



Handbook pipe and fittings

The complete range of FIP pipes
and fittings: versions, ranges and
materials.



alixis



Pipe and fittings Handbook

Pipe and fittings Handbook is a new tool that resumes all FIP pipes and fittings range.

All types and versions available in a glance as well as their main technical details.

This handbook is intended as practical quick reference.

It does not substitute FIP catalogues which are the official reference for the products data.

Legenda

d	Nominal outside diameter of the pipe in mm
R	Thread size
DN	Nominal internal diameter in mm
PN	Nominal pressure (max working pressure at 20°C - water)
PMA	Maximum allowable operating pressure
SDR	Standard Dimension Ratio (pipe outside diam./pipe thickness)
PVC-U	Unplasticized polyvinylchloride
PP-H	Homopolymer polypropylene MRS-10
FRP	Fiberglass Reinforced Plastic
PVC-C	Chlorinated polyvinylchloride
PVDF	Polyvinylidene fluoride MRS-25
n.a.	Not available
Pressure conversion	16 bar = 232 psi 10 bar = 150 psi 6 bar = 87 psi 4 bar = 58 psi class E = 15 bar class D = 12 bar

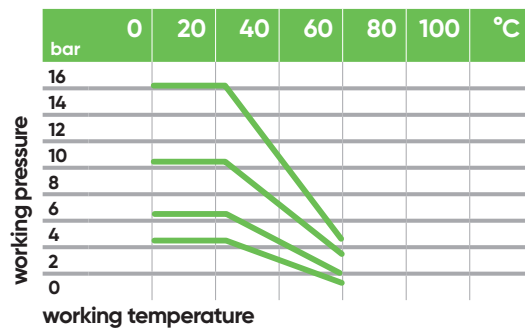
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PVC-U PIPE AND FITTINGS

Material specifications and technical data



Pressure / Temperature rating for water and harmless fluids to which the material is resistant. In the other cases a reduction of the rated PN is required.

Material	PVC-U Unplasticized Polyvinyl Chloride
Colour	ISO METRIC SERIES: Grey - RAL 7011
Standards	<ul style="list-style-type: none"> • Solvent welding ISO METRIC size according to: ISO 727, EN 1452, DIN 8063, EN ISO 15493, DIN 8061, DIN 8062 • Solvent welding plain inch according to: BS 4346/1, coupling to pipes complying with BS 3505, • Solvent welding ASTM INCH size according to: ASTM D 2464 D 2467 coupling to pipes complying with ASTM D 1785 • Parallel threads according to: ISO 228/1, EN 10226-1/2, ISO R7 • Flanging according to: ISO 7005, DIN 8063, DIN 2501, EN ISO 1452, UNI EN 1092-1
Range	<ul style="list-style-type: none"> • Pressure Pipes <ul style="list-style-type: none"> - ISO METRIC sizes: from d16 mm to d315 mm • Fittings for Solvent Welding: <ul style="list-style-type: none"> - ISO METRIC sizes: from d12 mm to d315 mm - BS sizes: from d1/2" up to d8" • Threaded Fittings: from R3/8" up to R4"
Maximum working pressure	16 bar (232 psi) with water at 20 °C (68 °F) 10 bar (145 psi) with water at 20 °C (68 °F) In case of different working conditions see technical catalogue
Working temperature range	From 0 °C (32 °F) to 60 °C (140 °F)

Unplasticized PVC-U is suitable to be used in contact with foodstuff and drinking water conforming to national D.M. n.174 - 06/04/2004 Italian Department of Health and international rules and regulations in force.

For technical details, please, see FIP catalogues or visit our web site www.fipnet.com.








Approvals and Quality Marks

FIP Fittings
IIP n. 122

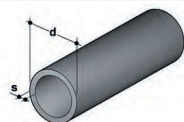
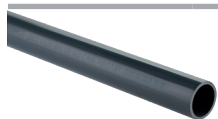


Type UNI	from Ø up to Ø mm	PN	Commercial name
Socket-union B	16 ÷ 63	16	BIV
Tee 90°	20 ÷ 160	16	TIV
Elbow G 90°	16 ÷ 160	16	GIV
Elbow 45°	20 ÷ 160	16	HIV
Socket M	16 ÷ 160	16	MIV
Bend C 90°	20 ÷ 110	16	SIV
Bend C 90°	160	10	SIV
Reducer R	16 x 12 ÷ 110 x 90	16	RIV
Reducer RC	20 x 16 ÷ 160 x 140	16	DIV
End cap CL	20 ÷ 110	16	CIV
Backing Rings	20 ÷ 160	16	ODV
Stub Flange	20 ÷ 160	16	QPV

Approvals and Quality Marks

	<p>KIWA (Keurings Instituut Voor Waterleiding Artikelen Holland) PVC-U fittings to standard KIWA BRL K17301</p>
	<p>CSTB PVC-U fittings and pipes to standard EN ISO 1452</p>
	<p>ACS France (Attestation de conformité Sanitaire) Suitability of PVC-U for food and beverage applications</p>
	<p>WRAS (Water regulations advisory scheme - UK) Suitability of PVC-U for transporting potable water</p>
	<p>Bureau Veritas (France) Suitability of PVC-U for conveying and treating sanitary and conditioning water in the maritime sector</p>
	<p>ABS The FIP PVC-U system is recognised as suitable for conveying and treating sanitary and conditioning water onboard ships and other units classified by the American Bureau of Shipping (ABS)</p>
	<p>BSI (British Standards Institution UK) Suitability of PVC-U for food and beverage applications</p>

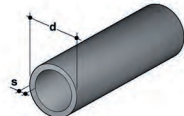
PVC-U Pressure Pipe



According to standard EN ISO 1452, dark gray RAL 7011, standard length 5 m

d [mm]		16	20	25	32	40	50	63	75	90	110	125	140	160	Type
S (mm)		1,5	1,5	1,9	2,4	3,0	3,7	4,7	5,6	6,7	6,6	7,4	8,3	9,5	PIPEV
SDR	PVC-U	11	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	17	17	17	17	
PN		20	16	16	16	16	16	16	16	16	16	16	16	16	

d [mm]		32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	Type
S (mm)		1,6	1,9	2,4	3,0	3,6	4,3	4,2	4,8	5,4	6,2	6,9	7,7	8,6	9,6	10,7	12,1	PIPEV
SDR	PVC-U	21	21	21	21	21	21	26	26	26	26	26	26	26	26	26	26	
PN		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	



According to standard EN ISO 15493 and DIN 8061/8062, dark gray RAL 7011, standard length 5 m

d [mm]		16	20	25	32	40	50	63	75	90	110	125	140	160	Type
S (mm)		1,5	1,5	1,9	2,4	3,0	3,7	4,7	5,6	6,7	8,1	9,2	10,3	11,8	PIPEV
SDR	PVC-U	11	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	
PN		20	16	16	16	16	16	16	16	16	16	16	16	16	

d [mm]		32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	Type
S (mm)		1,6	1,9	2,4	3,0	3,6	4,3	4,2	4,8	5,4	6,2	6,9	7,7	8,6	9,6	10,7	12,1	PIPEV
SDR	PVC-U	21	21	21	21	21	21	26	26	26	26	26	26	26	26	26	26	
PN		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	

PVC-U Pressure Pipe

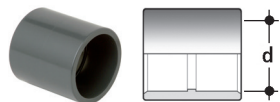


According to standard NF and CSTB NF055, dark gray RAL 7011, standard length 5 m

d [mm]		32	40	50	63	75	90	110	125	140	160	Type
S (mm)		2,4	3	3,7	4,7	5,6	6,7	8,1	9,2	9,3	9,5	
SDR	PVC-U	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	15,0	17,0	PIPEV
PN		20	16	16	16	16	16	16	16	16	16	

d [mm]		63	75	90	110	125	140	160	180	200	225	250	315	Type
S (mm)		3,0	3,6	4,3	5,3	6	6,1	6,2	6,9	7,7	8,6	9,6	12,1	
SDR	PVC-U	21	21	21	26	26	26	26	26	26	26	26	26	PIPEV
PN		10	10	10	10	10	10	10	10	10	10	10	10	

Fittings for solvent welding - Equal



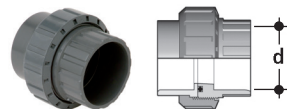
Double socket

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315		
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"			8"		10"	12"	Type	
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16*	PN16*	PN10	PN10	PN10	PN10	MIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	PN16	class E	class E	PN16	class E	class E	n.a.	class D	n.a.	n.a.	class D	n.a.	n.a.	n.a.	n.a.	MLV
SIZE [inch]				20x1/2"	25x3/4"	32x1"	40x1 1/4"	50x1 1/2"	63x2"	75x2 1/2"	90x3"	110x4"										
ISO-METRIC/BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class E	class E	class E	PN16	class E	class E	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	MILV



