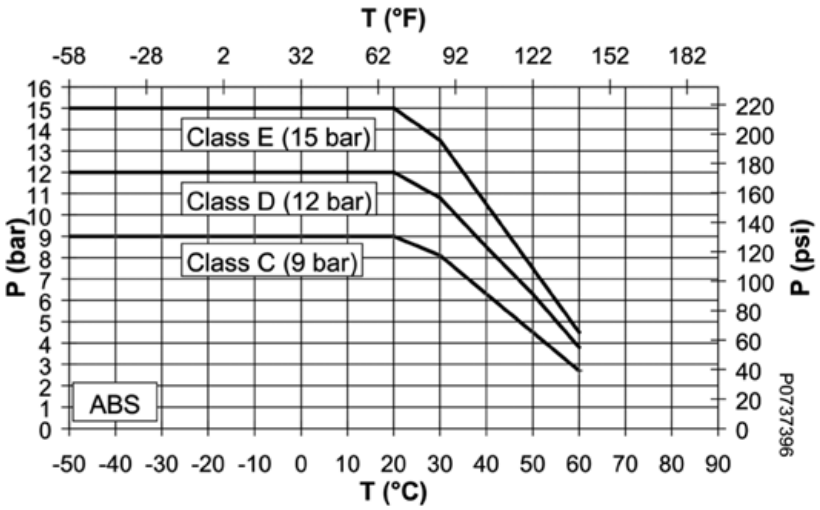
STANDARDS
The raw material is in compliance with international standards, details available upon request. TP pipe and fittings are in compliance with BS5391-2.

QUALITY APPROVALS
Our ABS compound is suitable for conveying potable water in accordance with Water Regulations Advisory Scheme, WRAS.

GASKETS
Standard gaskets for unions and flanges are in EPDM (ethylene-polypropylene rubber).

MECHANICAL RESISTANCES
The following data are referred to water or not particularly aggressive fluids, at a working temperature of 20°C.

Inch-based systems



P Permissible pressure in bar, psi

T Temperature in °C, °F

ABS Pipe Class C

RB0.**CLC**

d	PN	Code	L (m)
1”	9	**RB0.CLC.320**	6
1¼”	9	**RB0.CLC.400**	6
1½”	9	**RB0.CLC.500**	6
2”	9	**RB0.CLC.630**	6
2½”	9	**RB0.CLC.750**	6
3”	9	**RB0.CLC.900**	6
4”	9	**RB0.CLC.910**	6
5”	9	**RB0.CLC.930**	6
6”	9	**RB0.CLC.940**	6
8”	9	**RB0CLC.970**	6

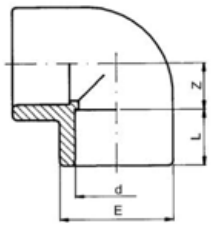
ABS Pipe Class E

RB0.**CLE**

d	PN	Code	L (m)
½”	15	**RB0.CLE.200**	6
¾”	15	**RB0.CLE.250**	6
1”	15	**RB0.CLE.320**	6
1¼”	15	**RB0.CLE.400**	6
1½”	15	**RB0.CLE.500**	6
2”	15	**RB0.CLE.630**	6
3”	15	**RB0.CLE.900**	6
4”	15	**RB0.CLE.910**	6

RB0.**GOL**

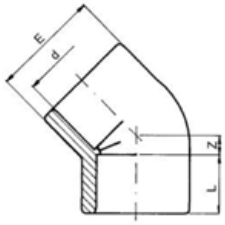
90° Elbow



d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.GOL.200**	17	11	27	13
3/4"	15	**RB0.GOL.250**	20	14	33	20
1"	15	**RB0.GOL.320**	23	17	41	35
1 1/4"	15	**RB0.GOL.400**	27	22	51	56
1 1/2"	15	**RB0.GOL.500**	32	26	61	117
2"	15	**RB0.GOL.630**	37	34	75	222
2 1/2"	15	**RB0.GOI.750**	44	39	90	301
3"	15	**RB0.GOL.900**	52	45	107	509
4"	15	**RB0.GOL.910**	63	58	133	948
5"	15	**RB0.GOI.930**	76	72	163	2030
6"	15	**RB0.GOL.940**	93	85	198	2961
8"	9	**RB0.GOL.970**	116	116	258	6567

RB0.**GYL**

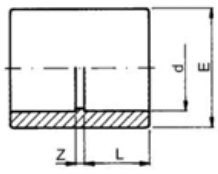
45° Elbow



d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.GYL.200**	16	5	27	12
3/4"	15	**RB0.GYL.250**	19	6	33	18
1"	15	**RB0.GYL.320**	22	8	41	31
1 1/4"	15	**RB0.GYL.400**	27	10	52	47
1 1/2"	15	**RB0.GYL.500**	32	12	61	97
2"	15	**RB0.GYL.630**	39	15	75	176
2 1/2"	15	**RB0.GYI.750**	44	18	90	231
3"	15	**RB0.GYL.900**	52	21	107	390
4"	15	**RB0.GYL.910**	63	25	133	649
5"	15	**RB0.GYI.930**	76	31	163	1525
6"	15	**RB0.GYL.940**	90	36	198	2965

