



viadux

# INDUSTRIAL SYSTEMS



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# SCHEDULE 80 PIPES

## GEORG FISCHER

### SCHEDULE 80 PIPE SYSTEMS

CORROSION RESISTANT PRESSURE PIPE RESISTANT TO MOST ACIDS, BASES, SALTS, ALIPHATIC SOLUTIONS AND OXIDANTS

Schedule 80 uPVC (un-plasticised Poly Vinyl Chloride) is a light and flexible thermoplastic with excellent corrosion resistance. These properties and high engineering design values make it an ideal material for many and varied application. Schedule 80 uPVC can realise substantial installation and ongoing savings to installations across all industries.

Schedule 80 uPVC will not rust or corrode and is not subject to electrolysis. The correct installation of Schedule 80 uPVC will ensure years of trouble free operation. PVC can be buried and will not be affected by soil conditions or galvanic corrosion.

#### TEMPERATURE

Schedule 80 uPVC can be used at temperatures up to 60°C (see temperature de-rating chart).

#### CHEMICAL RESISTANCE

Schedule 80 uPVC is highly resistant to acids, alkalis and many corrosive materials. It is ideal for chemical process piping and general service installation. Please contact your local Viadux representative for more information.

#### MAINTENANCE FREE SERVICE

Painting is not required for indoor installation. When exposed to significant sunlight we recommend the system be painted. Two coats of white, water based, outdoor paint will provide suitable protection.

#### APPLICATIONS

Schedule 80 uPVC pipe systems have been in service for over 50 years they have provided a versatile and dependable replacement to metallic pipe systems throughout industry and building services. Today uPVC pipe systems are the preferred option for many everyday applications. Backed by industry standards and third party certification, uPVC pipe systems deliver outstanding solutions.

#### PRESSURE RATING OF PIPE AT SERVICE TEMPERATURES – BAR

SIZE (IN)	23°C	32°C	38°C	43°C	48°C	54°C	60°C
15 (1/2")	55 Bar	43 Bar	36 Bar	29 Bar	23 Bar	17 Bar	12 Bar
20 (3/4")	47	35	29	23	18	14	10
25 (1")	43	32	26	21	17	13	9
32 (1 1/4")	35	26	22	17	14	10	7
40 (1 1/2")	32	24	20	16	12	9	7
50 (2")	27	20	17	13	11	8	6
65 (2 1/2")	29	21	18	14	11	8	6
80 (3")	25	19	16	12	10	7	5
100 (4")	22	16	13	11	8	6	4
125 (5")	20	-	-	-	-	-	-
150 (6")	19	14	11	9	7	5	4
200 (8")	17	12	10	8	6	5	3
250(10")	17.2	-	-	-	-	-	-
300(12")	15.9	-	-	-	-	-	-

1. Pressure ratings at 23°C are rounded from calculated values.
2. Pressure ratings are for uPVC 12454-B pipe and are calculated from experimental long term strength of uPVC extrusion compounds. Moulding compound properties may differ from pipe compounds. Therefore systems combining pipe and moulded fittings may have lower pressure ratings than those shown in the above table. This is particularly likely at elevated temperatures above 40°C.
3. When valves, flanges and other components are added to the system the system must be re-rated to take these components ratings into account.

## SCHEDULE 80 PIPE SYSTEMS

### DESIGN

#### PIPE EXPANSION – ABOVE GROUND

Pipe expansion of a cold solvent cement welded pipeline may be accommodated using any one or combination of the following techniques:

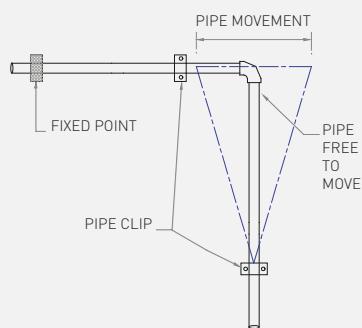
- Pipe route planning
- Expansion loops
- Expansion joints (rubber bellows)
- Pipe wall stressing

#### PIPE ROUTE PLANNING

In the vast majority of cases, effective route planning can eliminate the requirement of expansion loops, or expansion bellows etc with consequent financial savings.

The basic principle of design is to allow pipe runs to move axially from a fixed point (anchor) and then guide this movement into a change of pipe direction ensuring that the pipe is free to flex as shown in figure 1.

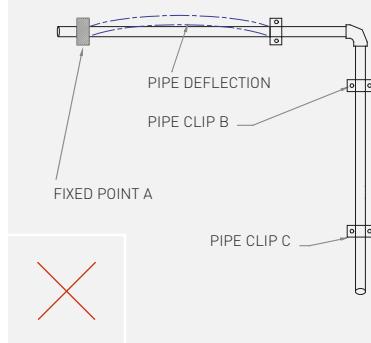
FIGURE 1



An inappropriate installation is shown in figure 2. The pipe run is fixed at one end (A) and constrained at the other (B).

As the temperature increases the pipe will try to expand but will have nowhere to go as the ends are constrained by clip (B). Thus the pipe will 'snake' between supports as indicated.

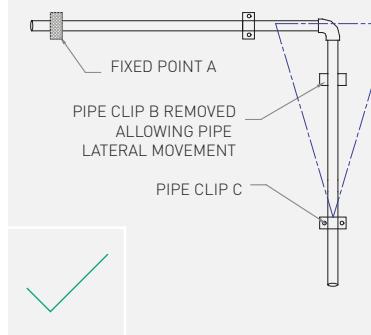
FIGURE 2



In figure 3, effective route leg planning has eliminated the need for expansion loops etc by a simple redesign of pipe supports.

By utilising a suitable pipe support to allow free lateral pipe movement, the pipe can be installed with sufficient flexibility to expand and contract. The support at (C) remains but the clip at pipe support (B) is eliminated to give sufficient length for flexibility.

FIGURE 3



## SCHEDULE 80 PIPE SYSTEMS

### JOINTING

#### SOLVENT WELDING EQUIPMENT

- Pipe Cutter or Saw
- Chamfering Tool or File
- Felt Tip Pen
- Paper Towel or Clean Cloth
- Applicator or Brush
- Tape measure
- Primer and Cement

#### SOLVENT WELDING PROCESS

- Make sure pipe is clean of any dust moisture or grease. Wipe with clean dry cloth.
- Shake the cement tin to ensure it is well mixed.
- Cut pipe to required length making sure that the cut is square.
- Chamfer end.
- Mark socket depth witness mark and second witness mark on pipe.
- Apply primer to pipe and socket. Vigorously work primer in to the surfaces to soften. This is critical to the solvent weld process.
- Without delay shake cement tin again. Open lid and commence application of cement to the joining surfaces of pipe and socket. You will require two coats to the pipe and a single lighter coat to the socket of the fitting.
- Quickly insert pipe (squarely) to the fitting socket.
- Check pipe insertion against witness mark.
- You should observe a uniform bead around the outside of the fitting hub. There will be a tendency for the pipe to push back – hold firmly in place to allow the cement to set (30 second to 1 minute).
- Remove excess cement.
- Leave undisturbed to set firm.
- Allow 24 hours before pressure testing.

If in doubt contact your Viadux representative.

## SCHEDULE 80 PIPE SYSTEMS

### INSTALLATION OF PIPE AND FITTINGS



#### PIPE SUPPORT

The basic principle of correct pipe support is to allow controlled axial movement of the pipe while providing lateral restraint and adequate support for the pipe.

The hanger type support does not provide lateral restraint to the pipe and therefore encourages snaking and so should be avoided except where located adjacent to the changes in direction where flexibility may be required.

#### Thus Pipe Supports Should:

- Be rigid in construction to adequately support pipe (fabricated mild steel angle being ideal).
- Have a wide bearing area, to allow pipe to move easily over support.
- Resist deflection, thus transferring loads to the structure.
- Be free from sharp burrs or edges to avoid cutting or damaging pipe wall.
- Allow controlled axial movement of the pipe.
- Provide lateral restraint, where required.

#### Pipe Clips Should:

- Allow controlled axial pipe movement
- Be free from burrs or sharp edges
- Provide required lateral restraint

- All clips shall be corrosion- resistant.
- Pipe clips, other than anchor clips shall be so constructed that, when they are securely fixed, longitudinal movement of the pipe is permitted.
- Anchor clips for fixed points shall be constructed so that when they are tightened, the fitting or pipe is securely and evenly clamped to prevent movement. The bearing width shall be 25 mm minimum.
- Metal clips shall be used in conjunction with resilient material to protect the pipe and shall have a finished clearance across the diameter to allow for radial and longitudinal movement. All materials shall be compatible with uPVC, and be smooth and free from protrusions.

Viadux stock a range of suitable pipe clips for pipe sizes up to DN 200. For sizes DN 225 and above fabricated mild steel clips with a radial clearance as per the following table are suitable.

PIPE DIAMETER	MINIMUM CLEARANCE
Up to DN150	2 mm
DN200 - DN450	5 mm
DN500 - DN750	10 mm

## SCHEDULE 80 PIPE SYSTEMS

### INSTALLATION

#### PIPE CLAMPS

It is essential that plastic pipes be adequately supported. This will avoid sagging and unnecessary stress. The table below provides guidance on clip spacing. It is important to select pipe clips that allow pipe to expand and contract. Viadux offer a range of pipe clips designed specifically for plastic pipe systems.

#### PIPE SUPPORT PADS

The use of pipe support pads between pipe and support is strongly recommended where there is likely to be considerable movement of the pipe or chafing of the pipe from vibration. High density polyethylene sheet 6 - 10 mm is suitable for this purpose and should be installed as indicated in figure 4.

Width of pipe supports must be sufficient to allow free axial movement of the pipe without binding.

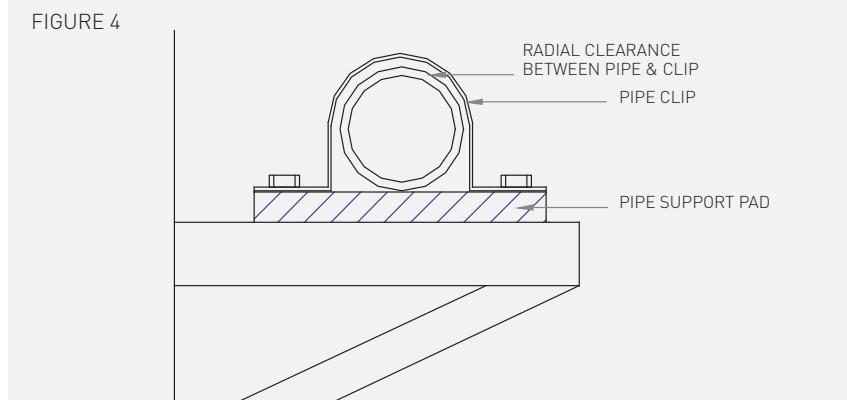
The following table gives recommended pipe support widths.

PIPE DIAMETER	MINIMUM SUPPORT WIDTH
Up to DN300	25 mm
DN350 - DN375	60 mm
DN400 - DN450	100 mm
DN500 - DN750	300 mm

SIZE (DN)	16°C	27°C	38°C	50°C	60°C
15 (1/2")	1500	1350	1400	900	1650
20 (3/4")	1650	1550	1400	900	750
25 (1")	1850	1650	1550	1050	900
32 (1 1/4")	1850	1850	1700	750	900
40 (1 1/2")	2000	1850	1700	1050	1050
50 (2")	2150	2000	1850	1200	1050
65 (2 1/2")	2300	2300	2000	1400	1200
80 (3")	2500	2300	2150	1400	1200
100 (4")	2750	2600	2300	1550	1350
125 (5")	-	2750	-	-	-
150 (6")	3050	2900	2750	1850	1550
200 (8")	-	2650	-	-	-
250 (10")	-	2550	-	-	-
300 (12")	-	2400	-	-	-

Spacing in mm

FIGURE 4





## SCHEDULE 80 PIPE SYSTEMS

SCH 80 PVC - U PIPE



### FEATURES

Conforms to ASTM D-1785, Type 1, Grade 1.

All PVC piping is produced from NSF approved compounds conforming to ASTM D-1784.

Standard length 5.8m.

Handles temperatures up to 60°C.

Not affected by soil in buried applications.

Contains UV stabilisers TiO<sub>2</sub> and Carbon Black.

Economical to install and maintain.

IPS-sized (inches) 1/2-24".

Can be threaded [recommend schedule 80 or greater].

Normally grey in colour.

### PIPE 5.8 METER

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1537680	15	5800	21.3	21.3	1.79
1537681	20	5800	26.7	26.7	2.49
1537682	25	5800	33.4	33.4	3.71
1537683	32	5800	42.2	42.2	5.10
1537684	40	5800	48.3	48.3	6.25
1537685	50	5800	60.3	60.3	8.40
1537686	65	5800	73.0	73.0	12.86
1537687	80	5800	88.9	88.9	17.08
1537688	100	5800	114.3	114.3	24.43
1537689	150	5800	168.0	168.0	47.53

### PIPE 6 METER

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532117	200	6096.0	219.1	219.1	3.65
1533187	250	6096.0	273.1	273.1	5.42
1533188	300	6096.0	323.9	323.9	7.46

### CHLORFIT PE PIPE 6 METER

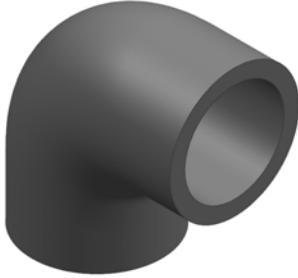
CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538784	15	6096.0	21.3	21.3	0.10
1538785	20	6096.0	26.7	26.7	0.14
1538786	25	6096.0	33.4	33.4	0.20
1538787	32	6096.0	42.2	42.2	0.28
1538788	40	6096.0	48.3	48.3	0.34
1538789	50	6096.0	60.3	60.3	0.47
1538790	65	6096.0	73.0	73.0	0.72
1538791	80	6096.0	88.9	88.9	0.96
1538792	100	6096.0	114.3	114.3	1.41
1538793	125	6096.0	141.3	141.3	1.97
1538794	150	6096.0	168.0	168.0	2.69
1538795	200	6096.0	219.1	219.1	4.11
1538796	250	6096.0	273.1	273.1	6.09

# SCHEDULE 80 FITTINGS

## GEORG FISCHER

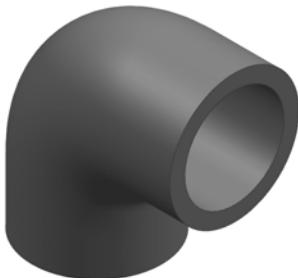
### SCHEDULE 80 UPVC FITTINGS

#### ELBOWS



PLAIN FEMALE 90 DEGREE ELBOW

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538343	10 X 10	43.5	24.3	43.5	0.02
1532009	15	49	49	13	0.04
1532010	20	54	54	19	0.05
1532011	25	69	69	25	0.08
1532012	32	80	80	32	0.13
1532013	40	87	87	38	0.18
1532014	50	97	97	51	0.25
1532015	65	122	122	64	0.46
1532016	80	146	146	76	0.70
1532017	100	180	180	102	1.29
1532120	150	269.5	192.5	269.5	3.96
1532121	200	352.6	247.7	352.6	6.39



90 DEGREE ELBOW PLAIN FEMALE X NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538344	15 X 15	50.3	31.2	48.0	0.04
1538345	20 X 20	57.9	36.9	52.0	0.06
1533262	25 X 25	67.5	46.2	64.9	0.10
1533263	32 X 32	81.1	55.8	75.2	0.15
1533264	40 X 40	90.3	62.7	81.7	0.20
1533265	50 X 50	106.7	77.1	96.3	0.27
1533266	80 X 80	147.9	109.9	141.1	0.85

## SCHEDULE 80 UPVC FITTINGS

## ELBOWS

THREADED 90 DEGREE ELBOW NPT FEMALE



CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533267	6	34.1	22.1	34.1	0.02
1533268	10	37.5	25.7	37.5	0.02
1533269	15	47.1	31.4	47.1	0.04
1533270	20	52.2	37.0	52.2	0.05
1533271	25	64.8	46.2	64.8	0.10
1533272	32	74.8	55.9	74.8	0.15
1533273	40	82.4	62.9	82.4	0.20
1533274	50	96.2	75.7	96.2	0.28
1533275	65	129.0	89.3	129.0	0.58
1533276	80	142.7	108.6	142.7	0.87
1533277	100	172.4	136.5	172.4	1.38

PLAIN FEMALE 45 DEGREE ELBOW



CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533279	10	39.7	26.7	50.3	0.02
1532018	15	62	43	13	0.03
1532019	20	67	53	19	0.04
1532020	25	75	63	25	0.07
1532021	32	77.3	53.2	95.9	0.11
1532022	40	96	86	38	0.13
1532023	50	110	106	51	0.22
1532024	65	122.1	89.2	142.6	0.38
1532025	80	138.7	106.3	153.4	0.59
1532026	100	172.8	132.8	190.3	0.99
1532122	150	251.9	192.9	278.9	3.00
1532123	200	321.5	247.1	354.2	5.26

## SCHEDULE 80 UPVC FITTINGS

### ELBOWS



THREADED 45 DEGREE ELBOW NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533280	6	32.0	22.9	38.2	0.02
1533281	10	38.1	26.7	46.5	0.02
1533282	15	43.8	31.2	54.8	0.04
1533283	20	52.1	37.0	62.4	0.05
1533284	25	61.0	45.6	73.2	0.08
1533285	32	70.6	55.0	80.1	0.12
1533286	40	77.5	62.2	85.0	0.16
1533287	50	93.8	74.9	101.2	0.24
1533288	80	133.8	107.2	142.7	0.65
1533289	100	163.3	132.9	167.4	1.14

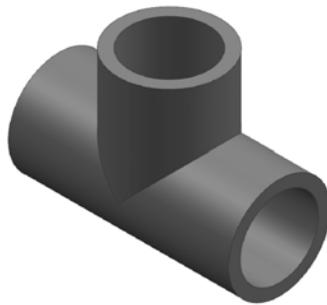


LONG RADIUS PLAIN FEMALE 90 DEGREE BEND

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538823	15	70.0	70.0	27.0	0.03
1538824	20	86.0	86.0	33.0	0.05
1538825	25	150.0	63.2	39.0	0.07
1538826	32	85.0	55.0	190.0	0.21
1538827	40	150.0	64.0	170.0	0.31
1538828	50	285.0	125.0	80.0	0.56
1538829	80	400.0	173.0	115.0	1.76
1538830	100	500.0	135.0	135.0	2.67
1538831	150	510.0	510.0	200.0	7.70

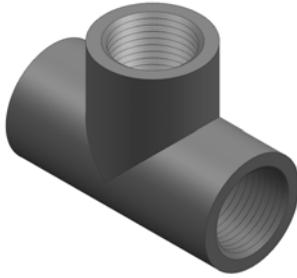
## SCHEDULE 80 UPVC SOCKETS

## TEES



PLAIN FEMALE TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538329	10	58.5	24.3	43.7	0.03
1532027	15	73	51	13	0.05
1532028	20	82	59	19	0.07
1532029	25	94	69	25	0.11
1532030	32	111	82	32	0.16
1532031	40	124	91	38	0.22
1532032	50	143	108	51	0.33
1532033	65	169.2	89.6	130.2	0.78
1532034	80	189.2	105.7	149.8	1.08
1532035	100	235.1	133.9	189.1	1.86
1532118	150	334.5	192.9	266.7	5.00
1532119	200	441.7	247.3	348.1	9.29



THREADED TEE NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538337	6	46.8	21.6	34.6	0.02
1538338	10	50.8	25.4	38.5	0.03
1533249	15	64.8	30.9	47.6	0.05
1538339	20	70.2	36.8	53.0	0.14
1538340	25	86.3	46.2	68.6	0.14
1538341	32	97.5	55.9	76.9	0.21
1533253	40	104.9	62.6	84.0	0.28
1533254	50	119.1	75.8	98.7	0.40
1533255	65	146.3	88.0	116.9	0.80
1538342	80	178.0	110.2	144.5	1.15
1533257	100	207.6	136.7	171.7	1.76

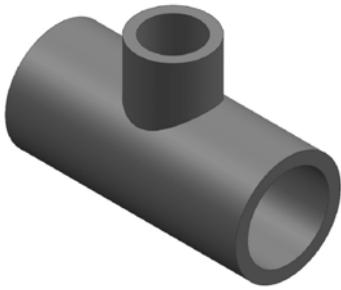


THREADED TEE BSP FEMALE PARALLEL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538871	15	55.0	40.0	30.0	0.03
1538872	20	66.0	51.0	33.0	0.04
1538873	25	78.0	60.0	41.0	0.07
1538874	32	100.0	70.0	50.0	0.15
1538875	40	118.0	89.0	61.0	0.27
1538876	50	146.0	110.0	79.0	0.49

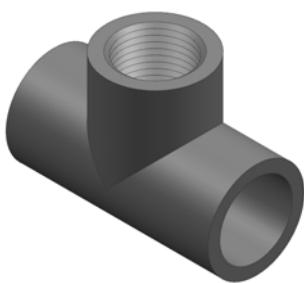
## SCHEDULE 80 UPVC FITTINGS

### TEES



PLAIN FEMALE REDUCING TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532092	20 X 15	82.3	36.6	59.4	0.11
1532093	25 X 15	95.1	43.5	66.2	0.14
1532094	25 X 20	94.8	43.6	69.4	0.15
1533233	40 X 15	3.8	2.7	1.5	0.14
1532095	40 X 20	102	70	38	0.15
1532096	40 X 25	108	75	38	0.16
1533234	50 X 15	4.1	3.2	2.0	0.20
1533235	50 X 20	4.3	3.3	2.0	0.21
1532097	50 X 25	114	87	51	0.23
1532098	50 X 40	130	94	51	0.28
1533236	65 X 50	154.9	88.6	127.0	0.54
1533237	80 X 50	162.4	105.7	144.4	0.72
1538330	100 X 25	152.4	133.1	156.0	0.83
1533238	100 X 50	179.0	132.6	170.6	2.28
1533239	100 X 80	210.3	133.5	182.0	1.47
1538739	150 X 25	226.0	195.6	237.8	5.03
1538331	150 X 50	226.0	195.6	229.8	5.32
1538743	150 X 80	333.1	192.4	279.4	5.29
1533240	150 X 100	333.1	192.4	251.4	4.40
1538332	200 X 100	426.0	250.0	342.0	10.66
1533241	200 X 150	386.7	247.4	324.0	9.03

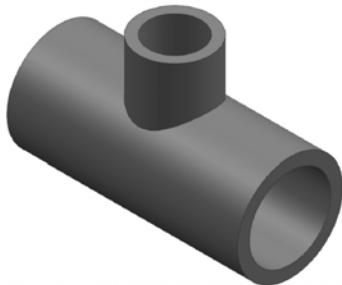


FACUCET TEE PLAIN FEMALE X NPT FEMALE BRANCH

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538333	15 X 15	71.4	29.6	47.8	0.06
1538334	20 X 20	81.2	35.2	52.3	0.08
1538335	25 X 25	93.0	44.3	66.1	0.15
1533245	40 X 40	122.4	59.4	82.5	0.26
1538336	50 X 50	141.9	72.7	96.7	0.41

## SCHEDULE 80 UPVC FITTINGS

## TEES



BUSHED PLAIN FEMALE REDUCING TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538717	32 X 15	101.2	53.0	86.2	0.24
1538718	32 X 20	101.2	53.0	86.1	0.24
1538719	40 X 32	123.9	59.4	99.4	0.34
1538720	50 X 32	142.7	73.4	115.6	0.50
1538721	65 X 15	154.9	88.6	129.3	0.66
1538722	65 X 20	154.9	88.6	129.4	0.67
1538723	65 X 25	154.9	88.6	129.7	0.64
1538724	65 X 32	154.9	88.6	129.2	0.66
1538725	65 X 40	154.9	88.6	129.3	0.64
1538726	80 X 15	162.4	105.7	146.3	0.84
1538727	80 X 20	162.4	105.7	146.4	0.82
1538728	80 X 25	162.4	105.7	146.6	0.82
1538729	80 X 32	162.4	105.7	146.1	0.81
1538730	80 X 40	162.4	105.7	146.3	0.85
1538731	80 X 65	189.2	105.7	156.1	1.29
1538732	100 X 15	179.0	132.6	172.6	2.39
1538733	100 X 20	179.0	132.6	172.8	2.35
1538734	100 X 32	179.0	132.6	172.5	2.39
1538735	100 X 40	179.0	132.6	172.6	2.35
1538736	100 X 65	210.3	133.5	184.2	1.71
1538737	150 X 15	226.0	195.6	237.4	5.32
1538738	150 X 20	226.0	195.6	237.6	5.32
1538740	150 X 32	226.0	195.6	237.3	5.04
1538741	150 X 40	226.0	195.6	237.4	5.02
1538742	150 X 65	333.1	192.4	287.1	5.03
1538744	200 X 50	426.0	250.0	342.4	11.20
1538745	200 X 80	426.0	250.0	324.4	11.06
1538746	200 X 100	0.0	0.0	0.0	0.00
1538747	200 X 125	426.0	250.0	402.0	9.90



PLAIN FEMALE WYE 45 DEGREE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538476	40 X 40	172.8	60.0	130.6	0.31
1538477	50 X 50	202.9	72.7	153.1	0.54
1538478	80 X 80	265.4	105.8	212.9	1.48
1538479	100 X 100	328.6	133.1	268.2	2.08
1538480	150 X 150	419.0	192.9	370.1	5.66
1538481	200 X 200	542.2	246.3	481.6	11.79
1538482	150 X 100	418.8	193.4	312.2	5.20
1538483	200 X 100	405.8	246.0	380.6	6.80