End Cap

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315			
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"										Type	
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class E	class E	class E	PN16	class E	class E	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CLV

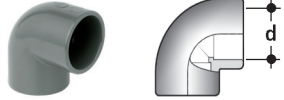


Socket union

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315			
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"													Type	
ISO-METRIC for solvent welding	PVC-U	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	PN10	PN10	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	BIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class E	class E	class E	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	BLV

Note: O-Rings available: see FIP Price lists and catalogues

Fittings for solvent welding - Equal



Elbow 90°

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315		
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"			8"		10"	12"	Type	
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16*	PN10	PN10	PN10	PN10	PN10	PN10	GIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class D	class E	class E	PN16	class E	class E	class E	class D	n.a.	n.a.	class D	n.a.	n.a.	n.a.	n.a.	GLV

* PN16 on request



Bend 90°

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315		
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"			8"		10"	12"	Type	
ISO-METRIC for solvent welding	PVC-U	n.a.	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	SIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class E	class E	class E	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	SLV



Elbow 45°

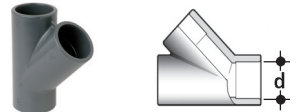
d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315		
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"			8"		10"	12"	Type	
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	PN10	PN10	PN10	PN10	PN10	PN10	HIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class D	class E	class E	class D	class E	class E	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	HLV

Fittings for solvent welding - Equal



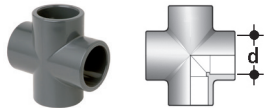
Tee 90°

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	Type	
SIZE [inch]				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"			8"		10"	12"		
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	PN10	PN10	PN10	TIV
BS-INCH for solvent welding	PVC-U	n.a.	n.a.	class E	class E	class E	class D	class E	class E	class D	class E	class E	n.a.	class D	n.a.	n.a.	class D	n.a.	n.a.	n.a.	n.a.	TLV



Tee 45°

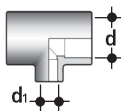
d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	Type	
ISO-METRIC for solvent welding	PVC-U	n.a.	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	PN10	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	YIV



Cross 90°

d [mm]		12	16	20	25	32	40	50	63	75	90	110	140	160	180	200	225	250	280	315	Type	
ISO-METRIC for solvent welding	PVC-U	n.a.	n.a.	n.a.	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	XIV

Fittings for solvent welding - Equal

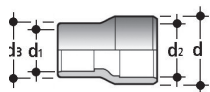


Tee 90° Reducing

d [mm]		25	32	32	40	40	40	50	50	50	50	63	63	63	63	75	75	
d ₁ [mm]		20	20	25	20	25	32	20	25	32	40	25	32	40	50	25	32	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	PN16	TRIV
d [mm]		75	75	75	90	90	90	90	90	90	110	110	110	110	110	110	160	
d ₁ [mm]		40	50	63	25	32	40	50	63	75	25	32	50	63	75	90	110	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	n.a.	n.a.	PN16	PN16	PN16	PN16	PN16	n.a.	PN16	PN16	PN16	PN16	PN16	TRIV
d [mm]		250	250	250	280	280	315	315	315									
d ₁ [mm]		110	160	200	160	225	160	200	250									Type
ISO-METRIC for solvent welding	PVC-U	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*									TRIV

Reducer

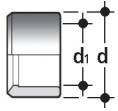
* resale product



d [mm]		16	20	25	25	32	32	32	40	40	40	50	50	50	50	63	63	
d ₂ [mm]				20	20	25	25	25	32	32	32	40	40	40	40	50	50	
d ₁ [mm]		12	16	16	20	16	20	25	20	25	32	20	25	32	40	25	32	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	RIV
d [mm]		63	63	75	75	90	90	90	90	110	110	110	110		160	200		
d ₂ [mm]		50	50	63	63	75	75	75	75	90	90	90	90	110				
d ₁ [mm]		40	50	50	63	40	50	63	75	50	63	75	90	90	110	160		
d ₃ [mm]						50	63	75	90									Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16**	PN16	PN10		RIV

** double socket reducing MRIV 110x90

Fittings for solvent welding - Equal



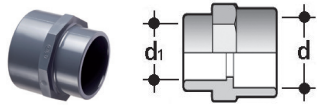
Reducing Bush

d [mm]		16	20	25	32	32	40	40	40	50	50	63	63	63	75	75	90	
d1 [mm]		12	16	20	20	25	20	25	32	32	40	32	40	50	50	63	50	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	DIV
d [mm]		90	90	110	110	110	125	140	140	140	160	160	160	180	200	200	225	
d1 [mm]		63	75	63	75	90	110	90	110	125	90	110	140	160	160	180	160	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10*	PN16*	PN10*	PN16	DIV
d [mm]		225	180	200	200	250	250	250	250	280	280	280	315	315	315	315		
d1 [mm]		200	160	160	180	160	180	200	225	200	225	250	200	225	250	280		Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN10*	PN16	PN10*	PN10	PN10*	PN10	PN10	PN10*	PN10	PN10*	PN10	PN10	PN10	PN10		DIV
d [inch]		1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2 1/2"	3"	3"	3"	4"	
d1 [inch]		3/8"	1/2"	3/4"	3/4"	1"	3/4"	1"	1 1/4"	3/4"	1"	1 1/2"	2"	1 1/2"	2"	2 1/2"	2"	Type
BS-INCH for solvent welding	PVC-U	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	class E	DLV
d [inch]		4"	6"	8"														
d1 [inch]		3"	4"	6"														Type
BS-INCH for solvent welding	PVC-U	class E	class D	class D														DLV

* resale product

Fittings for solvent welding - Reducers

Double socket reducer

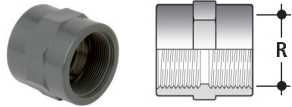


d [mm]		110	180	180	180	200	200	200	200	200	225	225	225	225	250	250		
d ₁ [mm]		90	125	140	160	110	125	140	160	180	110	140	160	180	200	110	125	Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	MRIV
d [mm]		250	250	250	250	250	280	280	280	280	280	280	280	315	315	315	315	
d ₁ [mm]		140	160	180	200	225	110	125	140	160	180	225	250	160	180	200	225	Type
ISO-METRIC for solvent welding	PVC-U	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	PN10*	MRIV
d [mm]		315	315	355	400	400												
d ₁ [mm]		250	280	315	315	355												Type
ISO-METRIC for solvent welding	PVC-U	PN10*	PN10*	PN10*	PN10*	PN10*												MRIV

* resale product

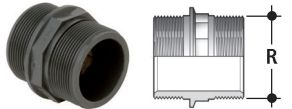
Threaded fittings - Equal

Double Socket



R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	MFV

Barrel Nipple



R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16*	PN16*	PN16*	NFV

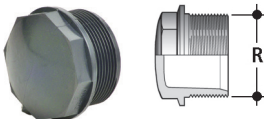
* reduced safety factor

End Cap



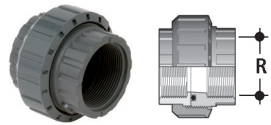
R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	CFV

Plug



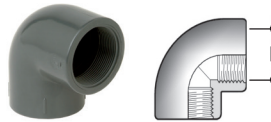
R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PFV

Threaded fittings - Equal



Socket Union

R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BFV



Elbow 90°

R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	GFV



Elbow 45°

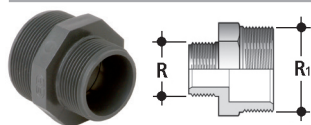
R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U		PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	HFV



Tee 90°

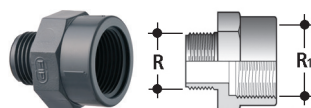
R [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	TFV

Threaded fittings - Reducers



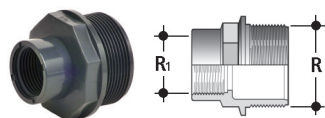
Barrel Nipple reduced

R ₁ [inch]		3/4"	1"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
R [inch]		1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	Type
Threaded BSP	PVC-U	PN16	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	NRFV



Reduce Socket/Spigot

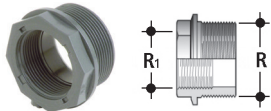
R ₁ [inch]		3/4"	1"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
R [inch]		1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	IFFV