RB0.**MAL**

Socket

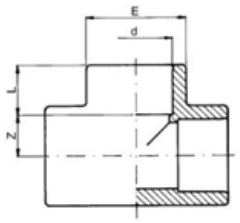


d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.MAL.200**	16	3	27	11
3/4"	15	**RB0.MAL.250**	19	3	33	16
1"	15	**RB0.MAL.320**	22	3	41	25
1 1/4"	15	**RB0.MAL.400**	27	3	52	39
1 1/2"	15	**RB0.MAL.500**	32	3	61	74
2"	15	**RB0.MAL.630**	37	3	75	132
2 1/2"	15	**RB0.MAL.750**	44	4	90	164
3"	15	**RB0.MAL.900**	52	5	107	283
4"	15	**RB0.MAL.910**	67	6	133	526
5"	15	**RB0.MAI.930**	76	8	164	833
6"	15	**RB0.MAL.940**	90	8	198	1294
8"	9	**RB0.MAL.970**	120	10	253	3391

90° Tee

RB0.**TIL**

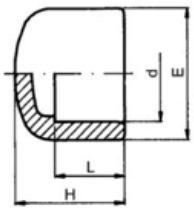
d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.TIL.200**	16	11	27	17
3/4"	15	**RB0.TIL.250**	19	14	33	27
1"	15	**RB0.TIL.320**	22	17	41	50
1 1/4"	15	**RB0.TIL.400**	27	21	52	79
1 1/2"	15	**RB0.TIL.500**	32	26	61	116
2"	15	**RB0.TIL.630**	37	33	75	284
2 1/2"	15	**RB0.TII.750**	44	39	90	394
3"	15	**RB0.TIL.900**	52	45	107	657
4"	15	**RB0.TIL.910**	63	62	133	1131
5"	15	**RB0.TII.930**	76	72	163	2730
6"	15	**RB0.TIL.940**	93	86	198	3755
8"	9	**RB0.TIL.970**	116	116	258	5453



Cap

RB0.**CAL**

d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.CAL.200**	16	37	27	9
3/4"	15	**RB0.CAL.250**	19	31	33	12
1"	15	**RB0.CAL.320**	22	35	41	21
1 1/4"	15	**RB0.CAL.400**	27	42	52	30
1 1/2"	15	**RB0.CAL.500**	32	47	61	59
2"	15	**RB0.CAL.630**	39	48	75	104
2 1/2"	15	**RB0.CAI.750**	44	59	90	137
3"	15	**RB0.CAL.900**	52	81	107	235
4"	15	**RB0.CAL.910**	63	99	133	397

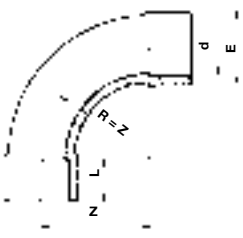


90° Bend short radius

RB0.**CUL**

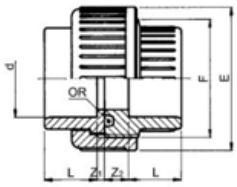
Discontinued - available while stocks last

d	PN	Code	L	Z	E	Gr.
1/2"	15	**RB0.CUL.200**	16	40	30	32
3/4"	15	**RB0.CUL.250**	19	50	36	55
1"	15	**RB0.CUL.320**	22	64	44	90
1 1/4"	15	**RB0.CUL.400**	27	80	54	156
2 1/2"	15	**RB0.CUI.750**	44	150	94	777
3"	15	**RB0.CUL.900**	51	180	113	1361



RB0.**BOL**

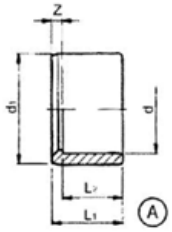
Union with O ring

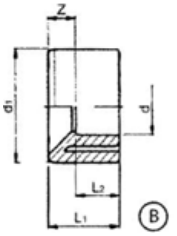


D	PN	Code	L	Z_1	Z_2	F	E	Gr.
1/2"	15	**RB0.BOL.200**	16	3	10	1"	42	31
3/4"	15	**RB0.BOL.250**	19	3	10	1 1/4"	52	49
1"	15	**RB0.BOL.320**	22	3	10	1 1/2"	59	67
1 1/4"	15	**RB0.BOL.400**	27	3	12	2"	73	115
1 1/2"	15	**RB0.BOL.500**	32	3	14	2 1/4"	82	164
2"	15	**RB0.BOL.630**	39	3	18	2 3/4"	100	288
2 1/2"	9	**RB0.BOI.750**	44	3	18	3 1/2"	119	434
3"	9	**RB0.BOL.900**	52	5	18	4"	134	599
4"	9	**RB0.BOL.910**	63	5	18	5"	163	876

