



ABS

(ACRYLONITRILE BUTADIENE STYRENE)

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ABS JOINTING PROCEDURES

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ABS pipework systems are designed to have an interference fit and are not designed to be dry fitted. ABS cement is not gap filling. ABS cement softens the inside of the fitting and the outside of the pipe to form a joint chemically. Strength of joint is reduced if surfaces are not cleaned and properly prepared.

1. Cut the pipe ends square.
2. Remove burrs and clean out swarf. A chamfer must be filed approx 3mm x 45° (This will prevent the layer of cement being scraped away as the pipe is pushed into the fitting).
3. Use a felt marker pen or pencil to mark the pipe at the distance which will penetrate the fitting socket to the root/stop.
4. Thoroughly clean the surfaces of both pipe and fittings with MEK cleaner on a clean lint-free cloth. Please note it is not necessary to abrade pipe or fitting unless pipes are discoloured/sun bleached
5. Stir the ABS Cement SLOWLY but thoroughly.
6. Use a clean brush approximately half as wide as the pipe to be jointed.
Apply cement to the pipe and fittings using longitudinal strokes.
The pipe should have a slightly thicker coating than the fitting.
The prepared areas should be completely covered with cement.
Note: It is important to apply cement quickly to enable assembly without excessive force being required.
7. Immediately after application of cement push pipe fully home to the stop in the fitting without rotating.
Hold the pipe and fitting for up to a minute, depending on size, to ensure fitting does not slide off the pipe.
Note: When working under cold conditions ensure the joints are free from frost and moisture and allow extra curing time.
8. Wipe off excess cement from both sides of the joint using a clean lint-free cloth.
9. Replace lids on tins.
10. Clean brush in MEK cleaner.

PRECAUTIONS

The jointing area must be well ventilated
Do not allow a naked flame or smoking in the jointing area
Ensure cement is used prior to its expiry date (shown on bottom of tin)
Wear rubber or latex gloves when applying MEK cleaner and ABS cement
Never dilute ABS solvent cement
Always replace lids on tins when not in use
Always use clean brushes
Always use clean lint-free cloth or absorbent paper
Use a shelter to keep jointing surfaces dry in wet weather

CEMENT SETTING TIMES

PIPE DIAMETER	UP TO 2"		2 1/2" TO 6"		8" AND ABOVE	
Temperature	Up to 10 bar	Up to 15 bar	Up to 10 bar	Up to 15 bar	Up to 10 bar	Up to 15 bar
>15°C	4 h	8 h	6 h	16 h	48 h	72 h
5°C to 15°C	8 h	16 h	12 h	24 h	72 h	96 h
0° to +5°C	12 h	24 h	18 h	32 h	96 h	120 h

These times are applicable to Griffon cement.

- Solvent cement setting times are given for guidance only and can vary depending on a number of factors.

CEMENT USAGE RECOMMENDATIONS

The following is an estimation of the number of joints likely to be achieved per litre of solvent cement.

NOMINAL BORE	NUMBER OF JOINTS	TYPE AND SIZE OF BRUSH	NUMBER OF PEOPLE
3/8" - 1/2"	400	4mm Round	1
3/4" - 1"	400	8mm Round	1
1 1/4" - 2"	200	1" Flat	1
2 1/2" - 3"	60	2" Flat	1
4"	35	2" Flat	2
5" - 6"	20	3" Flat	2
8"	10	3" Flat	3

INSTALLING THREADED FITTINGS

1. Ensure all threads are clean.
2. Apply PTFE tape to the male thread for 1½ turns in a clockwise direction.
3. Screw the female threaded fitting by hand onto the male thread.
4. It should be possible to screw the fitting on by hand for ¾ of the thread length.
5. After tightening by hand add an extra ½ turn with a suitable tool ie strap wrench

PRECAUTIONS

Use PTFE tape only. Do not use thread seal paste or any other jointing compound. Do not force tightening of the joint under any circumstances. For connecting plastic pipework systems to metal pipework systems composite unions and/or flanges must be used.



NOTE 2



NOTE 3



NOTE 4



NOTE 4



NOTE 6



NOTE 6



NOTE 7



NOTE 8



NOTE 8

ABS PRESSURE PIPES

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MANUFACTURING STANDARDS

ABS products are generally manufactured in accordance with the following standards:

- Primeline Pipe - BS5391 Part 1
- Fittings - BS5392 Part 1
- Threaded Fittings - BS21, DIN2999, ISO7

Unless otherwise stated ABS Pressure Fittings have the following pressure ratings:

Solvent Weld - 1/2" to 8" = Class E/15 bar

Threaded = Class D/12 bar

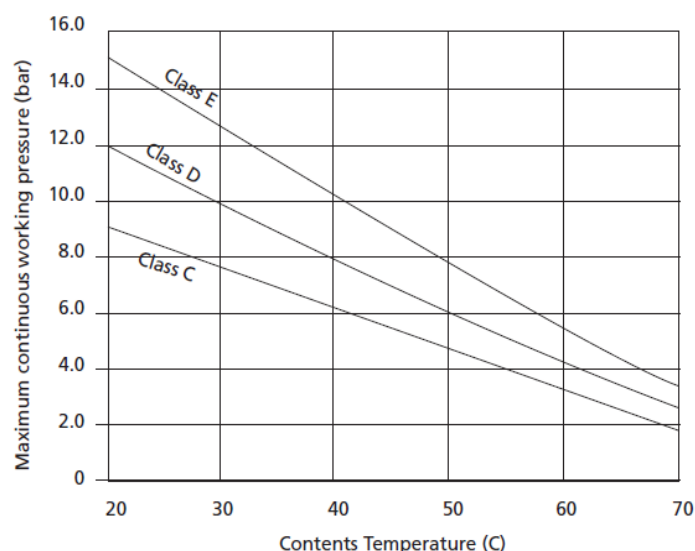
* All quoted at 20°C

ABS SYSTEM PRESSURE/TEMPERATURE RELATIONSHIP

Pressure ratings for plastic pipework systems are always quoted at 20°C, it is a fundamental principle of such systems that if the temperature is increased then the pressure rating must be reduced.

ABS systems should never be used for temperatures in excess of 70°C.

The following chart gives a rough guide as to the pressure/temperature relationship of ABS pipework systems.



In above ground installations it is essential to provide support to ensure that the weight of the pipe and its contents are adequately supported. The following recommended maximum spacings are for ABS pipes operating under the following conditions:

1. Fluid density of not more than 1g/cm³
2. PN15 pipe
3. Horizontal pipe runs

ABS PIPEWORK SUPPORT CENTRES

NOMINAL BORE	20°C	50°C	70°C
SPACING GIVEN IN METRES			
3/8"	0.8	0.5	0.4
1/2"	0.9	0.6	0.5
3/4"	1.0	0.7	0.6
1"	1.1	0.8	0.7
1 1/4"	1.2	0.9	0.7
1 1/2"	1.3	1.0	0.7
2"	1.4	1.1	0.8
2 1/2"	1.5	1.2	0.8
3"	1.6	1.2	0.9
4"	1.8	1.3	1.0
5"	2.0	1.5	1.1
6"	2.1	1.6	1.2
8"	2.3	1.8	1.5

FOR VERTICAL PIPE RUNS SPACING SHOULD BE INCREASED BY 50%.

DIMENSIONS IN MM

NOMINAL BORE	MEAN O.D.
1/2"	21.4
3/4"	26.7
1"	33.6
1 1/4"	42.2
1 1/2"	48.3
2"	60.3
2 1/2"	75.2
3"	88.9
4"	114.3
5"	140.2
6"	168.3
8"	219.1

PRIMELINE ABS PRESSURE PIPE TO BS5391 PART 1



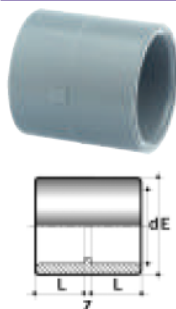
SIZE	PART NO	£/M	CLASS	PIPE OD mm	WALL mm	PIPE ID mm	Wt (Kg/m)
3/8"	011.P.01EPE		E	17.1	1.7	13.7	0.09
1/2"	011.P.02EPE		E	21.4	2.0	17.4	0.13
	011.P.02TPE		T	21.4	3.6	14.2	0.22
3/4"	011.P.03EPE		E	26.7	2.5	21.7	0.20
	011.P.03TPE		T	26.7	3.6	19.5	0.28
1"	011.P.04CPE		C	33.6	2.0	29.6	0.21
	011.P.04EPE		E	33.6	3.1	27.4	0.31
	011.P.04TPE		T	33.6	4.3	25.0	0.43
1 1/4"	011.P.05CPE		C	42.2	2.5	37.2	0.32
	011.P.05EPE		E	42.2	3.9	34.4	0.49
	011.P.05TPE		T	42.2	5.3	31.6	0.65
1 1/2"	011.P.06CPE		C	48.3	2.8	42.7	0.42
	011.P.06EPE		E	48.3	4.5	39.3	0.64
	011.P.06TPE		T	48.3	6.0	36.3	0.85
2"	011.P.07CPE		C	60.3	3.6	53.1	0.67
	011.P.07EPE		E	60.3	5.6	49.1	1.00
	011.P.07TPE		T	60.3	7.2	45.9	1.28
2 1/2"	011.P.08CPE		C	75.2	5.0	65.2	1.14
3"	011.P.09CPE		C	88.9	5.2	78.5	1.40
	011.P.09EPE		E	88.9	8.3	72.3	2.16
4"	011.P.10CPE		C	114.3	6.6	101.1	2.32
	011.P.10EPE		E	114.3	10.6	93.1	3.59
5"	011.P.11CPE		C	140.2	9.3	121.6	3.97
6"	011.P.12CPE		C	168.3	9.9	148.5	5.12
	011.P.12DPE		D	168.3	12.8	142.7	6.50
8"	011.P.13CPE		C	219.1	12.7	193.7	8.57

PIPE IS SUPPLIED PLAIN ENDED
STANDARD PIPE LENGTH SUPPLIED IS 6 METRES OR 5.8 METRES
ALL WALL THICKNESSES AND PIPE ID'S ARE APPROXIMATE VALUES.