Reducer Spigot/Socket

R [inch]		1/2"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	
R ₁ [inch]		3/8"	3/8"	1/2"	3/8"	3/4"	2"	1/2"	3/4"	1"	1/2"	3/4"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	RFV
R [inch]		1 1/2"	1 1/2"	2"	2"	2"	2"	2 1/2"	3"	3"	4"		
R ₁ [inch]		1"	1 1/4"	3/4"	1"	1 1/4"	1 1/2"	2"	2"	2 1/2"	3"		Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16		RFV

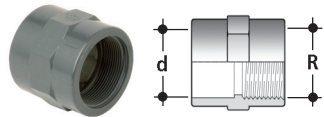
Threaded Fittings - Reducers



Reducing Bush

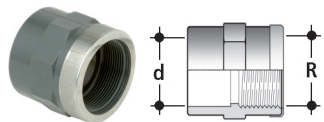
R [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
R _i [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	DFV

Adaptor Fittings



Double Socket

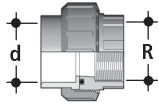
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	2 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	MIFV
d [inch]			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"		
R [BSP]			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"		
BS-BSP	PVC-U		class E	class E	class E	class E	class E	class E	class D	class D		MLFV



Double Socket with reinforcing Stainless Steel ring

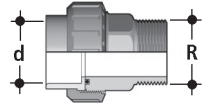
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	2 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	MIMV

Adaptor Fittings



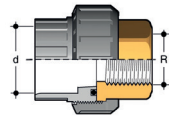
Socket union with threaded female end

d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	PN6	PN6	BIFV



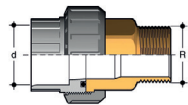
Socket union with threaded male end

d [mm]							50	50	63			
R [BSP]							1 1/2"	2"	2"			Type
ISO-BSP (male thread)	PVC-U						PN16	PN16	PN16			BIRV



Adaptor union plastic/brass with threaded brass female end

d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BIFOV

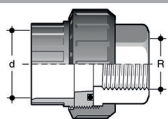


Adaptor union plastic/brass with threaded brass male end

d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP (male thread)	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BIROV

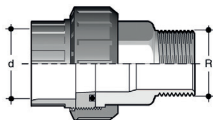
Note: O-Rings and flat gaskets available: see FIP Price lists and catalogues.

Adaptor Fittings



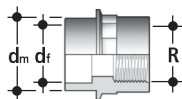
Adaptor union plastic/with stainless steel female end

d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	VVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BIFXV



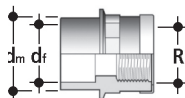
Adaptor union plastic/with stainless steel male end

d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP (male thread)	VVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BIRXV



Double adaptor Socket/Spigot female thread

dm [mm]		20	20	25	25	32	32	40	50	50	63	63	75	75	90	90	110	110	125	
df [mm]		16	16	20	20	25	25	32	40	40	50	50	63	63	75	75	90	90	110	
R [BSP]		3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	3"	3"	4"	4"	Type
ISO-BSP	VVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	DIFV



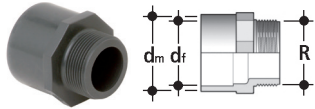
Double adaptor Socket/Spigot with reinforcing Stainless Steel ring

dm [mm]		20	20	25	25	32	32	40	50	50	63	63	75	75	90	90	110	110	125	
df [mm]		16	16	20	20	25	25	32	40	40	50	50	63	63	75	75	90	90	110	
R [BSP]		3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	3"	3"	4"	4"	Type
ISO-BSP	VVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	DIMV

Note: O-Rings and flat gaskets available: see FIP Price lists and catalogues.

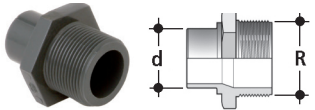
Adaptor Fittings

Double adaptor Socket/Spigot male thread



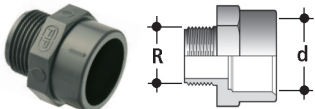
dm [mm]		16	20	20	25	25	32	32	32	40	40	40	50	50	50	
df [mm]		12	16	16	20	20	25	25	25	32	32	32	40	40	40	
R [BSP]		3/8"	3/8"	1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	1 1/4"	1"	1 1/4"	1 1/2"	Type
ISO-BSP (male thread)	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	KIFV
dm [mm]		63	63	63	75	75	75	90	90	90	110	110	110	125	125	
df [mm]		50	50	50	63	63	63	75	75	75	90	90	90	110	110	
R [BSP]		1 1/4"	1 1/2"	2"	1 1/2"	2"	2 1/2"	2"	2 1/2"	3"	2 1/2"	3"	4"	3"	4"	Type
ISO-BSP (male thread)	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	KIFV

Barrel nipple reduced



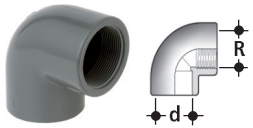
d [mm]			25	32												
R [BSP]			1"	1 1/4"												Type
ISO-BSP	PVC-U		PN16	PN16												NRIV

Adaptor Socket/Spigot



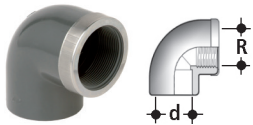
d [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
BS-BSP	PVC-U	n.a.	class E	class E	class E	class E	class E	class E	n.a.	n.a.	n.a.	ILFV

Adaptor Fittings



Elbow 90°

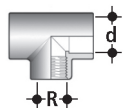
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	GIFV
d [inch]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
BS-BSP	PVC-U	n.a.	class E	class E	class E	class E	class E	class E	class D	class D	class D	GLFV



Elbow 90° with reinforcing Stainless Steel ring

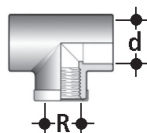
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	GIMV

Adaptor Fittings



Tee 90°

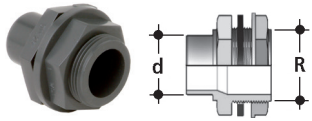
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	TIFV



Tee 90° with reinforcing Stainless Steel ring

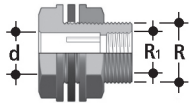
d [mm]		16	20	25	32	40	50	63	75	90	110	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	TIMV

Tank connectors



Tank connector with solvent weld spigot d, threaded joint R

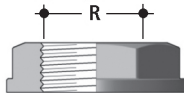
d [mm]				25	32			
R [BSP]				1"	1 1/4"			Type
ISO-BSP	PVC-U			PN16	PN16			LIV



Tank connector with solvent weld socket d, male threaded joint R and female threaded joint R1

d [mm]		16	20	25	32	40		
R [BSP]		3/4"	1"	1 1/4"	1 1/2"	2"		
R ₁ [BSP]		1/2"	3/4"	1"	1"	1 1/2"		Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16		LIFV

Back nut

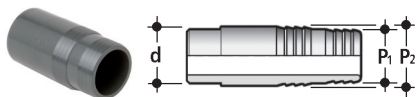


R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	JFV

Flat gaskets in EPDM and FKM available: see FIP Price lists and catalogues.

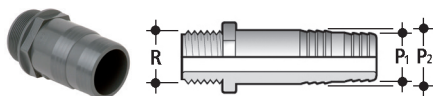
Hose adaptors

Hose adaptor with solvent weld spigot



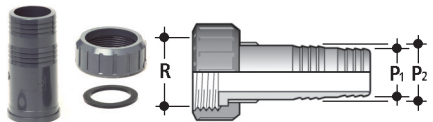
d [mm]		12	16	20	25	32	40	50	63			
P ₁ [mm]		12	16	20	25	30	40	50	60			
P ₂ [mm]		14	18	22	27	32	42	52	64			Type
ISO-METRIC	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16			AIV

Hose adaptor with BSP threaded male end



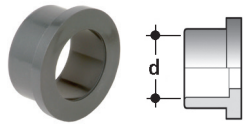
R [inch]		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"			
P ₁ [mm]		12	16	20	25	30	40	50	60			
P ₂ [mm]		14	18	22	27	32	42	52	64			Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16			AFV

Hose adaptor with BSP threaded female end (R) and EPDM flat gasket



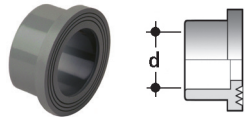
R [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2"	2 1/4"	2 1/2"	2 3/4"	
P ₁ [mm]		12	16	20	25	30	40	50	50	60	60	
P ₂ [mm]		14	18	22	27	32	42	52	52	64	64	Type
Threaded BSP	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	ADV

