



# PRODUCT INFORMATION

## PIPE AND FITTINGS

# ABOUT US

Davis Industrial Plastics has been trading since 1986, based in Crawley for all that time. The range of goods supplied covers many fields of use with the major two being tube and fittings for pipe work installations and the supply of engineering materials in various stock forms. Goods are mainly delivered on our own vehicles, which cover most areas in the South East on a daily basis. BS5750 registration was obtained in 1993 (now recognised as ISO 9001) and continues to provide the framework for effective and improving service.

## PLASTIC PIPEWORK SYSTEMS

**GEORGE FISCHER**  
PIPING SYSTEMS

**+GF+**

### PRESSURE PIPEWORK SYSTEMS

Our stock of fittings is based around the George Fischer (+GF+) ranges. These include uPVC, ABS, POLYPROPYLENE (PP), POLYTHENE (PE), PVDF and a selection of process control equipment. These items are supported by a wide selection of related fixtures and fittings from alternative sources. Plastic pipework systems offer many advantages over metal based systems, such as: low corrosion; flow characteristics which remain more constant with time; a good range of chemical resistance; low thermal conductivity; simpler installation due to it's lighter weight and jointing methods and a wide range of fittings as standard which can deal with the requirements of most installations.

#### uPVC

PVC is the most widely used plastic in pipe installations, in it's unplasticised form suitable for both interior, exterior and buried pipelines. It has good chemical resistance and a high smoothness of bore which eliminates the build up of scale and gives good and constant flow characteristics throughout it's working life. It is easily jointed using suitable solvent cements or by threaded joints. We are able to provide three types of PVC based fitting, standard uPVC which is dark grey in colour, PVC-C which has better mechanical strength at higher temperatures and improved chemical resistance. For less demanding applications we also keep extensive stocks of budget priced PVC fittings and valves. These are sized and suitable for use with our standard PVC pipe and tube and offer the same functions and properties as the premium fittings.

#### ABS

ABS is a relatively new material to be used for pipework installations. It's chemical resistance properties differ compared to PVC, but it has good resistance to environmental stress cracking. A major plus for the material is it's suitability for use at low temperatures (-40°C) and is ease of jointing by solvent cementing. It is also very lightweight and has the same smooth bore characteristics as PVC.

**uPVC and ABS FITTINGS Available:**

Sizes available. \* PVC only.

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8"

**Elbow 90°**  
3/8" - 8"



**Elbow 45°**  
3/8" - 8"



**Tee 90°**  
3/8" - 8"



**Union**  
3/8" - 4"



**Socket**  
3/8" - 8"  
Socket P/T  
3/8" - 4"



**Cap**  
3/8" - 8"  
Cap T  
3/8" - 4" in PVC only



**SR Bend**  
1/2" - 4", 5"  
6" in PVC only



**Stub Flange**  
1/2" - 8"



**F/F Flange**  
NP16  
1/2" - 6"  
exc 2 1/2 & 5"



**Nipple P/T & T/T**  
3/8" - 4"



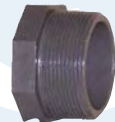
**Socket Nipple**  
3/8" - 4"



**Tank Connector**  
1/2" - 4"



**Plug T**  
3/8" - 4"  
in PVC only



**F/F Gasket NP16**  
1/2" - 8" EPDM/FPM

**Stub Gasket**  
3/8" - 8" EPDM/FPM

**M/S Backer NP16**  
1/2" - 8" in mild steel

**Reducing Bushes (Plain) \* in PVC only**

1/2 x 3/8",	3/4 x 1/2",	1 x 1/2",	1 x 3/4",	1 1/4 x 1"
1 1/2 x 1 1/4",	2 x 1 1/2",	2 1/2 x 2",	3 x 2",	4 x 3"
*5 x 4",	*6 x 5",	8 x 6"		



**Reducing Bushes (Plain/Threaded)**

1/2 x 3/8",	3/4 x 1/2",	1 x 1/2",	1 x 3/4"
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**Reducing Bushes (Threaded) in PVC only**

1/2 x 3/8",	3/4 x 1/2",	1 x 1/2",	1 x 3/4",	1 1/4 x 1"
1 1/2 x 1 1/4",	2 x 1 1/2",	3 x 2",	3 x 2 1/2",	4 x 3"



**Also available:**

Hose connectors; Tees; 45 Tee; Cross; Blank Flanges; P/T Elbows; Threaded Elbows and many types of Adaptor/Transition Fittings sized 8" and above.  
Solvent Cements and Cleaners, Brushes and PTFE Tape.