ABS PRESSURE FITTINGS PLAIN

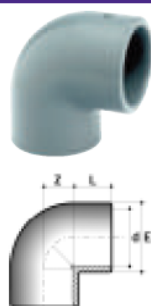
ABS

SOCKET



d	PART NO	PRICE	L	Z	E	Wt (g)						
1/2"	011.011.02		16	3	28	10						
3/4"	011.011.03		19	3	34	16						
1"	011.011.04		22	3	42	25						
1 1/4"	011.011.05		26	3	51	42						
1 1/2"	011.011.06		31	3	61	67						
2"	011.011.07		38	3	75	126						
2 1/2"	011.011.08		44	4	88	167						
3"	011.011.09		51	5	106	279						
4"	011.011.10		61	6	129	466						
5"	011.011.11		76	8	161	827						
6"	011.011.12		86	11	191	1247						
8"	011.011.13		119	11	258	3160						

90° ELBOW



d	PART NO	PRICE	L	Z	E	Wt (g)						
1/2"	011.031.02		16	11	26.5	11						
3/4"	011.031.03		19	14	32.5	18						
1"	011.031.04		22	17	41	32						
1 1/4"	011.031.05		26	23	50	54						
1 1/2"	011.031.06		31	28	60	112						
2"	011.031.07		38	34	75	214						
2 1/2"	011.031.08		44	40	89	285						
3"	011.031.09		51	48	106	492						
4"	011.031.10		61	58	129	812						
5"	011.031.11		76	72	168	1500						
6"	011.031.12		86	81	188	3000						
8"	011.031.13		119	115	258	6465						

90° SHORT RADIUS BEND



d	PART NO	PRICE	L	Z	E	Wt (g)						
1/2"	011.051.02		16	40	28	30						
3/4"	011.051.03		19	50	35	45						
1"	011.051.04		22	64	42	90						
1 1/4"	011.051.05		26	80	51	138						
1 1/2"	011.051.06		31	100	63	245						
2"	011.051.07		38	126	77	410						
2 1/2"	011.051.08		44	150	94	780						
3"	011.051.09		51	180	113	1220						
4"	011.051.10		61	220	132	2030						

INCH/METRIC ADAPTOR SOCKET



d x d1	PART NO	PRICE	L1	L2	Z	E	E1	Wt (g)				
1/2" x 20	013.011.02020		16	16	3	28	28	12				
3/4" x 25	013.011.03025		19	19	3	33	33	19				
1" x 32	013.011.04032		22	22	3	41	41	28				
1 1/4" x 40	013.011.05040		26	26	3	50	50	46				
1 1/2" x 50	013.011.06050		31	31	3	60.5	60.5	63				
2" x 63	013.011.07063		38	38	3	75	75	103				
3" x 90	013.011.09090		51	51	5	106	106	260				
4" x 110	013.011.10110		61	61	6	129	129	451				
6" x 160	013.011.12160		86	90	8	181	189	1062				

ABS PRESSURE FITTINGS PLAIN

ABS

45° ELBOW



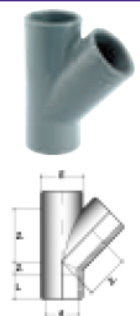
d	PART NO	PRICE	L	Z	E	Wt (g)					
1/2"	011.041.02		16	5.5	28	11					
3/4"	011.041.03		19	6	34	19					
1"	011.041.04		22	8	42	31					
1 1/4"	011.041.05		26	10	51	44					
1 1/2"	011.041.06		31	12	61	94					
2"	011.041.07		38	15	75	161					
2 1/2"	011.041.08		44	18	88	233					
3"	011.041.09		51	21	106	376					
4"	011.041.10		61	25	130	690					
5"	011.041.11		76	32	164	1230					
6"	011.041.12		86	36	197	1616					
8"	011.041.13		119	49	258	4600					

EQUAL TEE



d	PART NO	PRICE	L	Z	E	Wt (g)					
1/2"	011.061.02		16	11	27.5	16					
3/4"	011.061.03		19	14	33.5	26					
1"	011.061.04		22	17	42	47					
1 1/4"	011.061.05		26	21	51	76					
1 1/2"	011.061.06		31	26	61	153					
2"	011.061.07		38	33	75	274					
2 1/2"	011.061.08		44	39	89	373					
3"	011.061.09		51	47	106	630					
4"	011.061.10		61	57	129	1083					
5"	011.061.11		76	71	162.5	1917					
6"	011.061.12		86	81	188	3720					
8"	011.061.13		119	114	258	8350					

Y PIECE/45° TEE



d	PART NO	PRICE	L	Z ₁	Z ₂	E	Wt (g)				
1/2"	011.071.02		16	7	29	27.5	28				
3/4"	011.071.03		19	7	36	33.5	38				
1"	011.071.04		22	8	44	42	71				
1 1/4"	011.071.05		26	10	54	50.5	115				
1 1/2"	011.071.06		31	12	65	61	230				
2"	011.071.07		38	14	80	74.5	397				

UNION



d	PART NO	PRICE	L	Z ₁	Z ₂	G ₁	E	Wt (g)			
1/2"	011.021.02		16	3	10	1"	42	42			
3/4"	011.021.03		19	3	10	1 1/4"	52	70			
1"	011.021.04		22	3	10	1 1/2"	59	97			
1 1/4"	011.021.05		26	3	12	2"	72	155			
1 1/2"	011.021.06		31	3	14	2 1/4"	79	216			
2"	011.021.07		38	3	18	2 3/4"	96	340			
2 1/2"*	011.021.08		44	3	18	3 1/2"	119	580			
3"*	011.021.09		51	5	18	4"	134	760			
4"*	011.021.10		61	5	18	5"	163	1280			

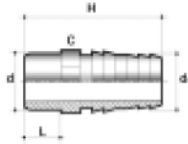
* PN10 RATED

SPARE PARTS FOR UNIONS AVAILABLE SEE PAGE 35

ABS PRESSURE FITTINGS PLAIN

ABS

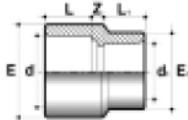
HOSE ADAPTOR – MALE SPIGOT x MM HOSE TAIL



d x d ₁	PART NO	PRICE	d	d ₁	L	H	C	Wt (g)				
1/2" x 20	011.261.02020		1/2"	20	16	70	24	17				
3/4" x 25	011.261.03025		3/4"	25	19	79	27	22				
1" x 32	011.261.04032		1"	32	22	83	36	37				
1 1/4" x 40	011.261.05040		1 1/4"	40	26	96	46	55				
1 1/2" x 50	011.261.06050		1 1/2"	50	31	108	55	103				
2" x 60	011.261.07060		2"	60	38	130	65	156				

RANGE OF PP HOSE FITTINGS AVAILABLE SEE PAGE 182

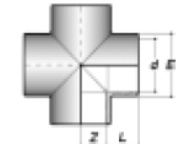
REDUCING SOCKET



d x d ₁	PART NO	PRICE	L	L ₁	Z	E	E ₁	Wt (g)				
3/4" x 1/2"	011.601.0302		19	16	6	34	28	25				
1" x 3/4"	011.601.0403		22	19	6	42	33	35				
1 1/4" x 1"	011.601.0504		26	22	6	51	41	58				
1 1/2" x 1 1/4"	011.601.0605		31	26	6	61	50	80				
2" x 1 1/2"	011.601.0706		38	31	6	75	60.5	120				
2 1/2" x 2"	011.601.0807		44	38	6	89	75	210				
3" x 2 1/2"	011.601.0908		51	44	6	106	88	300				
4" x 3"	011.601.1009		61	51	6	129	106	510				
6" x 4"*	011.601.1210		92	65	51	204	141	1975				

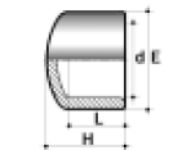
*MAY BE SUBJECT TO MINIMUM ORDER QUANTITIES. PLEASE CONTACT OUR SALES DEPT FOR DETAILS

CROSS



d	PART NO	PRICE	L	Z	E	Wt (g)						
1/2"	011.191.02		16	11	27.5	20						
3/4"	011.191.03		19	14	33.5	32						
1"	011.191.04		22	17	42	56						
1 1/4"	011.191.05		26	21	51	88						
1 1/2"	011.191.06		31	26	61	180						
2"	011.191.07		38	33	75	318						

CAP



d	PART NO	PRICE	L	H	E	Wt (g)						
1/2"	011.221.02		16	27	28	8						
3/4"	011.221.03		19	31	33	12						
1"	011.221.04		22	36	41	20						
1 1/4"	011.221.05		26	43	50	30						
1 1/2"	011.221.06		31	49	60.5	55						
2"	011.221.07		38	57	75	96						
2 1/2"	011.221.08		44	67	89	133						
3"	011.221.09		51	80	106	228						
4"	011.221.10		61	95	129	390						
5"	011.221.11		76	114	161	713						
6"	011.221.12		86	126	181	1021						
8"	011.221.13		119	145	258	2615						

• NON COMER PRODUCT

ABS PRESSURE FITTINGS PLAIN

ABS

REDUCING BUSH



FIG A



FIG B

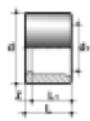


FIG A

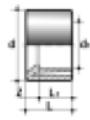
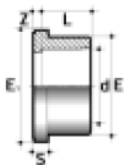


FIG B

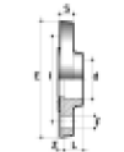
d x d ₁	PART NO	PRICE	L	L ₁	Z	FIG	Wt (g)				
3/4" x 1/2"	011.091.0302		19	16	3	A	4				
1" x 1/2"	011.091.0402		22	16	6	A	12				
1" x 3/4"	011.091.0403		22	19	3	A	8				
1 1/4" x 1/2"	011.091.0502		26	16	10	B	23				
1 1/4" x 3/4"	011.091.0503		26	19	7	A	22				
1 1/4" x 1"	011.091.0504		26	22	4	A	15				
1 1/2" x 3/4"	011.091.0603		31	19	12	B	29				
1 1/2" x 1"	011.091.0604		31	22	9	B	32				
1 1/2" x 1 1/4"	011.091.0605		31	26	5	A	17				
2" x 1"	011.091.0704		38	22	16	B	52				
2" x 1 1/4"	011.091.0705		38	26	12	B	53				
2" x 1 1/2"	011.091.0706		38	31	7	A	41				
2 1/2" x 1 1/2"	011.091.0806		44	31	13	B	89				
2 1/2" x 2"	011.091.0807		44	38	6	A	72				
3" x 1 1/2"	011.091.0906		51	31	20	B	159				
3" x 2"	011.091.0907		51	38	13	B	137				
3" x 2 1/2"	011.091.0908		51	44	7	A	116				
4" x 2"	011.091.1007		61	38	23	B	337				
4" x 2 1/2"	011.091.1008		61	44	17	B	266				
4" x 3"	011.091.1009		61	51	10	A	246				
5" x 3"	011.091.1109		76	51	25	B	455				
5" x 4"	011.091.1110		76	61	115	B	410				
6" x 4"	011.091.1210		86	61	25	B	683				
8" x 6"	011.091.1312		119	86	33	B	1540				

STUB FLANGE



d	PART NO	PRICE	L	Z	S	E	E ₁	Wt (g)			
1/2"	011.111.02		16	3	6	27	34	8			
3/4"	011.111.03		19	3	7	33	41	11			
1"	011.111.04		22	3	7	41	50	17			
1 1/4"	011.111.05		26	3	8	50	61	36			
1 1/2"	011.111.06		31	3	8	61	73	54			
2"	011.111.07		38	3	9	76	90	93			
2 1/2"	011.111.08		44	3	10	90	106	120			
3"	011.111.09		51	5	11	108	125	204			
4"	011.111.10		61	5	12	131	150	271			
5"	011.111.11		76	5	14	165	188	564			
6"	011.111.12		88	7	14	193	217	821			
8"	011.111.13		119	7	19	248	274	1573			

FULL FACE FLANGE – BS4504 NP10/16



d	PART NO	PRICE	L	Z	I	E	HOLES	Bolt Dia	Wt (g)		
1/2"	011.141.02Z		16	4.5	65	95	4	M12	70		
3/4"	011.141.03Z		19	4.5	75	105	4	M12	105		
1"	011.141.04Z		22	4.5	85	115	4	M12	145		
1 1/4"	011.141.05Z		26	4.5	100	142	4	M16	176		
1 1/2"	011.141.06Z		31	4.5	110	152	4	M16	224		
2"	011.141.07Z		38	4.5	125	165	4	M16	304		
2 1/2"	011.141.08Z		44	6	145	185	4	M16	404		
3"	011.141.09Z		51	7	160	200	8	M16	548		
4"	011.141.10Z		61	8	180	220	8	M16	752		
6"*	011.141.12Z		92	8	240	285	8	M20	1218		

*MAY BE SUBJECT TO MINIMUM ORDER QUANTITIES. PLEASE CONTACT SALES DEPT FOR DETAILS.

