

# STOKPLAS - DEDICATED TO QUALITY

Stokplas is a leading distributor of industrial thermoplastic pipework systems. Our excellent reputation has been earned through the supply of first class materials to industry, backed by personal service and expertise.

## Expertise in Plastics

Our staff can provide independent advice on all of our products and their applications, providing proven solutions backed with full Manufacturer's support and warranty. With the skilled project management team, customers have the assurance of meeting tight deadlines or delivery requirements, liaising with others involved in the project and receiving what they need, when they need it.

## Stokplas knowledge, stockholding and service set the standard

The range of Stokplas products for the manufacturing and process industries is not just limited to those contained in this Price Guide. Stokplas is part of the Crossling Group of Companies who are one of the UK's leading independent plumbing and pipeline merchants. This enables Stokplas to also provide your requirements for steel, brass or copper fittings, valves and ancillary pipeline equipment and tools for all trades. You can have them in the same delivery, on the same advice note and invoice. What could be simpler? You can also use your Stokplas account to purchase from any Crossling Branch or from Northern Tools & Accessories.



With instant availability from extensive stocks, we provide fast, efficient delivery. We have the belief that all our customers are of equally high importance to us, each with their own unique requirements and we endeavour to not only meet, but also exceed your expectations.

We aim to provide an excellent service to you and your company, maintaining a prompt and thoughtful attitude. We ensure a high level of technical support, with continuous staff training, so that we can help you to make the correct and cost effective buying decisions. Our service is further enhanced with the technical support of our manufacturing partners. We can provide you with help and advice throughout all stages of a project, from design to commissioning; and we can back this up with site visits. Stokplas are recognised industry specialists and are A1 distributors of George Fischer products.

## Quality Assurance

We understand the importance that many companies attach to quality. For this reason we operate a strict quality system approved to BS EN ISO 9001:2000.



## Mission Statement

Our aim is to excel as a supplier to a wide customer base made up of organisations from commercial and industrial sectors and local authorities. To be the market leaders in reliability, quality and efficiency through continued commitment to product quality, stock holding, customer service and employee development.

## Opening Hours

We're just a phone call away, telephone 01302 342121 8am to 5pm Monday to Friday or fax your enquiries to 01302 556950 or e-mail: [stokplas@crossling.co.uk](mailto:stokplas@crossling.co.uk).

## Purchasing

We have no minimum order size. If you don't have an account, please call us for an application form. We accept credit cards, including Visa and MasterCard; or corporate purchase cards, debit cards, cheques or cash. Please call 01302 342121.

## Training

Stokplas provides training for installation and jointing techniques, on-site or in-house and at our suppliers' premises.



## Distribution

We provide distribution using our own transport; we can be flexible enough to cater for all deliveries, large or small and we offer a next day carrier service for those really urgent requirements.

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**PLEASE NOTE:**  
Whilst every care has been taken to ensure that the descriptions and prices quoted in this Price Guide are accurate we cannot be held responsible for any errors or omissions. Items are invoiced at the price ruling at the date of despatch unless otherwise agreed.

**FLOW CONTROL SOLUTIONS**

Trusted worldwide for quality of manufacture GF products are simple to operate and provide multiple solutions for virtually all fluid processing requirements.

We are dedicated to designing, manufacturing and marketing piping systems for the safe and secure conveyance of liquids and gases. GF also provides innovative solutions for connection systems and flow control.

[www.georgefisher.co.uk](http://www.georgefisher.co.uk)

**+GF+**

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**Durapipe UK Industrial Pipework Systems**

- Durapipe abs** Low temperature water transportation
- Durapipe pc-c** Process chemicals & industrial fluid handling
- Durapipe corzan** C-pvc system for hot corrosive fluids
- Vulcathene** Safe chemical drainage
- friatherm** Hot and cold pipework system. Quick and easy installations of hot and cold water pipework.
- friaphon** Sound attenuated drainage. Sound attenuated drainage system with no need for lagging.