Stubs



Flat face stub

d [mm]		20	25	32	40	50	63	75	90	110	125	140	
DN [mm]		15	20	25	32	40	50	65	80	100	110	125	Type
DIN8063 PN10/16 socket ISO-Metric for solvent welding	PVC-U	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	QPV
d [mm]		160	200	225	250	280	315	355	400	450	500		
DN [mm]		150	200	200	250	250	300	350	400	450	500		Type
DIN8063 PN10/16 socket ISO-Metric for solvent welding	PVC-U	PN16	PN16**	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		QPV
SIZE [inch]		2"	2 1/2"	3"	4"	6"	8"						Type
BS-INCH for solvent welding	PVC-U	class E	class E	class E	class E	class D	class D						QLV



Serrated face stub (for use with flat gaskets)

d [mm]		20	25	32	40	50	63	75	90	110	125	140	
DN [mm]		15	20	25	32	40	50	65	80	100	110	125	Type
ISO-METRIC for solvent welding	PVC-U	n.a.	n.a.	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	QRV
d [mm]		160	200	225	250	280	315	355	400	450	500		
DN [mm]		150	200	200	250	250	300	350	400	450	500		Type
ISO-METRIC for solvent welding	PVC-U	PN16	PN16	PN16	PN10	PN10	PN10	PN5*	PN5*	PN5*	PN5*		QRV

* resale product

Flanges



Backing ring

d [mm]		20	25	32	40	50	63	75	90	110	125	140	
DN [mm]		15	20	25	32	40	50	65	80	100	110	125	Type
DIN8063-DIN2501 drilled PN10/16	PVC-U	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	ODV
d [mm]		160	200*	225*	250	280	315	355	400	450	500		
DN [mm]		150	200	200	250	250	300	350	400	450	500		Type
DIN8063-DIN2501 drilled PN10/16	PVC-U	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA4	PMA4	PMA4	PMA4		ODV



Blind flange

Note: for use with Stubs QPV-QRV
* drilled PN10

d [mm]		25	32	40	50	63	75	90	110	180	200	225	
DN [mm]		20	25	32	40	50	65	80	100	175	200	200	Type
DIN8063-DIN2501 drilled PN10/16	PVC-U	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA4	PMA4	PMA4	FCV

Note: serrated face for flat gasket



Socket flange

d [mm]			25	32	40	50	63	75	90	110		
DN [mm]			20	25	32	40	50	65	80	100		
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"		3"	4"		Type
DIN8063-DIN2501 drilled PN10/16, socket for solvent welding	PVC-U	n.a.	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10		FDV

Note: serrated face for flat gasket

BS 10 Table E, socket for solvent welding	PVC-U	Class E	Class E	Class E	Class E	Class E	Class E	n.a.	Class E	Class E		FLV
---	-------	---------	---------	---------	---------	---------	---------	------	---------	---------	--	-----

Note: flat face

Steel Core Flanges for PVC-U



Backing ring for use with stubs QRV, QPV

d [mm]		20	25	32	40	50	63	75	90	125 (1)	140	180 (2)	200	225	280	315	
DN [mm]		15	20	25	32	40	50	65	80	100	125	150	200	200	250	300	Type
DIN2501-EN1092	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	ODB

drilled PN10/16 up to DN150, drilled PN10 for DN>150

(1) for use with Stubs QPV 110 - QRV 110

(2) for use with Stubs QPV 160 - QRV 160



Blind flange for use with stubs QRV, QPV

d [mm]		20	25	32	40	50	63	75	90	110/125	140	160/180	200/225	250/280	315	
DN [mm]		15	20	25	32	40	50	65	80	100	125	150	200	250	300	Type
DIN2501-EN1092	PP/FRP*	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	ODBC

drilled PN10/16 up to DN150, drilled PN10 for DN>150



Backing ring ANSI for use with stubs QRV, QPV

d [mm]		20	25	32	40	50	63	75	90	110						
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"						Type
ANSI cl.150	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16						OAB

drilled PN10/16 up to DN150, drilled PN10 for DN>150

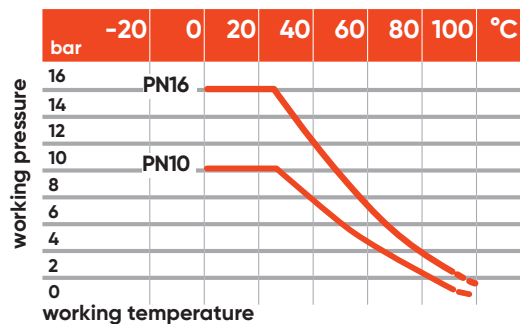


Blind Flange

d [mm]		20	25	32	40	50	63	75	90	110	
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ANSI cl: 150 PN	PP/FRP	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	OABC

PVC-C Fittings

Material Specifications and Technical Data













Pressure /Temperature rating for water and harmless fluids to which the material is resistant. In the other cases a reduction of the rated PN is required.

Material	PVC-C Chlorinated Polyvinylchloride (Corzan®)
Colour	Light Grey - RAL 215
Standards	<ul style="list-style-type: none"> • Solvent welding metric size according to: ISO 727, EN ISO 15493 for coupling to pipes complying with DIN 8079/8080 • Solvent welding plain tapered according to: ASTM F439 for coupling to pipes complying with ASTM D 1785/76 • Parallel threads according to: UNI ISO 228/1, EN 10226-1/2, BS 21 • Flanging according to: ISO 7005, DIN 8063, DIN 2501, EN ISO 1452, ANSI B16.5 150
Range	<ul style="list-style-type: none"> • Fittings for Solvent Welding: from d16 mm to d 225 mm • Threaded Fittings: from R^{3/8}" up to R2"
Maximum working pressure	16 bar (232 psi) with water at 20 °C (68 °F) In case of different working conditions see technical catalogue
Working temperature range	From 0 °C (32 °F) to 100 °C (212 °F)

Corzan® PVC-C is suitable to be used in contact with drinking water conforming to the following standards:
 - WRAS (Water Regulation Advisory Scheme) - UK
 - NSF (National Sanitation Foundation) - USA

For technical details, please, see FIP catalogues or visit our web site www.fipnet.com

	<p>FIP PVC-C pipes are acknowledged by IRH for ACS Certificate N. 02 MAT NY 128; FIP PVC-C fittings are acknowledged by IRH for ACS Certificate N. 01 MAT NY 064</p>
	<p>FIP PVC-C fittings are acknowledged by WRAS (Water Regulation Advisory Scheme - UK) Certificate N. M103019</p>
	<p>The TemperFIP100® PVC-C system is recognised as suitable for conveying and treating sanitary and conditioning water onboard ships and other units classified by the Bureau Veritas - Marine Division.</p>
	<p>FIP PVC-C fittings are acknowledged by NSF (National Sanitation Foundation) Certificate N. 11370/11371A</p>
	<p>The TemperFIP100® PVC-C system is recognised as suitable for conveying and treating sanitary and conditioning water onboard ships and other units classified by the American Bureau of Shipping (ABS).</p>
	<p>The TemperFIP100® PVC-C system is certified as suitable for coming into contact with water intended for human consumption according to the Attestation de conformité sanitaire (ACS).</p>
	<p>The TemperFIP100® PVC-C system is recognised as suitable for conveying and treating sanitary and conditioning water onboard ships and other units classified by DNV-GL.</p>
	<p>The TemperFIP100® PVC-C system is EAC certified in accordance with Russian regulations on Safety, Hygiene and Quality</p>
	<p>The TemperFIP100® PVC-C pipes and fittings are recognised as suitable for conveying and treating sanitary and conditioning water onboard ships and other units classified by Lloyd's Register.</p>
	<p>FIP TemperFIP100® PVC-C system has been recognised as suitable for conveying, treating domestic and air conditioning waters on board ships and other units classified by the KR (Korean Register of Shipping)</p>
	<p>TemperFIP100® PVC-C fittings are certified in accordance with Ukrainian regulations on Safety, Hygiene and Quality.</p>

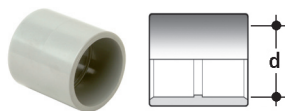
PVC-C Corzan® TemperFIP100® pressure pipe

According to EN ISO 15493 and DIN 8079-80, light grey RAL 215, standard length 5 m



d [mm]		16	20	25	32	40	50	63	75	90	110	160	110	160	225	Type
S (mm)		1,4	1,5	1,9	2,4	3,0	3,7	4,7	5,6	6,7	8,1	11,8	5,3	7,7	10,8	
SDR	PVC-C	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	13,6	21	21	21	PIPEC
PN		16	16	16	16	16	16	16	16	16	16	16	10	10	10	

Fittings for solvent welding - Equal



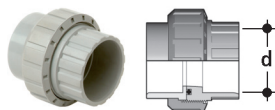
Double socket

d [mm]		16	20	25	32	40	50	63	75	90	110	160	225	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	200	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	MIC



End Cap

d [mm]		16	20	25	32	40	50	63	75	90	110	160	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	Type
ISO-METRIC for solvent welding	PVC-C	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	CIC

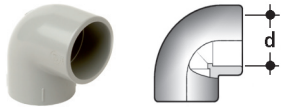


Socket union

d [mm]		16	20	25	32	40	50	63	75	90	110	160	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	n.a.	BIC

Note: O-Rings available in EPDM and FKM; see FIP Price lists and catalogues.