## SCHEDULE 80 UPVC FITTINGS

### TEES



BUSHED PLAIN FEMALE WYE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538765	50 X 40	202.9	72.7	156.1	0.62
1538766	80 X 40	265.4	105.8	218.5	1.79
1538767	80 X 50	265.4	105.8	217.8	1.81
1538768	100 X 50	328.6	133.1	270.1	2.61
1538769	100 X 80	328.6	133.1	270.1	2.47
1538770	150 X 50	418.8	193.4	315.4	5.59
1538771	150 X 80	418.8	193.4	315.4	5.59
1538772	200 X 80	405.8	245.9	385.9	7.19
1538773	200 X 150	542.2	246.3	487.6	13.60



PLAIN FEMALE CROSS

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538877	20	66.5	66.5	36.6	0.05
1538878	25	80.0	80.0	45.0	0.08
1538879	32	100.0	100.0	50.0	0.13
1538880	40	120.0	119.0	64.0	0.30
1538881	50	145.0	143.0	79.0	0.56

## SCHEDULE 80 UPVC FITTINGS

## SOCKETS



PLAIN FEMALE SOCKET

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538346	10	41.8	26.9	26.9	0.02
1532036	15	49	13	13	0.03
1532037	20	55	19	19	0.03
1532038	25	61	25	25	0.05
1532039	32	67	32	32	0.08
1532040	40	74	38	38	0.10
1532041	50	80	51	51	0.14
1532042	65	95	64	64	0.26
1532043	80	103	76	76	0.39
1532044	100	122	102	102	0.67
1532124	150	162.5	191.9	191.9	1.42
1532125	200	213.3	248.1	248.1	3.31

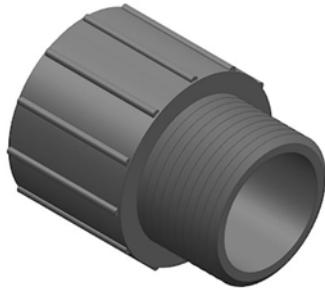
FAUCET SOCKET PLAIN FEMALE X NPT FEMALE



CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533375	6 X 6	36.2	24.3	24.3	0.02
1533376	10 X 10	39.7	28.1	28.1	0.02
1533377	15 X 15	45.6	35.3	35.3	0.04
1533378	20 X 20	49.9	39.6	39.6	0.05
1533379	25 X 25	57.5	48.8	48.8	0.08
1533380	32 X 32	62.1	59.1	59.1	0.11
1533381	40 X 40	65.8	66.0	66.0	0.14
1533382	50 X 50	70.2	79.7	79.7	0.20
1533383	65 X 65	89.5	95.4	95.4	0.38
1533384	80 X 80	96.5	110.0	110.0	0.47
1533385	100 X 100	108.9	134.4	134.4	0.72
1538358	150 X 150	161.9	192.1	192.1	1.40
1538359	200 X 200	212.4	234.9	234.9	2.49

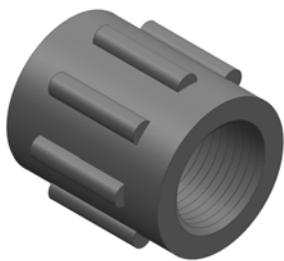
## SCHEDULE 80 UPVC FITTINGS

### SOCKETS



**VALVE SOCKET PLAIN FEMALE X NPT MALE**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533386	15 X 15	46.9	29.6	29.6	0.02
1533387	20 X 20	51.5	35.4	35.4	0.03
1533388	25 X 25	60.4	43.8	43.8	0.04
1533389	32 X 32	64.9	53.0	53.0	0.06
1533390	40 X 40	68.3	59.4	59.4	0.08
1533391	50 X 50	71.9	72.1	72.1	0.12
1533392	65 X 65	93.9	88.4	88.4	0.21
1533393	80 X 80	98.9	106.0	106.0	0.31
1533394	100 X 100	111.6	132.7	132.7	0.51



**THREADED SOCKET NPT FEMALE**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533295	6	32.9	22.8	22.8	0.01
1533296	10	34.2	27.1	27.1	0.02
1533297	15	42.7	35.6	35.6	0.03
1533298	20	44.5	39.9	39.9	0.04
1533299	25	54.0	49.6	49.6	0.08
1533300	32	55.5	59.5	59.5	0.11
1533301	40	56.4	65.9	65.9	0.11
1533302	50	58.2	79.9	79.9	0.18
1533303	65	84.6	94.6	94.6	0.38
1533304	80	89.7	110.3	110.3	0.49
1533305	100	95.5	137.2	137.2	0.73



**FAUCET SOCKET PLAIN FEMALE X BSP FEMALE PARALLEL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538972	10 X 10	30.0	30.0	40.0	0.02
1532074	15 X 15	33.0	36.0	37.0	0.02
1532075	20 X 20	40.0	42.0	42.0	0.03
1532076	25 X 25	45.0	44.0	45.0	0.06
1532077	32 X 32	55.0	52.0	51.0	0.08
1532078	40 X 40	59.0	66.0	66.0	0.13
1532079	50 X 50	69.0	79.0	79.0	0.22

## SCHEDULE 80 UPVC FITTINGS

## SOCKETS



VALVE SOCKET PLAIN FEMALE X BSP MALE TAPERED

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533230	10 X 10	40.0	30.0	30.0	0.01
1532086	15 X 15	32.0	32.0	41.0	0.02
1538989	15 X 20	4.0	4.0	4.0	0.05
1532087	20 X 20	45.0	40.0	40.0	0.02
1538990	20 X 25	5.0	5.0	5.0	0.03
1532088	25 X 25	53.0	46.0	46.0	0.04
1538991	25 X 32	6.0	6.0	6.0	0.05
1533232	32 X 25	101.2	53.0	81.9	0.20
1532089	32 X 32	58.8	57.5	57.5	0.06
1538992	32 X 40	6.0	6.0	6.0	0.06
1533233	40 X 15	3.8	2.7	1.5	0.14
1532090	40 X 40	62.0	63.0	66.0	0.10
1538993	40 X 50	90.0	90.0	90.0	0.07
1533234	50 X 15	4.1	3.2	2.0	0.20
1533235	50 X 20	4.3	3.3	2.0	0.21
1532091	50 X 50	89.0	78.0	78.0	0.18
1533236	65 X 50	154.9	88.6	127.0	0.54
1533237	80 X 50	162.4	105.7	144.4	0.72
1533238	100 X 50	179.0	132.6	170.6	2.28
1533239	100 X 80	210.3	133.5	182.0	1.47
1533240	150 X 100	333.1	192.4	251.4	4.40
1533241	200 X 150	386.7	247.4	324.0	9.03

THREADED SOCKET BSP FEMALE PARALLEL



CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538957	6	26.0	22.0	22.0	0.01
1538958	10	30.0	30.0	30.0	0.02
1538959	15	35.0	35.0	35.0	0.02
1538960	20	40.0	42.0	42.0	0.03
1538961	25	46.0	50.0	50.0	0.05
1538962	32	60.0	60.0	50.0	0.08
1538963	40	70.0	70.0	50.0	0.11
1538964	50	79.0	79.0	56.0	0.18

## SCHEDULE 80 UPVC FITTINGS

### SOCKETS



**PLAIN FEMALE REDUCING SOCKET**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533292	20 X 15	54.1	38.7	38.7	0.04
1532133	25 X 15	55.1	47.3	47.3	0.06
1532134	25 X 20	57.4	47.2	47.2	0.06
1532135	32 X 25	64.0	56.8	56.8	0.10
1533293	40 X 20	63.6	63.9	63.9	0.39
1532136	40 X 25	67.4	63.6	63.6	0.12
1532137	40 X 32	71.5	63.6	63.6	0.12
1538347	50 X 20	79.7	77.7	77.7	0.26
1532138	50 X 25	80.1	77.4	77.4	0.30
1532139	50 X 32	77.5	73.3	73.3	0.19
1532140	50 X 40	77.8	77.2	77.2	0.21
1538348	65 X 40	85.4	89.1	89.1	0.21
1532141	80 X 50	91.7	111.7	111.7	0.42
1532142	100 X 80	111.3	140.1	140.1	0.76
1532143	150 X 100	258.4	201.1	201.1	3.05
1532144	200 X 150	233.1	253.9	253.9	3.44



**THREADED REDUCING SOCKET NPT**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538349	10 X 6	32.8	26.7	26.7	0.02
1538350	15 X 6	36.7	32.6	32.6	0.03
1538351	15 X 10	37.1	32.6	32.6	0.03
1538352	20 X 15	42.7	38.5	38.5	0.04
1538353	25 X 15	46.7	47.2	47.2	0.06
1538354	25 X 20	47.8	47.1	47.1	0.06
1538355	32 X 20	48.4	56.5	56.5	0.08
1538356	40 X 25	52.3	63.6	63.6	0.11
1538357	50 X 40	55.4	77.0	77.0	0.15



**BUSHED PLAIN FEMALE REDUCING SOCKET**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538748	40 X 15	74.6	63.6	63.6	0.39
1538749	50 X 15	87.4	77.4	77.4	0.25
1538750	50 X 20	0.0	0.0	0.0	0.00
1538751	65 X 50	103.5	88.6	88.6	0.50
1538752	80 X 25	115.9	106.5	106.5	0.71
1538753	80 X 32	123.1	106.5	106.5	0.52
1538754	80 X 40	116.3	106.5	106.5	0.75
1538755	80 X 65	116.3	111.5	990.6	0.65
1538756	100 X 50	125.6	140.1	140.1	1.09
1538757	150 X 50	269.5	201.1	201.1	3.58
1538758	200 X 100	249.1	253.9	253.9	5.08

## SCHEDULE 80 UPVC FITTINGS

## ADAPTORS



PLAIN FEMALE ADAPTOR SOCKET

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538995	16 X 10	40.0	20.0	20.0	0.01
1538996	20 X 15	39.0	26.0	26.0	0.01
1538997	25 X 20	50.0	30.0	30.0	0.02
1538998	32 X 25	51.0	40.5	40.5	0.03
1538999	40 X 32	61.0	50.0	50.0	0.05
1539000	50 X 40	65.0	57.0	60.0	0.07
1539001	63 X 50	80.0	75.5	75.5	0.16
1539002	90 X 80	105.0	107.0	111.0	0.34
1539003	110 X 100	13.0	12.5	12.3	0.49



FAUCET ADAPTOR PLAIN MALE X BSP FEMALE PARALLEL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532080	15 X 15	36.3	28.4	28.4	0.01
1532081	20 X 20	41.0	33.0	33.0	0.02
1532082	25 X 25	49.0	41.0	41.0	0.04
1532083	32 X 32	56.0	51.0	51.0	0.07
1532084	40 X 40	65.0	60.0	63.0	0.09
1532085	50 X 50	87.0	78.0	81.0	0.16



VALVE ADAPTOR PLAIN MALE SPITGOT X BSP MALE TAPERED

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538986	15 X 15	43.0	31.0	36.0	0.02
1538987	20 X 20	50.0	40.0	40.0	0.02
1538988	25 X 25	60.0	50.0	50.0	0.04

## SCHEDULE 80 UPVC FITTINGS

### ADAPTORS



**ADAPTOR BARREL UNION (PLAIN FEMALE X PLAIN FEMALE)  
EPDM SEAL BS IMPERIAL X METRIC**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538905	10 X 16	4.0	4.0	4.0	0.03
1538906	15 X 20	40.0	50.0	40.0	0.04
1538907	20 X 25	50.0	50.0	50.0	0.07
1538908	25 X 32	60.0	60.0	60.0	0.09
1538909	32 X 40	70.0	70.0	70.0	0.16
1538910	40 X 50	80.0	80.0	80.0	0.20
1538911	50 X 63	102.0	100.0	93.0	0.34



**ADAPTOR BARREL UNION (PLAIN FEMALE X PLAIN FEMALE)  
EPDM SEAL ASTM US IMPERIAL X METRIC**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538912	10 X 16	4.0	4.0	4.0	0.02
1538913	15 X 20	43.5	52.5	43.5	0.04
1538914	20 X 25	50.0	50.0	50.0	0.07
1538915	25 X 32	60.0	60.0	60.0	0.10
1538916	32 X 40	70.0	70.0	70.0	0.17
1538917	40 X 50	80.0	80.0	80.0	0.24
1538918	50 X 63	102.0	101.0	100.0	0.36

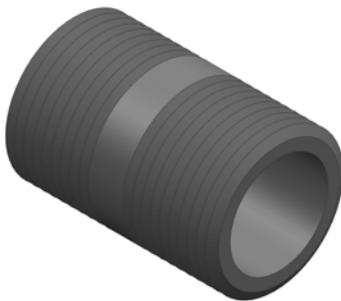


**PLAIN FEMALE STUB FLANGE ADAPTOR**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532550	15	21.0	33.0	46.0	0.01
1532551	20	23.0	40.0	41.0	0.01
1532552	25	50.0	49.0	26.0	0.02
1532553	40	31.0	56.0	60.0	0.04
1532554	50	35.0	72.0	72.0	0.06
1532555	65	88.0	40.0	88.0	0.11
1532556	80	56.0	125.0	123.0	0.27
1532557	100	69.0	155.0	155.0	0.42
1532558	150	216.0	216.0	94.0	1.17
1532559	200	271.0	270.0	125.0	2.03
1533629	250	328.0	153.0	328.0	3.68
1533630	300	376.0	173.0	380.0	3.42

## SCHEDULE 80 UPVC FITTINGS

## ADAPTORS

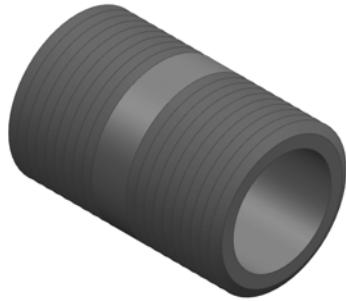


PIPE PIECE NPT MALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538399	15 X 32	28.7	21.3	21.3	0.015
1538400	15 X 50	50.8	21.3	21.3	0.02
1538401	15 X 80	76.2	21.3	21.3	0.03
1538402	15 X 100	101.6	21.3	21.3	0.03
1538403	15 X 125	127.0	21.3	21.3	0.04
1538404	15 X 150	152.4	21.3	21.3	0.05
1538405	15 X 200	203.2	21.3	21.3	0.06
1538406	15 X 250	254.0	21.3	21.3	0.08
1538407	15 X 300	304.8	21.3	21.3	0.10
1538408	20 X 32	35.1	26.7	26.7	0.02
1538409	20 X 40	38.1	26.7	26.7	0.02
1538398	20 X 50	50.8	26.7	26.7	0.03
1538410	20 X 80	76.2	26.7	26.7	0.03
1538411	20 X 100	101.6	26.7	26.7	0.04
1538412	20 X 125	127.0	26.7	26.7	0.05
1538413	20 X 150	152.4	26.7	26.7	0.06
1538414	20 X 200	203.2	26.7	26.7	0.09
1538415	20 X 250	254.0	26.7	26.7	0.11
1538416	20 X 300	304.8	26.7	26.7	0.13
1538417	25 X 40	38.1	33.4	33.4	0.02
1538418	25 X 50	50.8	33.4	33.4	0.03
1538419	25 X 80	76.2	33.4	33.4	0.05
1538420	25 X 100	101.6	33.4	33.4	0.06
1538421	25 X 125	127.0	33.4	33.4	0.08
1538422	25 X 150	152.4	33.4	33.4	0.10
1538423	25 X 200	203.2	33.4	33.4	0.13
1538424	25 X 250	254.0	33.4	33.4	0.16
1538425	25 X 300	304.8	33.4	33.4	0.20
1538426	32 X 45	41.4	42.2	42.2	0.03
1538427	32 X 50	50.8	42.2	42.2	0.05
1538428	32 X 80	76.2	42.2	42.2	0.07
1538429	32 X 100	101.6	42.2	42.2	0.09
1538430	32 X 125	127.0	42.2	42.2	0.11
1538431	32 X 150	152.4	42.2	42.2	0.13
1538432	32 X 200	203.2	42.2	42.2	0.18
1538433	32 X 250	254.0	42.2	42.2	0.22
1538434	32 X 300	304.8	42.2	42.2	0.27
1538435	40 X 45	44.5	48.3	48.3	0.04
1538436	40 X 50	50.8	48.3	48.3	0.05
1538437	40 X 80	76.2	48.3	48.3	0.08
1538438	40 X 100	101.6	48.3	48.3	0.11
1538439	40 X 125	127.0	48.3	48.3	0.14
1538440	40 X 150	152.4	48.3	48.3	0.16
1538441	40 X 200	203.2	48.3	48.3	0.22
1538442	40 X 250	254.0	48.3	48.3	0.27

## SCHEDULE 80 UPVC FITTINGS

### ADAPTORS



PIPE PIECE NPT MALE CONTINUED

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538443	40 X 300	304.8	48.3	48.3	0.33
1538444	50 X 50	50.8	60.3	60.3	0.05
1538445	50 X 65	63.5	60.3	60.3	0.08
1538446	50 X 80	76.2	60.3	60.3	0.11
1538447	50 X 100	101.6	60.3	60.3	0.15
1538448	50 X 125	127.0	60.3	60.3	0.19
1538449	50 X 150	152.4	60.3	60.3	0.22
1538450	50 X 200	203.2	60.3	60.3	0.29
1538451	50 X 250	254.0	60.3	60.3	0.37
1538452	50 X 300	304.8	60.3	60.3	0.44
1538453	65 X 65	63.5	73.0	73.0	0.14
1538454	65 X 80	76.2	73.0	73.0	0.17
1538455	65 X 100	101.6	73.0	73.0	0.23
1538456	65 X 125	127.0	73.0	73.0	0.28
1538457	65 X 150	152.4	73.0	73.0	0.34
1538458	65 X 200	203.2	73.0	73.0	0.45
1538459	65 X 250	254.0	73.0	73.0	0.57
1538460	65 X 300	304.8	73.0	73.0	0.68
1538461	80 X 70	66.8	88.9	88.9	0.20
1538462	80 X 80	76.2	88.9	88.9	0.23
1538463	80 X 100	101.6	88.9	88.9	0.30
1538464	80 X 125	127.0	88.9	88.9	0.38
1538465	80 X 150	152.4	88.9	88.9	0.45
1538466	80 X 200	203.2	88.9	88.9	0.60
1538467	80 X 250	254.0	88.9	88.9	0.75
1538468	80 X 300	304.8	88.9	88.9	0.90
1538469	100 X 50	73.2	114.3	114.3	0.31
1538470	100 X 100	101.6	114.3	114.3	0.43
1538471	100 X 125	127.0	114.3	114.3	0.54
1538472	100 X 150	152.4	114.3	114.3	0.64
1538473	100 X 200	203.2	114.3	114.3	0.86
1538474	100 X 250	254.0	114.3	114.3	1.08
1538475	100 X 300	304.8	114.3	114.3	1.29



THREADED HOSE BARB BSP MALE TAPERED X HOSE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533224	6 X 12	59.0	13.0	16.0	0.00
1533225	10 X 16	67.0	18.0	21.0	0.01
1539019	15 X 14	70.0	30.0	30.0	0.01
1533226	15 X 20	85.0	23.0	21.0	0.02
1539020	20 X 20	80.0	26.0	31.0	0.02
1533227	20 X 25	92.0	31.0	26.0	0.03
1539021	25 X 27	90.0	50.0	50.0	0.04
1533228	25 X 30	101.0	35.0	40.0	0.05
1533229	32 X 40	115.0	52.0	52.0	0.08

## SCHEDULE 80 UPVC FITTINGS

## UNIONS



BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) EPDM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538890	10	40.0	40.0	30.0	0.03
1532062	15	43.7	43.7	47.7	0.04
1532063	20	50.0	50.0	54.0	0.05
1532064	25	61.0	57.8	57.8	0.08
1532065	32	7.0	7.0	7.0	0.11
1532066	40	80.0	80.0	80.0	0.22
1532067	50	93.0	100.0	100.0	0.35



BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) EPDM SEAL ASTM US IMPERIAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533531	15	60.0	50.0	50.0	0.07
1538315	20	80.0	70.0	70.0	0.11
1538316	25	100.0	90.0	90.0	0.16
1533532	32	110.0	100.0	100.0	0.22
1533533	40	120.0	110.0	110.0	0.30
1533534	50	140.0	120.0	120.0	0.56



BARREL UNION (PLAIN FEMALE X BSP FEMALE PARALLEL) EPDM SEALS

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538898	10	4.0	4.0	4.0	0.03
1538899	15	5.0	4.0	4.0	0.04
1538900	20	5.0	5.0	5.0	0.07
1538901	25	3.0	5.0	5.0	0.09
1538902	32	7.0	7.0	7.0	0.17
1538903	40	8.0	8.0	8.0	0.22
1538904	50	10.0	10.0	10.0	0.41

## SCHEDULE 80 UPVC FITTINGS

### UNIONS



THREADED UNION (BSP FEMALE PARALLEL) EPDM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538882	6	40.0	30.0	30.0	0.02
1538883	10	40.0	30.0	30.0	0.03
1538884	15	50.0	40.0	40.0	0.04
1538885	20	50.0	50.0	50.0	0.07
1538886	25	60.0	60.0	60.0	0.09
1538887	32	70.0	70.0	70.0	0.16
1538888	40	80.0	80.0	80.0	0.22
1538889	50	102.0	98.0	101.0	0.42



BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) FKM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538891	10	4.0	3.0	3.0	0.03
1538892	15	40.0	40.0	40.0	0.04
1538893	20	5.0	4.0	4.0	0.06
1538894	25	5.0	5.0	5.0	0.09
1538895	32	70.0	72.0	72.0	0.13
1538896	40	80.0	80.0	70.0	0.20
1538897	50	8.0	8.0	8.0	0.37

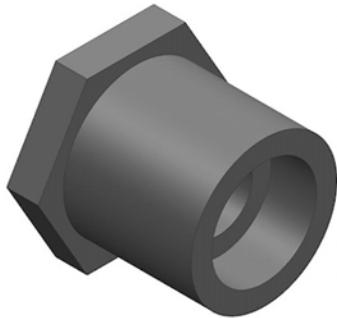


BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) FKM SEAL  
ASTM US IMPERIAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538317	15	60.0	50.0	50.0	0.07
1538318	20	80.0	70.0	70.0	0.11
1538319	25	100.0	90.0	90.0	0.16
1538320	32	110.0	100.0	100.0	0.22
1538321	40	120.0	110.0	110.0	0.30
1538322	50	140.0	120.0	120.0	0.56

## SCHEDULE 80 UPVC FITTINGS

## BUSHES



PLAIN REDUCING BUSH

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532054	10 X 15	33	35	35	0.01
1533314	15 X 6	29.1	24.9	24.9	0.01
1533315	15 X 10	27.7	25.5	25.5	0.01
1532105	25 X 15	36	43	43	0.03
1532055	25 X 20	36	43	43	0.02
1532107	32 X 20	40	53	53	0.05
1532056	32 X 25	40	53	53	0.03
1532108	40 X 20	43	59	59	0.07
1532109	40 X 25	43	59	59	0.06
1532057	40 X 32	43	59	59	0.03
1532110	50 X 15	45	72	72	0.09
1532111	50 X 20	46	72	72	0.09
1532112	50 X 25	46	72	72	0.10
1532058	50 X 40	46	72	72	0.07
1532059	65 X 50	53.3	78.0	78.0	0.11
1532060	80 X 65	57.6	93.8	93.8	0.21
1532061	100 X 80	69.6	123.7	123.7	0.39
1532126	32 X 15	39.3	44.6	44.6	0.05
1532127	40 X 15	43	59	59	0.06
1532128	65 X 40	58.6	79.4	79.4	0.16
1533316	80 X 25	61.3	94.0	94.0	0.43
1538759	80 X 32	68.7	94.0	94.0	0.37
1532114	80 X 40	61.8	95.5	95.5	0.31
1532115	80 X 50	61.5	94.0	94.0	0.33
1532129	100 X 50	68.6	120.7	120.7	0.53
1538760	100 X 65	77.3	123.7	123.7	0.60
1532130	150 X 80	92.8	176.2	176.2	1.45
1532131	150 X 100	93.1	177.0	177.0	1.64
1538761	200 X 100	136.1	230.4	230.4	3.57
1532132	200 X 150	118.5	230.4	230.4	1.92

## SCHEDULE 80 UPVC FITTINGS

### BUSHES



REDUCING BUSH SHORT PATTERN

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538919	15 X 10	17.0	21.0	21.0	0.00
1538921	20 X 10	20.6	27.6	27.6	0.01
1538920	20 X 15	27.0	26.0	18.0	0.01
1538924	25 X 10	23.8	34.7	34.7	0.01
1538923	25 X 15	25.0	35.0	35.0	0.02
1538922	25 X 20	23.0	33.0	32.0	0.01
1538928	32 X 10	28.5	43.8	43.7	0.02
1538927	32 X 15	28.0	44.0	42.0	0.02
1538926	32 X 20	27.0	34.0	41.0	0.03
1538925	32 X 25	28.5	43.8	43.7	0.02
1538932	40 X 15	47.0	47.0	30.0	0.03
1538931	40 X 20	48.0	32.0	47.0	0.03
1538930	40 X 25	48.0	32.0	42.0	0.04
1538929	40 X 32	49.0	49.0	31.0	0.02
1538936	50 X 20	39.0	61.0	61.0	0.06
1538935	50 X 25	61.0	38.0	61.0	0.06
1538934	50 X 32	60.0	38.0	57.0	0.07
1538933	50 X 40	63.0	39.0	56.0	0.05
1538937	65 X 50	44.0	72.0	77.0	0.09
1538941	80 X 25	90.0	89.0	51.0	0.18
1538940	80 X 40	90.0	90.0	52.0	0.18
1538939	80 X 50	51.0	90.0	90.0	0.18
1538938	80 X 65	89.0	89.0	51.0	0.12
1538942	100 X 80	64.0	115.0	110.0	0.34
1538943	125 X 100	77.0	140.0	140.0	0.53
1538944	150 X 125	168.0	168.0	92.0	0.83
1538945	200 X 150	219.0	117.0	216.0	1.77