## **PVC and ABS TUBE Available:**

Sizes available. \* PVC only/ ^ ABS only.

### **Class 7 in PVC & ABS for Threading**

1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

### **Class E in \*PVC & ABS**

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", \*2 1/2", 3", 4", \*6"

### **Class D in PVC only**

1 1/4", 1 1/2", 2", 3", 4", 5", 6", 8"

### **Class C in \*PVC & ^ABS**

^1", ^1 1/4", ^1 1/2", 2", \*2 1/2", 3", 4", \*5", 6", 8"

### **10 Bar in mm in PVC & ABS. 16 Bar in mm in PVC only**

16, 20, 25, 32, 40, 50, 63, 90, 110, 160, 200

Other sizes and pressure classes of Tube available.

Metric sized equivalent Fittings are available for most items and in larger sizes.

## **PP (Polypropylene)**

This material is ideal for industrial processing because of its excellent chemical resistance towards a wide range of chemicals. It is lightweight, has a high impact strength, good abrasion resistance good thermal and electrical insulation and offers reasonable weathering. One of the advantages of PP is its ability to withstand higher temperatures than uPVC, (though as with all plastic the higher the temperature, the lower the working pressure must be). Polypro systems are jointed by fusion welding in which the surfaces are heated by a fusion tool and then pressure applied to weld the heated surfaces together.

## **PP TUBE Available:**

Sizes available in mm.

NP10 - 16, 20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160, 200

NP6 - 50, 63, 75, 90, 110, 125, 160, 200

## **PE (Polythene)**

PE has widespread usage as water delivery piping since it is inert to chemical attack and when UV stabilised very resistant to UV and environmental attack. Fittings are available in mechanical, electrofusion and fusion welded forms.

## **PE TUBE Available:**

Sizes available in mm.

Blue/Black MDPE in 6m straight lengths - 90, 125, 180

Blue/Black MDPE in coils of 25, 50 & 100m - 20, 25, 32, 50, 63, 90

Yellow Gas Tube in coils of 50 & 100m - 20, 25, 32, 63, 90

Larger diameters available in 6 metre lengths.

Full Range of Electrofusion and

Mechanical Fittings Available.



## **COMPRESSION FITTINGS for MDPE TUBE Available:**

Many variations in size available from 16mm - 110mm

**Male Adaptor**  
mm x "



**Female Adaptor**  
mm x "



**Tee**  
mm x mm x mm



**Tee (Female Offtake)**  
mm x mm x "



**Elbow 90°**  
mm x mm



**Elbow 90° (Female Offtake)**  
mm x "



**Elbow 90° (Male Offtake)**  
mm x "



**Coupling**  
mm x mm



**End Cap**  
in mm



**Flanged Joint**  
mm x "



Also available:

Inserts; Adaptors; Liners for metric and imperial pipe, lead and copper.

## **PVDF**

PVDF has excellent chemical, physical and mechanical properties. It has good impact resistance, even at low temperatures and is highly resistant to abrasion. PVDF is more costly compared to other materials but its properties make it the only choice in certain demanding applications.

## **Process, Measurement and Control Equipment**

We can supply an extremely wide range of actuated valves in most of the above materials, which when coupled with sensors and automatic switches can provide complete control over fluid flows. The valves are available pneumatically or electrically actuated, with a wide range of options for power supply. The sensors include flow rate, pH, ORP (Redox) and conductivity. A range of installation fittings are available to provide flexible and suitable installation. The process controllers range from simple readouts, through to alarmed and switched readouts, batch control and totalisers and provide signals which can be logged by monitoring computers. Where there is a distance between measurement and display a signal transmitter is also available.