Fittings for solvent welding - Equal



Elbow 90°

d [mm]		16	20	25	32	40	50	63	75	90	110	160	225	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	200	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	GIC



Elbow 45°

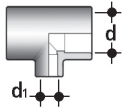
d [mm]		16	20	25	32	40	50	63	75	90	110	160	225	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	200	Type
ISO-METRIC for solvent welding	PVC-C	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	HIC



Tee 90°

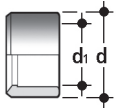
d [mm]		16	20	25	32	40	50	63	75	90	110	160	225	
DN [mm]		10	15	20	25	32	40	50	65	80	100	150	200	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	TIC

Fittings for solvent welding - Reducers



Tee 90° reducing

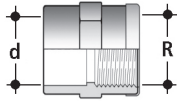
d [mm]		20	25	32	32	40	40	50	50	63	63	75	90	110				
d ₁ [mm]		16	20	20	25	20	25	25	32	25	32	25	25	25				Type
ISO-METRIC for solvent welding	PVC-C	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16				TRIC



Reducing bush

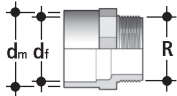
d [mm]		20	25	32	32	40	40	40	50	50	63	63	63	75	75	90	90	
d ₁ [mm]		16	20	20	25	20	25	32	32	40	32	40	50	50	63	50	63	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	DIC
d [mm]		90	110	110	110	160	225											
d ₁ [mm]		75	63	75	90	110	160											Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN10											DIC

Adaptor Fittings



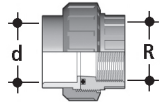
Double socket with reinforcing Stainless Steel ring

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	MIMC



Double adaptor socket/spigot male thread

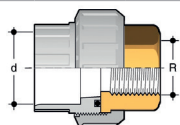
d _m [mm]		20	25	32	40	50	63	75	
d _f [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	KIFC



Socket union

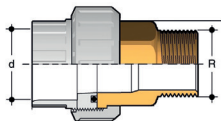
d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIFC

Adaptor Fittings



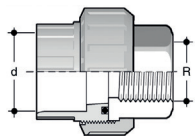
Adaptor union in plastic/brass with threaded brass female end

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIFOC



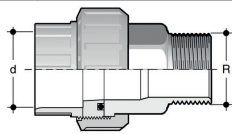
Adaptor union in plastic/brass with threaded brass male end

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP (male thread)	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIROC



Adaptor union in plastic/stainless steel with threaded stainless steel female end

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIFXC

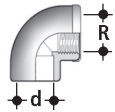


Adaptor union in plastic/stainless steel with threaded stainless steel male end

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP (male thread)	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIRXC

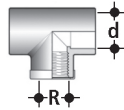
Note: O-Rings and flat gaskets available: see FIP Price lists and catalogues.

Adaptor Fittings



Elbow 90° with reinforcing Stainless Steel ring

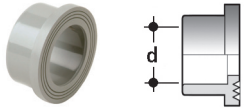
d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	GIMC



Tee 90° with reinforcing Stainless Steel ring

d [mm]		16	20	25	32	40	50	63	
R [BSP]		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	TIMC

Stubs



Serrated face stub (for use with flat gaskets)

d [mm]		20	25	32	40	50	63	75	90	110	125	140	160	225	
DN [mm]		15	20	25	32	40	50	65	80	100	110	125	150	200	Type
ISO-METRIC for solvent welding	PVC-C	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN10	QRC

Flanges



Backing ring

d [mm]		20	25	32	40	50	63	75	90	110	125	140	160	
DN [mm]		15	20	25	32	40	50	65	80	100	110	125	150	Type
DIN8063-DIN2501 drilled PN10/16	PVC-C	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	n.a.	n.a.	n.a.	ODC

Steel Core Flanges for PVC-C

Steel core backing ring for use with stubs QRC



d [mm]		20	25	32	40	50	63	75	90	125 (1)	140	180 (2)	225	
DN [mm]		15	20	25	32	40	50	65	80	100	125	150	200	Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA16	OAB

(1) for use with Stubs QRC 110

(2) for use with Stubs QRC 160

Steel core blind flange for use with stubs QRC



d [mm]		20	25	32	40	50	63	75	90	110/125	160/180	200/225	
DN [mm]		15	20	25	32	40	50	65	80	100	150	200	Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	OABC

Steel core backing ring ANSI for use with stubs QRC



d [mm]		20	25	32	40	50	63	75	90	110			
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"			Type
ANSI cl.150	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16			OAB

Steel core blind flange



d [mm]		20	25	32	40	50	63	75	90	110			
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"			Type
ANSI cl: 150 PN	PP/FRP	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16			OABC







Note: PMA= maximum allowable operating pressure, to be considered when choosing the gaskets.

PP-H Fittings - Socket Fusion

Material Specifications and Technical Data

Material	PP-H Polypropylene homopolymer
Colour	Beige - RAL 7032
Standards	<ul style="list-style-type: none">• Socket Fusion according to: DIN 8077/8078, EN ISO 15494, BS 4991• Parallel threads according to: UNI ISO 228-1, DIN 2999 BS 21• Flanging according to: ISO 7005, DIN 8063, DIN 2501, ANSI B16.5 cl. 150
Range	<ul style="list-style-type: none">• Fittings for Socket Fusion: from d20 mm to d110 mm,• Threaded fittings: from R3/8" up to R2"
Maximum working pressure	10 bar (145 psi) with water at 20 °C (68 °F) In case of different working conditions see technical catalogue
Working temperature range	From 0 °C (32 °F) to 100 °C (212 °F)

Approvals and Quality Marks

	FIP PP-H valves have been tested and certified by DIBt (Deutsches Institut für Bautechnik)
	FIP PP-H valves are EAC certified in accordance with Russian regulations on Safety, Hygiene and Quality
	FIP PP-H valves have been recognised as suitable for conveying, treating domestic and air conditioning waters on board ships and other units classified by RINA.
	FIP PP-H valves have been tested and certified according to "TA-Luft" by MPA Stuttgart in compliance with the Technical Instruction on Air Quality Control TA-Luft/ VDI 2440
	FIP PP-H valves and fittings are certified in accordance with Ukrainian regulations on Safety and Quality
	FIP PVC-U fittings have been recognised as suitable for conveying drinking water by the NIZP (National Institute of Public Health - Poland)

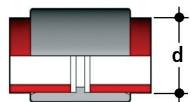
Fittings for socket fusion - Equal



Pipe PP-H pressure pipe according to DIN 8077/8078

d [mm]		12	16	20	25	32	40	50	63	75	90	110	125	140	160	
DN [mm]		8	12	15	20	25	32	40	50	65	80	100	100	125	150	Type
	PP-H	SDR 11 n.a	SDR 11 n.a	SDR 11 n.a	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	PIPEM
d [mm]		180	200	225	250	280	315	355	400	450	500	560	630	710	800	
DN [mm]		150	200	200	250	250	300	350	400	500	500	600	600	700	800	Type
	PP-H	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	SDR 11 SDR 17	n.a SDR 17	n.a SDR 17	n.a SDR 17	n.a SDR 17	PIPEM

Fittings for socket fusion - Equal



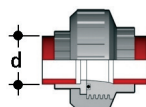
Double socket

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	MIM



End Cap

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	CIM

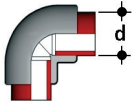


Socket union

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	n.a.	n.a.	n.a.	BIGM

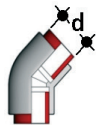
Notes: BIGM union threads BSP

Fittings for socket fusion - Equal



Elbow 90°

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	GIM



Elbow 45°

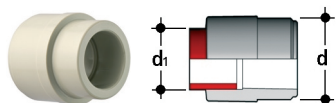
d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	HIM



Tee 90°

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	TIM

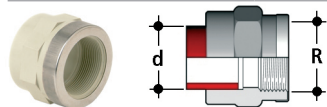
Fittings for socket fusion - Reducers



Reducer

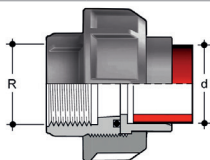
d [mm]		25	32	32	40	40	50	50	63	63	75	
d ₁ [mm]		20	20	25	25	32	32	40	32	50	50	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	RIM
d [mm]		75	90	90	110	110						
d ₁ [mm]		63	63	75	63	90						Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10						RIM

