

pvdf-uhp pipes and fittings - metric sizes

AGRU high purity pipes, fittings and valves are produced on dedicated production lines separated from all other manufacturing areas. Precise controls on manufacturing and thorough testing ensures that minimal contamination levels are not exceeded.

Pipes are carefully cut to length without producing swarf, capped off and packed to prevent dust contamination. Fittings and valves are thoroughly washed then double bagged to ensure they arrive on site free from any contamination.

Fittings are available in socket fusion or fusion spigot forms. The fusion spigot fittings are particularly suitable for high purity applications, as special welding techniques (HPF electrofusion or infra-red) permit joints to be made with minimal contamination.



Pipe

SDR 33/S-16/PN10					SDR 21/S-10/PN16				
Size	Wall (mm)	kg/m	Code	Price/m	Wall (mm)	kg/m	Code	Price/m	
20	-	-	-	-	1.9	0.21	35 705 0020 21	18.17	
25	-	-	-	-	1.9	0.27	35 705 0025 21	23.21	
32	-	-	-	-	2.4	0.44	35 705 0032 21	37.97	
40	-	-	-	-	2.4	0.55	35 705 0040 21	47.39	
50	-	-	-	-	3.0	0.85	35 705 0050 21	73.48	
63	-	-	-	-	3.0	1.09	35 705 0063 21	93.96	
75	-	-	-	-	3.6	1.55	35 705 0075 21	133.70	
90	2.8	1.48	35 705 0090 33	127.55	4.3	2.22	35 705 0090 21	191.88	
110	3.4	2.20	35 705 0110 33	189.82	5.3	3.32	35 705 0110 21	286.78	
125	3.9	2.84	35 705 0125 33	245.14	6.0	4.24	35 705 0125 21	365.32	
140	4.3	3.52	35 705 0140 33	303.86	6.7	5.31	35 705 0140 21	458.17	
160	4.9	4.54	35 705 0160 33	391.25	7.7	6.96	35 705 0160 21	600.20	
180	5.5	5.74	35 705 0180 33	495.05	8.6	8.74	35 705 0180 21	753.83	
200	6.2	7.19	35 705 0200 33	619.99	9.6	10.83	35 705 0200 21	925.89	
225	6.9	8.95	35 705 0225 33	771.57	10.8	13.67	35 705 0225 21	1178.53	
250	7.7	11.09	35 705 0250 33	955.93	11.9	16.73	35 705 0250 21	1442.09	
280	8.6	13.86	35 705 0280 33	1194.92	13.4	21.30	35 705 0280 21	1840.86	
315	9.7	17.55	35 705 0315 33	1513.11	-	-	-	-	

Standard length 5 metres.



Pipework Support

PVDF pipework requires more support than for metallic systems. As working temperature increases, the distance between supports is reduced.

PN10 Pipe Size	Support Centres/m			
	20°C	60°C	100°C	140°C
16	0.85	0.75	0.65	0.55
20	0.95	0.80	0.70	0.60
25	1.00	0.90	0.80	0.70
32	1.10	0.95	0.85	0.75
40	1.25	1.10	0.95	0.80
50	1.40	1.20	1.10	0.95
63	1.50	1.30	1.15	1.00
75	1.65	1.40	1.25	1.10
90	1.80	1.55	1.35	1.20
110	2.00	1.75	1.55	1.30

Temperature De-Rating factors

Pressure ratings for PVDF pipework systems are always quoted at 20°C. As working temperature increases, the maximum working pressure decreases by the factor indicated.

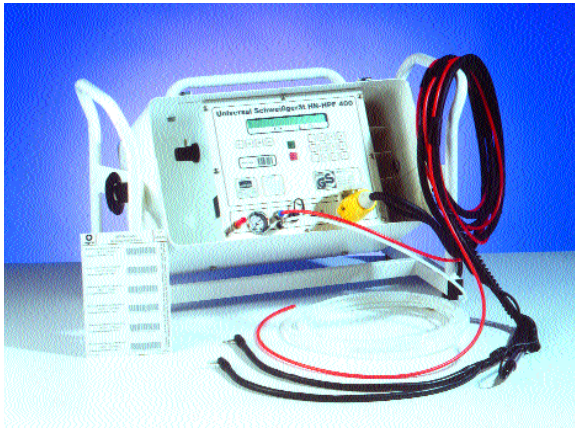
For short term operating temperatures not listed, please enquire.

Working Temperature (°C)	Pressure De-Rating Factor
20	1.00
30	0.90
40	0.82
50	0.74
60	0.66
70	0.56
80	0.51
90	0.44
100	0.39
110	0.34
120	0.29
130	0.24
140	0.19

HPF Electrofusion Socket



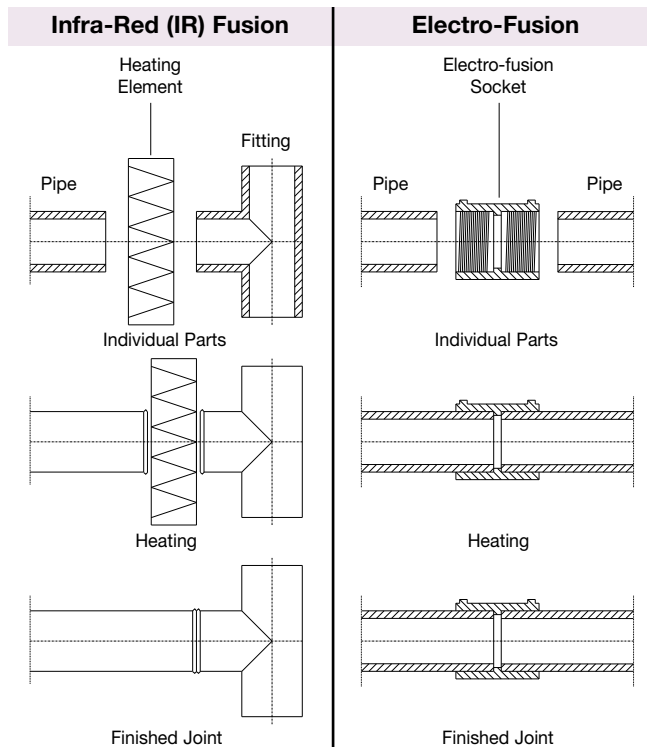
Size	Code	Price
20	35073 0020 21	11.19
25	35073 0025 21	11.53
32	35073 0032 21	12.77
40	35073 0040 21	13.93
50	35073 0050 21	14.89
63	35073 0063 21	19.12



HPF 400 Electrofusion Welding Equipment - available for sale or hire.

Joining PVDF Systems

PVDF-UHP pipe to pipe and pipe to fitting joints are easy to make, using IR fusion or electrofusion welds, with or without a balloon.



Welding equipment is available for sale or hire. See Tools and Installation Equipment. Detailed installation instructions, as well as free training, is available on request.