• NON COMER PRODUCT

ABS PRESSURE FITTINGS PLAIN

ABS

FULL FACE FLANGE – BS10 TABLES D & E



d	PART NO	PRICE	L	Z	I	E	HOLES	Bolt Dia	Wt (g)		
1/2"	011.141.02W		16	4.5	67	95	4	M12	70		
3/4"	011.141.03W		19	4.5	73	105	4	M12	105		
1"	011.141.04W		22	4.5	83	115	4	M12	145		
1 1/4"	011.141.05W		26	4.5	88	142	4	M12	176		
1 1/2"	011.141.06W		31	4.5	98	152	4	M12	224		
2"	011.141.07W		38	4.5	115	165	4	M16	304		
2 1/2"	011.141.08W		44	6	127	185	4	M16	404		
3"	011.141.09W		51	7	146	200	4	M16	548		
4" E	011.141.10W		61	8	178	220	8	M16	752		
6"•	011.141.12W		92	8	235	285	8	M20	1218		

*MAY BE SUBJECT TO MINIMUM ORDER QUANTITIES. PLEASE CONTACT SALES DEPT FOR DETAILS.

FULL FACE FLANGE – UNDRILLED



d	PART NO	PRICE	L	Z	I	E	HOLES	Bolt Dia	Wt (g)		
6"•	011.141.12U		92	8	n/a	285	n/a	n/a	1270		

*MAY BE SUBJECT TO MINIMUM ORDER QUANTITIES. PLEASE CONTACT SALES DEPT FOR DETAILS.

BLANK FLANGE – BS4504 NP10/16



SIZE	PART NO	PRICE	E	I	HOLES	Bolt Dia	Wt (g)				
1/2"•	011.161.02Z		95	65	4	M12	75				
3/4"•	011.161.03Z		105	75	4	M12	100				
1"•	011.161.04Z		115	85	4	M12	137				
1 1/4"•	011.161.05Z		142	100	4	M16	225				
1 1/2"•	011.161.06Z		152	110	4	M16	280				
2"•	011.161.07Z		165	125	4	M16	355				
2 1/2"•	011.161.08Z		185	145	4	M16	488				
3"•	011.161.09Z		200	160	8	M16	640				
4"•	011.161.10Z		220	180	8	M16	825				
6"•	011.161.12Z		283	240	8	M20	1589				

BLANK FLANGE – BS10 TABLES D & E



SIZE	PART NO	PRICE	E	I	HOLES	Bolt Dia	Wt (g)				
1/2"•	011.161.02W		95	67	4	M12	75				
3/4"•	011.161.03W		105	73	4	M12	100				
1"•	011.161.04W		115	83	4	M12	137				
1 1/4"•	011.161.05W		142	88	4	M12	225				
1 1/2"•	011.161.06W		152	98	4	M12	280				
2"•	011.161.07W		165	115	4	M16	355				
3"•	011.161.09W		200	146	4	M16	640				
4" D•	011.161.10V		220	178	4	M16	825				
4" E•	011.161.10W		220	178	8	M16	825				
6"•	011.161.12W		283	235	8	M20	1589				

• NON COMER PRODUCT

ABS PRESSURE FITTINGS PLAIN

ABS

BLANK FLANGE - ASA 150



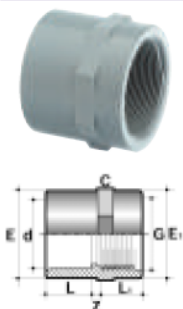
SIZE	PART NO	PRICE	E	I	HOLES	Bolt Dia	Wt (g)				
1/2"•	011.161.02X		95	60	4	M12	75				
3/4"•	011.161.03X		105	70	4	M12	100				
1"•	011.161.04X		115	79	4	M12	137				
1 1/4"•	011.161.05X		142	89	4	M12	225				
1 1/2"•	011.161.06X		152	98	4	M12	280				
2"•	011.161.07X		165	121	4	M16	355				
3"•	011.161.09X		200	152	4	M16	640				
4"•	011.161.10X		220	190	8	M16	825				
6"•	011.161.12X		283	241	8	M20	1589				

• NON COMER PRODUCT

ABS PRESSURE FITTINGS PLAIN/THREADED (BSP)

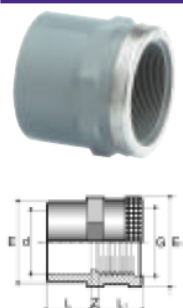
ABS

SOCKET



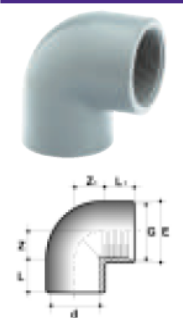
d	PART NO	PRICE	L	L ₁	Z	E	E ₁	C	Wt (g)			
1/2"	011.012.02		16	15	4	28	28	30	11			
3/4"	011.012.03		19	16.3	4	34	34	34	16			
1"	011.012.04		22	19.1	5	42	42	42	24			
1 1/4"	011.012.05		26	21.4	5	50	50	55	47			
1 1/2"	011.012.06		31	21.4	5	61	61	65	75			
2"	011.012.07		38	25.7	5	75	75	75	118			
2 1/2"	011.012.08		44	30.2	5	89	89	90	161			
3"	011.012.09		51	33.3	8	106	106	110	261			
4"	011.012.10		61	39.3	8	129	129	129	382			

SOCKET – S/S REINFORCED



d	PART NO	PRICE	L	L ₁	Z	E	E ₁	Wt (g)				
1/2"	011.342.02		16	15	4	28	29	16				
3/4"	011.342.03		19	16.3	6	34	35	24				
1"	011.342.04		22	19.1	6	42	43	37				
1 1/4"	011.342.05		26	21.4	8	50.5	51.5	60				
1 1/2"	011.342.06		31	21.4	13	61	62	97				
2"	011.342.07		38	25.7	15	75	76	160				

90° ELBOW



d	PART NO	PRICE	L	L ₁	Z	Z ₁	E	Wt (g)				
1/2"	011.032.02		16	15	11	12	26.5	11				
3/4"	011.032.03		19	16.3	14	16	32.5	20				
1"	011.032.04		22	19.1	17	19.7	41	36				
1 1/4"	011.032.05		26	21.4	23	24.9	50	54				
1 1/2"	011.032.06		31	21.4	28	30.6	60	122				
2"	011.032.07		38	25.7	34	37.6	75	233				
2 1/2"	011.032.08		44	30.2	40	46.3	89	308				
3"	011.032.09		51	33.3	48	53.8	106	538				
4"	011.032.10		61	39.3	58	65.7	129	810				

90° ELBOW – S/S REINFORCED

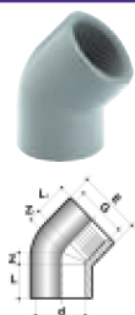


d	PART NO	PRICE	L	L ₁	Z	Z ₁	E	E ₁	Wt (g)			
1/2"	011.352.02		16	15	11	12	26.5	27.5	19			
3/4"	011.352.03		19	16.3	14	16.7	32.5	33.5	32			
1"	011.352.04		22	19.1	17	19.9	41	42	54			
1 1/4"	011.352.05		26	21.4	21	25.6	50	51	77			
1 1/2"	011.352.06		31	21.4	26	35.6	60	61	140			
2"	011.352.07		38	25.7	33	45.3	75	76	250			

ABS PRESSURE FITTINGS PLAIN/THREADED (BSP)

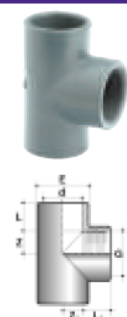
ABS

45° ELBOW



d	PART NO	PRICE	L	L ₁	Z	Z ₁	E	Wt (g)			
1/2"	011.042.02		16	15	5.5	6.5	28	11			
3/4"	011.042.03		19	16.3	6	8.7	34	19			
1"	011.042.04		22	19.1	8	10.9	42	31			
1 1/4"	011.042.05		26	21.4	10	14.6	51	54			
1 1/2"	011.042.06		31	21.4	12	21.6	61	94			
2"	011.042.07		38	25.7	15	27.3	75	181			
2 1/2"	011.042.08		44	30.2	18	31.8	89	275			
3"	011.042.09		51	33.3	21	38.7	106	410			
4"	011.042.10		61	39.3	25	46.7	129	770			

EQUAL TEE



d	PART NO	PRICE	L	L ₁	Z	Z ₁	E	Wt (g)			
1/2"	011.062.02		16	15	11	12	27.5	19			
3/4"	011.062.03		19	16.3	14	16	33.5	29			
1"	011.062.04		22	19.1	17	19.7	42	52			
1 1/4"	011.062.05		26	21.4	23	19.9	51	80			
1 1/2"	011.062.06		31	21.4	28	24	61	160			
2"	011.062.07		38	25.7	34	30	75	286			
2 1/2"	011.062.08		44	30.2	40	38	89	380			
3"	011.062.09		51	33.3	48	44	106	663			
4"	011.062.10		61	39.3	58	57	129	1094			