Fittings for socket fusion - Adaptors



Double socket with reinforcing Stainless Steel ring

d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	MIMM

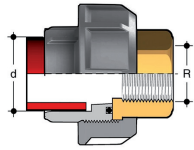


Union for socket welding with threaded female end

d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	BIFGM

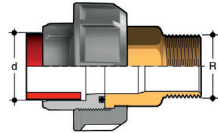
Note: union thread trapezoidal

Fittings for socket fusion - Adaptors



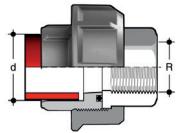
Adaptor union in plastic/brass with threaded brass female end

d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	BIFOM



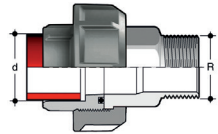
Adaptor union in plastic/brass with threaded brass male end

d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP (male thread)	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	BIROM



Adaptor union in PP-H/Stainless steel for socket welding (d), BSP (R) threaded A316L stainless steel female end with o-ring in EPDM or FKM

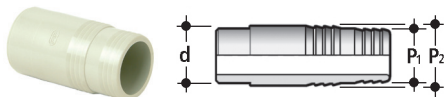
d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP (male thread)	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	BIFXM



Adaptor union in PP-H/Stainless steel for socket welding (d), BSP (R) threaded A316L stainless steel male end with o-ring in EPDM or FKM

d [mm]		20	25	32	40	50	63	
R [BSP]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Type
ISO-BSP (male thread)	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	BIRXM

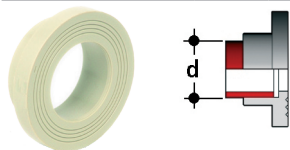
Fittings for socket fusion - Adaptors



Adaptor union in plastic/brass with threaded brass female end

d [mm]		20	25	32	40	50	63	
P1 [mm]		20	25	30	40	50	60	
P2 [mm]		22	27	32	42	52	64	Type
ISO-METRIC	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	AIM

Fittings for socket fusion - Stubs



Serrated face stub (for use with flat gaskets)

d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PP-H	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	QRNM
Size [inch]			3/4"	1"	1 1/4"	1 1/2"			3"		
DN [mm] for use with ANSI cl.150 backing ring OAB	PP-H		PN10	PN10	PN10	PN10			PN10		GRAM (*)

(*) for the missing sizes QRNM can fit

Note: Flat gaskets available: see FIP Price lists and catalogues.

Steel Core Flanges for PP-H



Backing ring for use with stubs QRNM

d [mm]		20	25	32	40	50	63	75	90 (1)	125 (2)			
DN [mm]		15	20	25	32	40	50	65	80	100			Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16			ODB

(1) for use with Stubs FIP QRNM d90 only
 (2) for use with Stubs FIP QRNM d110 only



Blind flange for use with stubs QRNM

d [mm]		20	25	32	40	50	63	75	90	110/125			
DN [mm]		15	20	25	32	40	50	65	80	100			Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10			ODBC



Backing ring ANSI for use with stubs QRNM

d [mm]		20	25	32	40	50	63	75	90	110			
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"			Type
ANSI cl.150	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16			OAB

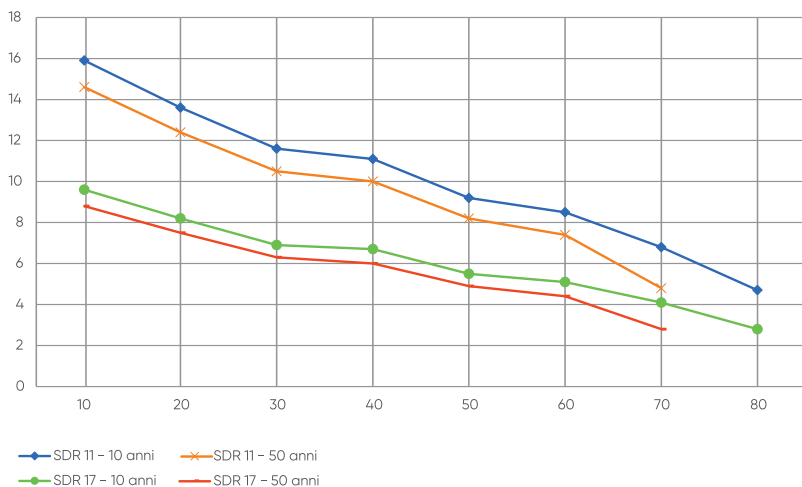
(1) to be used with stubs QRNM
 (2) to be used with stubs QRAM

Note: PMA = maximum allowable operating pressure, to be considered when choosing the gaskets

PP-H Fittings - Butt welding

Material Specifications and Technical Data

Grafico p-T



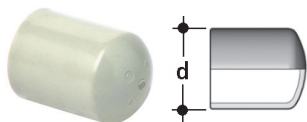
Pressure / Temperature rating for water and harmless fluids to which the material is resistant. In the other cases a reduction of the rated PN is required.

Material	PP-H Polypropylene homopolymer
Colour	Beige - RAL 7032
Standards	<ul style="list-style-type: none"> • Butt Welding according to: DIN 8077/8078, EN ISO 15494, BS 4991 • Flanging according to: ISO 7005, DIN 8063, DIN 2501, ANSI B16.5 cl. 150 • Parallel threads according to: UNI ISO 228-1, DIN 2999, BS 2
Range	<ul style="list-style-type: none"> • Fittings for Butt Welding: from d20 mm to d400 mm • Threaded Fittings: from R3/8" up to R2"
Maximum working pressure	<ul style="list-style-type: none"> • SDR11: 12,9 bar (181 psi) with water at 20 °C (68 °F) • SDR17,6: 7,8 bar (109 psi) with water at 20 °C (68 °F) In case of different working conditions see technical catalogue
Working temperature range	From 0 °C (32 °F) to 100 °C (212 °F)

For technical details, please, see FIP catalogues or visit our web site www.fipnet.com.

Fittings for butt welding - Equal

End Cap



d [mm]		20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	
DN [mm]		15	20	25	32	40	50	65	80	100	100	125	150	150	200	200	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	CBM
		n.a.	n.a.	n.a.	n.a.	n.a.	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	
d [mm]		250	280	315	335	400	450	500	560	630	710	800					
DN [mm]		250	250	300	355	400	450	500	560	630	710	800					Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	n.a.	n.a.	n.a.	n.a.					CBM
		SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3	SDR17,6 - S8,3					

*from d20 to d225 long spigot, then short spigot

Union

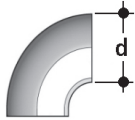


d [mm]		20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	
DN [mm]		15	20	25	32	40	50	65	80	100	100	125	150	150	200	200	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	BBM/L
ISO-METRIC for butt welding	PP-H	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	SDR11-S5 PN10	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	BBM/C

Notes: BBM/L long spigot
BBM/C short spigot
With oring in EPDM/FPM

Fittings for butt welding - Equal

Bend 90°



d [mm]		20	25	32	40	50	63	75	90	110	125	140	
DN [mm]		15	20	25	32	40	50	65	80	100	100	125	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	GBM
		n.a.	n.a.	n.a.	n.a.	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d [mm]		160	180	200	225	250	280	315	355	400	450	500	
DN [mm]		150	150	200	200	250	250	300	350	400	450	500	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	GBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	

Notes: *short spigot

Fittings for butt welding - Equal

Bend 45°

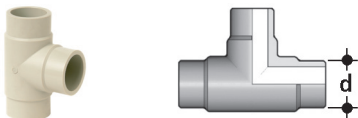
aggiungere immagine

tabella è ok, ci sono 32 dimensioni di HBM

d [mm]		20	25	32	40	50	63	75	90	110	125	
DN [mm]		15	20	25	32	40	50	65	80	100	100	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	HBM
		n.a.	n.a.	n.a.	n.a.	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d [mm]		140	160	180	200	225	250	280	315			
DN [mm]		125	150	150	200	200	250	250	300			Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5		HBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3		

Notes: *short spigot

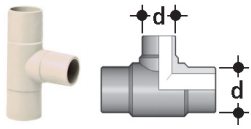
Tee 90°



d [mm]		20	25	32	40	50	63	75	90	110	125	140	
DN [mm]		15	20	25	32	40	50	65	80	100	100	125	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	TBM
		n.a.	n.a.	n.a.	n.a.	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d [mm]		160	180	200	225	250	280	315	355	400	450	500	
DN [mm]		150	150	200	200	250	250	300	350	400			Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	TBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	