RB0.**RCL**

Reducing Bush

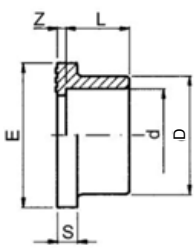




d x d_1	PN	Code	L_1	L_2	Z	Fig	Gr.
3/4" x 1/2"	15	**RB0.RCL.25B**	19	16	3	A	6
1" x 1/2"	15	**RB0.RCL.32B**	22	16	6	B	8
1" x 3/4"	15	**RB0.RCL.32C**	22	19	3	A	10
1 1/4" x 1"	15	**RB0.RCL.40D**	27	23	4	A	20
1 1/2" x 1	15	**RB0.RCL.50D**	32	23	9	B	42
1 1/2" x 1 1/4"	15	**RB0.RCL.50E**	32	27	5	A	22
1 1/2" x 3/4"	15	**RB0.RCL.50C**	39	23	16	B	69
2" x 1	15	**RB0.RCL.63D**	39	32	7	A	54
2" x 1 1/4"	15	**RB0.RCL.63E**	44	39	5	A	95
2" x 1 1/2"	15	**RB0.RCL.63F**	52	44	8	A	96
2 1/2" x 1 1/2"	15	**RB0.RCL.75F**	63	39	24	B	336
2 1/2" x 2"	15	**RB0.RCL.75G**	63	52	11	A	258
3" x 1 1/2"	15	**RB0.RCL.90F**	50.5	30.0	20.5	B	211
3" x 2"	15	**RB0.RCL.90G**	50.5	36.0	14.5	B	182
3" x 2 1/2"	15	**RB0.RCL.90H**	50.5	44.0	6.5	A	127
4" x 2"	15	**RB0.RCL.91G**	63.0	36.0	27.0	B	424
4" x 3"	15	**RB0.RCL.91I**	63.0	50.5	12.5	A	327
5" x 4"	15	**RB0.RCL.93L**	77.0	65.0	12.0	A	563
6" x 4"	15	**RB0.RCL.94L**	90.0	63.0	27.0	B	810
8" x 6"	9	**RB0.RCL.97O**	115.5	90.0	25.5	B	1403

RB0.**QRL**

Stub Flange serrated face



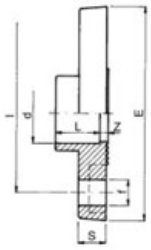
d	PN	Code	L	Z	D	S	E	Gr.
1/2"	15	**RB0.QRL.200**	16.5	2.5	27	6	34	10
3/4"	15	**RB0.QRL.250**	19.5	2.5	33	7	41	16
1"	15	**RB0.QRL.320**	22	3	41	7	50	18
1 1/4"	15	**RB0.QRL.400**	27	2.5	50	8	61	40
1 1/2"	15	**RB0.QRL.500**	32	3	61	8	73	50
2"	15	**RB0.QRL.630**	39	3	76	9	90	91
2 1/2"	15	**RB0.QRI.750**	44	3	90	10	106	118
3"	15	**RB0.QRL.900**	52	5	108	11	125	209
4"	15	**RB0.QRL.910**	63	5	131	12	150	330
5"	15	**RB0.QRI.930**	76	5	165	14	188	563
6"	15	**RB0.QRL.940**	88	6	188	16	213	816
8"	9	**RB0.QRL.970**	119	7	248	19	274	1580

Backing rings & gaskets available - see accessories section

Fixed Flange

NP10-16 drilled to BS 4504

RB0.**FFL**

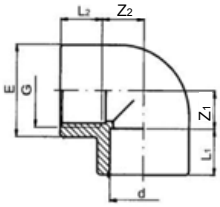


d	PN	Code	L	Z	E	I	f	Holes	Gr.
½"	15	**RB0.FFL.200**	16	4	95	65	14	4	70
¾"	15	**RB0.FFL.250**	19	4	105	75	14	4	105
1"	15	**RB0.FFL.320**	22	4	115	85	14	4	145
1¼"	15	**RB0.FFL.400**	27	4	140	100	18	4	220
1½"	15	**RB0.FFL.500**	32	4	150	110	18	4	270
2"	15	**RB0.FFL.630**	38	4	165	125	18	4	380
2½"	15	**RB0.FFI.750**	44	4	185	145	18	4	465
3"	15	**RB0.FFL.900**	51	7	200	160	18	8	524
4"	15	**RB0.FFL.910**	61	5	220	180	18	8	666

90° Elbow plain/BSP threaded

Reinforcing ring stainless A2

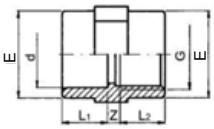
RB0.**GOR**



Discontinued - available while stocks last

d x G	PN	Code	L_1	L_2	Z_1	Z_2	E	Gr.
½" x ½"	15	**RB0.GOR.20B**	16	15.0	11	12.0	28	16
¾" x ¾"	15	**RB0.GOR.25C**	19	16.3	14	16.7	34	28
1" x 1"	15	**RB0.GOR.32D**	22	19.1	17	19.9	42	49
2" x 2"	15	**RB0.GOR.63G**	36	21.8	30	41.2	68	194

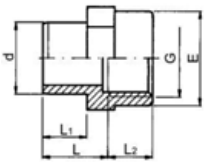
RB0.**MAR**



Socket plain/bsp threaded
Now with stainless steel A2 reinforcing ring

d	x	G	PN	Code	L_1	L_2	L	E	Gr.
1/2"	x	1/2"	15	**RB0.MAR.20B**	16	15.0	4	28	15
3/4"	x	3/4"	15	**RB0.MAR.25C**	19	16.3	6	34	22
1"	x	1"	15	**RB0.MAR.32D**	22	19.1	6	42	37
1 1/4"	x	1 1/4"	15	**RB0.MAR.40E**	27	21.4	8	51	60
1 1/2"	x	1 1/2"	15	**RB0.MAR.50F**	32	21.4	13	61	104
2"	x	2"	15	**RB0.MAR.63G**	39	25.7	15	75	161