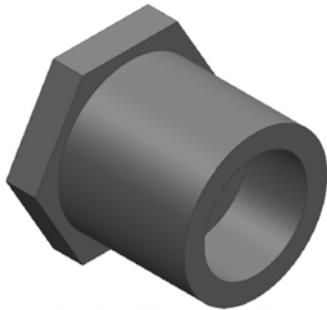


REDUCING BUSH LONG PATTERN

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538984	125 X 80	140.0	140.0	170.0	0.73
1538985	150 X 100	168.0	168.0	197.0	1.31

## SCHEDULE 80 UPVC FITTINGS

## BUSHES



REDUCING BUSH PLAIN MALE X NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538762	10 X 6	40.3	26.1	26.1	0.01
1532500	15 X 6	28.9	24.8	24.8	0.01
1532501	20 X 15	32.6	29.4	29.4	0.01
1532502	25 X 15	36.1	38.2	38.2	0.03
1532503	25 X 20	35.8	38.3	38.3	0.02
1532504	32 X 15	39.6	47.1	47.1	0.05
1532505	32 X 20	39.5	47.1	47.1	0.05
1532506	32 X 25	39.7	47.1	47.1	0.04
1532507	40 X 15	42.6	53.4	53.4	0.07
1532508	40 X 20	43.0	53.1	53.1	0.07
1532509	40 X 25	42.7	53.1	53.1	0.06
1532510	40 X 32	43.0	53.2	53.2	0.04
1532511	50 X 15	45.6	65.1	65.1	0.09
1532512	50 X 20	45.8	65.1	65.1	0.10
1532513	50 X 25	45.8	64.9	64.9	0.10
1532514	50 X 32	46.0	65.0	65.0	0.09
1532515	50 X 40	47.7	65.0	65.0	0.08
1532516	65 X 40	56.9	79.4	79.4	0.19
1532517	65 X 50	53.9	78.1	78.1	0.16
1532518	80 X 50	61.5	94.2	94.2	0.35
1532519	80 X 65	57.2	93.9	93.9	0.22
1532520	100 X 50	68.8	120.5	120.5	0.57



REDUCING BUSH PLAIN MALE X BSP FEMALE PARALLEL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538946	15 X 10	17.0	21.0	21.0	0.00
1537621	20 X 15	21.0	26.0	27.0	0.01
1538947	25 X 15	23.0	33.0	37.0	0.02
1537622	25 X 20	30.0	40.0	40.0	0.01

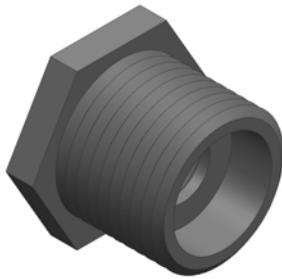


THREADED BUSH BSP MALE TAPERED X BSP FEMALE PARALLEL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538965	15 X 10	38.0	32.0	32.0	0.01
1538966	20 X 15	37.0	32.0	39.0	0.02
1538968	25 X 15	49.0	36.0	33.0	0.03
1538967	25 X 20	47.0	45.0	45.0	0.03
1538969	32 X 25	50.0	50.0	50.0	0.05
1538970	40 X 32	52.0	53.0	55.0	0.07
1538971	50 X 40	62.0	65.0	66.0	0.13

## SCHEDULE 80 UPVC FITTINGS

### BUSHES



THREADED BUSH NPT

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533320	3/8x1/4 PVC80 Redu Bushing (MTxFT)	20.3	22.3	22.3	0.01
1533321	1/2x1/4 PVC80 Redu Bushing (MTxFT)	24.2	26.4	26.4	0.01
1533322	1/2x3/8 PVC80 Redu Bushing (MTxFT)	24.3	26.5	26.5	0.01
1533323	3/4x1/4 PVC80 Redu Bushing (MTxFT)	25.6	29.9	29.9	0.01
1533324	3/4x3/8 PVC80 Redu Bushing (MTxFT)	25.8	30.0	30.0	0.02
1533325	3/4x1/2 PVC80 Redu Bushing (MTxFT)	27.3	34.6	34.6	0.07
1533326	1x1/4 PVC80 Redu Bushing (MTxFT)	31.2	38.0	38.0	0.06
1533327	1x1/2 PVC80 Redu Bushing (MTxFT)	31.4	38.1	38.1	0.07
1533328	1x3/4 PVC80 Redu Bushing (MTxFT)	32.4	39.7	39.7	0.05
1533329	1-1/4x1/2 PVC80 Redu Bushing (MTxFT)	32.9	46.9	46.9	0.04
1533330	1-1/4x3/4 PVC80 Redu Bushing (MTxFT)	32.7	46.8	46.8	0.04
1533331	1-1/4x1 PVC80 Redu Bushing (MTxFT)	33.1	48.1	48.1	0.06
1533332	1-1/2x3/4 PVC80 Redu Bushing (MTxFT)	33.9	52.9	52.9	0.06
1533333	1-1/2x1 PVC80 Redu Bushing (MTxFT)	34.1	52.9	52.9	0.06
1533334	1-1/2x1-1/4 PVC80 Redu Bushing (MTxFT)	33.7	58.2	58.2	0.04
1533335	2x1/2 PVC80 Redu Bushing (MTxFT)	36.5	64.9	64.9	0.09
1533336	2x3/4 PVC80 Redu Bushing (MTxFT)	36.7	64.9	64.9	0.09
1533337	2x1 PVC80 Redu Bushing (MTxFT)	36.1	64.8	64.8	0.10
1533338	2x1-1/4 PVC80 Redu Bushing (MTxFT)	36.3	64.8	64.8	0.06
1533339	2x1-1/2 PVC80 Redu Bushing (MTxFT)	34.3	65.3	65.3	0.08
1533340	3x2 PVC80 Redu Bushing (MTxFT)	51.2	95.5	95.5	0.22
1533341	4x2 PVC80 Redu Bushing (MTxFT)	52.5	120.4	120.4	0.38
1533342	4x3 PVC80 Redu Bushing (MTxFT)	52.2	120.5	120.5	0.29

## SCHEDULE 80 UPVC FITTINGS

## CAPS &amp; PLUGS



PLAIN FEMALE CAP

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533343	6	24.4	24.3	24.3	0.01
1533344	10	28.1	28.2	28.2	0.01
1532045	15	33.0	35.2	35.2	0.02
1532046	20	37.0	39.3	39.3	0.03
1532047	25	42.1	48.7	48.7	0.06
1532048	32	48.0	59.3	59.3	0.07
1532049	40	52.9	68.9	68.9	0.13
1532050	50	59.0	79.7	79.7	0.13
1532051	65	66.4	95.8	95.8	0.33
1532052	80	77.8	110.6	110.6	0.42
1532053	100	93.7	139.9	139.9	0.65
1532145	150	123.3	192.0	192.0	1.56
1532146	200	158.8	248.2	248.2	3.44



THREADED CAP BSP FEMALE PARALLEL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1539004	10	30.0	30.0	20.0	0.01
1539005	15	37.0	37.0	21.0	0.02
1539006	20	40.0	40.0	25.0	0.02
1539007	25	50.5	50.5	26.0	0.04
1539008	32	57.0	59.0	28.0	0.06
1539009	40	65.0	65.0	32.0	0.07
1539010	50	80.0	80.0	38.0	0.13

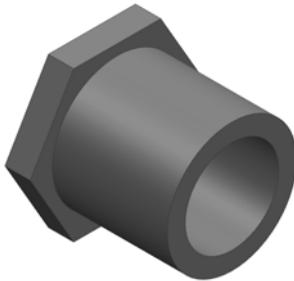


THREADED CAP NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533345	6	23.7	24.8	24.8	0.01
1533346	10	23.8	28.7	28.7	0.01
1533347	15	29.0	35.4	35.4	0.03
1533348	20	31.7	39.9	39.9	0.03
1533349	25	38.3	49.4	49.4	0.06
1533350	32	40.4	59.3	59.3	0.09
1533351	40	43.2	65.9	65.9	0.09
1533352	50	46.3	80.3	80.3	0.17
1533353	65	66.2	94.6	94.6	0.28
1533354	80	71.2	110.9	110.9	0.39
1533355	100	80.1	139.2	139.2	0.66

## SCHEDULE 80 UPVC FITTINGS

### CAPS & PLUGS



**PLAIN MALE SPIGOT PLUG**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538360	15	27.4	24.6	24.6	0.01
1538361	20	31.7	30.4	30.4	0.02
1538362	25	35.7	38.5	38.5	0.03
1538363	40	43.6	53.3	53.3	0.06
1538364	50	48.2	65.1	65.1	0.09
1538365	100	67.3	126.8	126.8	0.48



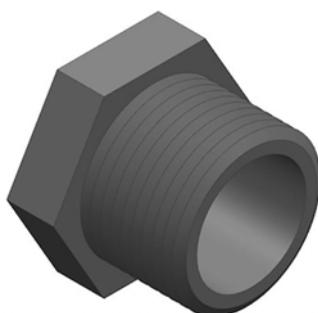
**THREADED PLUG BSP MALE PARALLEL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1537623	20	41.0	36.0	31.0	0.02
1537624	25	48.0	48.0	34.0	0.03
1537627	50	80.0	80.0	43.0	0.12



**THREADED PLUG BSP MALE TAPERED**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1539022	10	20.0	20.0	20.0	0.01
1539023	15	26.0	27.0	31.0	0.01
1539024	20	41.0	41.0	30.0	0.02
1539025	25	48.0	48.0	35.0	0.03
1539026	32	53.5	53.5	36.6	0.05
1539027	40	65.0	65.0	40.0	0.07
1539028	50	80.6	80.6	42.8	0.12



**THREADED PLUG NPT MALE**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1533356	6	20.7	17.3	17.3	0.00
1533357	10	21.0	20.2	20.2	0.00
1533358	15	25.0	24.7	24.7	0.01
1533359	20	26.9	30.0	30.0	0.01
1533360	25	31.6	38.5	38.5	0.02
1533361	32	33.7	47.1	47.1	0.04
1533362	40	35.2	53.4	53.4	0.05
1533363	50	37.4	65.3	65.3	0.08
1533364	65	49.4	86.9	86.9	0.17
1533365	80	50.3	94.8	94.8	0.21
1533366	100	54.9	120.9	120.9	0.34

## SCHEDULE 80 UPVC FITTINGS

## NIPPLES



PLAIN MALE SPIGOT ENDED NIPPLE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538948	10	1.0	1.0	3.0	0.00
1538949	15	2.0	2.0	4.0	0.00
1538950	20	2.0	2.0	4.0	0.01
1538951	25	3.0	3.0	5.0	0.02
1538952	32	4.0	4.0	6.0	0.03
1538953	40	4.0	4.0	6.0	0.05
1538954	50	6.0	6.0	8.0	0.10
1538955	80	8.0	8.0	11.0	0.23
1538956	100	11.0	11.0	13.0	0.48



TOE NIPPLE BSP MALE TAPERED

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
153223	10	1.6	1.6	4.2	0.01
1532068	15	21.0	21.0	51.0	0.01
1532069	20	54.0	26.0	26.0	0.02
1532070	25	3.3	3.3	6.4	0.03
1532071	32	74.0	41.0	41.0	0.06
1532072	40	8.9	4.6	4.9	0.08
1532073	50	59.0	61.0	87.0	0.11
1532147	80	87.0	89.0	127.0	0.25
1532148	100	11.2	11.5	14.9	0.49

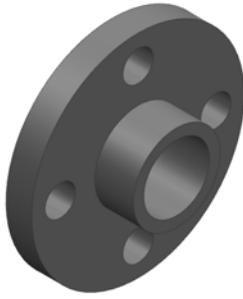


THREADED HEX NIPPLE BSP MALE TAPERED

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538994	10	38.0	22.0	22.0	0.01
1532099	15	45.0	25.0	25.0	0.01
1532100	20	49.4	30.0	30.0	0.02
1532101	25	56.0	40.0	40.0	0.03
1532102	32	62.0	50.0	50.0	0.05
1532103	40	67.0	53.0	53.0	0.07
1532104	50	75.0	68.0	68.0	0.13

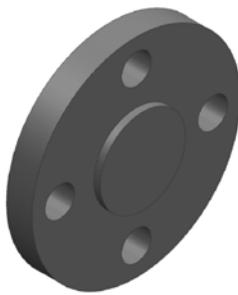
## SCHEDULE 80 UPVC FITTINGS

### FLANGES



PLAIN FEMALE FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538366	15	25.9	89.0	89.0	0.08
1538367	20	29.0	98.8	98.8	0.12
1538368	25	32.9	108.6	108.6	0.18
1538369	32	36.7	117.7	117.7	0.18
1538370	40	39.1	127.2	127.2	0.33
1538371	50	43.9	152.6	152.6	0.54
1538372	65	50.6	177.8	177.8	0.76
1538373	80	62.5	190.7	190.7	0.97
1538374	100	70.7	229.7	229.7	1.34
1538375	150	98.4	282.7	282.7	2.95
1538376	200	124.5	343.8	343.8	5.22

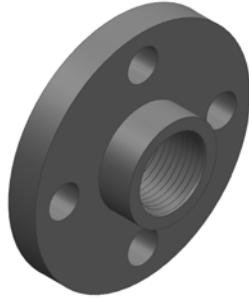


BLIND FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532532	15	12.2	89.1	89.1	0.12
1532533	20	14.0	99.0	99.0	0.16
1532534	25	16.8	108.9	108.9	0.19
1533367	32	18.4	117.2	117.2	0.27
1532535	40	20.5	127.3	127.3	0.35
1532536	50	22.7	152.9	152.9	0.48
1532537	65	24.7	177.8	177.8	0.47
1532538	80	26.2	189.3	189.3	1.19
1532539	100	29.0	227.5	227.5	1.98
1532540	150	38.3	278.2	278.2	3.17
1532541	200	41.0	343.1	343.1	3.86

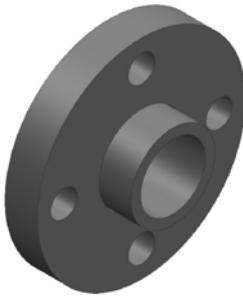
## SCHEDULE 80 UPVC FITTINGS

## FLANGES



NPT FEMALE THREADED FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538377	15	22.6	89.1	89.1	0.09
1538378	20	23.0	98.7	98.7	0.12
1538379	25	28.7	108.7	108.7	0.19
1538380	32	30.5	117.4	117.4	0.17
1538381	40	30.2	126.8	126.8	0.30
1538382	50	30.9	152.9	152.9	0.52
1538383	65	43.7	177.8	177.8	0.70
1538384	80	54.7	190.5	190.5	0.95
1538385	100	58.4	228.6	228.6	1.30

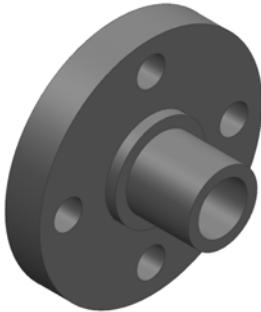


SCHEDULE 80 PVC-U PLAIN FEMALE VAN-STONE FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1532521	15	28.0	89.5	89.5	0.09
1532522	20	31.2	98.4	98.4	0.12
1532523	25	35.1	107.8	107.8	0.16
1532524	32	38.6	117.4	117.4	0.19
1532525	40	42.7	127.1	127.1	0.25
1532526	50	46.6	152.9	152.9	0.44
1532527	65	54.6	178.1	178.1	0.80
1532528	80	59.2	190.4	190.4	0.93
1532529	100	69.9	228.5	228.5	1.30
1532530	150	90.0	278.8	278.8	2.10
1532531	200	116.8	343.2	343.2	3.72

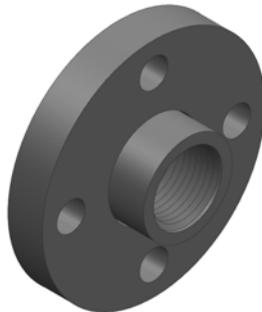
## SCHEDULE 80 UPVC FITTINGS

### FLANGES



PLAIN MALE SPIGOT VAN-STONE FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538387	15	43.7	89.5	89.5	0.10
1538388	20	46.9	98.4	98.4	0.13
1538389	25	53.4	107.8	107.8	0.17
1538390	32	58.0	117.4	117.4	0.21
1538391	40	63.0	127.1	127.1	0.27
1538392	50	71.1	152.9	152.9	0.47
1538393	65	83.2	178.1	178.1	0.80
1538394	80	91.4	190.4	190.4	0.97
1538395	100	104.1	228.5	228.5	1.35
1538396	150	129.6	278.8	278.8	2.21
1538397	200	174.9	343.2	343.2	4.48

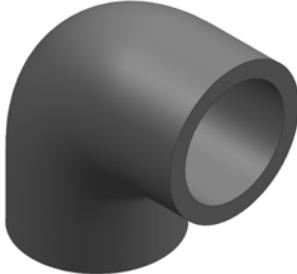


NPT FEMALE THREADED VAN-STONE FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1535203	15	27.9	89.5	89.5	0.09
1535204	20	31.1	98.4	98.4	0.12
1535205	25	35.3	107.8	107.8	0.17
1535206	32	38.2	117.4	117.4	0.21
1535207	40	42.4	127.1	127.1	0.26
1535208	50	46.2	152.9	152.9	0.44
1538386	65	54.2	178.1	178.1	0.80
1535209	80	59.9	190.4	190.4	1.21
1535210	100	70.5	228.5	228.5	1.30

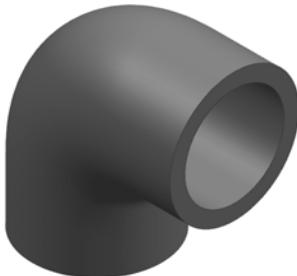
## SCHEDULE 80 CPVC FITTINGS

## ELBOWS



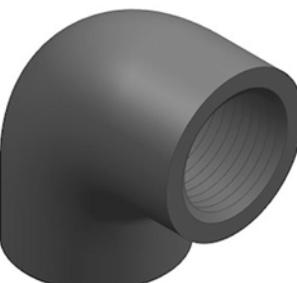
PLAIN FEMALE 90 DEGREE ELBOW

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538509	15	52.4	29.5	52.4	0.04
1538510	20	61.6	35.3	61.6	0.06
1538511	25	73.0	43.7	73.0	0.11
1538512	32	85.1	52.8	85.1	0.16
1538513	40	94.9	59.6	94.9	0.22
1538514	50	111.9	73.2	111.9	0.34
1538515	65	135.2	89.4	135.2	0.59
1538516	80	154.9	106.0	154.9	0.78
1538517	100	192.8	134.1	192.8	1.38
1538518	150	269.5	192.5	269.5	4.30
1538519	200	352.6	247.7	352.6	6.94



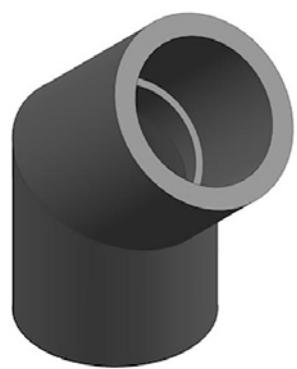
FAUCET 90 DEGREE ELBOW PLAIN FEMALE X NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538520	15 X 15	50.3	31.2	48.0	0.04



THREADED 90 DEGREE ELBOW NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538521	15	47.1	31.4	47.1	0.04
1538522	40	82.4	62.9	82.4	0.22

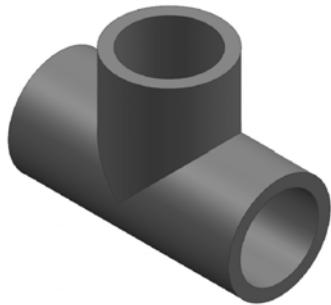


PLAIN FEMALE 45 DEGREE ELBOW

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538523	15	47.3	29.7	63.4	0.04
1538524	20	53.1	35.2	68.2	0.05
1538525	25	60.2	43.6	79.6	0.08
1538526	32	77.3	53.2	95.9	0.12
1538527	40	84.7	59.7	102.6	0.17
1538528	50	101.3	73.2	119.7	0.27
1538529	65	122.1	89.2	142.6	0.41
1538530	80	138.7	106.3	153.4	0.64
1538531	100	172.8	132.8	190.3	1.07
1538532	150	251.9	192.9	278.9	3.26

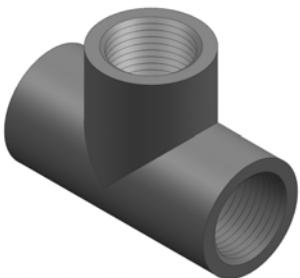
## SCHEDULE 80 CPVC FITTINGS

### TEES



PLAIN FEMALE TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538484	15	71.8	29.5	53.2	0.07
1538485	20	81.6	35.4	61.2	0.08
1538486	25	94.3	43.7	71.8	0.15
1538487	32	110.5	52.9	83.7	0.22
1538488	40	123.9	59.4	92.8	0.31
1538489	50	142.7	73.4	109.3	0.44
1538490	65	169.2	89.6	130.2	0.80
1538491	80	189.2	105.7	149.8	1.16
1538492	100	235.1	133.9	189.1	1.89
1538493	150	334.5	192.9	266.7	5.45
1538494	200	441.7	247.3	348.1	9.75

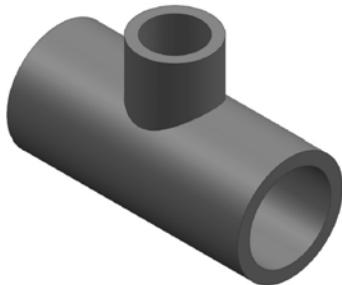


THREADED TEE NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538506	15	64.8	30.9	47.6	0.06
1538507	20	86.3	46.2	68.6	0.16
1538508	25	104.9	62.6	84.0	0.30

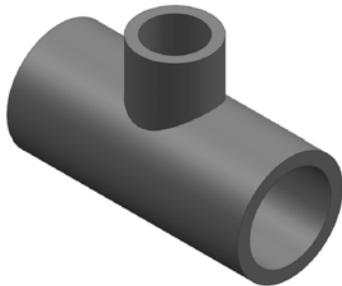
## SCHEDULE 80 CPVC FITTINGS

## TEES



PLAIN FEMALE REDUCING TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538495	25 X 15	95.1	43.5	66.2	0.15
1538496	40 X 15	97.4	59.5	82.0	0.22
1538497	40 X 25	107.6	59.4	88.5	0.37
1538498	50 X 15	104.0	72.5	95.0	0.22
1538499	50 X 25	113.9	72.5	101.6	0.44
1538500	50 X 40	154.9	88.6	127.0	0.59
1538501	80 X 50	162.6	95.0	133.6	0.78
1538502	100 X 50	179.0	132.6	170.6	2.47
1538503	100 X 80	210.3	133.5	182.0	1.60
1538504	150 X 50	226.0	195.6	229.8	5.78
1538505	150 X 100	333.1	192.4	251.4	4.78



BUSHED PLAIN FEMALE REDUCING TEE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538774	150 X 80	333.1	192.4	279.4	5.75
1538775	200 X 100	386.7	247.3	331.7	11.44



BUSHED PLAIN FEMALE WYE 45 DEGREE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538783	100 X 50	328.6	133.1	270.1	2.84

## SCHEDULE 80 CPVC FITTINGS

### SOCKETS



**PLAIN FEMALE SOCKET**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538533	15	49.1	31.1	31.1	0.04
1538534	20	55.4	35.8	35.8	0.06
1538535	25	61.2	43.6	43.6	0.09
1538536	32	67.8	53.0	53.0	0.13
1538537	40	74.7	59.6	59.6	0.18
1538538	50	80.8	72.7	72.7	0.29
1538539	65	95.7	88.6	88.6	0.43
1538540	80	102.6	106.5	106.5	0.48
1538541	100	121.9	133.4	133.4	0.78
1538542	150	162.5	191.9	191.9	1.54
1538543	200	213.3	248.1	248.1	3.59



**FAUCET SOCKET PLAIN FEMALE X NPT FEMALE**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538564	15 X 15	45.6	35.3	35.3	0.04
1538565	20 X 20	49.9	39.6	39.6	0.05
1538566	25 X 25	57.5	48.8	48.8	0.09
1538567	32 X 32	62.1	59.1	59.1	0.12
1538568	40 X 40	65.8	66.0	66.0	0.15
1538569	50 X 50	70.2	79.7	79.7	0.22
1538570	80 X 80	96.5	110.0	110.0	0.51

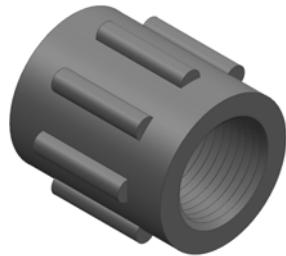


**VALVE SOCKET PLAIN FEMALE X NPT MALE**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538571	15 X 15	46.9	29.6	29.6	0.02
1538572	20 X 20	51.5	35.4	35.4	0.03
1538573	25 X 25	60.4	43.8	43.8	0.05
1538574	32 X 32	64.9	53.0	53.0	0.07
1538575	40 X 40	68.3	59.4	59.4	0.09
1538576	50 X 50	71.9	72.1	72.1	0.13
1538577	80 X 80	93.9	88.4	88.4	0.33
1538578	100 X 100	98.9	106.0	106.0	0.55

## SCHEDULE 80 CPVC FITTINGS

## SOCKETS



THREADED SOCKET NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538556	15	42.7	35.6	35.6	0.03
1538557	20	44.5	39.9	39.9	0.05
1538558	40	56.4	65.9	65.9	0.12
1538559	50	58.2	79.9	79.9	0.20



PLAIN FEMALE REDUCING SOCKET

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538544	20 X 15	54.1	38.7	38.7	0.04
1538545	25 X 15	55.1	47.3	47.3	0.07
1538546	25 X 20	57.4	47.2	47.2	0.07
1538547	40 X 25	67.4	63.6	63.6	0.43
1538548	40 X 32	71.5	63.6	63.6	0.13
1538549	50 X 25	80.1	77.4	77.4	0.28
1538550	50 X 40	77.8	77.2	77.2	0.21
1538551	65 X 40	85.4	89.1	89.1	0.23
1538552	80 X 50	91.7	111.7	111.7	0.45
1538553	100 X 80	111.3	140.1	140.1	0.83
1538554	150 X 100	258.4	201.1	201.1	3.31
1538555	200 X 150	233.1	253.9	253.9	3.73