Notes: *short spigot

Fittings for butt welding - Reducers

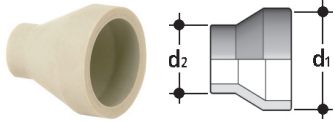


T 90° Reducer

d [mm]		63	75	75	75	90	90	90	90	110	110	
d1 [mm]		50	32	50	63	32	50	63	75	32	50	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* n.a.	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	TRBM
d [mm]		110	110	110	125	125	125	140	140	140	140	
d1 [mm]		63	75	90	63	90	110	63	75	90	110	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	TRBM
d [mm]		160	160	160	160	160	180	180	180	180	180	
d1 [mm]		63	75	90	110	125	63	75	90	110	125	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	TRBM
d [mm]		200	200	200	200	200	225	225	225	225	225	
d1 [mm]		63	90	110	125	160	75	90	110	125	160	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* SDR17,6-S8,3*	SDR11-S5 SDR17,6-S8,3	SDR11-S5* SDR17,6-S8,3*	TRBM
d [mm]		225	250	250	315	315	315	315				
d1 [mm]		180	110	160	110	160	225	250				Type
ISO-METRIC for butt welding	PP-H	SDR11-S5* SDR17,6-S8,3*	SDR11-S5* n.a.	SDR11-S5* n.a.	SDR11-S5* n.a.	SDR11-S5* n.a.	SDR11-S5* n.a.	SDR11-S5* n.a.				TRBM

* long spigot

Fittings for butt welding - Reducers

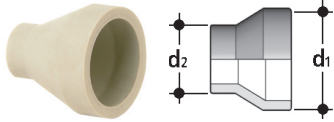


Reducer

d1 [mm]		25	32	32	40	40	40	50	50	50	63	
d2 [mm]		20	20	25	20	25	32	25	32	40	32	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		63	63	75	75	75	75	90	90	90	110	
d2 [mm]		40	50	32	40	50	63	50	63	75	50	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	n.a.	n.a.	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		110	110	110	125	125	125	125	140	140	140	
d2 [mm]		63	75	90	63	75	90	110	75	90	110	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		140	160	160	160	160	180	180	180	180	180	
d2 [mm]		125	90	110	125	140	90	110	125	140	160	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		200	200	200	225	225	225	225	250	250	250	
d2 [mm]		140	160	180	140	160	180	200	160	180	200	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		250	280	280	280	315	315	315	315	355	355	
d2 [mm]		225	200	225	250	200	225	250	280	200	225	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		355	355	355	400	400	400	400	400			
d2 [mm]		250	280	315	225	250	280	315	355			Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5		RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3		

* short spigot

Fittings for butt welding - Reducers

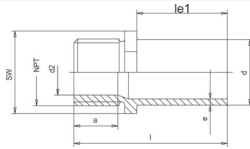


Reducer

d1 [mm]		450	450	450	450	500	500	500	500	560	560	
d2 [mm]		280	315	355	400	315	355	400	450	400	450	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	SDR11-S5	n.a	n.a	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		560	630	630	630	630	710	710	710	800	800	
d2 [mm]		500	400	450	500	560	500	560	630	560	630	Type
ISO-METRIC for butt welding	PP-H	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	RBM
		SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	SDR17,6-S8,3	
d1 [mm]		800										
d2 [mm]		710										Type
ISO-METRIC for butt welding	PP-H	n.a										RBM
		SDR17,6-S8,3										

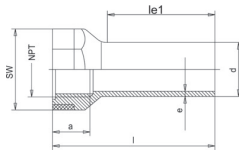
* short spigot

Fittings for butt welding - Adaptors



Adaptor BSP® threaded male end

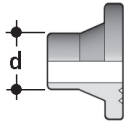
d [mm]		20	25	25	32	32	32	40	40	40	50	50	50	50	63	75	
R [BSP]		1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	1 1/4"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	Type
ISO Butt welding - BSP	PP-H	SDR11-S5 PN10	n.a.	SDR11-S5 PN10	n.a.	n.a.	SDR11-S5 PN10	n.a.	n.a.	SDR11-S5 PN10	n.a.	n.a.	n.a.	SDR11-S5 PN10	SDR11-S5 PN10	n.a.	KBFM



Adaptor BSP® threaded female end

d [mm]		20	25	25	32	32	32	40	40	40	50	50	50	50	63	75	
R [BSP]		1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	1 1/4"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	Type
ISO Butt welding - BSP	PP-H	SDR11-S5 PN10	n.a.	SDR11-S5 PN10	n.a.	n.a.	SDR11-S5 PN10	n.a.	n.a.	SDR11-S5 PN10	n.a.	n.a.	n.a.	SDR11-S5 PN10	SDR11-S5 PN10	n.a.	DBMM

Fittings for butt welding – Stubs



Serrated face stub (for use with flat gaskets)

d [mm]		20	25	32	40	50	63	75	90	110	125	
DN [mm]		15	20	25	32	40	50	65	80	100	100	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5 n. a.	SDR11-S5 n. a.	SDR11-S5 n. a.	SDR11-S5 n.a.	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	QBM
d [mm]		140	160	180	200	225	250	280	315	355	400	
DN [mm]		125	150	150	200	200	250	250	300	350	400	Type
ISO-METRIC for butt welding	PP-H	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	QBM
d [mm]		450	500	560	630	800						
DN [mm]		450	500	560	630	800						Type
ISO-METRIC for butt welding	PP-H	SDR11-S5 SDR17,6-S8,3	SDR11-S5 SDR17,6-S8,3	n. a. SDR17,6-S8,3	n. a. SDR17,6-S8,3	n. a. SDR17,6-S8,3						QBM
Size [inch]			3/4"	1"	1 1/4"	1 1/2"	3"					
DN [mm]			20	25	32	40	80					Type
for use with ANSI cl.150 backing ring OAB	PP-H		SDR 11 n. a.	SDR 11 n. a.	SDR 11 SDR 17,6	SDR 11 SDR 17,6	SDR 11 SDR 17,6					QBM (*)

(*) for the missing sizes QBM can fit

* short spigot

Flanges



Backing ring

d [mm]		20	25	32	40	50	63	75	90	110	125	
DN [mm]		15	20	25	32	40	50	65	80	100	100	Type
DIN2501 drilled PN10/16 up to d180, PN10 from d200 up to d400	PP/FRP*	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	ODB
d [mm]		140	160	180	200	225	250	280	315	355	400	
DN [mm]		125	150	150	200	200	250	250	300	350	400	Type
DIN2501 drilled PN10/16 up to d180, PN10 from d200 up to d400	PP/FRP*	PMA16	PMA16	PMA16	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	ODB
d [mm]		20	25	32	40	50	63	75	90	110	125	
DN [mm]		15	20	25	32	40	50	65	80	100	110	
Size [inch]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"		Type
ANSI B16.5 cl.150 drilled	PP/FRP*	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	PMA16	n.a.	OAB
d [mm]		140	160	200	250	315						
DN [mm]		125	150	200	250	300						
Size [inch]			6"	8"	10"	12"						Type
ANSI B16.5 cl.150 drilled	PP/FRP*	n.a.	PMA16	PMA10	PMA10	PMA10						OAB

* with steel core

Note: PMA =maximum allowable operating pressure, to be considered when choosing the gaskets

Flanges

Blind flange



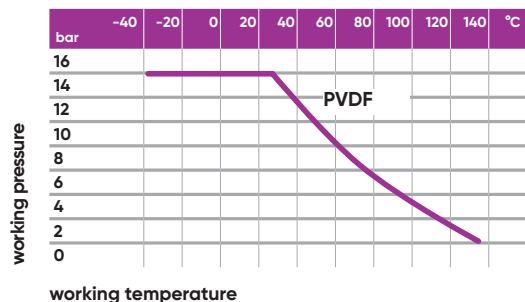
d [mm]		20	25	32	40	50	63	75	90	110	125	
DN [mm]		15	20	25	32	40	50	65	80	100	100	Type
DIN2501 drilled PN10/16 up to d180, PN10 from d200 up to d400	PP/FRP*	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	ODBC
d [mm]		140	160	180	200	225	250	280	315	355	400	
DN [mm]		125	150	150	200	200	250	250	300	350	400	Type
DIN2501 drilled PN10/16 up to d180, PN10 from d200 up to d400	PP/FRP*	PMA 10	PMA 10	PMA 10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	PMA10	ODBC

* with steel core

Note: PMA =maximum allowable operating pressure, to be considered when choosing the gaskets

PVDF FITTINGS

Material Specifications and Technical Data



Pressure / Temperature rating for water and harmless fluids to which the material is resistant.
In the other cases a reduction of the rated PN is required.