EQUAL TEE – S/S REINFORCED

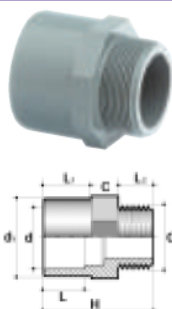


d	PART NO	PRICE	L	L ₁	Z	Z ₁	E	E ₁	Wt (g)		
1/2"	011.362.02		16	15	11	12	27.5	28.5	28		
3/4"	011.362.03		19	16.3	14	16.7	33.5	34.5	41		
1"	011.362.04		22	19.1	17	19.9	42	43	65		
1 1/4"	011.362.05		26	21.4	21	25.6	51	52	105		
1 1/2"	011.362.06		31	21.4	26	35.6	61	62	190		
2"	011.362.07		38	25.7	33	45.3	75	76	300		

ABS PRESSURE FITTINGS PLAIN/THREADED (BSP)

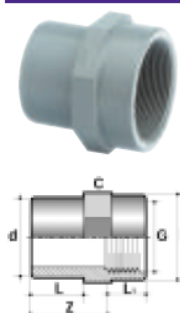
ABS

ADAPTOR – FEMALE PLAIN/MALE PLAIN/MALE THREADED



d x d ₁ x G	PART NO	PRICE	d ₁	L	L ₁	L ₂	H	C	Wt (g)			
1/2"x3/4"x1/2"	011.202.02		3/4"	16	19	15	46	27	11			
1/2"x3/4"x3/4"	011.202.0203		3/4"	16	19	16.3	47	30	12			
3/4"x1"x3/4"	011.202.03		1"	19	22	16.3	50	36	20			
3/4"x1"x1"	011.202.0304		1"	19	22	19.1	53	36	22			
1"x1 1/4"x1"	011.202.04		1 1/4"	22	26	19.1	57	42	32			
1"x1 1/4"x1 1/4"	011.202.0405		1 1/4"	22	26	21.4	60	46	39			
1 1/4"x1 1/2"x1 1/4"	011.202.05		1 1/2"	26	31	21.4	66.5	55	46			
1 1/4"x1 1/2"x1 1/2"	011.202.0506		1 1/2"	26	31	21.4	66.5	55	48			
1 1/2"x2"x1 1/2"	011.202.06		2"	31	38	21.4	74	65	83			
1 1/2"x2"x2"	011.202.0607		2"	31	38	25.7	78	65	93			
2"x2 1/2"x2"	011.202.07		2 1/2"	38	44	25.7	84	75	114			
2"x2 1/2"x2 1/2"	011.202.0708		2 1/2"	38	44	30.2	91	80	135			
2 1/2"x3"x2 1/2"	011.202.08		3"	44	51	30.2	99	95	195			
2 1/2"x3"x3"	011.202.0809		3"	44	51	33.3	102	95	206			
3"x4"x3"	011.202.09		4"	53	61	33.3	113	119	434			
3"x4"x4"	011.202.0910		4"	51	61	39.3	118	115	438			
4"x5"x4"	011.202.10		5"	61	69	39.3	120	130	320			
4"x5"x5"	011.202.1011		5"	61	64	43.6	124	140	420			

ADAPTOR – MALE PLAIN/FEMALE THREADED



d x G	PART NO	PRICE	L	L ₁	E	Z	C	Wt (g)				
1/2"	011.212.02		16	15	28	24	30	19				
1/2" x 3/4"	011.212.0203		16	16.3	34	24	36	22				
3/4" x 1/2"	011.212.0302		19	15	28	27	30	19				
3/4"	011.212.03		19	16.3	34	27	36	22				
3/4" x 1"	011.212.0304		19	19.1	42	27	46	32				
1" x 3/4"	011.212.0403		22	16.3	34	30	36	29				
1"	011.212.04		22	19.1	42	30	46	36				
1 1/4" x 1"	011.212.0504		26	19.1	42	36	46	45				
1 1/4"	011.212.05		26	21.4	51	36	55	52				
1 1/2" x 1 1/4"	011.212.0605		31	21.4	51	41	55	57				
1 1/2"	011.212.06		31	21.4	58	41	60	57				
1 1/2" x 2"	011.212.0607		31	25.7	75	41	75	95				
2" x 1 1/2"	011.212.0706		38	21.4	60	49	65	100				
2"	011.212.07		38	25.7	75	48	75	100				
2 1/2" x 2"	011.212.0807		44	25.7	75	53	75	120				
2 1/2"	011.212.08		44	30.2	89	58	90	190				
2 1/2" x 3"	011.212.0809		44	33.3	103	58	105	240				
3" x 2 1/2"	011.212.0908		51	30.2	89	65	95	245				
3"	011.212.09		51	33.3	103	66	105	255				
3" x 4"	011.212.0910		51	39.3	130	65	130	360				
4" x 3"	011.212.1009		61	33.3	103	76	130	390				
4"	011.212.10		61	39.3	130	76	130	410				

ABS PRESSURE FITTINGS PLAIN/THREADED (BSP)

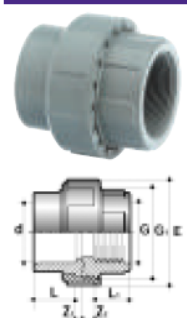
ABS

ADAPTOR – S/S REINFORCED - MALE PLAIN/FEMALE THREADED



d x G	PART NO	PRICE	L	L ₁	E	Z	C	Wt (g)			
1/2"	011.372.02		16	15	29	24	30	19			
3/4" x 1/2"	011.372.0302		19	15	29	27	30	19			
3/4"	011.372.03		19	16.3	35	27	36	24			
1" x 3/4"	011.372.0403		22	16.3	35	30	36	25			
1"	011.372.04		22	19.1	43	30	46	38			
1 1/4" x 1"	011.372.0504		26	19.1	43	36	46	50			
1 1/4"	011.372.05		26	21.4	51.5	36	55	67			
1 1/2" x 1 1/4"	011.372.0605		31	21.4	51.5	41	55	65			
1 1/2"	011.372.06		31	21.4	61	41	60	73			
2" x 1 1/2"	011.372.0706		38	21.4	61	48	75	105			
2"	011.372.07		38	25.7	76	48	75	115			

UNION



d	PART NO	PRICE	L	L ₁	Z ₁	Z ₂	G ₁	E	Wt (g)		
1/2"	011.022.02		16	15	3	11	1"	42	31		
3/4"	011.022.03		19	16.3	3	12.7	1 1/4"	52	51		
1"	011.022.04		22	19.1	3	12.9	1 1/2"	59	70		
1 1/4"	011.022.05		26	21.4	3	16.6	2"	72	109		
1 1/2"	011.022.06		31	21.4	3	23.6	2 1/4"	79	176		
2"	011.022.07		38	25.7	3	30.3	2 3/4"	96	293		
2 1/2"*	011.022.08		44	30.2	3	31.8	3 1/2"	119	470		
3"*	011.022.09		51	33.3	5	35.7	4"	134	610		
4"*	011.022.10		61	39.3	5	39.7	5"	163	970		

* PN10 RATED

SPARE PARTS FOR UNIONS AVAILABLE SEE PAGE 35

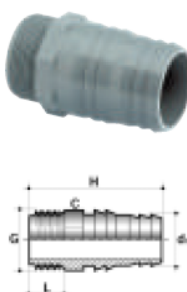
UNION – MALE THREAD ONE END



d	PART NO	PRICE	L	L ₁	L ₂	Z ₁	C	G ₁	E	Wt (g)	
1 1/2"	011.592.06		31	21.4	40	3	65	2 1/4"	79	240	
1 1/2" x 2"	011.592.0607		31	25.7	40	3	65	2 1/4"	79	250	
2"	011.592.07		38	25.7	42	3	70	2 3/4"	96	330	

SPARE PARTS FOR UNIONS AVAILABLE SEE PAGE 35

HOSE ADAPTOR – MALE BSP X MM HOSE TAIL



G x d ₁	PART NO	PRICE	L	H	C	Wt (g)				
1/4" x 12	011.262M.00012		11	52	19	8				
3/8" x 16	011.262M.01016		11.4	64	19	15				
1/2" x 20	011.262M.02020		15	70	24	20				
3/4" x 25	011.262M.03025		16.3	76	30	30				
1" x 32	011.262M.04032		19.1	80	36	50				
1 1/4" x 40	011.262M.05040		21.4	92	46	70				
1 1/2" x 50	011.262M.06050		21.4	99	55	118				
2" x 60	011.262M.07060		25.7	118	65	190				

RANGE OF PP HOSE FITTINGS AVAILABLE SEE PAGE 182

ABS PRESSURE FITTINGS PLAIN/THEADED (BSP)

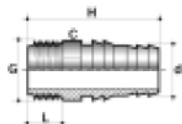
ABS

HOSE ADAPTOR - MALE BSP X INCH HOSE TAIL



d ₁	PART NO	PRICE	H	C	L	G	d ₁	Wt (g)				
1/2"•	011.262M.0202		60	6	13	26	14	8				
3/4"•	011.262M.0303		66	9	16	28	20	15				
1"•	011.262M.0404		73	8	19	40	27	28				

RANGE OF PP HOSE FITTINGS AVAILABLE SEE PAGE 182

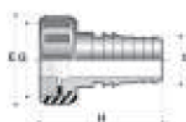


HOSE ADAPTOR - FEMALE BSP X MM HOSE TAIL



G x d	PART NO	PRICE	H	E	Wt (g)							
3/4" x 16	011.872.03016		54	34	22							
1" x 20	011.872.04020		59	42	31							
1 1/4" x 25	011.872.05025		63	52	47							
1 1/2" x 30	011.872.06030		68	59	66							
2" x 40	011.872.07040		77	72	105							
2 1/4" x 50	011.872.08050		80	79	140							
2 3/4" x 60	011.872.08060		84	96	215							

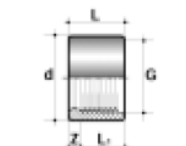
RANGE OF PP HOSE FITTINGS AVAILABLE SEE PAGE 182



REDUCING BUSH



d x G	PART NO	PRICE	L	L ₁	Z	Wt (g)						
3/8" x 1/4"•	011.092.0100											
1/2" x 1/4"•	011.092.0200											
1/2" x 3/8"•	011.092.0201		16	13.5	2.5	2						
3/4" x 1/2"	011.092.0302		19	15	4	6						
1" x 3/4"	011.092.0403		22	16.3	5.7	9						
1 1/4" x 1"	011.092.0504		26	19.1	6.9	16						
1 1/2" x 1 1/4"	011.092.0605		31	21.4	9.6	34						
2" x 1 1/2"	011.092.0706		38	21.4	16.6	51						
2 1/2" x 2"	011.092.0807		44	25.7	18.3	72						
3" x 2 1/2"	011.092.0908		51	30.2	20.8	114						
4" x 3"	011.092.1009		61	33.3	27.7	212						



TANK CONNECTOR



D	PART NO	PRICE	L1	L2	O	Wt (g)						
1/2"•	011.242.02		77	42	38	31						
3/4"•	011.242.03		77	42	42	37						
1"•	011.242.04		103	55	55	71						
1 1/4"•	011.242.05		121	70	65	112						
1 1/2"•	011.242.06		128	73	72	168						
2"•	011.242.07		154	85	93	317						
2 1/2"•	011.242.08		164	88	106	358						
3"•	011.242.09		202	112	125	674						
4"•	011.242.10		230	130	154	1214						
6"•	011.242.12											