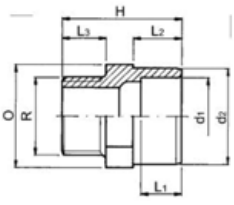
RB0.**AFR**



Adaptor female thread/plain male spigot

D	x	G	PN	Code	L_1	L_2	Z	E	Gr.
1/2"	x	1/2"	15	**RB0.AFR.20B**	16	15	28	24	19
3/4"	x	3/4"	15	**RB0.AFR.25C**	19	16	34	27	27
1"	x	1"	15	**RB0.AFR.32D**	22	19	42	30	43
1 1/4"	x	1 1/4"	15	**RB0.AFR.40E**	27	21	51	36	68
1 1/2"	x	1 1/2"	15	**RB0.AFR.50F**	32	21	58	41	73
2 "	x	2 "	15	**RB0.AFR.63G**	39	25	72	48	115

RB0.**AMR**



Adaptor
double adaptor BSP male thread

Discontinued - available while stocks last

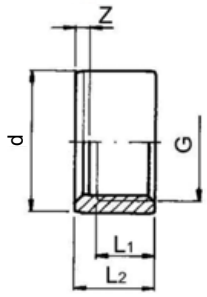
d_1	x	d_2	x	R	PN	Code	L_1	L_2	L_3	H	O	Gr.
3/8"	x	1/2"	x	3/8"	15	**RB0.AMR.16A**	14.5	16	11.4	40	24	10
3/8"	x	1/2"	x	1/2"	15	**RB0.AMR.16B**	14.5	16	15.0	43	24	11
1/2"	x	3/4"	x	1/2"	15	**RB0.AMR.20B**	16.5	19	15.0	46	30	14
1/2"	x	3/4"	x	3/4"	15	**RB0.AMR.20C**	16.5	19	16.3	47	30	18
3/4"	x	1"	x	1"	15	**RB0.AMR.25D**	19.5	22	19.1	53	36	29
1"	x	1 1/4"	x	1"	15	**RB0.AMR.32D**	22.5	26	19.1	57	46	40
1 1/4"	x	1 1/2"	x	1 1/4"	15	**RB0.AMR.40E**	27.0	31	21.4	67	55	73
1 1/2"	x	2"	x	1 1/2"	15	**RB0.AMR.50F**	30.0	38	21.4	74	65	113
1 1/2"	x	2"	x	2"	15	**RB0.AMR.50G**	30.0	38	25.7	78	65	120
2"	x	2 1/2"	x	2"	15	**RB0.AMR.63G**	36.0	44	25.7	84	80	150
2"	x	2 1/2"	x	2 1/2"	15	**RB0.AMR.63H**	36.0	44	30.2	91	80	170

d_1 - Socket (F)
d_2 - Spigot (M)
R - Male Thread

Reducing bush plain/threaded

RB0.**RCR**

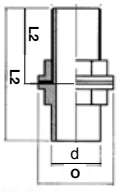
d x G	PN	Code	L_1	L_2	Z_1	Gr.
1/2" x 3/8"	15	**RB0.RCR.20A**	16.5	11.4	5.1	4
3/4" x 1/2"	15	**RB0.RCR.25B**	19.5	15.0	4.5	7
1" x 3/4"	15	**RB0.RCR.32C**	22.5	16.3	6.2	12



Tank Connector plain/threaded

RB0.**TAC**

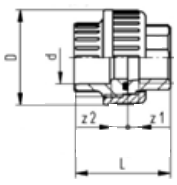
d	PN	Code	L_1	L_2	O	Gr.
1/2"	15	**RB0.TAC.200**	77	42	28	41
3/4"	15	**RB0.TAC.250**	77	42	33	52
1"	15	**RB0.TAC.320**	103	55	46	108
1 1/4"	15	**RB0.TAC.400**	121	70	50	153
1 1/2"	15	**RB0.TAC.500**	128	73	60	216
2"	15	**RB0.TAC.630**	154	82	80	370



Union plain female/brass threaded female

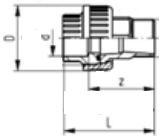
RB0.**BFC**

d	PN	Code	D	L	Z_1	Z_2	Gr.
1/2"	15	**RB0.BFC.20B**	43	48	7	9	84
3/4"	15	**RB0.BFC.25C**	51	54	9	8	134
1"	15	**RB0.BFC.32D**	58	60	8	9	157
1 1/2"	15	**RB0.BFC.50F**	83	75	13	11	452
2"	15	**RB0.BFC.63G**	100	88	14	12	722



RB0.**BMC**

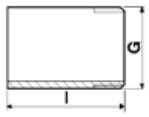
Union plain male/brass threaded male



d	PN	Code	D	L	Z	Gr.
1/2"	15	**RB0.BMC.20B**	43	63	37	123
3/4"	15	**RB0.BMC.25C**	51	71	42	185
1"	15	**RB0.BMC.32D**	58	79	55	283
1 1/4"	15	**RB0.BMC.40E**	72	91	60	503
1 1/2"	15	**RB0.BMC.50F**	83	97	65	666
2"	15	**RB0.BMC.63G**	100	115	77	1029