## **BRASS VALVES Available:**

Sizes available.

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4"

### **Gate Valve (f/f)**

3/8" - 4"



### **Spring Check Valve (f/f)**

3/8" - 4"



### **Swing Check Valve (f/f)**

3/8" - 4"



### **Double Check Valve (f/f)**

1/2" - 2"



### **Ball Valve (f/f)**

3/8" - 2"



## **Miscellaneous**

Other relevant items include tanks and bunding from pre-made standard ranges and constructed to requirements. Fittings not available as standard can usually be machined to requirements. Hoses and flexible tubing in many forms and sizes are commonly required, as are tube for air ducting, for water drainage and cable laying, all of which we can supply.

## **HOSE Available:**

### **Clear pPVC Hose**

ID 3 - 75mm

OD 6 - 87mm

Bore Inches 1/8" - 3"



### **Clear Braided pPVC Hose**

1/8" - 2"



### **pPVC Delivery Hose**

1/2" - 4"



### **Hose Clips**

8-16mm/60-80mm

in Zinc and Stainless Steel



## **Also available:**

PVC Suction Hose, Layflat Hose, Fibreflex Ducting, Ductflow, Neoprene/Rubber Hose, Silicone Hose, Nylon Tube, Polythene Tube and PTFE Tube.

## **uPVC and PP VENTILATION PIPE and FITTINGS Available:**

Sizes available in mm. \* PVC only/ ^ PP only.

75\*, 90\*, 110, 125\*, 160, 200, 225, 250, 280^, 315, 355, 400, 450, 500, 600\*, 630^, 700\*, 800\*, 900\*. 1000\*

PVC for Solvent Weld Lightweight Ducting (*Dark Grey RAL7011*)

PP for Weldable Lightweight Ducting (*Light Grey RAL7037*)

### **Pipe**

PVC 75 - 1000mm o/d

PP 110 - 630mm o/d

### **90° Bend**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **45° Bend**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Socket**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Equal tee**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Flange**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Gaskets**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Damper Units**

PVC 75 - 600mm o/d

PP 110 - 500mm o/d

### **Reducing Sockets**

PVC 110 x 75mm - 400 x 355mm o/d

PP 160 x 110mm - 400 x 355mm o/d

### **PVC Flexible Ducting (Double Skin, Wire Helix) in 5, 10 & 15 metre coils**

Sizes available.

1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 4 1/2", 5", 5 1/2", 6", 6 1/2", 7", 8", 9", 10", 12"

### Also available:

Rubber Lined Pipe Supports, Studding, Backplates, Adaptors and Support Rails.

Pipe Support Accessories include Boltscrews, Studding Connectors, Beam Clamps, Non-drill Anchors, Purlon Clips, Hammerhead Fasteners, Back Nuts, Hex Nuts and Flat Washers.

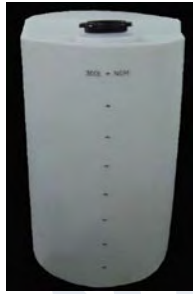


**POLYETHYLENE DOSING TANKS Available:**

**Natural Dosing Tanks**

Size available in Litres

- 50
- 100
- 200
- 300
- 500
- 1000



**Bund Tanks (Natural)**

Size available in Litres

- 50
- 100
- 200
- 500
- 1000



Hand Agitators available

**GRP Tanks**

One Piece Moulding in Corrosion Glass Fibre Reinforced Plastic

Code	Length	Width	Height	Capacity (actual)
10	457	305	305	18.2
15	457	305	457	45
30/1	610	457	533	91
30/2	533	686	381	80
40/1	686	508	508	114
40/2	610	610	483	114
50	737	559	559	159
70/2	813	711	584	227
70/4	1372	305	622	227
70/5	1524	457	457	227
70/G	800	600	650	227
80	914	610	660	273
100/1	965	686	686	341
100/2	1220	610	610	325
100/G	1270	610	650	341
125	965	600	787	423
150	1092	762	737	491
200	1168	864	889	682
250	1524	889	813	841
300	1829	914	813	1004
350	1524	914	914	1227
400	1219	1143	1219	1459
500	1524	1219	1219	1836
600	1829	1219	1219	2136
700	2134	1219	1219	2481
800	2438	1219	1219	2726
1000	2438	1524	1219	3363
1250	3048	1524	1219	4544

Tanks have an external top flange for strength and larger sizes are also fitted with an external support frame.