• NON COMER PRODUCT

ABS PRESSURE FITTINGS PLAIN/THREADED (BSP)

ABS

PP TANK CONNECTOR



D	PART NO	PRICE	D	E	H	P	L	H ₁	Wt (g)			
1 1/2"	031.242.06		48	80	90	37	56	25	125			

NIPPLE*



D	PART NO	PRICE	L2	L1	Wt (g)							
3/8"	011.252.01		13	42	8							
1/2"	011.252.02		17	50	14							
3/4"	011.252.03		16	56	25							
1"	011.252.04		20	63	38							
1 1/4"	011.252.05		24	75	52							
1 1/2"	011.252.06		30	88	80							
2"	011.252.07		32	88	115							
2 1/2"	011.252.08		35	106	197							
3"	011.252.09		39	128	300							
4"	011.252.10		43	153	560							

* MACHINED FROM PIPE

COMPOSITE UNION – MALE BRASS



SIZE	PART NO	PRICE	E	L1	Z1	Wt (g)						
1/2"	011.762.02		40	56	3	175						
3/4"	011.762.03		48	67	3	320						
1"	011.762.04		55	68	9	420						
1 1/4"	011.762.05		65	84	10	620						
1 1/2"	011.762.06		78	92	12	571						
2"	011.762.07		88	109	14	964						
2 1/2"	011.762.08		108	127	18	1632						
3"	011.762.09		122	138	18	2135						

PLEASE NOTE: FOR CONNECTING PLASTIC PIPEWORK SYSTEMS TO METAL PIPEWORK SYSTEMS COMPOSITE UNIONS AND/OR FLANGES MUST BE USED.

COMPOSITE UNION – FEMALE BRASS



SIZE	PART NO	PRICE	E	L1	Z1	Z2	Wt (g)					
1/2"	011.752.02		40	43	3	9	165					
3/4"	011.752.03		48	48	3	10	290					
1"	011.752.04		55	59	9	11	310					
1 1/4"	011.752.05		65	68	10	11	450					
1 1/2"	011.752.06		78	76	12	12	486					
2"	011.752.07		88	90	14	14	950					
2 1/2"	011.752.08		108	95	14	4	1325					
3"	011.752.09		124	112	16	5	1607					

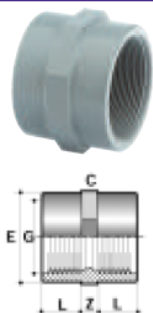
PLEASE NOTE: FOR CONNECTING PLASTIC PIPEWORK SYSTEMS TO METAL PIPEWORK SYSTEMS COMPOSITE UNIONS AND/OR FLANGES MUST BE USED.

• NON COMER PRODUCT

ABS PRESSURE FITTINGS THREADED (BSP)

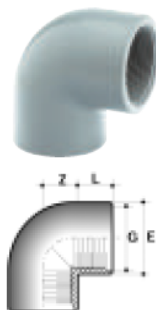
ABS

SOCKET



G	PART NO	PRICE	L	Z	E	C	Wt (g)					
3/8"	011.013.01		11.4	6	23.5	24	8					
1/2"	011.013.02		15	7	28	30	11					
3/4"	011.013.03		16.3	7	34	36	16					
1"	011.013.04		19.1	8	42	46	24					
1 1/4"	011.013.05		21.4	8	50.5	55	47					
1 1/2"	011.013.06		21.4	8	57.5	60	75					
2"	011.013.07		25.7	8	71.5	75	118					
2 1/2"	011.013.08		30.2	9	88	90	161					
3"	011.013.09		33.3	10	102	105	261					
4"	011.013.10		39.3	11	129	130	382					

90° ELBOW



G	PART NO	PRICE	L	Z	E	Wt (g)						
3/8"	011.033.01		11.4	11.6	23.5	10						
1/2"	011.033.02		15	12	26.5	11						
3/4"	011.033.03		16.3	16.7	32.5	20						
1"	011.033.04		19.1	19.9	41	36						
1 1/4"	011.033.05		21.4	27.6	50	54						
1 1/2"	011.033.06		21.4	37.6	60	122						
2"	011.033.07		25.7	46.3	75	233						
2 1/2"	011.033.08		30.2	53.8	89	308						
3"	011.033.09		33.3	65.7	106	538						
4"	011.033.10		39.3	79.7	129	810						

45° ELBOW



G	PART NO	PRICE	L	Z	E	Wt (g)						
3/8"	011.043.01		11.4	8.1	23.5	9						
1/2"	011.043.02		15	6.5	28	14						
3/4"	011.043.03		16.3	8.7	34	22						
1"	011.043.04		19.1	10.9	42	39						
1 1/4"	011.043.05		21.4	14.6	51	58						
1 1/2"	011.043.06		21.4	21.6	61	110						
2"	011.043.07		25.7	27.3	75	191						
2 1/2"	011.043.08		30.2	31.8	89	254						
3"	011.043.09		33.3	38.7	106	446						
4"	011.043.10		39.3	46.7	128	665						

EQUAL TEE



G	PART NO	PRICE	L	Z	E	Wt (g)						
3/8"	011.063.01		11.4	11.6	23.5	14						
1/2"	011.063.02		15	12	27	19						
3/4"	011.063.03		16.3	16.7	33.5	29						
1"	011.063.04		19.1	19.9	42	52						
1 1/4"	011.063.05		21.4	27.6	51	80						
1 1/2"	011.063.06		21.4	37.6	61	160						
2"	011.063.07		25.7	46.3	75	286						
2 1/2"	011.063.08		30.2	53.8	89	380						
3"	011.063.09		33.3	65.7	106	663						
4"	011.063.10		39.3	79.7	129	1094						

ABS PRESSURE FITTINGS THREADED (BSP)

ABS

UNION

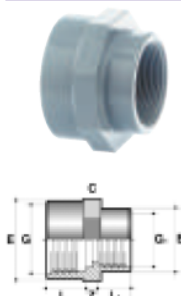


G	PART NO	PRICE	L	Z ₁	Z ₂	G ₁	E	Wt (g)				
3/8"	011.023.01		11.4	5.6	12.6	3/4"	67	29				
1/2"	011.023.02		15	4	11	1"	42	31				
3/4"	011.023.03		16.3	5.7	12.7	1 1/4"	52	51				
1"	011.023.04		19.1	5.9	12.9	1 1/2"	59	70				
1 1/4"	011.023.05		21.4	7.6	16.6	2"	72	109				
1 1/2"	011.023.06		21.4	12.6	23.6	2 1/4"	79	176				
2"	011.023.07		25.7	15.3	30.3	2 3/4"	96	293				
2 1/2"*	011.023.08		30.2	16.8	31.8	3 1/2"	119	470				
3"*	011.023.09		33.3	22.7	35.7	4"	134	610				
4"*	011.023.10		39.3	26.7	39.7	5"	163	970				

* PN10 RATED

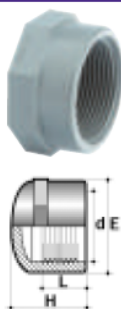
SPARE PARTS FOR UNIONS AVAILABLE SEE PAGE 35

REDUCING SOCKET



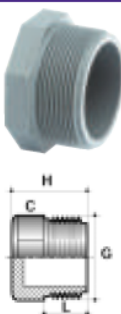
G x G ₁	PART NO	PRICE	L	L ₁	Z	C	E	E ₁	Wt (g)			
1/2" x 3/8"	011.603.0201		15	11.4	6	24	28	23	14			
3/4" x 1/2"	011.603.0302		16.3	15	7	30	34	28	20			
1" x 3/4"	011.603.0403		19.1	16.3	7	36	42	34	34			
1 1/4" x 1"	011.603.0504		21.4	19.1	8	46	51	42	48			
1 1/2" x 1 1/4"	011.603.0605		21.4	21.4	8	55	58	51	55			
2" x 1 1/2"	011.603.0706		25.7	21.4	8	60	72	58	92			
2 1/2" x 2"	011.603.0807		30.2	25.7	8	75	89	72	150			
3" x 2 1/2"	011.603.0908		33.3	30.2	9	105	103	89	206			
4" x 3"	011.603.1009		39.3	33.3	10	130	130	103	324			

CAP



d	PART NO	PRICE	L	H	E	Wt (g)						
3/8"	011.223.01		11.4	22	23	7						
1/2"	011.223.02		15	26	28	12						
3/4"	011.223.03		16.3	28	34	17						
1"	011.223.04		19.1	32	42	30						
1 1/4"	011.223.05		21.4	35	51	44						
1 1/2"	011.223.06		21.4	35	58	52						
2"	011.223.07		25.7	39	72	93						
2 1/2"	011.223.08		30.2	52	89	144						
3"	011.223.09		33.3	56	103	210						
4"	011.223.10		39.3	64	130	318						

PLUG

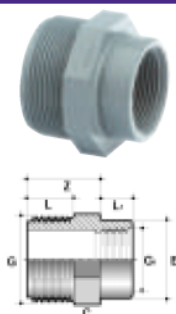


G	PART NO	PRICE	L	H	C	Wt (g)						
3/8"	011.233.01		11.4	23	19	5						
1/2"	011.233.02		15	29	24	9						
3/4"	011.233.03		16.3	30	30	13						
1"	011.233.04		19.1	33	36	19						
1 1/4"	011.233.05		21.4	39	46	34						
1 1/2"	011.233.06		21.4	39	55	36						
2"	011.233.07		25.7	43	65	66						
2 1/2"	011.233.08		30.2	53	80	108						
3"	011.233.09		33.3	58	95	163						
4"	011.233.10		39.3	65	120	255						

ABS PRESSURE FITTINGS THREADED (BSP)