BUSHED PLAIN FEMALE REDUCING SOCKET

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538776	40 X 15	74.6	63.6	63.6	0.10
1538777	40 X 20	63.6	63.9	63.9	0.43
1538778	50 X 15	87.4	77.4	77.4	0.14
1538779	80 X 40	116.3	106.5	106.5	0.42
1538780	80 X 65	116.3	111.5	111.5	0.71
1538781	100 x 50	125.6	140.1	140.1	1.18

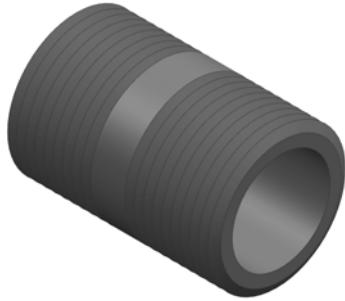
## SCHEDULE 80 CPVC FITTINGS

## SOCKETS



THREADED REDUCING SOCKET NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538560	15 X 6	36.7	32.6	32.6	0.03
1538561	15 X 10	37.1	32.6	32.6	0.03
1538562	25 X 15	46.7	47.2	47.2	0.07
1538563	40 X 25	52.3	63.6	63.6	0.12



PIPE PIECE NPT MALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538690	20 X 25	50.8	26.7	26.7	0.03
1538691	15 X 32	28.7	21.3	21.3	0.01
1538692	15 X 50	50.8	21.3	21.3	0.02
1538693	15 X 80	76.2	21.3	21.3	0.03
1538694	20 X 32	35.1	26.7	26.7	0.02
1538695	25 X 40	38.1	33.4	33.4	0.03
1538696	40 X 45	44.5	48.3	48.3	0.04
1538697	40 X 50	50.8	48.3	48.3	0.06
1538698	40 X 100	101.6	48.3	48.3	0.12

## SCHEDULE 80 CPVC FITTINGS

## UNIONS



BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) EPDM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538706	15	64.9	50.1	50.1	0.03
1538707	20	71.1	58.8	58.8	0.05
1538708	25	81.8	67.6	67.6	0.07
1538709	32	90.4	78.9	78.9	0.11
1538710	40	95.5	95.5	95.5	0.17
1538711	50	106.0	115.0	115.0	0.29
1538699	80	265.4	105.8	212.9	1.45



BARREL UNION (PLAIN FEMALE X PLAIN FEMALE) FKM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538700	15	64.9	50.1	50.1	0.03
1538701	20	71.1	58.8	58.8	0.05
1538702	25	81.8	67.6	67.6	0.07
1538703	40	90.4	78.9	78.9	0.17
1538704	50	95.5	95.5	95.5	0.29
1538688	80	119.7	172.9	172.9	1.45
1538689	100	143.2	215.0	215.0	2.14



THREADED UNION (NPT FEMALE) EPDM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538712	15	52.2	50.1	50.1	0.03
1538713	20	53.7	58.8	58.8	0.05
1538714	25	66.1	67.6	67.6	0.07
1538715	40	71.2	78.9	78.9	0.17
1538716	50	70.2	95.5	95.5	0.29

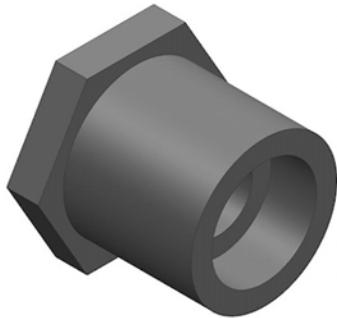


THREADED UNION (NPT FEMALE) FKM SEAL

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538705	15	106.0	115.0	115.0	0.03

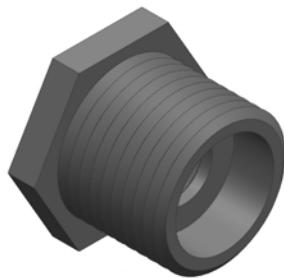
## SCHEDULE 80 CPVC FITTINGS

### BUSHES



PLAIN REDUCING BUSH

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538579	15 X 6	29.1	24.9	24.9	0.01
1538580	15 X 10	27.7	25.5	25.5	0.01
1538581	20 X 15	33.1	30.9	30.9	0.01
1538582	25 X 15	36.5	38.9	38.9	0.03
1538583	25 X 20	36.4	38.9	38.9	0.02
1538584	32 X 15	39.3	44.6	44.6	0.05
1538585	32 X 20	39.9	48.0	48.0	0.05
1538586	32 X 25	40.3	47.9	47.9	0.04
1538587	40 X 15	42.8	47.9	47.9	0.07
1538588	40 X 20	42.6	54.0	54.0	0.08
1538589	40 X 25	42.9	54.0	54.0	0.06
1538590	40 X 32	43.6	54.1	54.1	0.04
1538591	50 X 15	46.0	66.0	66.0	0.10
1538592	50 X 20	46.1	65.9	65.9	0.11
1538593	50 X 25	46.4	65.8	65.8	0.11
1538594	50 X 32	45.9	65.8	65.8	0.10
1538595	50 X 40	46.0	65.9	65.9	0.08
1538596	65 X 40	58.6	79.4	79.4	0.18
1538597	65 X 50	53.3	78.0	78.0	0.12
1538598	80 X 25	61.3	94.0	94.0	0.47
1538599	80 X 40	61.8	95.5	95.5	0.34
1538600	80 X 50	61.5	94.0	94.0	0.36
1538601	80 X 65	57.6	93.8	93.8	0.23
1538602	100 X 50	68.6	120.7	120.7	0.57
1538603	100 X 80	69.6	123.7	123.7	0.42
1538604	150 X 80	92.8	176.2	176.2	1.58
1538605	150 X 100	93.1	177.0	177.0	1.78
1538606	200 X 150	118.5	230.4	230.4	2.08

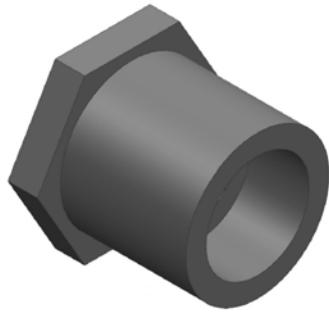


THREADED BUSH NPT

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538622	20 X 15	27.3	34.6	34.6	0.08
1538623	25 X 15	31.4	38.1	38.1	0.08
1538624	25 X 20	32.4	39.7	39.7	0.05
1538625	40 X 20	33.9	52.9	52.9	0.06
1538626	50 X 25	36.1	64.8	64.8	0.11

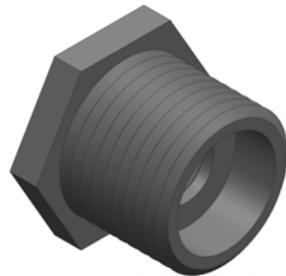
## SCHEDULE 80 CPVC FITTINGS

## BUSHES



REDUCING BUSH PLAIN MALE X NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538607	15 X 6	28.9	24.8	24.8	0.01
1538608	15 X 20	28.7	24.7	24.7	0.02
1538609	20 X 6	30.8	30.1	30.1	0.02
1538610	20 X 15	32.6	29.4	29.4	0.02
1538611	25 X 5	36.1	38.2	38.2	0.03
1538612	25 X 20	35.8	38.3	38.3	0.03
1538613	32 X 25	39.7	47.1	47.1	0.04
1538614	40 X 20	43.0	53.1	53.1	0.07
1538615	40 X 25	42.7	53.1	53.1	0.07
1538616	50 X 15	45.6	65.1	65.1	0.10
1538617	50 X 20	45.8	65.1	65.1	0.10
1538618	50 X 25	45.8	64.9	64.9	0.11
1538619	50 X 32	46.0	65.0	65.0	0.10
1538620	50 X 40	47.7	65.0	65.0	0.09
1538621	65 X 50	53.9	78.1	78.1	0.18



BUSHED REDUCING BUSH

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538782	150 X 50	269.5	201.1	201.1	2.35

## SCHEDULE 80 CPVC FITTINGS

### CAPS & PLUGS



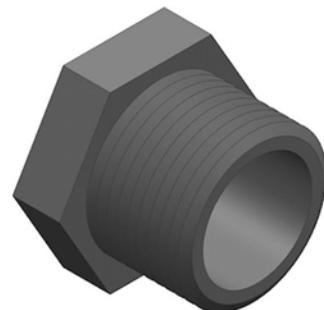
PLAIN FEMALE CAP

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538627	15	33.0	35.2	35.2	0.03
1538628	20	37.0	39.3	39.3	0.03
1538629	25	42.1	48.7	48.7	0.06
1538630	32	48.0	59.3	59.3	0.08
1538631	40	52.9	68.9	68.9	0.14
1538632	50	59.0	79.7	79.7	0.14
1538633	65	66.4	95.8	95.8	0.36
1538634	80	77.8	110.6	110.6	0.46
1538635	100	93.7	139.9	139.9	0.70
1538636	150	123.3	192.0	192.0	1.69
1538637	200	158.8	248.2	248.2	3.73



THREADED CAP NPT FEMALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538638	25	38.3	49.4	49.4	0.06
1538639	40	43.2	65.9	65.9	0.10
1538640	50	46.3	80.3	80.3	0.18

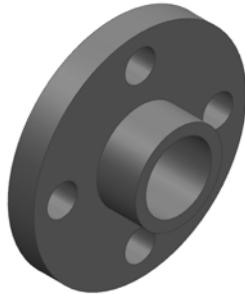


THREADED PLUG NPT MALE

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538641	10	21.0	20.2	20.2	0.00
1538642	15	25.0	24.7	24.7	0.01
1538643	20	26.9	30.0	30.0	0.01
1538644	25	31.6	38.5	38.5	0.02
1538645	50	37.4	65.3	65.3	0.08

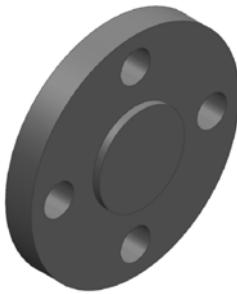
## SCHEDULE 80 CPVC FITTINGS

## FLANGES



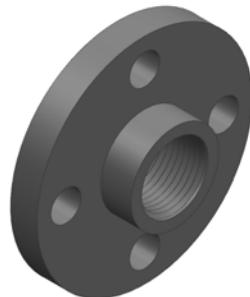
PLAIN FEMALE FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538646	15	25.9	89.0	89.0	0.09
1538647	25	32.9	108.6	108.6	0.20
1538648	32	36.7	117.7	117.7	0.19
1538649	40	39.1	127.2	127.2	0.35
1538650	50	43.9	152.6	152.6	0.59
1538651	65	50.6	177.8	177.8	0.82
1538652	80	62.5	190.7	190.7	1.06
1538653	100	70.7	229.7	229.7	1.45



BLIND FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538658	15	12.2	89.1	89.1	0.13
1538659	20	14.0	99.0	99.0	0.17
1538660	25	16.8	108.9	108.9	0.20
1538661	32	18.4	117.2	117.2	0.29
1538662	40	20.5	127.3	127.3	0.38
1538663	50	22.7	152.9	152.9	0.52
1538664	80	26.2	189.3	189.3	1.29
1538665	100	29.0	227.5	227.5	2.15
1538666	150	38.3	278.2	278.2	3.44
1538667	200	41.0	343.1	343.1	4.19



NPT FEMALE THREADED FLANGE ANSI-150

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538654	15	22.6	89.1	89.1	0.10
1538655	25	28.7	108.7	108.7	0.20
1538656	40	30.2	126.8	126.8	0.32
1538657	50	30.9	152.9	152.9	0.56

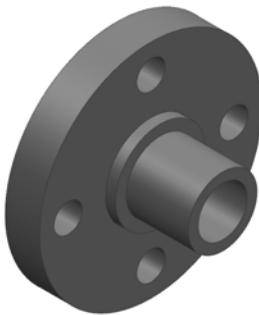
## SCHEDULE 80 CPVC FITTINGS

### FLANGES



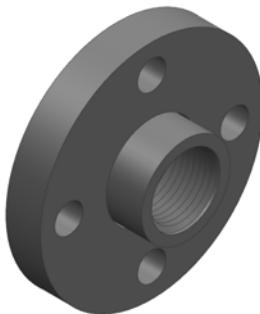
**PLAIN FEMALE VAN-STONE FLANGE ANSI-150**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538668	15	28.0	89.5	89.5	0.10
1538669	20	31.2	98.4	98.4	0.13
1538670	25	35.1	107.8	107.8	0.17
1538671	32	38.6	117.4	117.4	0.21
1538672	40	42.7	127.1	127.1	0.27
1538673	50	46.6	152.9	152.9	0.47
1538674	65	54.6	178.1	178.1	0.87
1538675	80	59.2	190.4	190.4	1.01
1538676	100	69.9	228.5	228.5	1.41
1538677	150	90.0	278.8	278.8	2.28
1538678	200	116.8	343.2	343.2	4.04



**PLAIN MALE SPIGOT VAN-STONE FLANGE ANSI-150**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538681	15	43.7	89.5	89.5	0.10
1538682	25	53.4	107.8	107.8	0.18
1538683	40	63.0	127.1	127.1	0.29
1538684	50	71.1	152.9	152.9	0.51
1538685	65	83.2	178.1	178.1	0.87
1538686	80	91.4	190.4	190.4	1.05
1538687	150	129.6	278.8	278.8	2.40



**NPT FEMALE THREADED VAN-STONE FLANGE ANSI-150**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538679	25	35.3	107.8	107.8	0.18
1538680	40	42.4	127.1	127.1	0.28

## SCHEDULE 80 UPVC FITTINGS

## PIPE CLIPS



## PIPE CLIPS

CODE	DESCRIPTION	SIZE
R05.434.015	1/2" Pipe Clip	1/2"
R05.434.020	3/4" Pipe Clip	3/4"
R05.434.025	1" Pipe Clip	1"
R05.434.032	1 1/4" Pipe Clip	1 1/4"
R05.434.040	1 1/2" Pipe Clip	1 1/2"
R05.434.050	2" Pipe Clip	2"
R05.434.065	2 1/2" Pipe Clip	2 1/2"
R05.434.080	3" Pipe Clip	3"
R05.434.100	4" Pipe Clip	4"

## PIPE CLIPS - TYPE F

CODE	DESCRIPTION	SIZE
R05.434.080F	3" Pipe Clip	3"
R05.434.100F	4" Pipe Clip	4"
R05.434.150F	6" Pipe Clip	6"



## SCHEDULE 80 UPVC FITTINGS

### CEMENT & PRIMER



### CEMENT

CODE	DESCRIPTION	SIZE
R32.461.050	PVC-U SCH80 CEMENT 500ML	500ML
R32.461.100	PVC-U SCH80 CEMENT 1LTR	1LTR



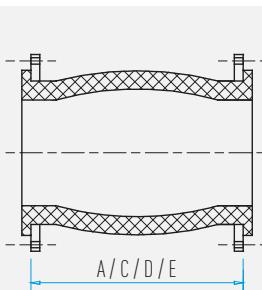
### PRIMER

CODE	DESCRIPTION	SIZE
R32.463.050	PVC-U SCH80 PRIMER 500ML	500ML
R32.463.100	PVC-U SCH80 PRIMER 1LTR	1LTR



### RUBBER EXPANSION JOINT

CODE	SIZE	A MM	C MM	D	E MM	PN RATING
R04.452.032	DN 32 S1	95	8	15°	4	15
R04.452.040	DN 40 S1	95	8	15°	4	15
R04.452.050	DN 50 S1	105	8	15°	5	15
R04.452.080	DN 80 S1	130	12	15°	6	15
R04.452.100	DN 100 S1	135	18	15°	10	15
R04.452.150	DN 150 S1	180	18	15°	10	15
R14.452.225	DN 200 S1	205	25	15°	14	15
R14.452.250	DN 225 S1	240	25	15°	14	15
R14.452.315	DN 300 S1	260	25	15°	14	15
R14.452.355	DN 350 S1	265	25	15°	14	9
R14.452.400	DN 375 S1	265	25	15°	14	9



A = Natural Length      D = Angular Deflection  
 C = Axial Compression    E = Axial Extension

# SCHEDULE 80 VALVES

## GEORG FISCHER

### SCHEDULE 80 VALVES

#### VALVES



**DOUBLE UNION BALL VALVE (PLAIN FEMALE X PLAIN FEMALE)  
EPDM SEAL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538806	10	105.0	51.0	87.0	0.16
1538807	15	135.0	85.0	60.0	0.23
1538808	20	120.0	98.0	58.0	0.25
1538809	25	158.0	83.0	113.0	0.48
1538810	32	175.0	90.0	140.0	0.80
1538811	40	199.0	154.0	111.0	1.09
1538812	50	225.0	185.0	130.0	1.92
1538813	65	262.0	224.0	408.0	4.36
1538814	80	244.0	201.0	258.0	5.38
1538815	100	387.0	293.0	400.0	9.63



**DOUBLE UNION BALL VALVE (PLAIN FEMALE X PLAIN FEMALE)  
EPDM SEAL ASTM US IMPERIAL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538323	15	80.0	78.0	78.0	0.13
1538324	20	91.0	90.0	90.0	0.21
1538325	25	102.0	101.0	101.0	0.31
1538326	32	120.0	119.0	119.0	0.45
1538327	40	140.0	137.0	137.0	0.70
1538328	50	169.0	165.0	165.0	1.20



**DOUBLE UNION BALL VALVE (PLAIN FEMALE X PLAIN FEMALE) FKM SEAL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538797	10	90.0	50.0	90.0	0.15
1538798	15	100.0	50.0	90.0	0.15
1538799	20	110.0	60.0	100.0	0.23
1538800	25	120.0	70.0	110.0	0.33
1538801	32	150.0	90.0	140.0	0.59
1538802	40	160.0	97.0	150.0	0.86
1538803	50	185.0	125.0	190.0	1.58
1538804	80	247.0	201.0	257.0	5.40
1538805	100	275.0	239.0	307.0	8.58



**BUTTERFLY VALVE PVC-U WAFER EPDM SEAL**

CODE	SIZE (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)
1538816	50	350.0	170.0	220.0	1.65
1538817	65	264.0	107.0	227.0	1.35
1538818	80	275.0	145.0	145.0	1.52
1538819	100	195.0	160.0	320.0	2.19
1538820	125	360.0	110.0	350.0	2.54
1538821	150	390.0	210.0	260.0	4.27
1538822	200	272.0	209.0	462.0	6.48

# ABS SYSTEMS

## DURAFLO® ABS SYSTEMS PIPES AND FITTINGS

TOUGH, RESILIENT THERMOPLASTIC WITH HIGH IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, NON TOXIC & TAINT FREE

ABS thermoplastics are recognised as a suitable material to be used in many industry applications. The material is very tough and resilient, has high impact strength, good chemical resistance non-toxic and taint free.

ABS piping systems are replacing many piping systems made from other materials. Viadux's ABS piping systems compromises a large range of pressure ratings for pipes and fittings, joined together by cold solvent cement welding.

The formulation of ABS used by Viadux has been developed in conjunction with polymer manufacturers to optimise performance in respect to tensile strength, chemical resistance, ductility, resistance to weathering, heat stability, low toxicity, taint free and ease processing from raw material to finished product.

### THE ENVIRONMENT

The use of ABS contributes positively to the environment as it takes approximately one sixth of the energy to manufacture compared to metal products. This has direct savings in greenhouse gas emissions. Additionally ABS is lead, chlorine and halogen free and can be readily recycled.

### APPLICATIONS

DURAFLO pipes & fittings are widely used in a variety of applications such as:

- HVAC, chilled water and condenser
- Water reticulation
- Domestic plumbing
- Water treatment plants
- Waste water treatment and recycling plants
- Power generation plants
- Industrial plants such as electronics, food processing, chemical, paper mills, palm oils and rubber mills.



## ABS SYSTEMS PIPES & FITTINGS

TOUGH, RESILIENT THERMOPLASTIC WITH HIGH IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, NON TOXIC & TAINT FREE

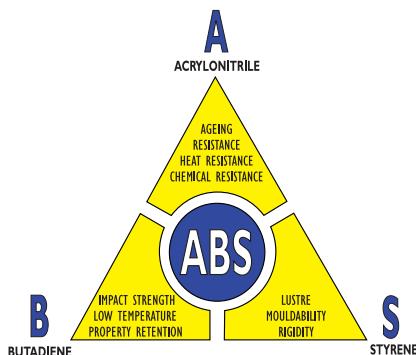
### THE MATERIAL

Acrylonitrile – Butadiene – Styrene (ABS) identifies a family of engineering thermoplastics with a broad range of performance characteristics. The copolymeric system is alloyed to yield the optimum balance of properties suited to the selected end use.

ACRYLONITRILE imparts chemical resistance and rigidity.

BUTADIENE endows the product with impact strength, toughness and abrasion resistance.

STYRENE contributes to the lustre, ease of processing and rigidity.



### LIGHT WEIGHT

ABS is one-sixth the weight of steel systems, making DURAFL0 easy to handle and install. This reduces the cost of installation, handling and transport.

### COLD SOLVENT WELD JOINING

The DURAFL0 range also utilise the proven traditional method of joining ABS pipes, cold solvent cement welding, which provides a homogeneous bond/weld between pipes and fittings (SWJ).

### PRESSURE RATINGS

DURAFL0 ABS Piping Systems are available in a range of sizes from DN 15 to DN 750. Standard pressure ratings at 20°C are 900 kPa, 1200 kPa and 1500 kPa (Class C, Class D and Class E).

### TEMPERATURE RANGE

A great advantage of DURAFL0 ABS over other plastic systems is its ability to perform over a wide temperature range from -30°C to +60°C. This makes DURAFL0 ABS very versatile and capable of handling a wide variety of fluids from refrigerants to moderately hot corrosive liquids.

### CHEMICAL RESISTANCE

DURAFL0 ABS is unaffected by both internal and external attack by a wide range of acids, alkalis, ground water salts and other environmental factors. Please refer to Viadux for further information.

#### Quick Reference Chemical Resistance

Weak acids	Good resistance
Strong acids	Limited resistance
Weak alkalis	Good resistance
Strong alkalis	Good resistance
Aggressive soils	Excellent resistance
Metal salts	Good resistance
Sea water	Excellent resistance
Aromatic	Poor resistance hydrocarbons
Organic solvents	Poor resistance

### NON-TOXIC / TAINT FREE

The ABS formulation contains no harmful metallic stabilisers and has been widely used for many years in piping systems for drinking water, medical preparations, food products and potable water. The DURAFL0 ABS system is ideal for potable cold water, conforming to World Health Organisation, EU and AS 4020 / BS 6920 requirement for potable water reticulation and distribution.



## ABS SYSTEMS PIPES & FITTINGS

TOUGH, RESILIENT THERMOPLASTIC WITH HIGH IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, NON TOXIC & TAINT FREE

### SMOOTH BORE

DURAFLO ABS does not suffer from internal corrosion and provides a smooth bore for the life of the piping systems. The smooth bore does not support formation of scale and slime as with cement based lined products.

### ABRASION RESISTANCE

DURAFLO ABS offers outstanding resistance to abrasion and erosion from aggressive slurries which can rapidly damage steel or other traditional pipe materials.

### WEATHER RESISTANCE

DURAFLO ABS is one of the most weather resistance polymers available today. Successful field tests have been completed on piping systems having been exposed to weathering for over 30 years.

### STANDARDS

DURAFLO products are manufactured to conform to recognised international engineering quality standard such as Australian Standard AS/NZS 3518. Viadux is also accredited to ISO9001: Quality System.

### IMPACT STRENGTH

The butadiene constituent in ABS affords unrivalled resistance to impact. This means that DURAFLO Piping systems may be used in more critical applications where other types of plastics could not be considered.

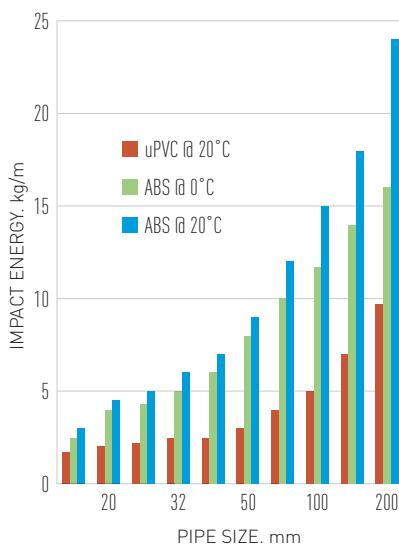
ABS is a ductile material and the mode of failure resembles that of soft copper. Failure is by ductile distortion and tearing, the localised nature minimising the loss of pipe contents.

In contrast, crack propagation and hazardous material fragmentation accompany the failure of brittle material.

### THERMAL EXPANSION

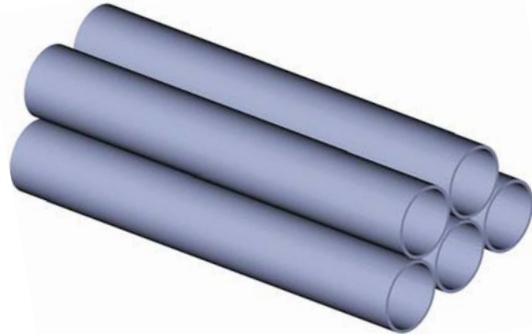
All thermoplastics expand at a greater rate than metal.

Expansion need not cause undue concern in design or installation of an ABS piping system provided that due recognition is taken at the design stage. The reduced flexural modulus of ABS over that of steel results in reduced loads on supports and equipment arising from thermal strains. The linear coefficient of thermal expansion of ABS is  $10.1 \times 10^{-5} \text{ m/m}^{\circ}\text{C}$ .