RB0.**BPF**

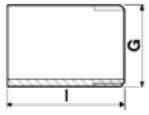
Barrel Nipple plain / threaded



G	PN	Code	L	H	Gr.
1/2"	15	**RB0.BPF.200**	14	44	11
3/4"	15	**RB0.BPF.250**	16	50	13
1"	15	**RB0.BPF.320**	19	56	20
1 1/4"	15	**RB0.BPF.400**	21	62	30
1 1/2"	15	**RB0.BPF.500**	24	75	51
2"	15	**RB0.BPF.630**	32	87	83
2 1/2"	15	**RB0.BPF.750**	35	106	197
3"	15	**RB0.BPF.900**	39	128	300
4"	15	**RB0.BPF.910**	43	153	560

RB0.**BNF**

Barrel Nipple threaded

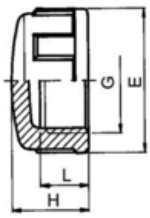


G	PN	Code	L	H	Gr.
1/2"	15	**RB0.BNF.200**	14	44	11
3/4"	15	**RB0.BNF.250**	16	50	13
1"	15	**RB0.BNF.320**	19	56	20
1 1/4"	15	**RB0.BNF.400**	21	62	30
1 1/2"	15	**RB0.BNF.500**	24	75	51
2"	15	**RB0.BNF.630**	32	87	83
2 1/2"	15	**RB0.BNF.750**	30	105	169
3"	15	**RB0.BNF.900**	37	128	243
4"	15	**RB0.BNF.910**	42	156	485

RB0.**CAF**

Cap threaded

Discontinued - available while stocks last

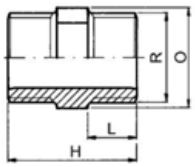


G	PN	Code	L	H	E	Gr.
1/2"	15	**RB0.CAF.200**	15.0	26	26	7
3/4"	15	**RB0.CAF.250**	16.3	30	32	13
2"	15	**RB0.CAF.630**	25.7	55	75	112

Hexagonal Nipple

RB0.**NIF**

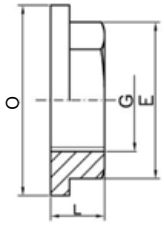
Discontinued - available while stocks last please refer to RB0.BNF



R	PN	Code	L	H	Gr.
1/2"	15	**RB0.NIF.200**	14	44	11
1 1/4"	15	**RB0.NIF.400**	21	62	30
1 1/2"	15	**RB0.NIF.500**	24	75	51

BackNut

RB0.**DAF**

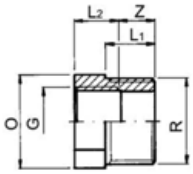


G	PN	Code	E	L	O	Gr.
1/2"	15	**RB0.DAF.200**	28	13	10	38
3/4"	15	**RB0.DAF.250**	33	14	12	43
1"	15	**RB0.DAF.320**	46	16	25	56
2"	15	**RB0.DAF.630**	80	21	88	93
2 1/2"	15	**RB0.DAF.750**	95	24	110	106
3"	15	**RB0.DAF.900**	110	28	171	125
4"	15	**RB0.DAF.910**	140	31	287	154

Reducing Bush

RB0.**RCF**

Discontinued - available while stocks last

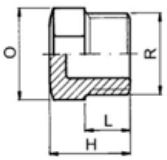


G x R	PN	Code	L_1	L_2	Z	O	Gr.
3/4" x 1/2"	15	**RB0.RCF.25B**	16.3	13	13.3	30	15.0
1 1/2" x 1 1/4"	15	**RB0.RCF.50E**	21.4	37	14.0	55	21.4
3" x 2 1/2"	15	**RB0.RCF.90H**	33.3	160	20.1	95	30.2
4" x 3"	15	**RB0.RCF.91I**	39.3	380	24.0	120	33.3