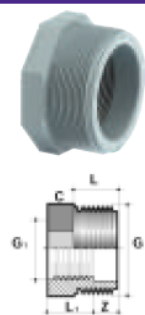
ABS

REDUCING BUSH - LONG PATTERN



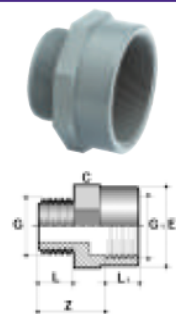
G x G ₁	PART NO	PRICE	L	L ₁	Z	C	E	Wt (g)				
1/2" x 3/8"	011.613.0201		15	11.4	24	24	23	9				
3/4" x 3/8"	011.613.0301		16.3	11.4	25	30	23	12				
3/4" x 1/2"	011.613.0302		16.3	15	26	30	28	16				
1" x 3/8"	011.613.0401		19.1	11.4	28	36	23	19				
1" x 1/2"	011.613.0402		19.1	15	29	36	28	20				
1" x 3/4"	011.613.0403		19.1	16.3	30	36	34	20				
1 1/4" x 1/2"	011.613.0502		21.4	15	33	46	28	31				
1 1/4" x 3/4"	011.613.0503		21.4	16.3	34	46	34	32				
1 1/4" x 1"	011.613.0504		21.4	19.1	33	46	42	34				
1 1/2" x 3/4"	011.613.0603		21.4	16.3	34	50	34	45				
1 1/2" x 1"	011.613.0604		21.4	19.1	34	50	42	43				
1 1/2" x 1 1/4"	011.613.0605		21.4	21.4	34	55	51	45				
2" x 1"	011.613.0704		25.7	19.1	37	65	42	72				
2" x 1 1/4"	011.613.0705		25.7	21.4	37	65	51	71				
2" x 1 1/2"	011.613.0706		25.7	21.4	37	65	58	72				
2 1/2" x 1 1/4"	011.613.0805		30.2	21.4	43	80	51	106				
2 1/2" x 1 1/2"	011.613.0806		30.2	21.4	43	80	58	105				
2 1/2" x 2"	011.613.0807		30.2	25.7	43	80	72	107				
3" x 1 1/2"	011.613.0906		33.3	21.4	47	95	58	147				
3" x 2"	011.613.0907		33.3	25.7	47	95	72	155				
3" x 2 1/2"	011.613.0908		33.3	30.2	47	95	89	161				
4" x 2"	011.613.1007		39.3	25.7	53	120	72	250				
4" x 2 1/2"	011.613.1008		39.3	30.2	53	120	89	265				
4" x 3"	011.613.1009		39.3	33.3	53	120	103	270				

REDUCING BUSH - SHORT PATTERN



G x G ₁	PART NO	PRICE	L	L ₁	Z	C	Wt (g)				
3/4" x 1/2"	011.093.0302		16.3	15	13.3	30	10				
1" x 3/4"	011.093.0403		19.1	16.3	14.8	36	15				
1 1/4" x 1"	011.093.0504		21.4	19.1	16.3	46	27				
1 1/2" x 1 1/4"	011.093.0605		21.4	21.4	14	50	30				
2" x 1 1/2"	011.093.0706		25.7	21.4	18.3	65	55				
2 1/2" x 2"	011.093.0807		30.2	25.7	20.5	80	100				
3" x 2 1/2"	011.093.0908		33.3	30.2	20.1	95	117				
4" x 3"	011.093.1009		39.3	33.3	24	120	280				

REDUCING PIECE - MALE/FEMALE

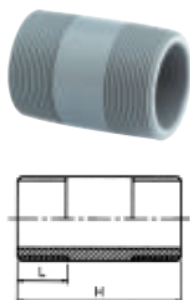


G x G ₁	PART NO	PRICE	L	L ₁	Z	C	E	Wt (g)				
3/8" x 1/2"	011.293.0201		11.4	15	22	30	28	8				
1/2" x 3/4"	011.293.0302		15	16.3	24	36	34	13				
3/4" x 1"	011.293.0403		16.3	19.1	26	46	42	19				
1" x 1 1/4"	011.293.0504		19.1	21.4	30	55	51	31				
1 1/4" x 1 1/2"	011.293.0605		21.4	21.4	33	60	58	36				
1 1/2" x 2"	011.293.0706		21.4	25.7	34	75	72	65				
2" x 2 1/2"	011.293.0807		25.7	30.2	38	90	89	105				
2 1/2" x 3"	011.293.0908		30.2	33.3	44	105	103	153				
3" x 4"	011.293.1009		33.3	39.3	48	130	130	268				

ABS PRESSURE FITTINGS THREADED (BSP)

ABS

NIPPLE*



SIZE	PART NO	PRICE	L	H	Wt (g)						
1/4"	011.253.00										
3/8"	011.253.01		12	43	6						
1/2"	011.253.02		13	50	10						
3/4"	011.253.03		14	56	15						
1"	011.253.04		17	63	25						
1 1/4"	011.253.05		19	75	50						
1 1/2"	011.253.06		19	88	72						
2"	011.253.07		23	88	109						
2 1/2"	011.253.08		30	106	115						
3"	011.253.09		30	128	268						
4"	011.253.10		36	153	520						

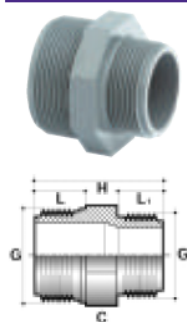
* MACHINED FROM PIPE

HEXAGON NIPPLE



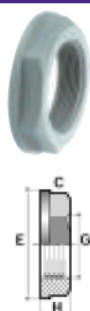
G	PART NO	PRICE	L	H	C	Wt (g)					
3/8"	011.273.01		11.4	31.7	8.9	5					
1/2"	011.273.02		15	42	12	9					
3/4"	011.273.03		16.3	44	11.4	15					
1"	011.273.04		19.1	50	11.8	23					
1 1/4"	011.273.05		21.4	58	15.2	38					
1 1/2"	011.273.06		21.4	58	15.2	41					
2"	011.273.07		25.7	66	14.6	83					
2 1/2"	011.273.08		30.2	78	17.6	120					
3"	011.273.09		33.3	85	18.4	176					
4"	011.273.10		39.3	96	17.4	270					

REDUCING NIPPLE



G x G ₁	PART NO	PRICE	L	L ₁	H	C	Wt (g)				
1/2" x 3/8"	011.283.0201		15	11.4	38	24	7				
3/4" x 1/2"	011.283.0302		16.3	15	43	30	12				
1" x 3/4"	011.283.0403		19.1	16.3	47	36	20				
1 1/4" x 1"	011.283.0504		21.4	19.1	56	46	35				
1 1/2" x 1 1/4"	011.283.0605		21.4	21.4	58	50	40				
2" x 1 1/2"	011.283.0706		25.7	21.4	62	65	70				
2 1/2" x 2"	011.283.0807		30.2	25.7	73	80	110				
3" x 2 1/2"	011.283.0908		33.3	30.2	82	95	165				
4" x 3"	011.283.1009		39.3	33.3	90	120	270				

BACKNUT



G	PART NO	PRICE	E	H	C	Wt (g)					
3/8"	011.323.01		34	12	24	8					
1/2"	011.323.02		38	13	29	9					
3/4"	011.323.03		43	14	34	10					
1"	011.323.04		56	16	46	21					
1 1/4"	011.323.05		65	18	50	24					
1 1/2"	011.323.06		72	19	60	36					
2"	011.323.07		94	21	80	70					
2 1/2"	011.323.08		115	24	94	74					
3"	011.323.09		130	27	108	105					
4"	011.323.10		162	30	135	150					

• NON COMER PRODUCT

ABS MANUAL VALVES

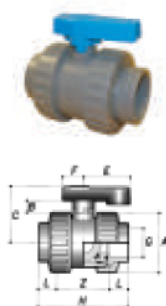
ABS

STANDARD BALL VALVE – SINGLE UNION – PTFE SEAT – EPDM SEALS – PLAIN ENDS



G	PART NO	PRICE	L	Z	H	A	B	C	E	F	PN	Wt (g)
3/8"	011.82S1.01Q		14	47	75	50	10	48	39	19	15	80
1/2"	011.82S1.02Q		16	46	78	50	10	48	39	19	15	88
3/4"	011.82S1.03Q		19	52	90	60	11	54	47	22	15	136
1"	011.82S1.04Q		22	59	103	68	13	62	55	25	15	200
1 1/4"	011.82S1.05Q		26	68	120	80	18	75	60	30	15	296
1 1/2"	011.82S1.06Q		31	75	137	96	20	87	68	35	15	448
2"	011.82S1.07Q		38	92	168	116	20	101	80	40	15	784
2 1/2"	011.82S1.08Q		44	124	212	145	25	123	90	45	10	1460
3"	011.82S1.09Q		51	147	249	166	28	138	100	50	10	2320
4"	011.82S1.10Q		61	159	281	210	28	160	120	60	10	3832

STANDARD BALL VALVE – DOUBLE UNION – PTFE SEAT – EPDM SEALS – PLAIN ENDS



G	PART NO	PRICE	L	Z	H	A	B	C	E	F	PN	Wt (g)
3/8"	011.66S1.01Q		14	40	68	50	10	48	39	19	15	112
1/2"	011.66S1.02Q		16	40	72	50	10	48	39	19	15	104
3/4"	011.66S1.03Q		19	48	86	60	11	54	47	22	15	160
1"	011.66S1.04Q		22	54	98	68	13	62	55	25	15	245
1 1/4"	011.66S1.05Q		26	62	114	80	18	75	60	30	15	360
1 1/2"	011.66S1.06Q		31	73	135	96	20	87	68	35	15	574
2"	011.66S1.07Q		38	85	161	116	20	101	80	40	15	945
2 1/2"	011.66S1.08Q		44	115	203	145	25	123	90	45	10	1770
3"	011.66S1.09Q		51	129	231	166	28	138	100	50	10	2784
4"	011.66S1.10Q		61	149	271	210	28	160	120	60	10	4590

INDUSTRIAL BALL VALVE - DOUBLE UNION - PTFE SEAT - EPDM SEALS - PLAIN ENDS



d	PART NO	PRICE	L	Z	H	A	B	C	E	F	PN	Wt (g)
3/8"	011.66I1.01Q		14	62	90	50	10	48	39	19	15	145
1/2"	011.66I1.02Q		16	62	94	50	10	48	39	19	15	135
3/4"	011.66I1.03Q		19	74	112	60	11	54	47	22	15	212
1"	011.66I1.04Q		22	77	121	68	13	62	55	25	15	301
1 1/4"	011.66I1.05Q		26	87	139	80	18	75	60	30	15	436
1 1/2"	011.66I1.06Q		31	93	155	96	20	87	68	35	15	708
2"	011.66I1.07Q		38	113	189	116	20	101	80	40	15	1152
2 1/2"	011.66I1.08Q		44	116	204	145	25	123	90	45	10	1840
3"	011.66I1.09Q		51	130	232	166	28	138	100	50	10	2924
4"	011.66I1.10Q		61	150	272	210	28	160	120	60	10	4800

INDUSTRIAL BALL VALVE - DOUBLE UNION - PTFE SEAT - FPM SEALS - PLAIN ENDS



d	PART NO	PRICE	L	Z	H	A	B	C	E	F	PN	Wt (g)
3/8"	011.66I1.01R		14	62	90	50	10	48	39	19	15	145
1/2"	011.66I1.02R		16	62	94	50	10	48	39	19	15	135
3/4"	011.66I1.03R		19	74	112	60	11	54	47	22	15	212
1"	011.66I1.04R		22	77	121	68	13	62	55	25	15	301
1 1/4"	011.66I1.05R		26	87	139	80	18	75	60	30	15	436
1 1/2"	011.66I1.06R		31	93	155	96	20	87	68	35	15	708
2"	011.66I1.07R		38	113	189	116	20	101	80	40	15	1152
2 1/2"	011.66I1.08R		44	116	204	145	25	123	90	45	10	1840
3"	011.66I1.09R		51	130	232	166	28	138	100	50	10	2924
4"	011.66I1.10R		61	150	272	210	28	160	120	60	10	4800