## ABS SYSTEMS PIPES

FOR INDUSTRIAL APPLICATIONS

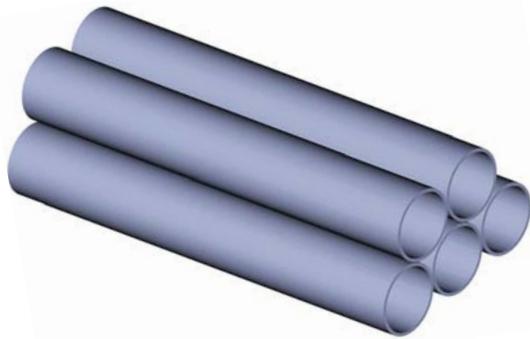


DURAFLO ABS PRESSURE PIPE – SERIES 1

CODE	SIZE	PRESSURE RATING	TYPE	COMPOUND CLASS	PRESSURE BAR	OD MEAN MM	WALL MEAN MM	ID MEAN MM
R11.5200.015	DN 15 S1	PN 20	DURAFLO	ABS160	20	21.4	2.1	17.2
R11.5180.020	DN 20 S1	PN 18	DURAFLO	ABS160	18	26.8	2.4	21.9
R11.5180.025	DN 25 S1	PN 18	DURAFLO	ABS160	18	33.6	3.0	27.5
R11.5180.032	DN 32 S1	PN 18	DURAFLO	ABS160	18	42.3	3.2	35.9
R11.5180.040	DN 40 S1	PN 18	DURAFLO	ABS160	18	48.3	3.6	41.0
R11.5120.050	*DN 50 S1	PN 12	DURAFLO	ABS160	12	60.4	3.7	53.0
R11.5150.050	DN 50 S1	PN 15	DURAFLO	ABS160	15	60.4	4.5	51.3
R11.5120.065	*DN 65 S1	PN 12	DURAFLO	ABS160	12	75.4	4.5	66.4
R11.5150.065	DN 65 S1	PN 15	DURAFLO	ABS160	15	75.4	5.7	64.0
R11.5090.080	DN 80 S1	PN 9	DURAFLO	ABS160	9	88.9	4.1	80.7
R11.5120.080	*DN 80 S1	PN 12	DURAFLO	ABS160	12	88.9	5.4	78.2
R11.5150.080	DN 80 S1	PN 15	DURAFLO	ABS160	15	88.9	6.6	75.7
R11.5090.100	DN 100 S1	PN 9	DURAFLO	ABS160	9	114.3	5.3	103.8
R11.5120.100	*DN 100 S1	PN 12	DURAFLO	ABS160	12	114.3	6.8	100.7
R11.5150.100	DN 100 S1	PN 15	DURAFLO	ABS160	15	114.3	8.5	97.4
R11.5090.125	*DN 125 S1	PN 9	DURAFLO	ABS160	9	140.2	6.4	127.3
R11.5120.125	*DN 125 S1	PN 12	DURAFLO	ABS160	12	140.2	8.4	123.4
R11.5150.125	DN 125 S1	PN 15	DURAFLO	ABS160	15	140.2	10.4	119.4
R11.5090.150	DN 150 S1	PN 9	DURAFLO	ABS160	9	168.3	7.7	152.9
R11.5120.150	*DN 150 S1	PN 12	DURAFLO	ABS160	12	168.3	10.1	148.1
R11.5150.150	DN 150 S1	PN 15	DURAFLO	ABS160	15	168.3	12.4	143.4

## ABS SYSTEMS PIPES

FOR INDUSTRIAL APPLICATIONS



### DURAFLO ABS PRESSURE PIPE – SERIES 1

CODE	SIZE	PRESSURE RATING	TYPE	COMPOUND CLASS	PRESSURE BAR	OD MEAN MM	WALL MEAN MM	ID MEAN MM
R11.5060.225	*DN 200 S1	PN 6	DURAFLO	ABS160	6	225.3	7.1	211.3
R11.5090.225	DN 200 S1	PN 9	DURAFLO	ABS160	9	225.3	10.3	204.7
R11.5150.225	DN 200 S1	PN15	DURAFLO	ABS160	15	225.3	16.6	192.1
R11.5060.250	*DN 225 S1	PN 6	DURAFLO	ABS160	6	250.4	7.8	234.8
R11.5090.250	DN 225 S1	PN 9	DURAFLO	ABS160	9	250.4	11.4	227.5
R11.5150.250	DN 225 S1	PN15	DURAFLO	ABS160	15	250.4	18.5	213.0
R11.5060.315	*DN 300 S1	PN 6	DURAFLO	ABS160	6	315.5	9.7	296.0
R11.5090.315	DN 300 S1	PN 9	DURAFLO	ABS160	9	315.5	14.4	286.7
R11.5150.315	DN 300 S1	PN15	DURAFLO	ABS160	15	315.5	23.2	269.1
R11.5060.355	*DN 350 S1	PN 6	DURAFLO	ABS160	6	355.5	11.0	333.6
R11.5090.355	DN 350 S1	PN 9	DURAFLO	ABS160	9	355.5	16.2	323.2
R11.5150.355	DN 350 S1	PN15	DURAFLO	ABS160	15	355.5	26.2	303.1
R11.5060.400	*DN 375 S1	PN 6	DURAFLO	ABS160	6	400.5	12.3	375.8
R11.5090.400	DN 375 S1	PN 9	DURAFLO	ABS160	9	400.5	18.2	364.1
R11.5150.400	DN 375 S1	PN 15	DURAFLO	ABS160	15	400.5	29.5	341.5

\*Non stockable – made to order. (Minimum quantities apply)

Larger pipes & fittings from DN 400 to DN 750 are available – price on application

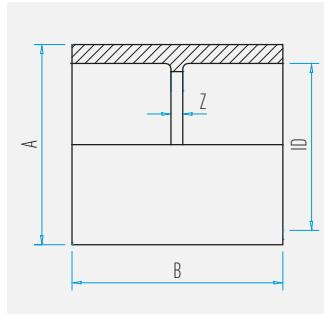
Pipe complies with AS/NZS 3518

All values quoted are subject to manufacturing tolerances standard pipe length supplied 5.8M  
Other lengths and pressure ratings are available upon request

Pipe is supplied plain ended.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS

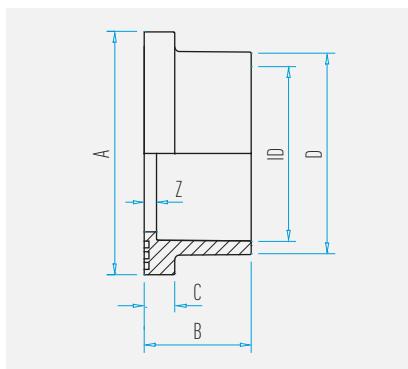


PLAIN SOCKET

CODE	SIZE	ID MM	A MM	B MM	Z MM	PN RATING
R 01.100.015	DN 15 S1	21	27	43	9	15
R 01.100.020	DN 20 S1	27	33	47	7	15
R 01.100.025	DN 25 S1	34	41	53	7	15
R 01.100.032	DN 32 S1	42	52	61	7	15
R 01.100.040	DN 40 S1	48	59	65	5	15
R 01.100.050	DN 50 S1	60	74	77	5	15
R 01.100.065	DN 65 S1	75	93	91	3	15
R 01.100.080	DN 80 S1	89	110	112	10	15
R 01.100.100	DN 100 S1	114	141	138	10	15
R 01.100.125	DN 125 S1	140	168	165	12	15
R 01.100.150	DN 150 S1	168	204	192	12	15
R 11.100.225	DN 200 S1	225	250	246	8	12
R 11.100.250	DN 225 S1	250	280	271	9	12
R 11.100.315	DN 300 S1	315	355	337	9	12
R 11.100.400	DN 375 S1	400	440	423	11	12

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



### STUB FLANGE

CODE	SIZE	ID MM	A MM	B MM	C MM	D MM	Z MM	D* MM	A* MM	PN RATING
R01.135.050	DN 50 S1	60	96	40	14	74	3	74	96	15
R01.135.065	DN 65 S1	75	106	47	10	90	3	90	106	15
R01.135.080	DN 80 S1	89	127	57	18	108	5	108	127	15
R01.135.100	DN 100 S1	114	159	70	20	134	5	134	156	15
R01.135.125	DN 125 S1	140	187	84	12	163	5	163	181	15
R01.135.150	DN 150 S1	168	214	100	24	192	8	192	214	15
R11.135.225	DN 200 S1	225	270	126	25	250	6	247	267	12
R11.135.250	DN 225 S1	250	334	138	30	305	6	301	330	12
R11.135.315	DN 300 S1	315	376	171	35	362	6	350	374	12
R11.135.400	DN 375 S1	400	488	214	35	450	8	440	483	12

When using the new compact stub flanges it will be important to determine what equipment they are matching up to.

Where the flanges are being used with butterfly valves you will need to check the chordal diameter of the valve disc (the disc chord dimension at the face of the valve) to determine if there will be a clash with the pipe ID.

Where this is likely to occur we have the 138 series stub flange which is designed to take the potential clash into account.

CODE 134 – to suit backing ring drilled to JIS10K

CODE 135 – suits all other drillings

Complies with AS/NZS 3518.



### 138 SERIES STUB FLANGE

CODE	SIZE	ID MM	A MM	B MM	C MM	D MM	Z MM
R11.138. 225	200	225	270	144	35	250	250
R11.138. 250	225	250	334	191	70	305	60
R11.138. 315	300	315	376	224	70	362	60
R11.138. 400	375	400	488	306	110	450	100

Size Range: DN 200 to DN 375

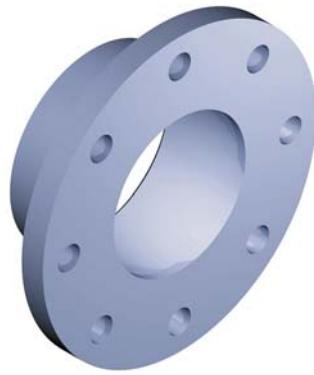
Temperature Range: -30°C to 60°C

Jointing Method: Solvent cement

Complies with AS/NZS 3518.

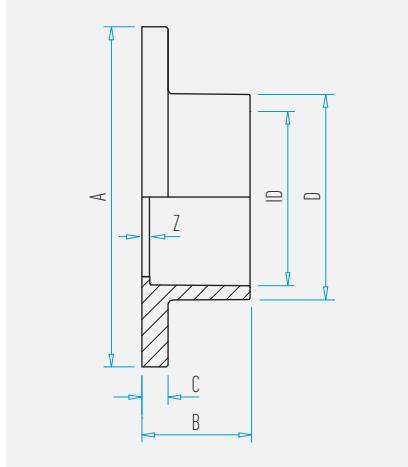
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



FULL FACE FLANGE - TABLE 'E'

CODE	SIZE	ID MM	A MM	B MM	C MM	D MM	Z MM	D* MM	PN RATING
R01.130.015	DN 15 S1	21	95	23	10	30	3	30	15
R01.130.020	DN 20 S1	27	100	25	10	35	3	35	15
R01.130.025	DN 25 S1	34	115	28	10	43	3	43	15
R01.130.032	DN 32 S1	42	140	32	10	52	3	52	15
R01.130.040	DN 40 S1	48	150	34	10	62	3	62	15
R01.130.050	DN 50 S1	60	165	40	10	74	3	74	15
R01.130.080	DN 80 S1	89	200	57	12	108	5	108	15
R01.130.100	DN 100 S1	114	220	70	17	134	5	134	15
R01.130.150	DN 150 S1	168	285	100	22	192	8	192	15



Backing rings are recommended to be used with full face flanges

CODE 129 - Undrilled

CODE 317 - Drilled Table D as 2129..

CODE 322 - Drilled ANSI 150

CODE 329 - Drilled JIS10K

Complies With AS/NZS 3518.

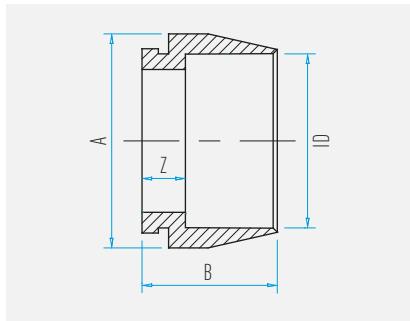
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



### SHOULDER END

CODE	SIZE	ID MM	A MM	B MM	Z MM	PN RATING
R01.954.050	DN 50 S1	60	74	70	33	15
R01.954.080	DN 80 S1	89	104	90	39	15
R01.954.100	DN 100 S1	114	141	108	45	15
R01.954.150	DN 150 S1	168	208	140	50	15

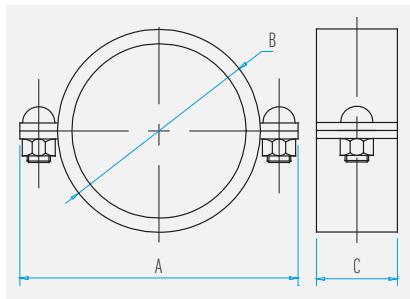


Complies with AS/NZS 3518..



### SHOULDER STYLE COUPLING

CODE	TO SUIT PIPE SIZE	ID MM	A MM	B MM
R03.953.050	DN 50 S1	140	98	44
R03.953.080	DN 80 S1	175	131	46
R03.953.100	DN 100 S1	205	162	50
R03.953.150	DN 150 S1	275	214	52



Casing - Galvanised Iron

Gasket - EDPM.

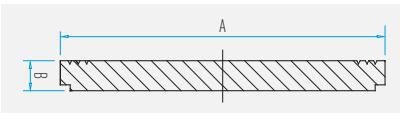
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



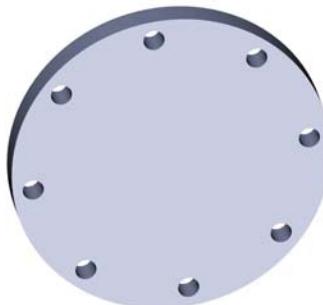
BLANK FLANGE - STUB STYLE - PN 12

CODE	SIZE	A MM	B MM
R11.136.225	DN 200 S1	270	25
R11.136.250	DN 225 S1	334	34
R11.136.315	DN 300 S1	376	40



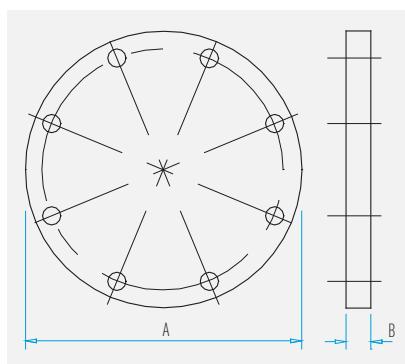
Requires a backing ring

For larger sizes steel plates are recommended.



BLANK FULL FACE - FLANGE TABLE 'E'

CODE	SIZE	A MM	B MM
R01.313.015	DN 15 S1	95	13
R01.313.020	DN 20 S1	100	13
R01.313.025	DN 25 S1	115	13
R01.313.032	DN 32 S1	140	13
R01.313.040	DN 40 S1	150	13
R01.313.050	DN 50 S1	165	13
R01.313.080	DN 80 S1	200	19
R01.313.100	DN 100 S1	220	19
R01.313.150	DN 150 S1	285	25

Backing rings are recommended  
to be used with blank full face flanges

CODE 131 - Undrilled

CODE 325 - Drilled ANSI 150

CODE 326 - Drilled Table D / AS 2129:

CODE 332 - Drilled JIS10K.

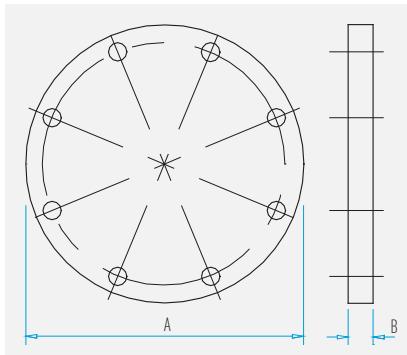
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BLIND STEEL PLATE

CODE	SIZE	A	B		
		MM	MM	TABLE D*	TABLE E*
R13.***.225	DN 200 S1	335	13	19	
R13.***.250	DN 225 S1	405	16	22	
R13.***.315	DN 300 S1	455	19	25	
R13.***.355	DN 350 S1	525	22	29	
R13.***.400	DN 375 S1	580	22	32	



Blind plastic liner is recommended to be used with blind steel plate

**Standard Material:** Hot dipped galvanised mild steel to AS/NZS 4680:.

CODE 731: Drilled Table E / AS 2129:.

CODE 732: Drilled Table D / AS 2129:.

Other drillings available on request.



BLIND ABS LINER

CODE	TO SUIT PIPE SIZE	A MM	B MM
R11.***.225	DN 200 S1	335	3
R11.***.250	DN 225 S1	405	3
R11.***.315	DN 300 S1	455	3
R11.***.355	DN 350 S1	525	3
R11.***.400	DN 375 S1	580	3

For use in conjunction with blind steel plate

**Standard Material:** ABS white sheet

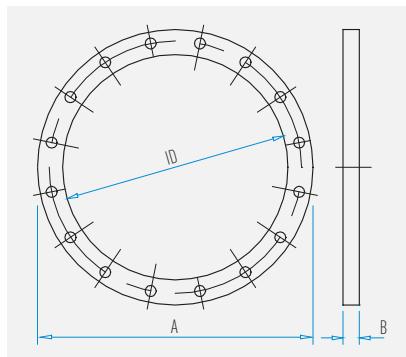
CODE 721: Drilled Table E / AS 2129:.

CODE 722: Drilled Table D / AS 2129:.

Other drillings available on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BACKING RING – TABLE D AS 2129

CODE	TO SUIT PIPE SIZE	ID MM	A MM	B MM	DN	PCD MM	NO OF HOLES	HOLE MM
R03.415.015	DN 15 S1	34	95	6	15	67	4	14
R03.415.020	DN 20 S1	40	100	6	20	73	4	14
R03.415.025	DN 25 S1	48	115	6	25	83	4	14
R03.415.032	DN 32 S1	58	120	6	32	87	4	14
R03.415.040	DN 40 S1	64	135	6	40	98	4	14
R03.415.050	DN 50 S1	79	150	8	50	114	4	18
R03.415.065	DN 65 S1	92	165	8	65	127	4	18
R03.415.080	DN 80 S1	112	185	8	80	146	4	18
R03.415.100	DN 100 S1	139	215	8	100	178	4	18
R03.415.125	DN 125 S1	167	255	10	125	210	8	18
R03.415.150	DN 150 S1	196	280	10	150	235	8	18
R13.415.225	DN 200 S1	258	335	10	200	292	8	18
R13.415.250	DN 225 S1	310	405	20	250	356	8	22
R13.415.315	DN 300 S1	366	455	20	300	406	12	22
R13.415.355	DN 350 S1	420	525	20	350	470	12	26
R13.415.400	*DN 375 S1	454	580	20	*400	521	12	26

When connecting abs systems to other systems please note variation between abs system 'DN' designation and as 2129 'DN' designation

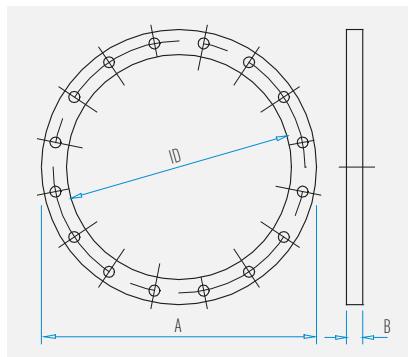
**Standard material:** Hot dipped galvanised mild steel to AS/NZS 4680:

Available in stainless steel on request: CODE 422

Other drillings available on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BACKING RING – TABLE E AS 2129

CODE	TO SUIT PIPE SIZE	ID MM	A MM	B MM	DN	PCD MM	NO OF HOLES	HOLE MM
R03.416.015	DN 15 S1	34	95	6	15	67	4	14
R03.416.020	DN 20 S1	40	100	6	20	73	4	14
R03.416.025	DN 25 S1	48	115	6	25	83	4	14
R03.416.032	DN 32 S1	58	120	6	32	87	4	14
R03.416.040	DN 40 S1	64	135	6	40	98	4	14
R03.416.050	DN 50 S1	79	150	8	50	114	4	18
R03.416.065	DN 65 S1	92	165	8	65	127	4	18
R03.416.080	DN 80 S1	112	185	8	80	146	4	18
R03.416.100	DN 100 S1	139	215	8	100	178	8	18
R03.416.125	DN 125 S1	167	255	10	125	210	8	18
R03.416.150	DN 150 S1	196	280	10	150	235	8	22
R13.416.225	DN 200 S1	258	335	10	200	292	8	22
R13.416.250	DN 225 S1	310	405	20	250	356	12	22
R13.416.315	DN 300 S1	366	455	20	300	406	12	26
R13.416.355	DN 350 S1	420	525	20	350	470	12	26
R13.416.400	*DN 375 S1	454	580	20	*400	521	12	26

When connecting abs systems to other systems please note variation between abs system 'DN' designation and as 2129 'DN' designation

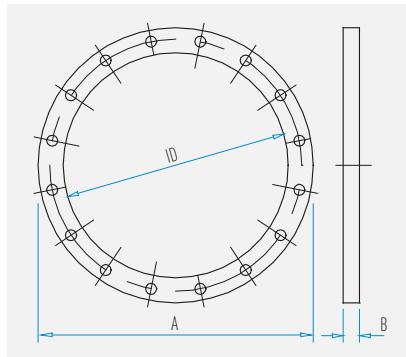
**Standard material:** Hot dipped galvanised mild steel to AS/NZS 4680:

Available in stainless steel on request: CODE 420

Other drillings available on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BACKING RING – ANSI150

CODE	TO SUIT PIPE SIZE	ID MM	A MM	B MM	DN	PCD MM	NO OF HOLES	HOLE MM
R03.425.015	DN 15 S1	34	95	6	15	60	4	15
R03.425.020	DN 20 S1	40	100	6	20	70	4	15
R03.425.025	DN 25 S1	48	115	6	25	79	4	15
R03.425.032	DN 32 S1	58	120	6	32	89	4	15
R03.425.040	DN 40 S1	64	135	6	40	98	4	15
R03.425.050	DN 50 S1	79	150	8	50	121	4	18
R03.425.065	DN 65 S1	92	165	8	65	140	4	18
R03.425.080	DN 80 S1	112	185	8	80	152	4	18
R03.425.100	DN 100 S1	139	215	8	100	191	8	18
R03.425.125	DN 125 S1	167	255	10	125	216	8	21
R03.425.150	DN 150 S1	196	280	10	150	241	8	21
R13.425.225	DN 200 S1	258	335	10	200	298	8	21
R13.425.250	DN 225 S1	310	405	20	250	362	12	25
R13.425.315	DN 300 S1	366	455	20	300	432	12	25
R13.425.355	DN 350 S1	420	525	20	350	476	12	28
R13.425.400	DN 375 S1	454	580	20	400	540	16	30

**Standard Material:** Hot dipped galvanised mild steel to AS/NZS 4680:

Available in stainless steel on request: CODE 430

Other drillings available on request.