Plug threaded

RB0.**TAF**

Discontinued - available while stocks last



R	PN	Code	L	H	E	Gr.
1"	15	**RB0.TAF.320**	20.0	36	46	24
1 1/4"	15	**RB0.TAF.400**	21.4	41	51	44

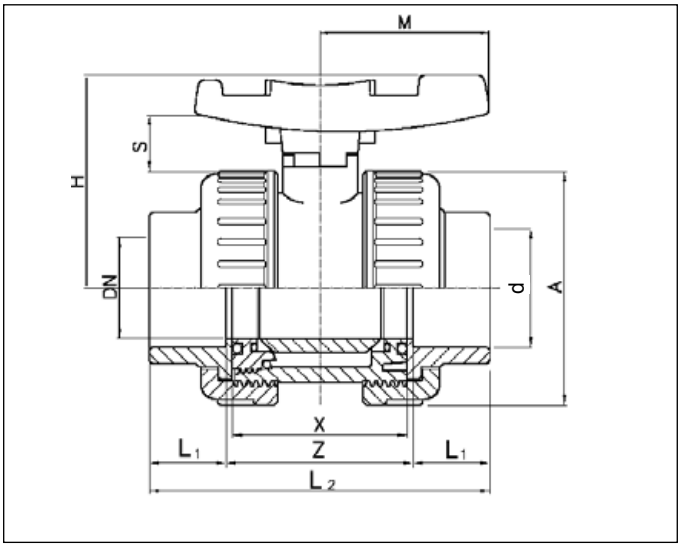
ABS VALVES

Ball Valve

double union/plain socket EPDM seals

VSB.**22L**

d	PN	Code	A	H	M	S	X	L_1	Z	L_2	Gr.
1/2"	16	**VSB.22L.200**	50	51	36	12	42	16	48	80	130
3/4"	16	**VSB.22L.250**	59	58	39	15	48	19	53	91	210
1"	16	**VSB.22L.320**	68	65	45	16	54	22	58	102	305
1 1/4"	16	**VSB.22L.400**	80	76	51	18	62	26	68	120	465
1 1/2"	16	**VSB.22L.500**	94	88	57	21	72	31	78	140	690
2"	16	**VSB.22L.630**	115	103	66	23	86	38	93	169	1160
2 1/2"	10	**VSB.22I.750**	145	124	78	24	110	44	118	206	2090
3"	10	**VSB.22L.900**	168	137	84	26	128	51	140	242	3200
4"	10	**VSB.22L.910**	210	162	105	28	150	61	160	282	5500

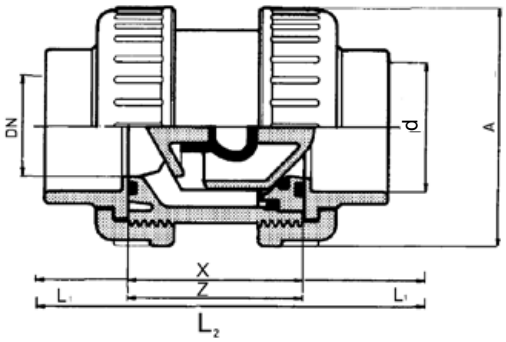


VRB.**21L** **Check Valve** double union/plain socket EPDM seals

EPDM spring

d	PN	Code	A	X	L_1	Z	L_2	Gr.
1/2"	16	**VRB.21L.200**	50	42	14	48	76	82
3/4"	16	**VRB.21L.250**	59	48	16	48	80	82
1"	16	**VRB.21L.320**	68	54	19	53	91	131
1 1/4"	16	**VRB.21L.400**	80	62	22	58	102	185
1 1/2"	16	**VRB.21L.500**	94	72	26	68	120	276
2"	16	**VRB.21L.630**	115	86	31	78	140	453
2 1/2"	10	**VRB.21L.750**	145	110	38	93	169	779
3"	10	**VRB.21L.900**	168	128	51	140	242	3000

Three position Check/Air Release Valve



Check Valve
Can be installed in the vertical and the horizontal position.

Air Release Valve
By removing the spring and following the directional arrows, the valve can be used as an air release valve.

Accessories

1OR.D Union O Ring EPDM

d	Code
16	**1OR.D03.062**
20	**1OR.D04.081**
25	**1OR.D04.112**
32	**1OR.D04.131**
40	**1OR.D06.162**
50	**1OR.D06.187**
63	**1OR.D06.237**
75	**1OR.D06.312**
90	**1OR.D06.362**
110	**1OR.D06.450**

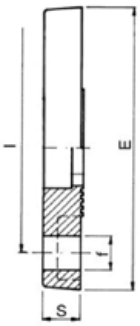
1OR.V Union O Ring FPM

d	Code
20	**1OR.V04.081**
25	**1OR.V04.112**
32	**1OR.V04.131**
40	**1OR.V06.162**
50	**1OR.V06.187**
63	**1OR.V06.237**

2GR.NPD Flat Gasket EPDM for Flange Adaptor

d	PN	Code
16	10	**2GR.NPD.160**
20	10	**2GR.NPD.200**
25	10	**2GR.NPD.250**
32	10	**2GR.NPD.320**
40	10	**2GR.NPD.400**
50	10	**2GR.NPD.500**
63	10	**2GR.NPD.630**
75	10	**2GR.NPD.750**
90	10	**2GR.NPD.900**
110	10	**2GR.NPD.910**
125	10	**2GR.NPD.920**
140	10	**2GR.NPD.930**
160	10	**2GR.NPD.940**
200	10	**2GR.NPD.960**
225	6	**2GR.NPD.970**
315	6	**2GR.NPD.980**

RV0.FLI Loose Flange

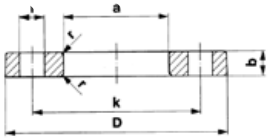


d	PN	Code	E	S	I	f	Holes	Gr.
20	16	**RV0.FLI.200**	95	11	65	14	4	67
25	16	**RV0.FLI.250**	105	12	75	14	4	90
32	16	**RV0.FLI.320**	115	14	85	14	4	116
40	16	**RV0.FLI.400**	140	15	100	18	4	185
50	16	**RV0.FLI.500**	150	16	110	18	4	215
63	16	**RV0.FLI.630**	165	18	125	18	4	300
75	16	**RV0.FLI.750**	185	19	145	18	4	355
90	16	**RV0.FLI.900**	200	20	160	18	8	435
110	16	**RV0.FLI.910**	220	22	180	18	8	520
125	16	**RV0.FLI.920**	230	24	190	18	8	570
140	16	**RV0.FLI.930**	250	26	210	18	8	700
160	16	**RV0.FLI.940**	285	28	240	22	8	975
200	10	**RV0.FLI.960**	340	30	295	22	8	1230
225	10	**RV0.FLI.970**	340	30	295	22	8	1315
250	10	**RV0.FLI.980**	395	34	350	22	8	1800
315	10	**RV0.FLI.991**	445	31	400	22	8	3180