ELECTRICALLY AND PNEUMATICALLY ACTUATED BALL VALVES ALSO AVAILABLE - SEE PAGES 29-30

ABS & METAL MANUAL VALVES

ABS

BRASS BALL VALVE



BSP FEMALE THREADED ENDS

SIZE	PART NO	PRICE
1/4"	4101-00	
3/8"	4101-01	
1/2"	4101-02	
3/4"	4101-03	
1"	4101-04	
1 1/4"	4101-05	
1 1/2"	4101-06	
2"	4101-07	

* PLEASE NOTE - COLOUR OF LEVER HANDLE MAY DIFFER FROM THE ABOVE IMAGE

BRASS BALL VALVE - LOCKABLE



BSP FEMALE THREADED ENDS

SIZE	PART NO	PRICE
1/4"	2312-00	
3/8"	2312-01	
1/2"	2312-02	
3/4"	2312-03	
1"	2312-04	
1 1/4"	2312-05	
1 1/2"	2312-06	
2"	2312-07	
2 1/2"	2312-08	
3"	2312-09	
4"	2312-10	

* PLEASE NOTE - COLOUR OF LEVER HANDLE MAY DIFFER FROM THE ABOVE IMAGE

BRASS GATE VALVE



BSP FEMALE THREADED ENDS

SIZE	PART NO	PRICE
1/4"	2015-00	
3/8"	2015-01	
1/2"	2015-02	
3/4"	2015-03	
1"	2015-04	
1 1/4"	2015-05	
1 1/2"	2015-06	
2"	2015-07	
2 1/2"	2015-08	
3"	2015-09	
4"	2015-10	

INDUSTRIAL DIAPHRAGM VALVE – HANDWHEEL OPERATED – EPDM DIAPHRAGM



NEW DESIGN

SIZE	PART NO	PRICE	DIA.SIZE											
1/2"	011.681.02Q		3/4"											
3/4"	011.681.03Q		3/4"											
1"	011.681.04Q		3/4"											
1 1/4"	011.681.05Q		1"											
1 1/2"	011.681.06Q		1 1/2"											
2"	011.681.07Q		1 1/2"											
2 1/2"	011.681.08Q		2"											
3"	011.681.09Q		3"											
4"	011.681.10Q		4"											

PRICES FOR UNION ENDS ARE AVAILABLE ON REQUEST
FPM DIAPHRAGM AVAILABLE. PRICES ON APPLICATION

INDUSTRIAL DIAPHRAGM VALVE – HANDWHEEL OPERATED – PTFE/EPDM DIAPHRAGM



NEW DESIGN

SIZE	PART NO	PRICE	DIA.SIZE											
1/2"	011.681.02S		3/4"											
3/4"	011.681.03S		3/4"											
1"	011.681.04S		3/4"											
1 1/4"	011.681.05S		1"											
1 1/2"	011.681.06S		1 1/2"											
2"	011.681.07S		1 1/2"											
2 1/2"	011.681.08S		2"											
3"	011.681.09S		3"											
4"	011.681.10S		4"											

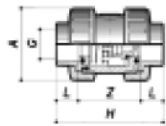
PRICES FOR UNION ENDS ARE AVAILABLE ON REQUEST
FPM DIAPHRAGM AVAILABLE. PRICES ON APPLICATION

PNEUMATICALLY ACTUATED DIAPHRAGM VALVES ALSO AVAILABLE - SEE PAGE 31
• NON COMER PRODUCT

ABS & METAL MANUAL VALVES

ABS

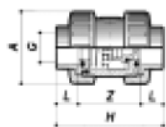
STANDARD SPRING CHECK NON RETURN VALVE - DOUBLE UNION - STAINLESS STEEL SPRING - EPDM SEALS - PLAIN ENDS



G	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.671.01Q		14	48	76	50	E	96				
1/2"	011.671.02Q		16	48	80	50	E	87				
3/4"	011.671.03Q		19	53	91	60	E	135				
1"	011.671.04Q		22	58	102	68	E	196				
1 1/4"	011.671.05Q		26	68	120	80	E	290				
1 1/2"	011.671.06Q		31	78	140	96	E	476				
2"	011.671.07Q		38	93	169	116	E	777				
2 1/2"	011.671.08Q		44	126	214	145	C	1392				
3"	011.671.09Q		51	139	269	166	C	2248				
4"	011.671.10Q		61	159	290	210	C	3752				

DETAILS FOR CHECK VALVE WITH PTFE COATED STAINLESS STEEL SPRING ARE AVAILABLE ON REQUEST

STANDARD SPRING CHECK NON RETURN VALVE - DOUBLE UNION - STAINLESS STEEL SPRING - FPM SEALS - PLAIN ENDS



G	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.671.01R		14	48	76	50	E	96				
1/2"	011.671.02R		16	48	80	50	E	87				
3/4"	011.671.03R		19	53	91	60	E	135				
1"	011.671.04R		22	58	102	68	E	196				
1 1/4"	011.671.05R		26	68	120	80	E	290				
1 1/2"	011.671.06R		31	78	140	96	E	476				
2"	011.671.07R		38	93	169	116	E	777				
2 1/2"	011.671.08R		44	126	214	145	C	1392				
3"	011.671.09R		51	139	269	166	C	2248				
4"	011.671.10R		61	159	290	210	C	3752				

DETAILS FOR CHECK VALVE WITH PTFE COATED STAINLESS STEEL SPRING ARE AVAILABLE ON REQUEST

BRASS SWING CHECK VALVE - METAL SEAT

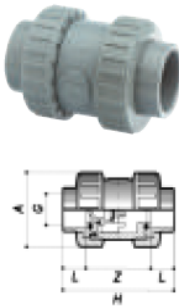


BSP FEMALE THREADED ENDS

SIZE	PART NO	PRICE
3/8"•	2250-01	
1/2"•	2250-02	
3/4"•	2250-03	
1"•	2250-04	
1 1/4"•	2250-05	
1 1/2"•	2250-06	
2"•	2250-07	
2 1/2"•	2250-08	
3"•	2250-09	
4"•	2250-10	

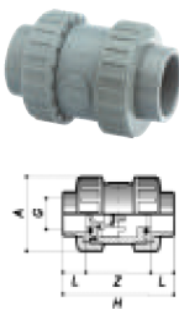
• NON COMER PRODUCT

STANDARD AIR RELEASE VALVE - DOUBLE UNION - EPDM SEALS - PLAIN ENDS



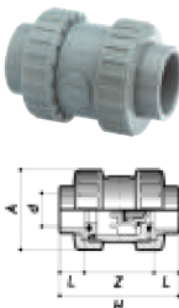
G	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.67A1.01Q		14	48	76	50	E	68				
1/2"	011.67A1.02Q		16	48	80	50	E	68				
3/4"	011.67A1.03Q		19	53	91	60	E	112				
1"	011.67A1.04Q		22	58	102	68	E	192				
1 1/4"	011.67A1.05Q		26	68	120	80	E	316				
1 1/2"	011.67A1.06Q		31	78	140	96	E	536				
2"	011.67A1.07Q		38	93	169	116	E	904				
2 1/2"	011.67A1.08Q		44	126	214	145	C	1392				
3"	011.67A1.09Q		51	139	269	166	C	2248				
4"	011.67A1.10Q		61	159	290	210	C	3752				

STANDARD AIR RELEASE VALVE - DOUBLE UNION - FPM SEALS - PLAIN ENDS



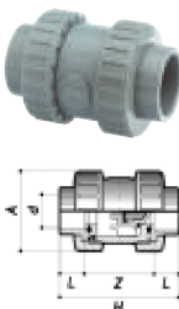
G	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.67A1.01R		14	48	76	50	E	68				
1/2"	011.67A1.02R		16	48	80	50	E	68				
3/4"	011.67A1.03R		19	53	91	60	E	112				
1"	011.67A1.04R		22	58	102	68	E	192				
1 1/4"	011.67A1.05R		26	68	120	80	E	316				
1 1/2"	011.67A1.06R		31	78	140	96	E	536				
2"	011.67A1.07R		38	93	169	116	E	904				
2 1/2"	011.67A1.08R		44	126	214	145	C	1392				
3"	011.67A1.09R		51	139	269	166	C	2248				
4"	011.67A1.10R		61	159	290	210	C	3752				

STANDARD FOOTVALVE - DOUBLE UNION - EPDM SEALS - PLAIN ENDS



d	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.67F1.01Q		14	48	76	50	E	76				
1/2"	011.67F1.02Q		16	48	80	50	E	76				
3/4"	011.67F1.03Q		19	53	91	60	E	120				
1"	011.67F1.04Q		22	58	102	68	E	208				
1 1/4"	011.67F1.05Q		26	68	120	80	E	368				
1 1/2"	011.67F1.06Q		31	78	140	96	E	624				
2"	011.67F1.07Q		38	93	169	116	E	1080				
2 1/2"	011.67F1.08Q		44	126	214	145	C	1392				
3"	011.67F1.09Q		51	139	269	166	C	2248				
4"	011.67F1.10Q		61	159	290	210	C	3752				

STANDARD FOOTVALVE - DOUBLE UNION - FPM SEALS - PLAIN ENDS



d	PART NO	PRICE	L	Z	H	A	CLASS	Wt (g)				
3/8"	011.67F1.01R		14	48	76	50	E	76				
1/2"	011.67F1.02R		16	48	80	50	E	76				
3/4"	011.67F1.03R		19	53	91	60	E	120				
1"	011.67F1.04R		22	58	102	68	E	208				
1 1/4"	011.67F1.05R		26	68	120	80	E	368				
1 1/2"	011.67F1.06R		31	78	140	96	E	624				
2"	011.67F1.07R		38	93	169	116	E	1080				
2 1/2"	011.67F1.08R		44	126	214	145	C	1392				
3"	011.67F1.09R		51	139	269	166	C	2248				
4"	011.67F1.10R		61	159	290	210	C	3752				