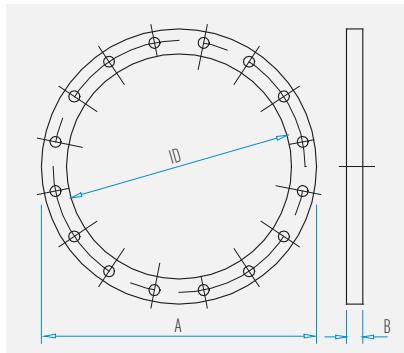
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BACKING RING - JIS10K

CODE	TO SUIT PIPE SIZE	ID MM	A MM	B MM	DN	PCD MM	NO OF HOLES	HOLE MM
R03.413.015	DN 15 S1	34	95	6	15	70	4	14
R03.413.020	DN 20 S1	40	100	6	20	75	4	14
R03.413.025	DN 25 S1	48	125	6	25	90	4	18
R03.413.032	DN 32 S1	58	135	6	32	100	4	18
R03.413.040	DN 40 S1	64	140	6	40	105	4	18
R03.413.050	DN 50 S1	79	155	8	50	120	4	18
R03.413.065	DN 65 S1	92	175	8	65	140	4	18
R03.413.080	DN 80 S1	112	185	8	80	150	8	18
R03.413.100	DN 100 S1	139	210	8	100	175	8	18
R03.413.125	DN 125 S1	167	250	10	125	210	8	22
R03.413.150	DN 150 S1	196	280	10	150	240	8	22
R13.413.225	DN 200 S1	258	330	10	200	290	12	22
R13.413.250	DN 225 S1	310	400	20	250	355	12	24
R13.413.315	DN 300 S1	366	445	20	300	400	16	24
R13.413.355	DN 350 S1	420	490	20	350	445	16	24
R13.413.400	*DN 375 S1	454	560	20	*400	510	16	26



When connecting abs systems to other systems please note variation between abs system 'DN' designation and jis 10k 'DN' designation

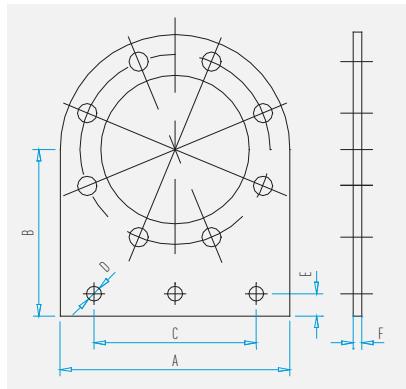
**Standard Material:** Hot dipped galvanised mild steel to AS/NZS 4680:

Available in stainless steel on request: CODE 445

Other drillings available on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



VALVE SUPPORT PLATE

CODE	TO SUIT PIPE SIZE	A MM	B MM	C MM	D MM	E MM	F MM
R03.***.015	DN 15 S1	95	86	51	14	16	8
R03.***.020	DN 20 S1	100	89	76	14	16	8
R03.***.025	DN 25 S1	115	95	76	14	16	8
R03.***.032	DN 32 S1	120	99	76	14	16	8
R03.***.040	DN 40 S1	135	105	76	14	16	8
R03.***.050	DN 50 S1	150	127	102	14	22	8
R03.***.065	DN 65 S1	165	143	115	14	22	8
R03.***.080	DN 80 S1	185	143	126	14	22	8
R03.***.100	DN 100 S1	215	159	152	14	22	8
R03.***.125	DN 125 S1	255	185	190	14	30	10
R03.***.150	DN 150 S1	280	216	230	18	33	10
R13.***.225	DN 200 S1	335	248	280	18	33	10
R13.***.250	DN 225 S1	405	298	340	22	40	12
R13.***.315	DN 300 S1	455	348	390	22	40	12

**Standard Material:** Hot dipped galvanised mild steel to AS/NZS 4680

Code 460: Drilled Table E / AS 2129:

Code 465: Drilled Table D / AS 2129:

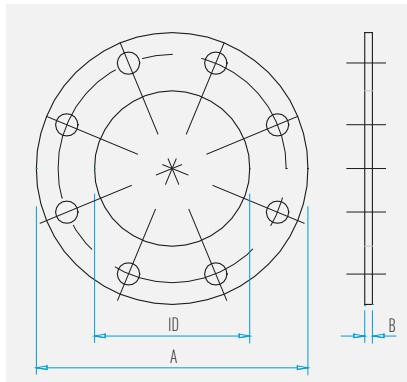
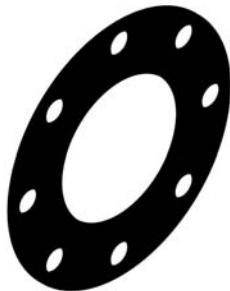
Code 470: Drilled to ANSI 150

Other drillings available on request

Available in stainless steel on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



GASKET - FULL FACE STYLE

CODE	SIZE	ID MM	A MM	B MM
R04.***.015	DN 15 S1	22	95	3
R04.***.020	DN 20 S1	28	100	3
R04.***.025	DN 25 S1	35	115	3
R04.***.032	DN 32 S1	43	120	3
R04.***.040	DN 40 S1	49	135	3
R04.***.050	DN 50 S1	61	150	3
R04.***.080	DN 80 S1	90	185	3
R04.***.100	DN 100 S1	115	215	3
R04.***.150	DN 150 S1	169	280	3
R14.***.225	DN 200 S1	226	335	8
R14.***.250	DN 225 S1	251	405	8
R14.***.315	DN 300 S1	316	455	8
R14.***.355	DN 350 S1	356	535	8
R14.***.400	DN 375 S1	401	580	8

See notes and drilling details  
on pages 3.39, 3.40, 3.41, 3.42

**Standard Material:** EPDM. Other materials are available on request

Code 409: Drilled Table D\* / AS 2129:

Code 410: Drilled Table E\* / AS 2129:

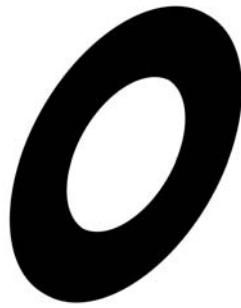
Code 426: Drilled to ANSI 150\*

Other drillings available on request.



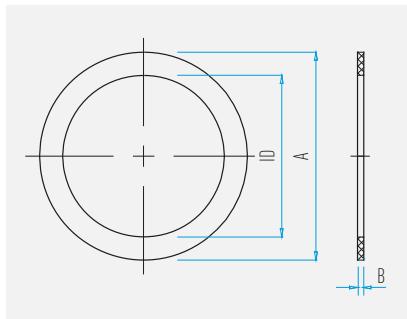
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



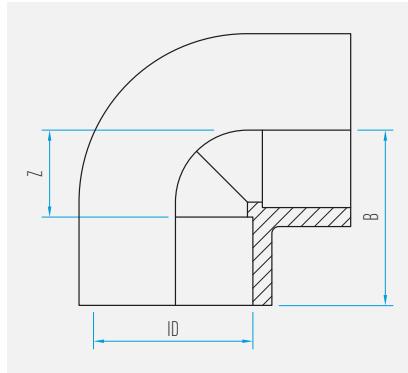
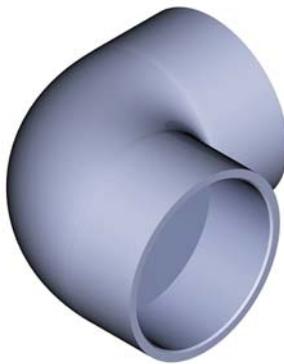
GASKET - STUB FLANGE STYLE - EPDM

CODE	SIZE	ID MM	A MM	B MM
R04.431.050	DN 50 S1	61	97	3
R04.431.065	DN 65 S1	76	105	3
R04.431.080	DN 80 S1	90	129	3
R04.431.100	DN 100 S1	115	161	3
R04.431.125	DN 125 S1	141	187	3
R04.431.150	DN 150 S1	169	214	3



## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



ELBOW 90°

CODE	SIZE	ID MM	B MM	Z MM	PN RATING
R01.115.015	DN 15 S1	21	31	11	15
R01.115.020	DN 20 S1	27	36	14	15
R01.115.025	DN 25 S1	34	43	18	15
R01.115.032	DN 32 S1	42	51	22	15
R01.115.040	DN 40 S1	48	56	25	15
R01.115.050	DN 50 S1	60	69	32	15
R01.115.065	DN 65 S1	75	83	39	15
R01.115.080	DN 80 S1	89	102	50	15
R01.115.100	DN 100 S1	114	147	71	15
R01.115.125	DN 125 S1	140	180	96	15
R01.115.150	DN 150 S1	168	180	88	15
R11.115.225	DN 200 S1	225	235	116	12
R11.115.250V	DN 225 S1	250	258	127	12
R11.115.315V	DN 300 S1	315	322	158	12
R11.115.355R	DN 350 S1	355	507	323	9
R11.115.400V	DN 375 S1	400	507	300	9

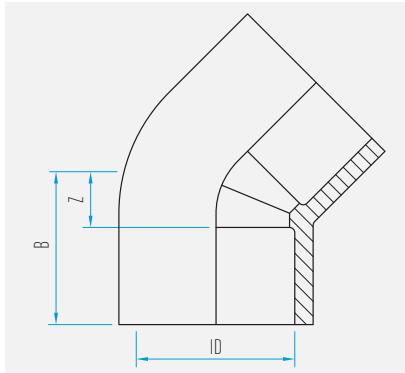
Elbow DN 350 is manufactured from elbow DN 375 fitted with DN 375 - DN 350 reducing bushes.

For DN 200 and above, elbows with higher pressure ratings are available.

They are manufactured from abs layered with glass reinforced epoxy and are designed and manufactured in accordance with duraflo internal quality and manufacturing procedures and specifications and type tested at 3.2 times the design pressure.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



ELBOW 45°

CODE	SIZE	ID MM	B MM	Z MM	PN RATING
R01.119.015	DN 15 S1	21	27	7	15
R01.119.020	DN 20 S1	27	30	8	15
R01.119.025	DN 25 S1	34	35	10	15
R01.119.032	DN 32 S1	42	42	13	15
R01.119.040	DN 40 S1	48	45	14	15
R01.119.050	DN 50 S1	60	54	17	15
R01.119.065	DN 65 S1	75	61	17	15
R01.119.080	DN 80 S1	89	74	21	15
R01.119.100	DN 100 S1	114	94	28	15
R01.119.125	DN 125 S1	140	107	31	15
R01.119.150	DN 150 S1	168	132	40	15
R11.119.225V	DN 200 S1	225	171	52	12
R11.119.250V	DN 225 S1	250	190	58	12
R11.119.315V	DN 300 S1	315	232	68	12
R11.119.355R	DN 350 S1	355	294	110	9
R11.119.400V	DN 375 S1	400	294	87	9

Elbow DN 350 is manufactured from elbow DN 375 fitted with DN 375 – DN 350 reducing bushes.

For DN 200 and above, elbows with higher pressure ratings are available.

They are manufactured from abs layered with glass reinforced epoxy and are designed and manufactured in accordance with duraflo internal quality and manufacturing procedures and specifications and type tested at 3.2 times the design pressure.

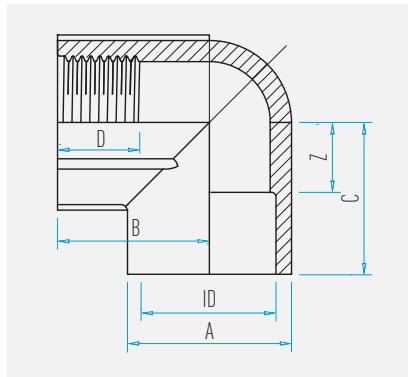
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



FAUCET ELBOW 90°

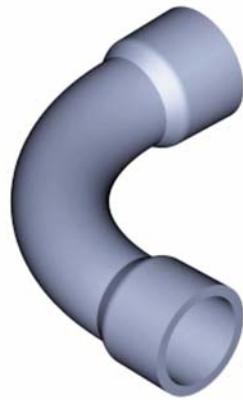
CODE	SIZE SW SOCKET	THREADED	A MM	B MM	C MM	D MM	ID MM	Z MM	PN RATING
R01.116.015	DN 15 S1	1/2" BSP	29	29	31	18	21	11	15
R01.116.020	DN 20 S1	3/4" BSP	35	35	36	21	27	14	15
R01.116.025	DN 25 S1	1" BSP	44	42	43	24	34	18	15
R01.116.020015	DN 20 S1	1/2" BSP	35	32	36	18	27	14	15



Complies with AS/NZS 3518.

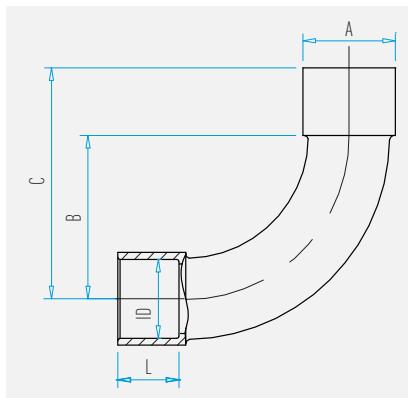
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



MOULDED BEND 90°

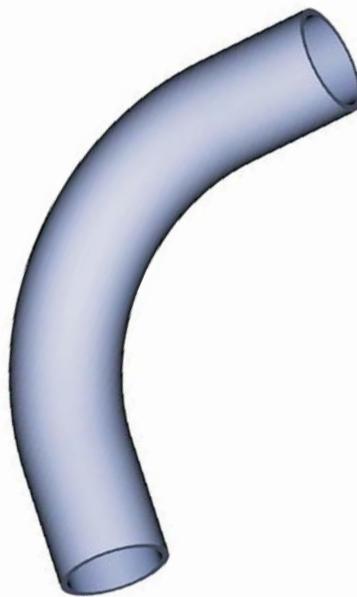
CODE	SIZE	ID MM	A MM	B MM	C MM	L MM	PN RATING
R01.118.015	DN 15 S1	21	29	40	58	20	15
R01.118.020	DN 20 S1	27	35	50	71	22	15
R01.118.025	DN 25 S1	34	43	64	88	25	15
R01.118.032	DN 32 S1	42	54	80	109	29	15
R01.118.040	DN 40 S1	48	64	100	131	31	15
R01.118.050	DN 50 S1	60	76	126	163	37	15
R01.118.065	DN 65 S1	75	93	150	195	44	15
R01.118.080	DN 80 S1	89	113	180	231	53	15
R01.118.100	DN 100 S1	114	137	220	284	65	15



Complies with AS/NZS 3518.

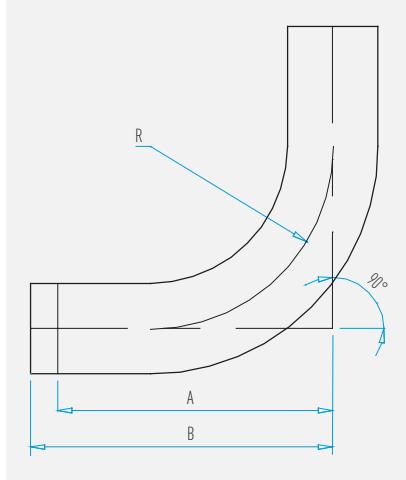
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BEND 90° SHORT RADIUS – R = 2.5D (SP-SP)

CODE	SIZE	A MM	B MIN MM	PN RATING
R01.308150.050	DN 50 S1 PN 15	208	251	15
R01.308150.065	DN 65 S1 PN 15	252	288	15
R01.308150.080	DN 80 S1 PN 15	295	327	15
R01.308150.100	DN 100 S1 PN 15	371	416	15
R01.308150.125	DN 125 S1 PN 15	447	503	15
R01.308150.150	DN 150 S1 PN 15	532	604	15
R11.308090.225	DN 200 S1 PN 9	800	947	9
R11.308090.250	DN 225 S1 PN 9	887	960	9
R11.308090.315	DN 300 S1 PN 9	1115	1215	9
R11.308090.355	DN 350 S1 PN 9	1255	1355	9
R11.308090.400	DN 375 S1 PN 9	1411	1511	9



A = minimum leg length

Manufacturing tolerances apply

Other angles are available upon request

The following additional bend pressure ratings are available upon request:

All sizes	CODE 308045
All sizes	CODE 308060
DN 50 to DN 150	CODE 308120

Higher pressure rated bends are available with glass reinforced epoxy and are supplied complete with sockets at both ends. They are designed and manufactured in accordance with duraflo internal quality and manufacturing procedures and specifications and type tested at 3.2 times the design pressure

Bends supplied plain ended, require sockets or stub & backing ring for joining.

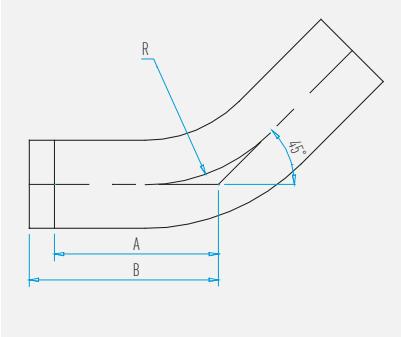
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BEND 45° SHORT RADIUS – R = 2.5D [SP-SP]

CODE	SIZE	A MM	B MIN MM	PN RATING
R01.312150.050	DN 50 S1 PN 15	119	212	15
R01.312150.065	DN 65 S1 PN 15	142	254	15
R01.312150.080	DN 80 S1 PN 15	165	267	15
R01.312150.100	DN 100 S1 PN 15	203	318	15
R01.312150.125	DN 125 S1 PN 15	241	385	15
R01.312150.150	DN 150 S1 PN 15	286	434	15
R11.312120.225	DN 200 S1 PN 12	471	753	12
R11.312120.250	DN 225 S1 PN 12	521	839	12
R11.312120.315	DN 300 S1 PN 12	654	936	12
R11.312120.355	DN 350 S1 PN 12	736	1083	12
R11.312120.400	DN 375 S1 PN 12	826	1214	12



A = minimum leg length

Manufacturing tolerances apply

Other angles are available upon request

The following additional bend pressure ratings are available upon request:

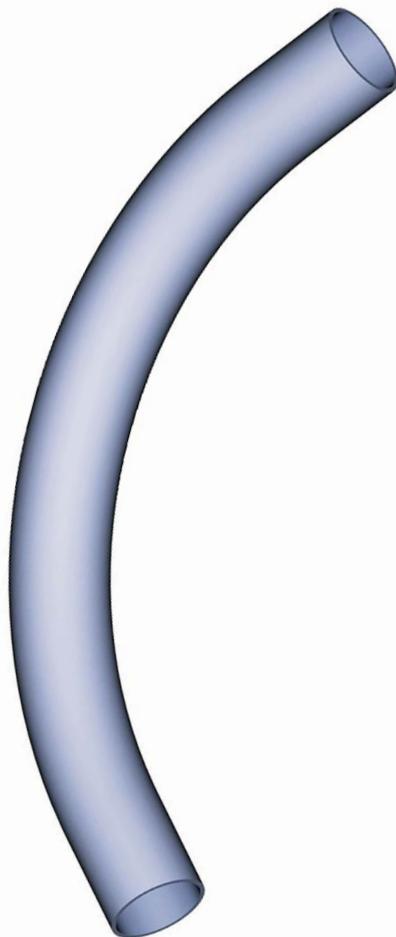
PN 4.5      CODE 312045  
PN 6      CODE 312060  
PN 9      CODE 312090

Larger diameter bends are supplied with glass reinforced epoxy and are supplied complete with sockets at both ends. They are designed and manufactured in accordance with duraflo internal quality and manufacturing procedures and specifications and type tested at 3.2 times the design pressure

Bends supplied plain ended, require sockets or stub & backing ring for joining.

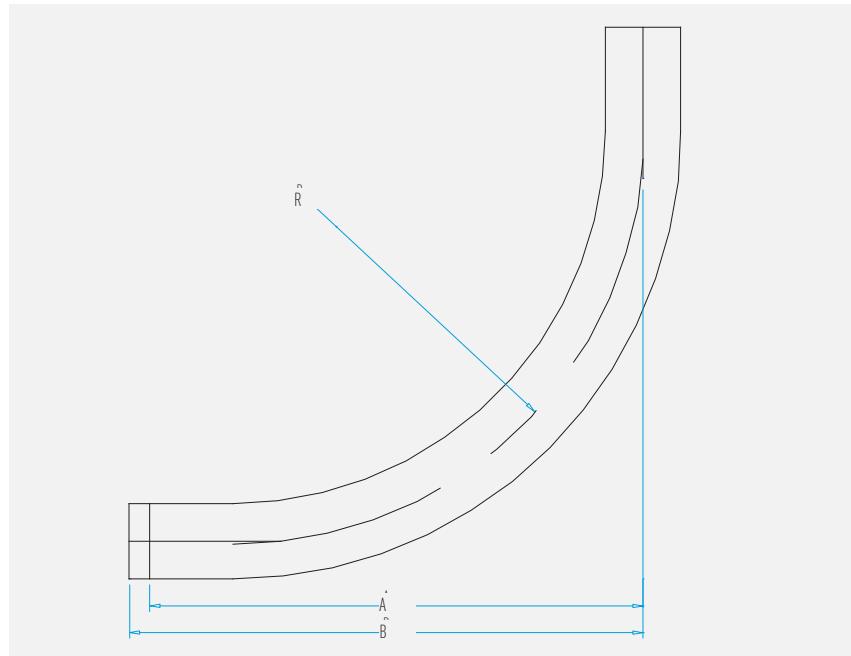
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BEND 90° LONG RADIUS – R = 5D (SP-SP)

CODE	SIZE	A	B	PN
		MM	MIN MM	RATING
R01.309150.050	DN 50 S1 PN 15	357	570	15
R01.309150.065	DN 65 S1 PN 15	439	845	15
R01.309150.080	DN 80 S1 PN 15	523	870	15
R01.309150.100	DN 100 S1 PN 15	655	950	15
R01.309150.125	DN 125 S1 PN 15	796	970	15
R01.309150.150	DN 150 S1 PN 15	952	1165	15
R11.309120.225	DN 200 S1 PN 12	1264	1495	12
R11.309120.250	DN 225 S1 PN 12	1401	1615	12
R11.309120.315	DN 300 S1 PN 12	1758	2024	12
R11.309120.355	DN 350 S1 PN 12	1978	2274	12
R11.309120.400	DN 375 S1 PN 12	2226	2600	12



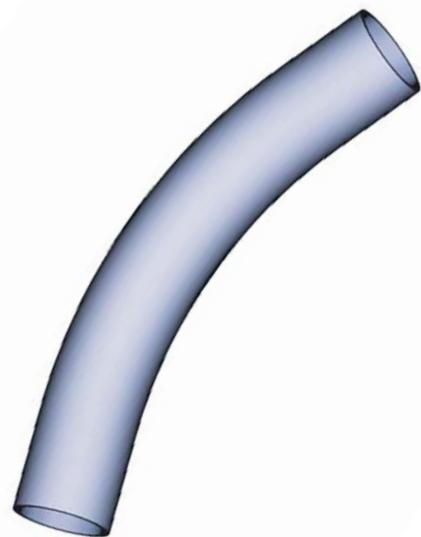
A = Minimum Leg Length

Manufacturing tolerances apply

Other angles and pressure ratings  
are available upon requestBends supplied plain ended, require sockets  
or stub & backing ring for joining.

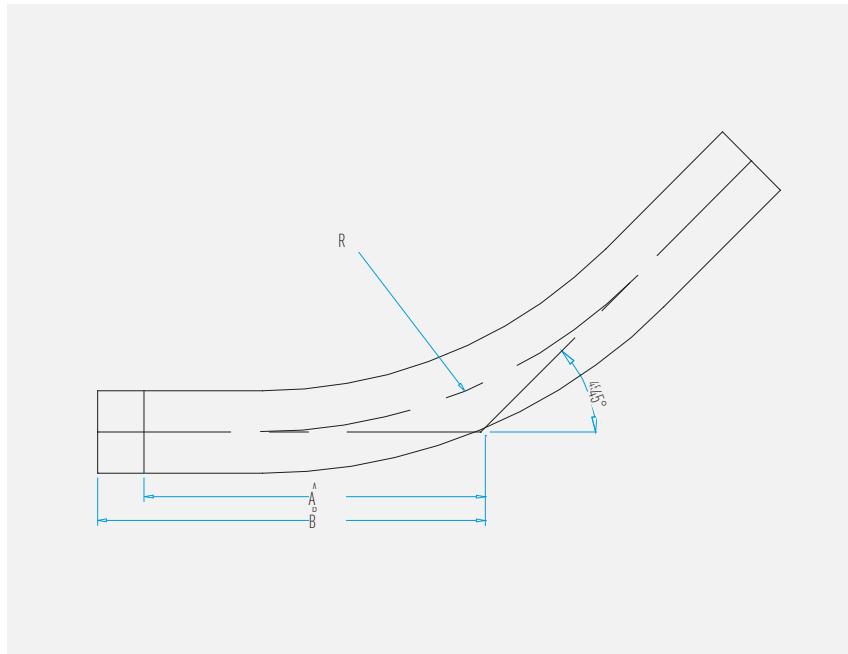
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



BEND 45° LONG RADIUS – R = 5D (SP-SP)

CODE	SIZE	A MM	B MIN MM	PN RATING
R01.310150.050	DN 50 S1 PN 15	181	514	15
R01.310150.065	DN 65 S1 PN 15	219	756	15
R01.310150.080	DN 80 S1 PN 15	259	776	15
R01.310150.100	DN 100 S1 PN 15	321	806	15
R01.310150.125	DN 125 S1 PN 15	386	830	15
R01.310150.150	DN 150 S1 PN 15	460	968	15
R11.310120.225	DN 200 S1 PN 12	605	1276	12
R11.310120.250	DN 225 S1 PN 12	668	1357	12
R11.310120.315	DN 300 S1 PN 12	836	1622	12
R11.310120.355	DN 350 S1 PN 12	939	1870	12
R11.310120.400	DN 375 S1 PN 12	1054	2078	12



A = Minimum Leg Length

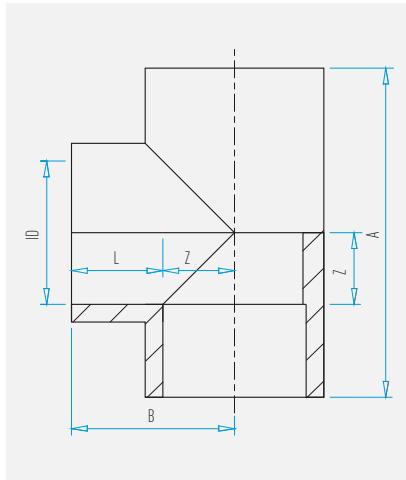
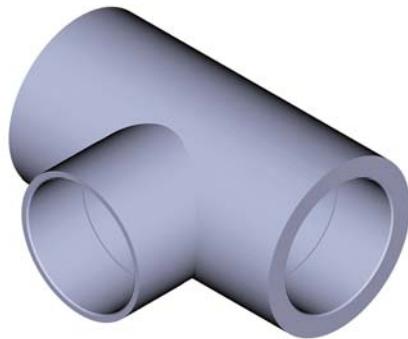
Manufacturing tolerances apply

Other angles and pressure ratings  
are available upon request

Bends supplied plain ended, require sockets  
or stub & backing ring for joining.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



EQUAL TEE (SO-SO x SO)

CODE	SIZE	ID MM	A MM	B MM	L MM	Z MM	TYPE	PN RATING
R01.122.015	DN 15 S1	21	63	31	20	11	M	15
R01.122.020	DN 20 S1	27	72	36	22	14	M	15
R01.122.025	DN 25 S1	34	85	43	25	18	M	15
R01.122.032	DN 32 S1	42	102	51	29	22	M	15
R01.122.040	DN 40 S1	48	112	56	31	25	M	15
R01.122.050	DN 50 S1	60	137	69	37	32	M	15
R01.122.065	DN 65 S1	75	166	83	44	39	M	15
R01.122.080	DN 80 S1	89	204	102	53	49	M	15
R01.122.100	DN 100 S1	114	258	129	65	64	M	15
R01.122.125	DN 125 S1	140	298	149	76	73	F	15
R01.122.150	DN 150 S1	168	360	180	92	88	M	15
R11.122.225V	DN 200 S1	225	463	232	119	113	M	12
R11.122.250V	DN 225 S1	250	526	263	131	132	M	12
R11.122.315V	DN 300 S1	315	644	322	164	158	M	12
R11.122.355	DN 350 S1	355	840	420	184	236	F	6
R11.122.400V	DN 375 S1	400	840	420	206	214	M	6

Complies with AS/NZS 3518

Tee DN 350 is manufactured from tee DN 375 fitted with DN 375 - DN 350 reducing bushes

For DN 200 and above, tees with higher pressure ratings are available

They are manufactured from ABS layered with glass reinforced epoxy and are designed and manufactured in accordance with duraflo internal quality and manufacturing procedures and specifications and type tested at 3.2 times the design pressure.