Call us on 01543 279909  
[enquiries@durapipe.co.uk](mailto:enquiries@durapipe.co.uk)  
or visit the website [www.durapipe.co.uk](http://www.durapipe.co.uk)

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**PVDF**  
Polyvinylidene Fluoride

**SIZES RANGE:** Fittings 16-110mm Pipe to 400mm  
**TEMPERATURE RANGE:** -40°C to +140°C  
**RESISTANT TO:** Abrasion, inorganic acids and bases and to aliphatic and aromatic hydrocarbons, organic acids, alcohols and halogenated solvents. Very low heat conductivity.  
**RECOMMENDED APPLICATIONS:**  
 Suitable for the delivery of pharmaceutical grade purified water (PW) and DI water, using hot water, steam chemical or ozone sanitisation. Due to its excellent chemical resistance it is widely used in chemical distribution systems. Polyvinylidene Fluoride (PVDF) is a unique thermoplastic with properties, which allow it to be used for very aggressive or highly specialised applications. Although expensive compared to other thermoplastics, PVDF offers an economically attractive alternative to many 'exotic' materials and/or in process lines where limited working life of other materials necessitates frequent replacement. It is non-toxic and can be used for high purity applications. It is also non-flammable and self-extinguishing. PVDF systems are assembled using heat fusion welding, either using socket fittings or butt fusion of pipes and/or fittings end to end. Welding equipment is available for sale or hire.

**PVDF SYGEE PIPE**

	NP16x5m	PlusEea
16		9.93
20		15.60
25		19.92
32		32.36
40		41.27
50		64.23
63		82.39
75		117.52
90		167.50
110		251.23
140		494.37
160		607.82
200		938.76
225		1237.28
	NP10x5m	
90		112.12
110		158.68
125		251.23
140		316.04
160		403.87
200		640.25
225		813.14

+GF+	PVDF FITTINGS	
	<b>PN16 Elbow 90°</b>	<b>Sygef Plus</b>
	20	4.76
	25	5.47
	32	10.54
	40	16.21
	50	24.18
	63	41.07
	75	71.59
	90	108.06
	110	194.50

SYGEE STANDARD OR PLUS FITTINGS ARE AVAILABLE FOR BUTT OR FUSION JOINTING. MACHINES FOR JOINTING ARE AVAILABLE FOR SALE OR HIRE

+GF+	PVDF FITTINGS	
	<b>PN16 Elbow 45°:</b>	<b>Sygef Plus</b>
	20	5.94
	25	7.10
	32	8.12
	40	15.53
	50	19.65
	63	27.70
	75	59.85
	90	89.83
	110	160.73

	<b>PN16 Tee</b>	
	20	7.29
	25	8.93
	32	13.45
	40	20.25
	50	31.13
	63	48.58
	75	27.79
	90	135.08
	110	181.00

	<b>PN16 Caps:</b>	
	20	7.29
	25	8.93
	32	13.45
	40	20.25
	50	30.13
	63	48.68
	75	87.79
	90	135.08
	110	181.00

	<b>PN16 Equal Socket:</b>	
	16	3.59
	20	5.47
	25	7.22
	32	7.63
	40	8.04
	50	21.47
	63	30.45
	75	32.09
	90	50.04
	110	93.88

	<b>Reducing Bushes:</b>	
	20-16	
	25-20	5.39
	32-20	5.39
	32-25	7.70
	40-20	7.70
	40-25	9.05
	40-32	9.99
	50-20	9.99
	50-25	11.00
	50-32	11.00
	50-40	11.00
	63-20	11.89
	63-25	15.12
	63-32	15.12
	63-40	15.73
	63-50	15.73
	75-63	16.55
	90-63	31.68
	90-75	36.07
	110-63	34.38
	110-90	56.87
		51.39

	<b>Union with O Ring FPM Black:</b>	
	16	12.31
	20	14.79
	25	18.64
	32	23.90
	40	33.90
	50	46.12
	63	69.55
	75	114.14
	90	155.34
	110	205.31

+GF+	PVDF BALL VALVES	
	<b>TYPE 546</b>	
	PVDF-Standard mounting inserts/fusion sockets	
	16	70.80
	20	74.67
	25	93.41
	32	122.88
	40	160.46
	50	231.76
	63	325.94

	<b>TYPE 546</b>	
	PVDF-Standard mounting inserts/fusion spigots	
	20	77.00
	25	95.91
	32	125.62
	40	163.43
	50	235.02
	63	329.56

+GF+	PVDF FITTINGS	
	<b>PN16 Adaptor Nipples:</b>	<b>Sygef Plus</b>
	16-3/8	6.46
	20-1/2	7.29
	25-3/4	7.50
	32-1	10.19
	40-1.1/4	20.60
	50-1.1/2	21.35
	63-2	35.32

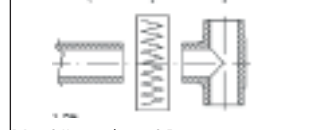
	<b>PN16 Adaptor Socket Rp:</b>	
	20-1/2	8.17
	25-3/4	9.12
	32-1	12.89
	40-1.1/4	20.87
	50-1/2	28.42
	63-2	38.17