Also available:

Byelaw Kits, Insulation Jackets and Drip Trays and Sectional Tanks.



## **FLEXIBLE LANDRAIN Available:**

### **25 Metre Coils**

In 60, 80 & 100mm

### **45 Metre Coils**

In 160mm

### **100 Metre Coils**

In 80 & 100mm

### **150 Metre Coils**

In 60mm

### **Multi Junctions**

In 60, 80 & 100mm

## **DRAINAGE TUBE and FITTINGS Available:**

We can supply drainage (sewer) fittings in orange PVC.

Sizes include 110, 160 and 200mm, but other sizes are available.

Fittings include Bends, Tees, Couplers, Multiway Junctions, Manholes, Valve Boxes and Flexible Joints.

## **PVC 'O' DUCT Available:**

We can supply PVC 'O' Duct in 2", 3", 4" and 6".

Available in 6 metre lengths the duct can be supplied with a complementary range of bends and joining couplers along with draw cord.

## **RUBBER LINED SUPPORT SYSTEMS Available:**

Suitable for Pipe Work, Ventilation, Refrigeration and other Tube support applications.

Available in Standard Dual M8/M10 and Stainless Steel M8.

Sizes available:

Diameter range from 15-19mm - 159-166mm

Nominal Bore from 3/8 - 6"



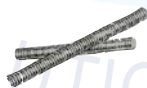
Also available:

Pipe Supports unlined in Standard and Stainless Steel. Also Double Bossed.

## **PIPE SUPPORT ACCESSORIES Available:**

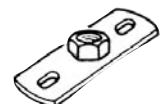
### **Studding**

M8, M10, M12



### **Backplates**

M8, M10, M8/M10 SS



### **Adaptors**

M8 - M10, M10 - M12

M12 - M8, M12 - M10



### **Support Rail**



Also available:

Boltscrews, Studding Connectors, Beam Clamps, Non-drill Anchors, Purlon Clips, Hammerhead Fasteners, Back Nuts, Hex Nuts and Flat Washers.

# OUR PRODUCT LIST COVERING THE MAJORITY OF ITEMS STOCKED INCLUDES:

## **SHEETING:**

Acrylic (Perspex), Polycarbonate, PVC Foam, ABS, HIPS, PVC, and Polypropylene. Full cutting service available.

## **ENGINEERING MATERIALS:**

Nylon, Acetal, Delrin, PETP, Tufnol, Acrylic, PTFE, Polycarbonate, ABS, PVC, Polypropylene, Peek, and Torlon, plus other high performance materials in Rod, Sheet, Block and Shapes. Full cutting service available.

## **PRESSURE PIPEWORK SYSTEMS:**

In PVC, ABS, Polythene, Polypropylene and PVDF. Blue and Black MDPE water main in coils plus compression fittings. Yellow Gas tube in coils plus compression fittings. UPVC Drainage Systems/Plastic ducting and ventilation systems.

## **HOSE:**

Clear and Braided PPVC, Suction and Delivery, Layflat. Hose clips and fittings.

## **TANKS:**

Polythene Dosing Tanks, GRP Water Tanks. Also Tanks fabricated to your specification in a range of materials.

## **INCORPORATING EUROSTAN LTD:**

Metal Valves, Couplers, Specialist Tank fittings. Manufacturers of the "SCAT" Tap.

Some of the industries we supply to include Engineering, Maintenance, Printing, Sign and Display, Irrigation, Agriculture, Building and Construction. We can provide a full delivery service on our own vehicles and a trade counter (8:30 - 16:30) for purchases and collections.

We have been established in Crawley for over 21 years and operate from our large modern premises at:

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FLEMING WAY  
CRAWLEY  
WEST SUSSEX  
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