Backing Flange for socket systems - all materials

TDE

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to B10:1962, table D* & E**

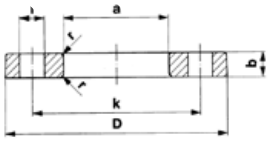


d	PN	Code	D	a	k	b	l	AL	Gr.
20	16	**TDE.200**	96	28	67	7	15	4	220
25	16	**TDE.250**	102	34	73	7	15	4	320
32	16	**TDE.320**	115	42	83	7	15	4	410
40	16	**TDE.400**	121	51	88	8	15	4	820
50	16	**TDE.500**	134	62	99	8	15	4	1040
63	16	**TDE.630**	153	78	115	10	18	4	1220
75	16	**TDE.750**	165	92	127	10	18	4	1400
90	16	**TDE.900**	184	110	146	10	18	4	1530
110	16	**TDE.910D***	216	138	178	10	18	4	1840
110	16	**TDE.910E****	216	138	178	10	18	8	1840
140	16	**TDE.930**	254	167	210	10	18	8	2070
160	16	**TDE.940**	280	200	235	10	22	8	2330
225	6	**TDE.970**	337	250	292	10	22	8	2750

Backing Flanges for socket systems - all materials

BSF

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to ISO/BS4504: 1969 PN10/16

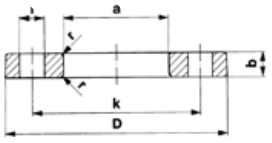


d	PN	Code	D	a	k	b	l	AL	Gr.
20	16	**BSF.200**	95	28	65	7	14	4	220
25	16	**BSF.250**	105	34	75	7	14	4	320
32	16	**BSF.320**	115	42	85	7	14	4	410
40	16	**BSF.400**	140	51	100	8	18	4	820
50	16	**BSF.500**	150	62	110	8	18	4	1040
63	16	**BSF.630**	165	78	125	10	18	4	1220
75	16	**BSF.750**	185	92	145	10	18	4	1400
90	16	**BSF.900**	200	110	160	10	18	4	1530
110	16	**BSF.910M**	220	133	180	10	18	8	1840
140	16	**BSF.910I**	220	133	180	10	18	4	1840
160	16	**BSF.930**	250	167	210	10	18	8	2070
200	16	**BSF.940**	285	200	240	10	22	8	2330
225	6	**BSF.970A**	340	250	295	10	22	8	1584

Backing Flanges for socket systems - all materials

ASA

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to BS1560:1958 (ASA 150)



d	PN	Code	D	a	k	b	l	AL	Gr.
20	16	**ASA.200**	89	28	60	7	16	4	220
25	16	**ASA.250**	98	34	70	7	16	4	320
32	16	**ASA.320**	108	42	79	7	16	4	410
40	16	**ASA.400**	117	51	89	8	16	4	820
50	16	**ASA.500**	127	62	98	8	16	4	1040
63	16	**ASA.630**	152	78	121	10	19	4	1220
75	16	**ASA.750**	178	92	140	10	19	4	1400
90	16	**ASA.900**	190	110	152	10	19	4	1530
110	16	**ASA.910M**	229	133	190	10	19	8	1840
140	16	**ASA.910I**	229	138	190	10	19	8	1840
160	16	**ASA.930**	254	167	216	10	22	8	2070
200	16	**ASA.940**	279	200	241	10	22	8	2330
225	6	**ASA.970**	343	250	298	10	22	8	2750

Gasket Set EPDM + PTFE for VSK

XSK.**SED**

d	Code
16	**XSK.SED.160**
20	**XSK.SED.200**
25	**XSK.SED.250**
32	**XSK.SED.320**
40	**XSK.SED.400**
50	**XSK.SED.500**
63	**XSK.SED.630**
75	**XSK.SED.750**
90	**XSK.SED.900**
110	**XSK.SED.910**

Gasket set EPDM + PTFE/PE for VSA

XSA.**SED**

d	Code
16	**XSA.SED.160**
20	**XSA.SED.200**
25	**XSA.SED.250**
32	**XSA.SED.320**
40	**XSA.SED.400**
50	**XSA.SED.500**
63	**XSA.SED.630**
75	**XSA.SED.750**
90	**XSA.SED.900**
110	**XSA.SED.910**

Rubber Spring for VRO Check Valve

2.**MLL**

d	Code
20	**2.MLL01D.20**
25	**2.MLL01D.25**
32	**2.MLL01D.32**
40	**2.MLL01D.40**
50	**2.MLL01D.50**
63	**2.MLL01D.63**
75/90	**2.MLL01D.90**

Seal EPDM for VFA Butterfly Valve

2GO.**VF1**

d	Code
75	**2G0.VF1O.D75**
90	**2G0.VF1O.D90**
110	**2G0.VF1O.D91**
125-140	**2G0.VF1O.D92**
160	**2G0.VF1O.D94**
200-225	**2G0.VF1O.D96**