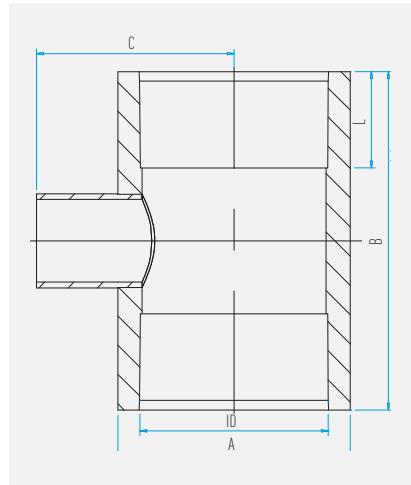
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



REDUCING TEE - SPIGOT OFFTAKE (SO-SO x SP)

CODE	SIZE	ID MM	A MM	B MM	C MM	L MM	PN RATING
R11.120.225150	DN 200-DN 150	225	315	500	250	120	12
R11.120.250150	DN 225-DN 150	250	339	500	325	131	12
R11.120.315225	DN 300-DN 200	315	400	650	375	164	12
R11.120.355250	DN 350-DN 225	355	450	720	450	184	12
R11.120.400250	DN 375-DN 225	400	500	800	450	206	12



Complies with AS/NZS 3518

Maximum allowable spigot diameter is shown

Reducers to smaller diameter spigots are available upon request.

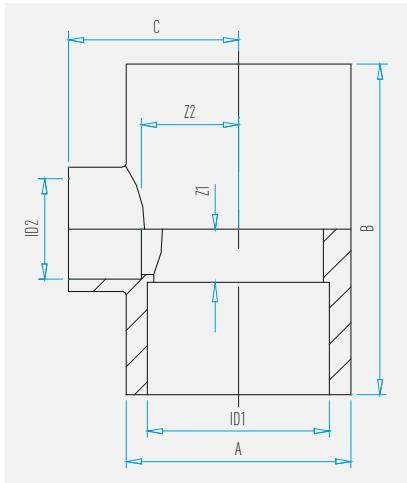
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



REDUCING TEE – SOCKET OFFTAKE (SO-SO x SO)

CODE	SIZE	A MM	B MM	C MM	ID1 MM	ID2 MM	Z1 MM	Z2 MM	PN RATING
R01.122.020015	DN 20-DN 15	33	67	34	27	21	12	14	15
R01.122.025015	DN 25-DN 15	41	73	38	34	21	12	18	15
R01.122.025020	DN 25-DN 20	41	78	40	34	27	14	18	15
R01.122.040025	DN 40-DN 25	59	97	50	48	34	18	25	15
R01.122.050025	DN 50-DN 25	74	109	56	60	34	18	31	15
R01.122.050040	DN 50-DN 40	74	125	62	60	48	26	31	15



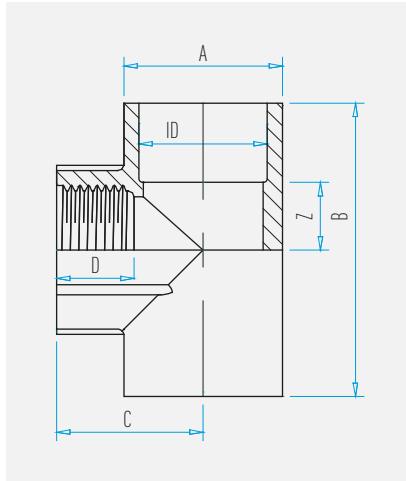
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



TEE - THREADED OFFTAKE (SO-SO x TH)

CODE	SIZE		ID MM	A MM	B MM	C MM	D MM	Z MM	PN RATING
	SW SOCKET	THREADED							
R01.121.015	DN 15 S1	1/2" BSP	21	29	63	29	18	11	15
R01.121.020015	DN 20 S1	1/2" BSP	27	35	67	32	18	12	15
R01.121.020	DN 20 S1	3/4" BSP	27	44	72	35	21	14	15
R01.121.025015	DN 25 S1	1/2" BSP	34	35	73	35	18	12	15
R01.121.025	DN 25 S1	1" BSP	34	44	85	42	24	18	15

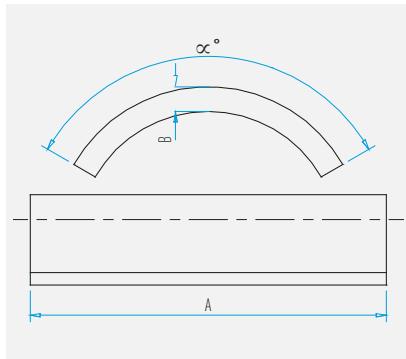


## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS

## SADDLE STRIPS

CODE	SIZE	DEGREE	A	D MM
R01.146.080	DN 80 S1	120°	300	1/2"
R01.146.100	DN 100 S1	120°	300	1"
R01.146.125	DN 125 S1	120°	300	1"
R01.146.150	DN 150 S1	120°	300	1 1/4"
R11.146.225	DN 200 S1	60°	300	1 1/4"
R11.146.250	DN 225 S1	60°	300	1 1/2"
R11.146.315	DN 300 S1	60°	300	1 1/2"
R11.146.355	DN 350 S1	60°	300	1 1/2"
R11.146.400	DN 375 S1	60°	300	1 1/2"



Complies with AS/NZS 3518.

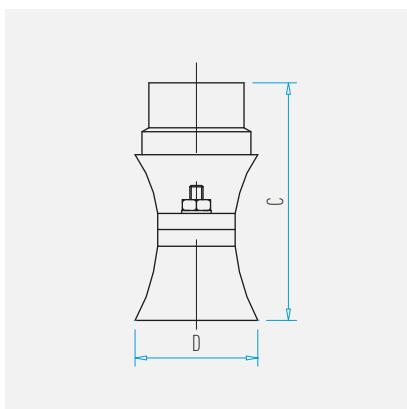
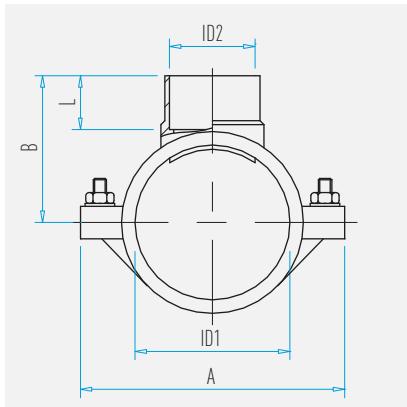
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



TAPPING SADDLES

CODE	SIZE MAIN	OFFTAKE	A MM	B MM	ID1 MM	ID2 MM	C MM	D MM	L MM	PN RATING
R01.127.080050	DN 80 S1	DN 50 S1	150	96	89	60	145	90	37	12
R01.127.100050	DN 100 S1	DN 50 S1	175	108	114	60	170	100	37	12

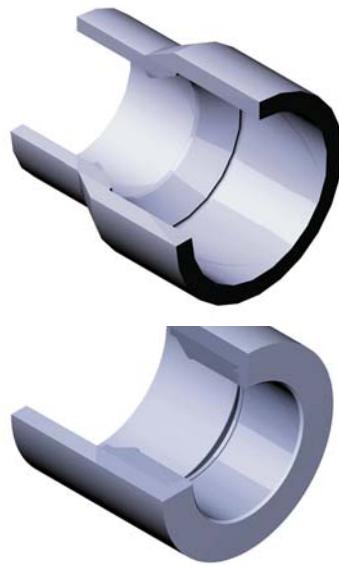


D = Maximum size of the threaded tapping

Saddle strip supplied with stainless steel straps.

## ABS SYSTEMS FITTINGS

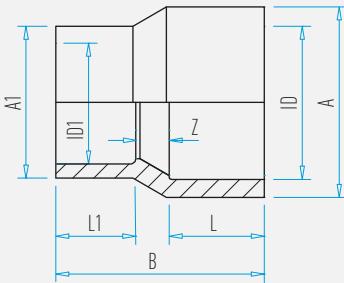
FOR INDUSTRIAL APPLICATIONS



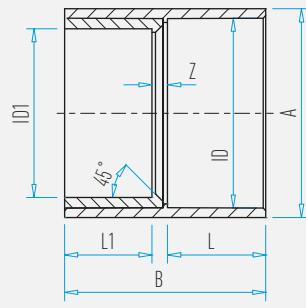
REDUCING COUPLER

CODE	SIZE	A	A1	B	ID	ID1	L	L1	Z	TYPE	PN RATING
		MM	MM								
R01.114.020015	DN 20 - DN 15 S1	34	27	46	27	21	22	20	4	M	15
R01.114.025015	DN 25 - DN 15 S1	42	27	52	34	21	25	20	7	M	15
R01.114.025020	DN 25 - DN 20 S1	42	34	52	34	27	25	22	5	M	15
R01.114.032025	DN 32 - DN 25 S1	52	43	64	42	34	29	25	10	M	15
R01.114.040025	DN 40 - DN 25 S1	59	43	71	48	34	31	25	15	M	15
R01.114.040032	DN 40 - DN 32 S1	59	52	68	48	42	31	29	8	M	15
R01.114.050040	DN 50 - DN 40 S1	74	62	81	60	48	37	31	13	M	15
R01.114.065050	DN 65 - DN 50 S1	93	94	94	75	60	44	37	9	F	15
R01.114.080050	DN 80 - DN 50 S1	110	74	112	89	60	53	37	23	M	15
R01.114.080065	DN 80 - DN 65 S1	110	112	112	89	75	53	44	17	F	15
R01.114.100080	DN 100 - DN 80 S1	134	108	133	114	89	65	53	29	M	15
R01.114.125100	DN 125 - DN 100 S1	173	165	165	140	114	76	65	32	F	9
R01.114.150100	DN 150 - DN 100 S1	204	141	204	168	114	92	65	51	M	15
R01.114.150125	DN 150 - DN 125 S1	204	192	192	168	140	92	76	19	F	15
R11.114.225150	DN 200 - DN 150 S1	247	-	246	225	168	119	92	35	F	12
R11.114.225195	DN 200 - DN 195 S1	247	-	246	225	219	119	116	20	F	12
R11.114.250225	DN 225 - DN 200 S1	275	-	271	250	225	131	119	21	F	12
R11.114.315250	DN 300 - DN 225 S1	344	-	357	315	250	164	131	39	F	12
R11.114.355315	DN 350 - DN 300 S1	388	-	377	355	315	184	164	26	F	9
R11.114.400355	DN 375 - DN 350 S1	440	-	423	400	355	206	184	30	F	9

MOULDED



FABRICATED



Complies with AS/NZS 3518.

## ABS SYSTEMS FITTINGS

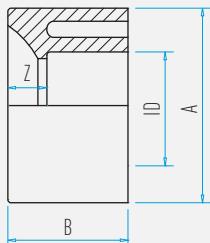
FOR INDUSTRIAL APPLICATIONS



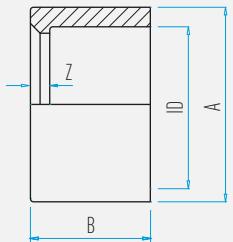
### REDUCING BUSH

CODE	SIZE	ID MM	A MM	B MM	Z MM	PN RATING
R01.109.020015	DN 20 - DN 15 S1	21	27	22	2	15
R01.109.025015	DN 25 - DN 15 S1	21	34	25	5	15
R01.109.025020	DN 25 - DN 20 S1	27	34	25	3	15
R01.109.032015	DN 32 - DN 15 S1	21	42	29	9	15
R01.109.032020	DN 32 - DN 20 S1	27	42	29	7	15
R01.109.032025	DN 32 - DN 25 S1	34	42	29	4	15
R01.109.040015	DN 40 - DN 15 S1	21	48	31	11	15
R01.109.040020	DN 40 - DN 20 S1	27	48	31	9	15
R01.109.040025	DN 40 - DN 25 S1	34	48	31	6	15
R01.109.040032	DN 40 - DN 32 S1	42	48	31	2	15
R01.109.050025	DN 50 - DN 25 S1	34	60	37	12	15
R01.109.050032	DN 50 - DN 32 S1	42	60	37	8	15
R01.109.050040	DN 50 - DN 40 S1	48	60	37	6	15
R01.109.065050	DN 65 - DN 50 S1	60	75	44	8	15
R01.109.080020	DN 80 - DN 20 S1	27	89	52	30	15
R01.109.080040	DN 80 - DN 40 S1	48	89	52	21	15
R01.109.080050	DN 80 - DN 50 S1	60	89	52	15	15
R01.109.080065	DN 80 - DN 65 S1	75	89	52	6	15
R01.109.100050	DN 100 - DN 50 S1	60	114	64	28	15
R01.109.100080	DN 100 - DN 80 S1	89	114	64	13	15
R01.109.125100	DN 125 - DN 100 S1	114	140	83	20	15
R01.109.150100	DN 150 - DN 100 S1	114	168	92	27	15
R01.109.150125	DN 150 - DN 125 S1	140	168	92	7	15
R11.109.225150	DN 200 - DN 150 S1	168	225	120	29	12
R11.109.250225	DN 225 - DN 200 S1	225	250	131	12	12
R11.109.315250	DN 300 - DN 225 S1	250	315	164	33	12
R11.109.355315	DN 350 - DN 300 S1	315	355	184	20	12
R11.109.400355	DN 375 - DN 350 S1	355	400	206	22	12

TYPE A



TYPE B



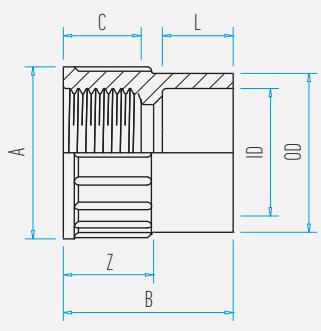
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



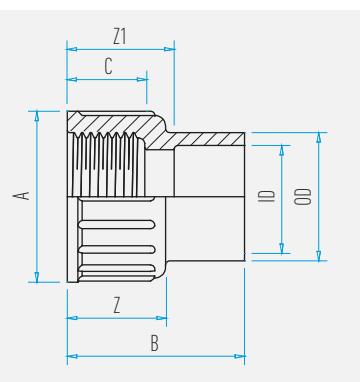
FAUCET SOCKET – PLAIN THREADED SOCKET

CODE	SIZE SW SOCKET	THREAD	SPIGOT	A	B	C	ID	L	OD	Z	PN
				MM	RATING						
R01.101.015	DN 15 S1	1/2" BSP	DN 20 S1	32	41	18	21	20	27	19	15
R01.101.020	DN 20 S1	3/4" BSP	DN 25 S1	38	47	21	27	22	34	22	15
R01.101.025	DN 25 S1	1" BSP	DN 32 S1	47	54	24	34	25	42	25	15
R01.101.032	DN 32 S1	1 1/4" BSP	-	57	61	28	42	29	-	-	15
R01.101.040	DN 40 S1	1 1/2" BSP	DN 50 S1	65	66	28	48	31	60	29	15
R01.101.050	DN 50 S1	2" BSP	-	80	73	31	60	37	-	-	15



FAUCET ADAPTOR – FEMALE

CODE	SIZE SW SOCKET	THREAD	SPIGOT	A	B	C	ID	OD	Z	Z1	PN
				MM	RATING						
R01.153.015	DN 15 S1	1/2" BSP	-	32	42	18	-	21	22	-	15
R01.153.020	DN 20 S1	3/4" BSP	DN 15 S1	38	47	21	21	27	25	27	15
R01.153.025	DN 25 S1	1" BSP	DN 20 S1	47	53	24	27	34	28	31	15
R01.153.032	DN 32 S1	1 1/4" BSP	DN 25 S1	57	63	28	34	42	34	38	15
R01.153.040	DN 40 S1	1 1/2" BSP	-	65	65	28	-	48	34	-	15
R01.153.050	DN 50 S1	2" BSP	DN 40 S1	80	76	31	48	60	39	43	15



Complies with AS/NZS 3518.

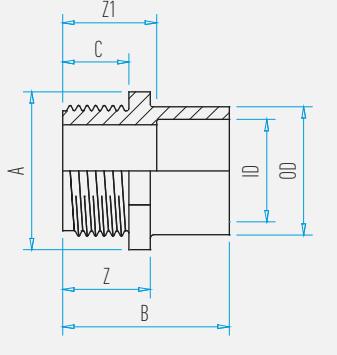
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



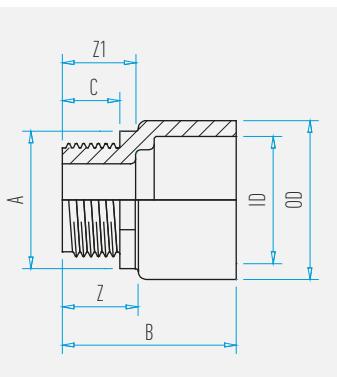
VALVE ADAPTOR – PLAIN THREADED NIPPLE

CODE	SIZE		A MM	B MM	C MM	ID MM	OD MM	Z1 MM	Z MM	PN RATING
	SW SPIGOT	THREAD								
R01.107.015	DN 15 S1	1/2"	-	27	41	15	-	21	-	21 15
R01.107.020	DN 20 S1	3/4"	DN 15 S1	36	46	17	21	27	26	24 15
R01.107.025	DN 25 S1	1"	DN 20 S1	43	51	19	27	34	29	26 15
R01.107.032	DN 32 S1	1 1/4"	DN 25 S1	52	59	22	34	42	34	30 15
R01.107.040	DN 40 S1	1 1/2"	-	59	62	22	-	48	-	31 15
R01.107.050	DN 50 S1	2"	DN 40 S1	74	73	26	48	60	36	36 15



VALVE ADAPTOR – PLAIN THREADED NIPPLE

CODE	SIZE		A MM	B MM	C MM	ID MM	OD MM	Z1 MM	Z MM	PN RATING
	SW SPIGOT	THREAD								
R01.107.020015	DN 20 S1	1/2"	DN 15 S1	27	43	15	21	27	19	21 15
R01.107.025015	DN 25 S1	1/2"	DN 20 S1	27	47	15	27	34	25	22 15
R01.107.025020	DN 25 S1	3/4"	DN 20 S1	36	49	17	27	34	27	24 15
R01.107.032025	DN 32 S1	1"	DN 25 S1	43	55	19	34	42	30	26 15
R01.107.040025	DN 40 S1	1"	-	43	58	19	-	48	-	27 15
R01.107.040032	DN 40 S1	1 1/4"	-	52	61	22	-	48	-	30 15
R01.107.050025	DN 50 S1	1"	DN 25 S1	43	64	19	48	60	33	27 15
R01.107.050040	DN 50 S1	1 1/2"	DN 40 S1	59	68	22	48	60	27	31 15

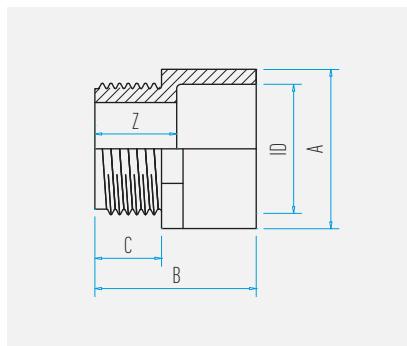


## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS

VALVE SOCKET - MALE ADAPTOR

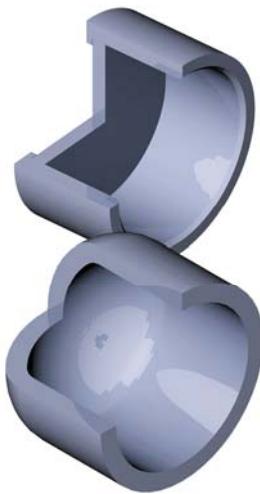
CODE	SIZE SW SOCKET	THREAD	A MM	B MM	C MM	ID MM	Z MM	PN RATING
R01.151.015	DN 15 S1	1/2" BSP	27	38	15	21	18	15
R01.151.020	DN 20 S1	3/4" BSP	34	42	17	27	20	15
R01.151.025	DN 25 S1	1" BSP	43	49	19	34	24	15
R01.151.032	DN 32 S1	1 1/4" BSP	52	56	22	42	27	15
R01.151.040	DN 40 S1	1 1/2" BSP	59	58	22	48	27	15
R01.151.050	DN 50 S1	2" BSP	74	70	26	60	33	15
R01.151.080	DN 80 S1	3" BSP	107	95	31	89	46	12
R01.151.100	DN 100 S1	4" BSP	129	110	39	114	55	12



Complies with AS/NZS 3518.

## ABS SYSTEMS FITTINGS

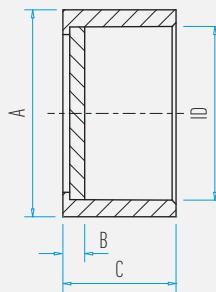
FOR INDUSTRIAL APPLICATIONS



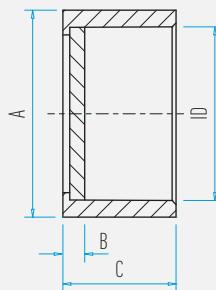
CAP

CODE	SIZE	ID MM	A MM	B MM	C MM	TYPE	PN RATING
R01.140.015	DN 15 S1	21	27	9	29	M	15
R01.140.020	DN 20 S1	27	33	11	33	M	15
R01.140.025	DN 25 S1	34	41	14	39	M	15
R01.140.032	DN 32 S1	42	52	17	46	M	15
R01.140.040	DN 40 S1	48	59	20	51	M	15
R01.140.050	DN 50 S1	60	74	24	61	M	15
R01.140.065	DN 65 S1	75	106	35	79	F*	12
R01.140.080	DN 80 S1	89	106	28	79	M	12
R01.140.100	DN 100 S1	114	132	33	95	M	12
R01.140.125	DN 125 S1*	140	192	61	130	F*	12
R01.140.150	DN 150 S1	168	192	42	130	M	12
R11.140.225	DN 200 S1	225	262	30	150	F	9
R11.140.250	DN 225 S1	250	280	35	166	F	9
R11.140.315	DN 300 S1	315	355	35	199	F	9

FABRICATED



MOULDED



\*Cap DN 125 is manufactured from cap DN 150 and DN 150 – DN 125 reducing bush.

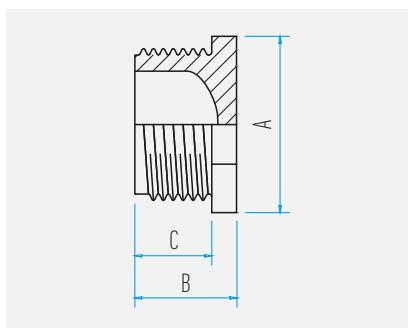
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



THREADED PLUG

CODE	SIZE	THREAD	A MM	B MM	C MM	PN RATING
R01.155.015	DN 15 S1	1/2" BSP	27	21	15	15
R01.155.020	DN 20 S1	3/4" BSP	33	23	16	15
R01.155.025	DN 25 S1	1" BSP	41	26	19	15
R01.155.032	DN 32 S1	1 1/4" BSP	51	30	22	15
R01.155.040	DN 40 S1	1 1/2" BSP	58	31	22	15
R01.155.050	DN 50 S1	2" BSP	71	36	26	15



Complies with AS/NZS 3518.

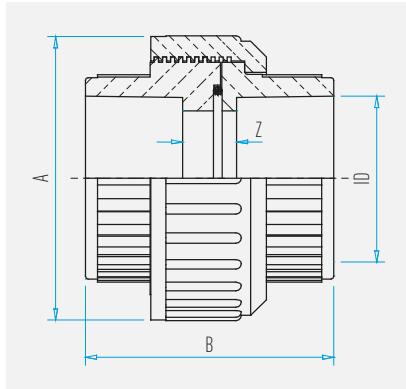
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



SOCKET UNION

CODE	SIZE	A MM	B MM	ID MM	Z MM	PN RATING
R01.205.015K	DN 15 S1	35	43	21	10	15
R01.205.020K	DN 20 S1	43	47	27	12	15
R01.205.025K	DN 25 S1	60	59	34	12	15
R01.205.032K	DN 32 S1	74	70	42	12	15
R01.205.040K	DN 40 S1	83	73	48	12	15
R01.205.050K	DN 50 S1	103	86	60	12	15
R01.205.080K	DN 80 S1	158	114	89	12	15
R01.205.100K	DN 100 S1	182	142	114	14	15



Seals Material: EPDM

Complies with AS3518.

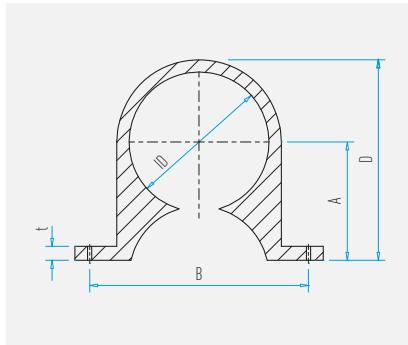
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



SADDLE CLIP

CODE	SIZE	ID MM	A MM	B MM	C MM	D MM	t MM
		MM	MM	MM	MM	MM	MM
R05.455.015	DN 15 S1	21	13	37	14	27	3
R05.455.020	DN 20 S1	27	18	41	14	34	3
R05.455.025	DN 25 S1	34	21	45	16	42	4
R05.455.032	DN 32 S1	42	29	65	16	54	4
R05.455.040	DN 40 S1	48	34	67	16	61	5
R05.455.050	DN 50 S1	60	38	87	22	73	5
R05.455.080	DN 80 S1	89	50	122	34	99	5
R05.455.100	DN 100 S1	114	65	156	38	127	5



C = Clip Thickness

Material: Black Polypropylene.