	<b>Hose Adaptor ISO/DIN:</b>	
	16-16	17.03
	20-20	17.03
	25-25	18.50
	32-32	21.55
	40-40	29.11
	50-50	37.00
	63-60	45.31

	<b>PN16 Flange Adaptor ISO</b>	
	20	3.51
	25	4.16
	32	4.16
	40	6.80
	50	8.04
	63	11.95
	75	31.08
	90	42.41
	110	59.37

	<b>Fixed Flanges Jointing Face serr ISO/DIN</b>	
	20	21.67
	25	25.73
	32	31.13
	40	50.59
	50	57.81
	63	81.04

**Jointing technology**  
**Fusion jointing of PVDF**  
**Butt fusion jointing of PVDF piping systems**  
**Butt fusion jointing method**  
 The fusion areas of the pipes and fittings are heated to fusion temperature and joined by means of mechanical pressure, without using additional materials. A homogeneous joint results. Butt fusion must only be carried out with fusion jointing machines which allow the jointing pressure to be regulated. Details of the requirements for machines and equipment used for fusion jointing of thermoplastics are contained in DVS 2208 Part 1. The drawing below illustrates the principle of fusion jointing.



**The principle of fusion jointing**  
**General requirements**  
 The basic rule is that only similar materials can be fusion jointed. For best results, only components which have a density between 1.70 and 1.80 g/cm<sup>3</sup> and a melt flow index in the range from MFR 230/5 1.0 to 25 g/10 min should be fusion jointed. This requirement is met by PVDF butt fusion fittings from GF. The components to be joined must have the same wall thicknesses in the fusion area. Join only components with similar wall thicknesses. A incorrect B correct

+GF+	PVDF DIAPHRAGM VALVES	
	<b>TYPE 314</b>	<b>PTFE with EPDM Diaphragm</b>
	PVDF-Standard with fusion sockets	
	20	
	25	
	32	
	40	
	50	
	63	

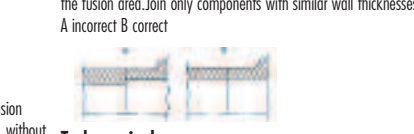
	<b>TYPE 315</b>	<b>PTFE with EPDM Diaphragm</b>
	PVDF-Standard with fusion spigot ISO/DIN	
	20	
	25	
	32	
	40	
	50	
	63	

**Jointing technology**  
**Fusion jointing of PVDF**  
**IR Plus® fusion jointing of PVDF piping systems**  
**Fusion jointing method**  
 In infrared (IR) fusion jointing the fusion areas of the components being joined (pipes, fittings, valves) are heated to fusion temperature without contact to the heating element and jointed by means of mechanical pressure without using additional materials.  
**The principle of fusion jointing**



The resulting fusion joints are homogeneous and display the following characteristics:  
 • non-contact heating of the jointing components eliminates the risk of contamination and inhomogeneities;  
 • smaller jointing beads due to adjustment of jointing pressure path prior to the fusion process itself, i. e. elimination of the equalisation process;  
 • adjustment of the jointing pressure path also ensures excellent reproducibility of the fusion joints;  
 • low-stress fusion joints due to very uniform heating by means of IR radiation.

**General requirements**  
 The basic rule is that only similar materials can be fusion jointed. The components to be joined must have the same wall thicknesses in the fusion area. Maximum permissible wall displacement: 10 %. Only same wall thicknesses in the fusion area  
 A incorrect  
 B correct  
 IR fusion jointing must only be performed by personnel trained in the use of this method. Training is provided world-wide by qualified GF IR Plus® welding instructors.



**Tools required**  
 Butt fusion jointing requires a special jointing machine in addition to the tools normally used for plastic piping construction (pipe cutters, saw with cutting guide). The fusion jointing machine must meet the following minimum requirements: The clamping equipment must hold the various parts securely without damaging the surfaces. Possible ovality can be largely compensated by centred clamping of the components to be joined. It must also be possible to hold all parts firmly in alignment. The machine must also be capable of face planing the fusion surfaces of pipes and fittings. The fusion jointing machine must be sufficiently solid to be able to absorb the pressures arising during the fusion procedure without detrimentally deforming the joint. The heating surfaces of the heating element must be flat and parallel. The temperature variation over the working area must not exceed 10 °C. The machine should be set up and operated according to the manufacturer's instructions. The fusion procedure detailed below including the preparation is based on DVS 2207-15 Welding of thermoplastics - Heated tool welding of pipes, pipeline, components and sheets out of PVDF.