Material	PVDF Polyvinylidene Fluoride - Compound SOLEF® 1008 Solvay
Colour	Translucent white - Natural
Standards	<ul style="list-style-type: none"> • Socket Fusion according to: ISO 10931 for coupling to pipes complying with ISO 10931 • Flanging according to: ISO 7005, DIN 8063, DIN 2501, ANSI B16.5 cl. 150
Range	<ul style="list-style-type: none"> • Fittings for Socket Fusion: from d16 mm to d110 mm
Maximum working pressure	16 bar (232 psi) with water at 20 °C (68 °F) In case of different working conditions see technical catalogue
Working temperature range	From -40 °C (-40 °F) to 140 °C (284 °F)

Solef® PVDF compound is suitable to be used in contact with foodstuff and drinking water conforming to the following standards:

- F.D.A. n. 21 CFR 177.2510 (Food and Drugs Administration) - USA
- Thames Water Services - UK
- KTW Institut Kunststoff fuer Trinkwasser - Germany

For technical details, please, see FIP catalogues or visit our web site www.fipnet.com.

Approvals and Quality Marks

	<p>Suitability of the SOLVAY PVDF Solef® resin for microbiological tests</p>
	<p>Suitability of the SOLVAY PVDF Solef® resin for contact with food</p>
	<p>Suitability of the SOLVAY PVDF Solef® resin for use in contact with drinking water</p>
	<p>FIP PVDF Solef® valves have been tested and certified by DIBt (Deutsches Institut für Bautechnik)</p>
	<p>PVDF Solef® valves and fittings are EAC certified in accordance with Russian regulations on Safety, Hygiene and Quality</p>
	<p>FIP PVDF Solef® valves have been tested and certified according to "TALuft" by MPA Stuttgart in compliance with the Technical Instruction on Air Quality Control TA-Luft/ VDI 2440</p>
	<p>PVDF Solef® valves and fittings are certified in accordance with Ukraineregulations on Safety, Hygiene and Quality</p>
	<p>Suitability of the SOLVAY PVDF Solef® resin for use in contact with drinking water</p>

PVDF PRESSURE PIPE

According to ISO 10931, translucent white, standard length 5m



d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	SDR21	SDR21	SDR21	SDR21	SDR21	SDR21	SDR21	SDR21	SDR21	SDR21	PIPEF
		n.a	n.a	n.a	n.a	n.a	n.a	SDR33	SDR33	SDR33	SDR33	

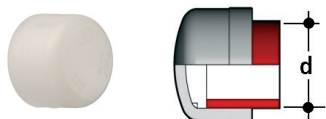
Fittings for socket fusion

Double socket



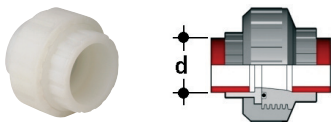
d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	MIF

End Cap



d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	CIF

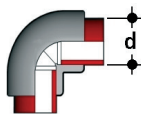
Socket union



d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	n.a.	n.a.	n.a.	BIF

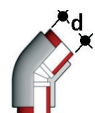
Note: union thread trapezoidal

Fittings for socket fusion



Elbow 90°

d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	GIF



Elbow 45°

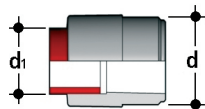
d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	n.a.	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	HIF

Fittings for socket fusion



Tee 90°

d [mm]		16	20	25	32	40	50	63	75	90	110	
DN [mm]		10	15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	TIF

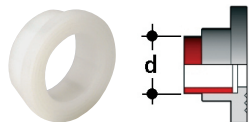


Reducer

d [mm]		20	25	32	40	40	50	50	63	63	75	90	90	110	
d1 [mm]		16	20	25	25	32	32	40	32	50	63	63	75	90	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	RIF

Stubs

Serrated face stub (for use with flat gaskets)

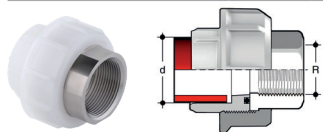


d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	QRNF
Size [inch]			3/4"	1"	1 1/4"	1 1/2"			3"		
DN [mm]			20	25	32	40			80		Type
for use with ANSI cl.150 backing ring OAB	PVDF		PN16	PN16	PN16	PN16			PN16		QRAF (*)

(*) for the missing sizes QRNF can fit

Note: Flat gaskets available: see FIP Price lists and catalogues.

Adaptor fittings



Adaptor union in PVDF/STAINLESS steel for socket welding (D),
BSP (R) threaded A316L Stainless steel female end

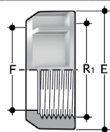
d x R		20 x 1/2"	25 x 3/4"	32 x 1"	40 x 1"1/4	50 x 1"1/2	63 x 2"	20 x 1/2"	25 x 3/4"	
R1		1"	1"1/4	1"1/2	2"	2"1/4	2"3/4	1"	1"1/4	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	PN16	BIFXF

Adaptor union in PP-H/STAINLESS steel for socket welding (D), BSP (R) threaded A316L
Stainless steel male end



d x R		50 x 1"1/2	63 x 2"	
R1		2"1/4	2"3/4	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	BIRXF

Fittings



Union nut with BSP thread

R		1"	1"1/4	1"1/2	2"	2"1/4	2"3/4	
d BIGF		20	25	32	40	50	63	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	EFGF

Union bush

d		20	25	32	40	50	63	
R1		1"	1"1/4	1"1/2	2"	2"1/4	2"3/4	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	FBIGF

Union end in A316L Stainless steel with female BSP thread

R		3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	
d3		22	27,5	36	41,5	53	59	74	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	QBFX

Union end in A316L Stainless steel with male BSP thread

R		3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	
d3		22	27,5	36	41,5	53	59	74	Type
ISO-METRIC for socket fusion	PVDF	PN16	PN16	PN16	PN16	PN16	PN16	PN16	QBRX

Steel Core Flanges for PVDF

Backing ring for use with stubs QRNF



d [mm]		20	25	32	40	50	63	75	90 (1)	125 (2)	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	ODB

Blind flange for use with stubs QRNF



d [mm]		20	25	32	40	50	63	75	90	110	
DN [mm]		15	20	25	32	40	50	65	80	100	Type
DIN2501-EN1092 drilled PN10/16	PP/FRP*	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	PMA 10	ODBC

Backing ring ANSI



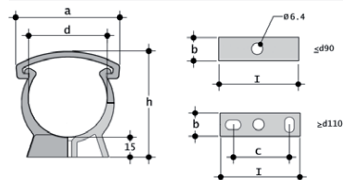
d [mm]		20 (1)	25 (2)	32 (2)	40 (2)	50 (2)	63 (1)	75 (1)	90 (2)	110 (1)	
DN [mm]		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	Type
ANSI cl.150	PP/FRP*	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	PMA 16	OAB

(1) to be used with stubs QRNF

(2) to be used with stubs QRAF

Note: PMA = maximum allowable operating pressure, to be considered when choosing the gaskets

Pipe Clips



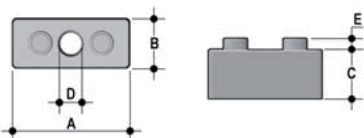
Clip

d [mm]	16	20	25	32	40	50	63	75	90	110	125	140	160	180	Type ZIKM
a [mm]	26	33	41	49	58	68	83	96	113	139	158	177	210	237	
b [mm]	18	14	14	15	16	17	18	19	20	23	25	27	30	33	
h [mm]	33	38	44	51	60	71	84	97	113	134	151	167	190	211	
l [mm]	16	20	25	32	40	50	63	75	90	125	140	155	180	200	

d [mm]	3/8***	1/2***	3/4***	1***	1"1/4**	1"1/2**	2***	2"1/2**	3***	4***	6***				Type ZAKM
a [mm]	26	33	41	49	58	68	83	96	118	140	197				
b [mm]	13	14	14	15	16	17	18	19	20	25	30				
c [mm]	-	-	-	-	-	-	-	-	-	60	90				
h [mm]	34	39	45	52	61	67	80	96	110	135	196				
l [mm]	16	20	25	32	40	50	63	75	90	140	180				

**resale product

Distance plate



d [mm]	32	40	50	63	75	Type DSM
A [mm]	33	41	51	64	76	
B [mm]	16	17	18	19	20	
C [mm]	14	17	17	22,5	34,5	
D [mm]	8	8	8	8	8	
E [mm]	4	4	4	4	4	

Note: Pipe clips and distance plates are in PP



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