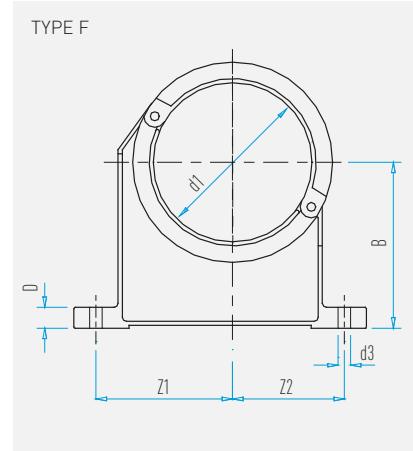
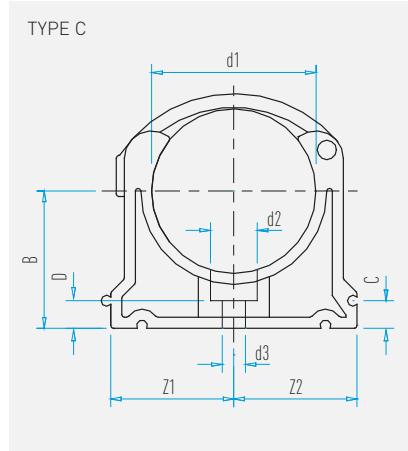
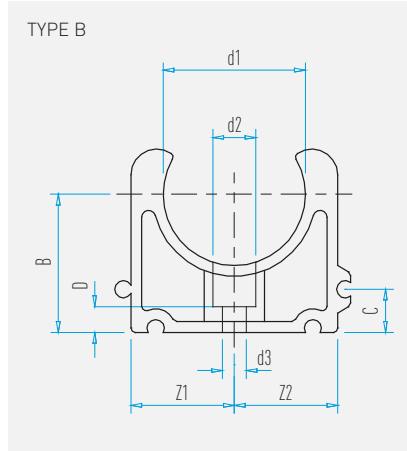
## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



PIPE CLIP

CODE	SIZE	B MM	C MM	D MM	d1 MM	d2 MM	d3 MM	Z1 MM	Z2 MM	TYPE
R05.434.015	DN 15 S1	25.5	10	6	21	10.5	5.5	16.5	19	B
R05.434.020	DN 20 S1	28.5	10	6	27	10.5	5.5	19	21.5	B
R05.434.025	DN 25 S1	32	10	6	34	10.5	5.5	24	26.5	B
R05.434.032	DN 32 S1	36	10	6.5	42	14	6.5	33.5	33.5	C
R05.434.040	DN 40 S1	39	10	6.5	48	14	6.5	37	37	C
R05.434.050	DN 50 S1	50	10	10	60	17	8.5	44.5	44.5	C
R05.434.080	DN 80 S1	105	-	15	89	-	9	89	71	C
R05.434.100	DN 100 S1	120	-	15	114	-	9	99	81	C
R05.434.150	DN 150 S1	147	-	20	169	-	11	136	111	F

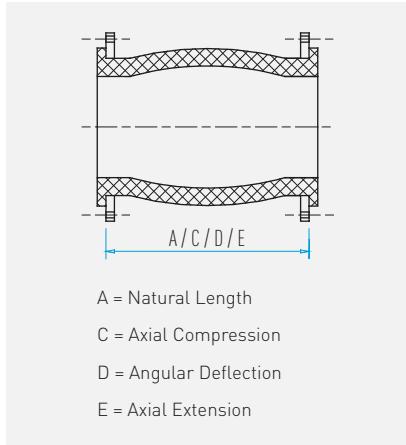


Sizes up to DN 375 available on request

Material: Black Polypropylene.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



RUBBER EXPANSION JOINT

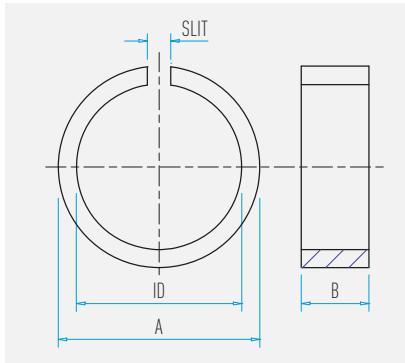
CODE	SIZE	A MM	C MM	D	E MM	PN RATING
R04.452.032	DN 32 S1	95	8	15°	4	15
R04.452.040	DN 40 S1	95	8	15°	4	15
R04.452.050	DN 50 S1	105	8	15°	5	15
R04.452.080	DN 80 S1	130	12	15°	6	15
R04.452.100	DN 100 S1	135	18	15°	10	15
R04.452.150	DN 150 S1	180	18	15°	10	15
R14.452.225	DN 200 S1	205	25	15°	14	15
R14.452.250	DN 225 S1	240	25	15°	14	15
R14.452.315	DN 300 S1	260	25	15°	14	15
R14.452.355	DN 350 S1	265	25	15°	14	9
R14.452.400	DN 375 S1	265	25	15°	14	9

Flanges supplied are zinc plated

Galvanised available on request.

## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



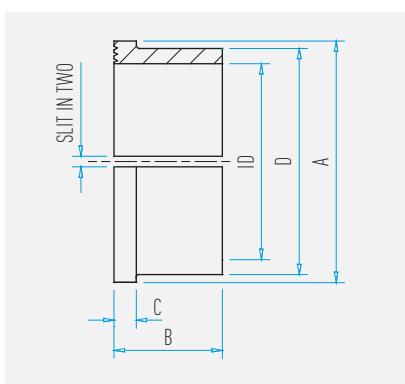
### ANCHOR SLEEVE

CODE	SIZE	ID MM	A MM	B MM
R01.272.050	DN 50 S1	60	74	40
R01.272.065	DN 65 S1	76	89	40
R01.272.080	DN 80 S1	89	104	50
R01.272.100	DN 100 S1	115	140	60
R01.272.125	DN 125 S1	141	168	75
R01.272.150	DN 150 S1	169	208	90
R11.272.225	DN 200 S1	227	250	120
R11.272.250	DN 225 S1	251	275	120
R11.272.315	DN 300 S1	316	344	120
R11.272.355	DN 350 S1	356	390	120
R11.272.400	DN 375 S1	401	450	120



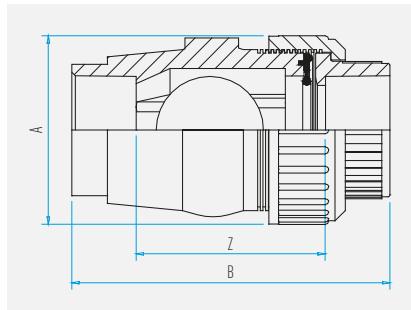
### ANCHOR FLANGE

SIZE	CODE	ID MM	A MM	B MM	C MM	D MM
DN 50 S1	R01.137.050	61	96	40	14	74
DN 65 S1	R01.137.065	76	106	47	10	90
DN 80 S1	R01.137.080	90	127	57	18	118
DN 100 S1	R01.137.100	115	159	70	20	134
DN 125 S1	R01.137.125	141	187	84	14	165
DN 150 S1	R01.137.150	169	214	100	24	192
DN 200 S1	R11.137.225	226	271	144	35	247
DN 225 S1	R11.137.250	251	334	191	70	305
DN 300 S1	R11.137.315	317	376	224	70	362
DN 350 S1	R11.137.355	357	440	244	70	415
DN 375 S1	R11.137.400	402	488	306	110	450



## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS

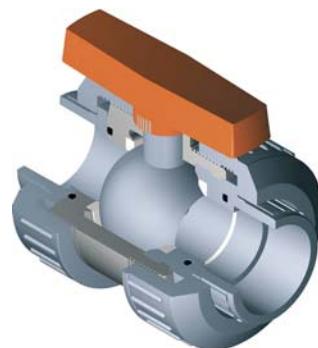


BALL CHECK VALVE SINGLE UNION

CODE	SIZE	A	B	Z	PN
		MM	MM	MM	RATING
R01.***.015K	DN 15 S1	48	95	62	15
R01.***.020K	DN 20 S1	59	112	73	15
R01.***.025K	DN 25 S1	69	124	79	15
R01.***.032K	DN 32 S1	96	148	94	15
R01.***.040K	DN 40 S1	96	148	88	15
R01.***.050K	DN 50 S1	103	177	105	15
R01.***.080K	DN 80 S1	178	215	114	9

\*\*\* CODE 836 - EPDM SEALS

\*\*\* CODE 838 - FPM SEALS

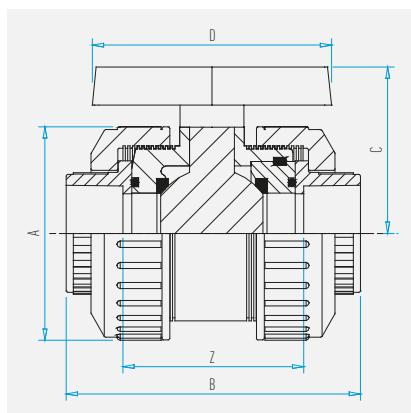


BALL VALVE DOUBLE UNION

CODE	SIZE	A	B	C	D	Z	PN
		MM	MM	MM	MM	MM	RATING
R01.***.015K	DN 15 S1	51	101	48	81	67	15
R01.***.020K	DN 20 S1	63	119	65	87	79	15
R01.***.025K	DN 25 S1	73	134	69	101	86	15
R01.***.032K	DN 32 S1	105	161	88	127	101	15
R01.***.040K	DN 40 S1	105	160	88	127	98	15
R01.***.050K	DN 50 S1	135	191	108	151	118	15
R01.***.080K	DN 80 S1	182	260	138	191	158	15
R01.***.100K	DN 100 S1	217	314	165	241	187	15

\*\*\* CODE 880 - EPDM SEALS

\*\*\* CODE 882 - FPM SEALS



## ABS SYSTEMS FITTINGS

FOR INDUSTRIAL APPLICATIONS



### ABS SOLVENT CEMENT

CODE	CAN SIZE LITRES
R01.461.025A	0.25
R01.461.100A	1
R01.461.400A	4

### ABS CLEANER/PRIMER

CODE	CAN SIZE LITRES
R01.463.025A	0.25
R01.463.100A	1
R01.463.400A	4

### SOLVENT CEMENT USAGE\*

SIZE	SOLVENT WELD JOINTS PER LITRE**
DN 50 S1	135
DN 80 S1	45
DN 100 S1	35
DN 125 S1	20
DN 150 S1	20
DN 200 S1	10
DN 225 S1	4
DN 300 S1	4
DN 350 S1	3
DN 375 S1	2
DN 400 S1	1
DN 450 S1	1
DN 500 S1	0.5
DN 575 S1	0.5
DN 650 S1	0.3
DN 750 S1	0.3

\* The usage of ABS Primer is approximately 50% that of ABS cement

\*\* A socket counts as 2 joints, a tee as 3 joints, etc

# GRP SYSTEMS

## FIBERSTRONG®

### GRP SYSTEMS

#### FEATURES AND BENEFITS

FIBERSTRONG® non-restrained pipe and joint are Fiberglass Reinforced Plastic (FRP) flexible corrosion resistant pipe system intended for underground use\*. It consists of a Thermosetting Chemical resistant polyester resin, Fiberglass Reinforcements and fine Silica sand aggregates to BS EN 1796 / BS EN 14364 / AWWA C-950. Large diameter pipes are available in nominal diameters ranging from 80 to 4000 mm. Available standard pressure classes are PN1, 3, 6, 10, 12, 16, 20 and 25 and stiffness classes of 2,500, 5,000 and 10,000 N/m<sup>2</sup>.

\* With special engineering procedures the pipes can also be used for above ground installation.

#### CONSTRUCTION

The pipe consists of a resin-rich reinforced liner, structural wall and a resin-rich exterior layer. "C" glass is used at the internal and external pipe surfaces.

#### USE AND APPLICATION

FIBERSTRONG® FRP pipe is suitable for underground use in potable water, raw water, seawater and corrosive environments including sanitary sewage, and many industrial effluents with a temperature range of -40 °C to +50 °C. All industrial pipe applications must be approved by Future Pipe Industries.

#### APPLICABLE CODES/STANDARDS

STANDARDS	MAIN APPLICATIONS
ASTM D-3262	Standard Specification for "Fiberglass" (Fiber Reinforced Thermosetting-Resin) Sewer Pipe
ASTM D-3517	Standard Specification for "Fiberglass" (Fiber Reinforced Thermosetting-Resin) Pressure Pipe
ASTM D-3754	Standard Specification for "Fiberglass" (Fiber Reinforced Thermosetting-Resin) Sewer and Industrial Pressure Pipe
AWWA C-950	Fiberglass Pressure Pipe
AWWA M-45	Fiberglass Pipe Design Manual
BS EN 1796	Plastics Piping Systems for Water Supply With or Without Pressure – Fiber-Reinforced Thermosetting Plastics (FRP) Based on Unsaturated Polyester Resin (UP).
BS EN 14364	Plastics Piping Systems for Drainage and Sewerage With or Without Pressure – Fiber-Reinforced Thermosetting Plastics (FRP) Based on Unsaturated Polyester Resin (UP) – Specifications for Pipes, Fittings and Joints.
AS 3571	Glass Filament Reinforced Thermosetting Plastics (GRP) pipes - Polyester based - Water Supply, Sewerage and Drainage applications.

#### FEATURES AND BENEFITS

FEATURES	BENEFITS
Manufactured with corrosion resistant composite material.	<ul style="list-style-type: none"> <li>- Long, effective service life.</li> <li>- No need for expensive cathodic protection.</li> <li>- No need for costly pipe coating, wrapping, lining, painting, or use of polyethylene wraps.</li> <li>- Low maintenance costs.</li> <li>- Hydraulic characteristics essentially remain unchanged over time.</li> </ul>
Double bell coupling joints manufactured with corrosion resistant glass fiber and sealed with elastomeric gaskets.	<ul style="list-style-type: none"> <li>- Ease of jointing helps reduce installation time. Tight, efficient joints designed to eliminate infiltration and ex-filtration.</li> <li>- Costly joint diapers are not required.</li> <li>- Allows for flexible alignment, accommodating changes in line direction with fewer fittings.</li> </ul>
Light weight. 1/4 the weight of ductile iron and 1/10 of concrete pipe.	<ul style="list-style-type: none"> <li>- Easy to install.</li> <li>- Low delivery costs. No need for expensive handling equipment.</li> </ul>
Manufactured in long sections up to 12m.	<ul style="list-style-type: none"> <li>- Fewer joints reduce installation time.</li> </ul>
Extremely smooth bore.	<ul style="list-style-type: none"> <li>- Low friction loss means less pumping energy needed.</li> <li>- Minimum slime build up can help lower cleaning costs.</li> </ul>
Pipe specifications meet or exceed worldwide standards.	<ul style="list-style-type: none"> <li>- Assures high quality product specifications. Easy for engineers to specify FIBERSTRONG® pipe with confidence.</li> </ul>
High technology pipe manufacturing system.	<ul style="list-style-type: none"> <li>- Helps ensure consistent product quality worldwide.</li> </ul>

## GRP SYSTEMS

### GRP DOUBLE BELL COUPLING



#### 2.75M GRP DOUBLE BELL COUPLING - PN1

CODE	DESCRIPTION	SIZE
1478420	Fiberstrong FW-GRP Pipe, DN300, Double bell coupling	DN300
1478421	Fiberstrong FW-GRP Pipe, DN375, Double bell coupling	DN375
1478422	Fiberstrong FW-GRP Pipe, DN450, Double bell coupling	DN450
1478423	Fiberstrong FW-GRP Pipe, DN525, Double bell coupling	DN525
1478424	Fiberstrong FW-GRP Pipe, DN600, Double bell coupling	DN600
1478425	Fiberstrong FW-GRP Pipe, DN675, Double bell coupling	DN675
1478426	Fiberstrong FW-GRP Pipe, DN750, Double bell coupling	DN750
1478427	Fiberstrong FW-GRP Pipe, DN900, Double bell coupling	DN900
1478428	Fiberstrong FW-GRP Pipe, DN1000, Double bell coupling	DN1000
1478429	Fiberstrong FW-GRP Pipe, DN1200, Double bell coupling	DN1200

#### 2.75M GRP DOUBLE BELL COUPLING - PN6

CODE	DESCRIPTION	SIZE
1478434	Fiberstrong FW-GRP Pipe, DN300, Double bell coupling	DN300
1478435	Fiberstrong FW-GRP Pipe, DN375, Double bell coupling	DN375
1478436	Fiberstrong FW-GRP Pipe, DN450, Double bell coupling	DN450
1478437	Fiberstrong FW-GRP Pipe, DN525, Double bell coupling	DN525
1478438	Fiberstrong FW-GRP Pipe, DN600, Double bell coupling	DN600
1478439	Fiberstrong FW-GRP Pipe, DN675, Double bell coupling	DN675
1478440	Fiberstrong FW-GRP Pipe, DN750, Double bell coupling	DN750
1478441	Fiberstrong FW-GRP Pipe, DN900, Double bell coupling	DN900
1478442	Fiberstrong FW-GRP Pipe, DN1000, Double bell coupling	DN1000
1478443	Fiberstrong FW-GRP Pipe, DN1200, Double bell coupling	DN1200

All pipe lengths are SN10,000. Pipe lengths of 5.75M and 11.75M also available on request.

## GRP SYSTEMS

### GRP DOUBLE BELL COUPLING



#### 2.75M GRP DOUBLE BELL COUPLING - PN10

CODE	DESCRIPTION	SIZE
1478448	Fiberstrong FW-GRP Pipe, DN300, Double bell coupling	DN300
1478449	Fiberstrong FW-GRP Pipe, DN375, Double bell coupling	DN375
1478450	Fiberstrong FW-GRP Pipe, DN450, Double bell coupling	DN450
1478451	Fiberstrong FW-GRP Pipe, DN525, Double bell coupling	DN525
1478452	Fiberstrong FW-GRP Pipe, DN600, Double bell coupling	DN600
1478453	Fiberstrong FW-GRP Pipe, DN675, Double bell coupling	DN675
1478454	Fiberstrong FW-GRP Pipe, DN750, Double bell coupling	DN750
1478455	Fiberstrong FW-GRP Pipe, DN900, Double bell coupling	DN900
1478456	Fiberstrong FW-GRP Pipe, DN1000, Double bell coupling	DN1000
1478457	Fiberstrong FW-GRP Pipe, DN1200, Double bell coupling	DN1200

#### 2.75M GRP DOUBLE BELL COUPLING - PN16

CODE	DESCRIPTION	SIZE
1478462	Fiberstrong FW-GRP Pipe, DN300, Double bell coupling	DN300
1478463	Fiberstrong FW-GRP Pipe, DN375, Double bell coupling	DN375
1478464	Fiberstrong FW-GRP Pipe, DN450, Double bell coupling	DN450
1478465	Fiberstrong FW-GRP Pipe, DN525, Double bell coupling	DN525
1478466	Fiberstrong FW-GRP Pipe, DN600, Double bell coupling	DN600
1478467	Fiberstrong FW-GRP Pipe, DN675, Double bell coupling	DN675
1478468	Fiberstrong FW-GRP Pipe, DN750, Double bell coupling	DN750
1478469	Fiberstrong FW-GRP Pipe, DN900, Double bell coupling	DN900
1478470	Fiberstrong FW-GRP Pipe, DN1000, Double bell coupling	DN1000
1478471	Fiberstrong FW-GRP Pipe, DN1200, Double bell coupling	DN1200

All pipe lengths are SN10,000. Pipe lengths of 5.75M and 11.75M also available on request.

## GRP SYSTEMS

### GRP JOINTS

#### JOINTS

##### DOUBLE BELL REKA COUPLINGS

FIBERSTRONG® pipes and fittings are jointed using Double Bell Reka Couplings. The sealing of the joints is achieved by the compression of two rubber gaskets when the joint is assembled.

##### ALTERNATIVE JOINTING SYSTEMS

- a) In certain applications Pipe sections may be laminated\* together utilizing an external (and internal) lay-up "butt-strap" consisting of layers of fiberglass mats and/or tapes impregnated with polyester resin. The strength of the lay-up exceeds the pipe wall strength.
- b) Mechanical couplings manufactured by Straub, Teekay, Dresser, VJ or equivalent may be used for jointing to different pipe materials. Refer to section SPIGOT OUTSIDE DIAMETER for FIBERSTRONG® pipe O.D.'s.
- c) FRP flanges drilled to any standard dimensions requested by client, such as ANSI, DIN, ISO, etc...

\* Laminated pipes may have different design if lamination is intended to avoid thrust blocks.

#### GRP MASONARY CONNECTOR

CODE	DESCRIPTION	SIZE
1478588	Fiberstrong Masonry Connector, DN300, SN10000	DN300
1478589	Fiberstrong Masonry Connector, DN375, SN10000	DN375
1478590	Fiberstrong Masonry Connector, DN450, SN10000	DN450
1478591	Fiberstrong Masonry Connector, DN525, SN10000	DN525
1478592	Fiberstrong Masonry Connector, DN600, SN10000	DN600
1478593	Fiberstrong Masonry Connector, DN675, SN10000	DN675
1478594	Fiberstrong Masonry Connector, DN750, SN10000	DN750
1478595	Fiberstrong Masonry Connector, DN900, SN10000	DN900
1478596	Fiberstrong Masonry Connector, DN1000, SN10000	DN1000
1478597	Fiberstrong Masonry Connector, DN1200, SN10000	DN1200

#### GRP END CAP

CODE	DESCRIPTION	SIZE
1478602	Fiberstrong End Cap, DN300, SN10000	DN300
1478603	Fiberstrong End Cap, DN375, SN10000	DN375
1478604	Fiberstrong End Cap, DN450, SN10000	DN450
1478605	Fiberstrong End Cap, DN525, SN10000	DN525
1478606	Fiberstrong End Cap, DN600, SN10000	DN600
1478607	Fiberstrong End Cap, DN675, SN10000	DN675
1478608	Fiberstrong End Cap, DN750, SN10000	DN750
1478609	Fiberstrong End Cap, DN900, SN10000	DN900
1478610	Fiberstrong End Cap, DN1000, SN10000	DN1000
1478611	Fiberstrong End Cap, DN1200, SN10000	DN1200

All pipe lengths are SN10,000. Others available on request.

## HOBAS

### GRP JACKING PIPE

#### FEATURES AND BENEFITS

HOBAS GRP Pipe Systems are made of chopped glass fibers, thermosetting plastics such as for example unsaturated polyester or vinylester resins, and reinforcing agents. These components are enveloped by the resins that create a bond between them. In a rotating mold, the pipe wall is built up layer by layer from the outside inwards.

Once all the materials have been fed into the mold, the speed of rotation is increased. High centrifugal forces up to 75 g press them against the mold wall. Any trapped gas is fully vented and the raw materials are condensed to a maximum, creating a high quality, very solid and void free pipe wall. This centrifugal casting process ensures that the pipes are circular, the wall thickness is uniform over the entire length at exact outer diameter, and the material displays the high longitudinal compressive strength that is particularly important for jacking.

Thanks to the three-dimensional chemical bonding of the thermosetting resin, the pipe retains its stability even in very warm environments. One of the benefits of composite material technology is that the pipe's strength properties can be customized to suit the specific load directions required.

The sandwich construction of the wall thus ensures that HOBAS Pipes can also withstand high loading without any trouble and boast a particularly long service life. Nothing but the best for our customers!

#### MATERIAL PROPERTIES & OUTER DIAMETER

The composite used for HOBAS Products has the following properties

(for specific project-related values, please contact our technical service):

#### MATERIAL PROPERTIES

Density	2,000 kg/m <sup>3</sup>
Circumferential flexural modulus	10,000 - 15,000 MPa
Flexural strain at break, long-term (strain corrosion test pH 0.1 and pH 10)	min. 1%
Axial compressive strength	> 90 MPa

#### OUTER DIAMETERS (D<sub>e</sub>) AVAILABLE IN MM\*

272	530	860	1348	1937	2999
324	550	924	1434	2047	3270
376	616	960	1499	2160	3600
401	650	1026	1535	2250	
427	718	1099	1638	2400	
478	752	1229	1720	2453	
501	820	1280	1842	2555	

\* Other diameters on request

Given their high stiffness and smooth outer surface, HOBAS Jacking Pipes are also suitable for very long drives. Over 900 m have for example been jacked with HOBAS Pipes D<sub>e</sub> 3000.

HOBAS Jacking Pipes are produced in standard lengths of 1, 2, 3 and 6 m (tolerances to company standards). Other pipe lengths can also be supplied on request.

## GRP JACKING PIPE

## GRP PIPES



HOBAS GRP JACKING PIPE - SN128

CODE	DESCRIPTION	SIZE
1478016	HOBAS J/PIPE OD376 PN1 SN128 2M/SS CPL	DN250
1478019	HOBAS J/PIPE OD427 PN1 SN128 2M/SS CPL	DN300
1478032	HOBAS J/PIPE OD478 PN1 SN128 2M/SS CPL	DN350
1478043	HOBAS J/PIPE OD530 PN1 SN128 2M/SS CPL	DN400
1478053	HOBAS J/PIPE OD550 PN1 SN128 2M/SS CPL	DN450
1478069	HOBAS J/PIPE OD616 PN1 SN128 2M/SS CPL	DN500
1478075	HOBAS J/PIPE OD650 PN1 SN128 2M/SS CPL	DN550

\*Additional stiffness ratings and lengths available. Fittings also available on request.



HOBAS GRP JACKING PIPE - SN320

CODE	DESCRIPTION	SIZE
1478008	HOBAS J/PIPE OD272 PN1 SN320 2M/SS CPL	DN250
1478011	HOBAS J/PIPE OD324 PN1 SN320 2M/SS CPL	DN300
1478014	HOBAS J/PIPE OD376 PN1 SN320 2M/SS CPL	DN350
1478022	HOBAS J/PIPE OD427 PN1 SN320 2M/SS CPL	DN400
1478029	HOBAS J/PIPE OD478 PN1 SN320 2M/SS CPL	DN450
1478046	HOBAS J/PIPE OD530 PN1 SN320 2M/SS CPL	DN500
1478056	HOBAS J/PIPE OD550 PN1 SN320 2M/SS CPL	DN550
1478072	HOBAS J/PIPE OD616 PN1 SN320 2M/SS CPL	DN600
1478079	HOBAS J/PIPE OD650 PN1 SN320 2M/SS CPL	DN650

\*Additional stiffness ratings and lengths available. Fittings also available on request.



**NOTES**

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