PVC-U Socket for VSK/VSA/VRO Valve Inch

3VC.**LV1**

d	Code
3/8”	**3VC.LV1.L16**
1/2”	**3VC.LV1.L20**
3/4”	**3VC.LV1.L25**
1”	**3VC.LV1.L32**
1 1/4”	**3VC.LV1.L40**
1 1/2”	**3VC.LV1.L50**
2”	**3VC.LV1.L63**
2 1/2”	**3VC.LV1.I75**
3”	**3VC.LV1.L90**
4”	**3VC.LV1.L91**

PVC-U Socket for VSK/VSA/VRO Valve Metric

3V.**CLV1I**

d	Code
16	**3V.CLV1I.16**
20	**3V.CLV1I.20**
25	**3V.CLV1I.25**
32	**3V.CLV1I.32**
40	**3V.CLV1I.40**
50	**3V.CLV1I.50**
63	**3V.CLV1I.63**
75	**3V.CLV1I.75**
90	**3V.CLV1I.90**
110	**3V.CLV1I.91**

PVC-U Socket for VSK/VSA/VRO Valve BSP

3V.**CLV1F**

G	Code
3/8”	**3V.CLV1F.16**
1/2”	**3V.CLV1F.20**
3/4”	**3V.CLV1F.25**
1”	**3V.CLV1F.32**
1 1/4”	**3V.CLV1F.40**
1 1/2”	**3V.CLV1F.50**
2”	**3V.CLV1F.63**
2 1/2”	**3V.CLV1F.75**
3”	**3V.CLV1F.90**
4”	**3V.CLV1F.91**

PVC-U Nut for VSK/VSA/VRO Valve

3VG.HR0

d	Code
20	**3VG.HR0.A20**
25	**3VG.HR0.A25**
32	**3VG.HR0.A32**
40	**3VG.HR0.A40**
50	**3VG.HR0.A50**
63	**3VG.HR0.A63**
75	**3VG.HR0.A75**
90	**3VG.HR0.A90**
110	**3VG.HR0.A91**

Screen for Foot Valve PP for VRF

ARV.SCP

d	Code
½”	**ARV.SCP.F20**
¾”	**ARV.SCP.F25**
1”	**ARV.SCP.F32**
1¼”	**ARV.SCP.F40**
1½”	**ARV.SCP.F50**
2”	**ARV.SCP.F63**
3”	**ARV.SCP.F90**

Pipe Clips PP BS Inch

d	Code
*3/8"	**167 061 085**
*1/2"	**167 061 086**
*3/4"	**167 061 087**
*1"	**167 061 088**
1 1/4"	**167 061 089**
1 1/2"	**167 061 090**
2"	**167 061 091**
2 1/2"	**167 061 012**
3"	**167 061 013**
**4"	**167 060 064**
**5"	**167 060 041**
**6"	**167 060 067**
**8"	**167 060 070**

Pipe Clips PP Metric

d	Code
*16	**167 061 035**
*20	**167 061 036**
*25	**167 061 037**
*32	**167 061 038**
40	**167 061 039**
50	**167 061 040**
63	**167 061 041**
75	**167 061 012**
90	**167 061 013**
110	**167 060 014**
125	**167 060 015**
140	**167 060 016**
160	**167 060 017**
**200	**167 060 019**
**225	**167 060 020**
**250	**167 060 021**
**315	**167 060 023**

Fixing Bracket PVC-U suitable for VSA

AVS.**STF**

D	Code	Gr.
20	**AVS.STF.200**	132
25	**AVS.STF.250**	142
32	**AVS.STF.320**	152
40	**AVS.STF.400**	197
50	**AVS.STF.500**	256
63	**AVS.STF.630**	356

Actuator Fixing Bracket suitable for VFA

3VO.**VFS**

D	Code
65-150	**3V0VFSG01**
200	**3V0VFSG02**

Orange Handle for VSK

3VM.**NG0**

d	Code
20	**3VM.NG0.B20**
25	**3VM.NG0.B25**
32	**3VM.NG0.B32**
40	**3VM.NG0.B40**
50	**3VM.NG0.B50**
63	**3VM.NG0.B63**
75	**3VM.NG0.B75**
90	**3VM.NG0.B90**
110	**3VM.NG0.B91**

Blue Handle for VSA

3VM.**NG1D**

d	DN	Code
16 / 20	15	**3VM.NG1D.20**
25	20	**3VM.NG1D.25**
32	25	**3VM.NG1D.32**
40	32	**3VM.NG1D.40**
50	40	**3VM.NG1D.50**
63	50	**3VM.NG1D.63**
75	65	**3VM.NG1D.75**
90	80	**3VM.NG1D.90**
110	100	**3VM.NG1D.91**

Blue Handle for VFA.02D

3V0.**VFM**

d	DN	Code
75-110	65-100	**3V0.VFM.D04**
125-160	125-150	**3V0.VFM.D05**
200-225	200-200	**3V0.VFM.D06**

Solvent Cement for PVC-U

	Code	
500g	**PVC.CEM.500**	**P41613**

Solvent Cement for ABS

	Code	
650g	**ABS.CEM.650**	**P41609**

Cleaner for PVC-U

	Code	
500g	**SOL.CLR.500**	**P41610**

NOTES

NOTES

TP Product Catalogue

Available from stock
Quality assured pipe and fittings
Easy solvent cement jointing
PVC-U metric and imperial
ABS imperial

www.tp-piping.co.uk

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