VARIABLE AREA FLOWMETERS

ABS

VARIABLE AREA FLOWMETER – STANDARD PATTERN – TROGAMID TUBE – STAINLESS STEEL FLOAT – EPDM SEALS



SIZE	PART NO	PRICE	SCALE	G	D	L1	L2	L3	L4	Wt (g)
3/4"•	011.1161.03A		20-250 L/HR	11/4"	53	350	356	375	394	450
3/4"•	011.1161.03B		40-400 L/HR	11/4"	53	350	356	375	394	450
3/4"•	011.1161.03C		60-640 L/HR	11/4"	53	350	356	375	394	450
3/4"•	011.1161.03D		75-1000 L/HR	11/4"	53	350	356	375	394	440
1"•	011.1161.04A		40-400 L/HR	11/2"	60	350	356	376	400	620
1"•	011.1161.04B		60-640 L/HR	11/2"	60	350	356	376	400	610
1"•	011.1161.04C		100-1000 L/HR	11/2"	60	350	356	376	400	600
1"•	011.1161.04D		150-1600 L/HR	11/2"	60	350	356	376	400	590
1 1/4"•	011.1161.05A		150-1600 L/HR	2"	74	350	356	380	408	1110
1 1/4"•	011.1161.05B		200-2500 L/HR	2"	74	350	356	380	408	1090
1 1/4"•	011.1161.05C		400-4000 L/HR	2"	74	350	356	380	408	1070
1 1/2"•	011.1161.06A		200-2500 L/HR	2 1/4"	83	350	356	382	418	1420
1 1/2"•	011.1161.06B		400-4000 L/HR	2 1/4"	83	350	356	382	418	1390
1 1/2"•	011.1161.06C		500-5000 L/HR	2 1/4"	83	350	356	382	418	1380
2"•	011.1161.07A		0.4-4.0 M/HR	2 3/4"	103	350	356	386	433	2000
2"•	011.1161.07B		0.6-6.4 M/HR	2 3/4"	103	350	356	386	433	1970
2"•	011.1161.07C		1.0-10.0 M/HR	2 3/4"	103	350	356	386	433	1920
2 1/2"•	011.1161.08A		1.5-14.0 M/HR	3 1/2"	122	350	356	388	445	3310
2 1/2"•	011.1161.08B		2.0-20.0 M/HR	3 1/2"	122	350	356	388	445	3310

OPTIONAL ITEMS ON REQUEST: POLYSULFONE TUBE, PP FLOAT, MAGNETIC FLOAT, SWITCHES, SENSORS, SPECIAL SCALES.

VARIABLE AREA FLOWMETER – SHORT PATTERN – TROGAMID TUBE – STAINLESS STEEL FLOAT – EPDM SEALS



SIZE	PART NO	PRICE	SCALE	G	D	L1	L2	L3	L4	Wt (g)
3/8"•	011.1171.01A		4-40 L/HR	3/4"	35	165	171	186	199	80
3/8"•	011.1171.01B		5-60 L/HR	3/4"	35	165	171	186	199	80
3/8"•	011.1171.01C		10-100 L/HR	3/4"	35	165	171	186	199	80
3/8"•	011.1171.01D		15-160 L/HR	3/4"	35	165	171	186	199	80
3/8"•	011.1171.01E		20-250 L/HR	3/4"	35	165	171	186	199	80
1/2"•	011.1171.02A		10-100 L/HR	1"	43	170	176	192	208	130
1/2"•	011.1171.02B		15-160 L/HR	1"	43	170	176	192	208	130
1/2"•	011.1171.02C		20-250 L/HR	1"	43	170	176	192	208	130
1/2"•	011.1171.02D		40-400 L/HR	1"	43	170	176	192	208	130
1/2"•	011.1171.02E		50-500 L/HR	1"	43	170	176	192	208	130
3/4"•	011.1171.03A		20-250 L/HR	1 1/4"	53	185	191	210	229	240
3/4"•	011.1171.03B		40-400 L/HR	1 1/4"	53	185	191	210	229	240
3/4"•	011.1171.03C		60-600 L/HR	1 1/4"	53	185	191	210	229	240
3/4"•	011.1171.03D		100-1000 L/HR	1 1/4"	53	185	191	210	229	240
1"•	011.1171.04A		40-400 L/HR	1 1/2"	59	200	206	226	250	340
1"•	011.1171.04B		50-650 L/HR	1 1/2"	59	200	206	226	250	340
1"•	011.1171.04C		100-1000 L/HR	1 1/2"	59	200	206	226	250	340
1"•	011.1171.04D		150-1600 L/HR	1 1/2"	59	200	206	226	250	340

OPTIONAL ITEMS ON REQUEST: POLYSULFONE TUBE, PP FLOAT, MAGNETIC FLOAT, SPECIAL SCALES.

• NON COMER PRODUCT

ELECTRICALLY ACTUATED BALL VALVE

EPDM SEALS- PLAIN ENDS - 110-240V AC



d	PART NO	PRICE
3/8"	011.6611.EAJ.01Q	
1/2"	011.6611.EAJ.02Q	
3/4"	011.6611.EAJ.03Q	
1"	011.6611.EAJ.04Q	
1 1/4"	011.6611.EAJ.05Q	
1 1/2"	011.6611.EAJ.06Q	
2"	011.6611.EAJ.07Q	
2 1/2"	011.6611.EAJ.08Q	
3"	011.6611.EAJ.09Q	
4"	011.6611.EAJ.10Q	

EPDM SEALS- PLAIN ENDS - 24V AC/DC



d	PART NO	PRICE
3/8"	011.6611.EAC.01Q	
1/2"	011.6611.EAC.02Q	
3/4"	011.6611.EAC.03Q	
1"	011.6611.EAC.04Q	
1 1/4"	011.6611.EAC.05Q	
1 1/2"	011.6611.EAC.06Q	
2"	011.6611.EAC.07Q	
2 1/2"	011.6611.EAC.08Q	
3"	011.6611.EAC.09Q	
4"	011.6611.EAC.10Q	

FPM SEALS- PLAIN ENDS - 110-240V AC



d	PART NO	PRICE
3/8"	011.6611.EAJ.01R	
1/2"	011.6611.EAJ.02R	
3/4"	011.6611.EAJ.03R	
1"	011.6611.EAJ.04R	
1 1/4"	011.6611.EAJ.05R	
1 1/2"	011.6611.EAJ.06R	
2"	011.6611.EAJ.07R	
2 1/2"	011.6611.EAJ.08R	
3"	011.6611.EAJ.09R	
4"	011.6611.EAJ.10R	

FPM SEALS- PLAIN ENDS - 24V AC/DC



d	PART NO	PRICE
3/8"	011.6611.EAC.01R	
1/2"	011.6611.EAC.02R	
3/4"	011.6611.EAC.03R	
1"	011.6611.EAC.04R	
1 1/4"	011.6611.EAC.05R	
1 1/2"	011.6611.EAC.06R	
2"	011.6611.EAC.07R	
2 1/2"	011.6611.EAC.08R	
3"	011.6611.EAC.09R	
4"	011.6611.EAC.10R	

OPTIONAL ITEMS ON REQUEST: FAILSAFE BATTERY SPRING RETURN KIT, MODULATING DIGITAL POSITIONING SYSTEM KIT.

PNEUMATICALLY ACTUATED BALL VALVE - SPRING RETURN ACTUATOR

EPDM SEALS- PLAIN ENDS - FAIL SAFE CLOSE



d	PART NO	PRICE
3/8"	011.6611.PANC.01Q	
1/2"	011.6611.PANC.02Q	
3/4"	011.6611.PANC.03Q	
1"	011.6611.PANC.04Q	
1 1/4"	011.6611.PANC.05Q	
1 1/2"	011.6611.PANC.06Q	
2"	011.6611.PANC.07Q	
2 1/2"	011.6611.PANC.08Q	
3"	011.6611.PANC.09Q	
4"	011.6611.PANC.10Q	

EPDM SEALS- PLAIN ENDS - FAIL SAFE OPEN



d	PART NO	PRICE
3/8"	011.6611.PANO.01Q	
1/2"	011.6611.PANO.02Q	
3/4"	011.6611.PANO.03Q	
1"	011.6611.PANO.04Q	
1 1/4"	011.6611.PANO.05Q	
1 1/2"	011.6611.PANO.06Q	
2"	011.6611.PANO.07Q	
2 1/2"	011.6611.PANO.08Q	
3"	011.6611.PANO.09Q	
4"	011.6611.PANO.10Q	

FPM SEALS- PLAIN ENDS - FAIL SAFE CLOSE



d	PART NO	PRICE
3/8"	011.6611.PANC.01R	
1/2"	011.6611.PANC.02R	
3/4"	011.6611.PANC.03R	
1"	011.6611.PANC.04R	
1 1/4"	011.6611.PANC.05R	
1 1/2"	011.6611.PANC.06R	
2"	011.6611.PANC.07R	
2 1/2"	011.6611.PANC.08R	
3"	011.6611.PANC.09R	
4"	011.6611.PANC.10R	

FPM SEALS- PLAIN ENDS - FAIL SAFE OPEN



d	PART NO	PRICE
3/8"	011.6611.PANO.01R	
1/2"	011.6611.PANO.02R	
3/4"	011.6611.PANO.03R	
1"	011.6611.PANO.04R	
1 1/4"	011.6611.PANO.05R	
1 1/2"	011.6611.PANO.06R	
2"	011.6611.PANO.07R	
2 1/2"	011.6611.PANO.08R	
3"	011.6611.PANO.09R	
4"	011.6611.PANO.10R	

OPTIONAL ITEMS ON REQUEST: LIMIT SWITCHBOXES, POSITIONERS, PILOT SOLENOIDS
FOR HAZARDOUS AREA ITEMS PLEASE CONTACT OUR SALES DEPT

ABS ACTUATED VALVES

ABS

PNEUMATICALLY ACTUATED BALL VALVE - DOUBLE ACTING ACTUATOR

EPDM SEALS- PLAIN ENDS



d	PART NO	PRICE
3/8"	011.6611.PADA.01Q	
1/2"	011.6611.PADA.02Q	
3/4"	011.6611.PADA.03Q	
1"	011.6611.PADA.04Q	
1 1/4"	011.6611.PADA.05Q	
1 1/2"	011.6611.PADA.06Q	
2"	011.6611.PADA.07Q	
2 1/2"	011.6611.PADA.08Q	
3"	011.6611.PADA.09Q	
4"	011.6611.PADA.10Q	

FPM SEALS - PLAIN ENDS



d	PART NO	PRICE
3/8"	011.6611.PADA.01R	
1/2"	011.6611.PADA.02R	
3/4"	011.6611.PADA.03R	
1"	011.6611.PADA.04R	
1 1/4"	011.6611.PADA.05R	
1 1/2"	011.6611.PADA.06R	
2"	011.6611.PADA.07R	
2 1/2"	011.6611.PADA.08R	
3"	011.6611.PADA.09R	
4"	011.6611.PADA.10R	

OPTIONAL ITEMS ON REQUEST: LIMIT SWITCHBOXES, POSITIONERS, PILOT SOLENOIDS
FOR HAZARDOUS AREA ITEMS PLEASE CONTACT OUR SALES DEPT

PNEUMATICALLY ACTUATED DIAPHRAGM VALVE - SPRING RETURN ACTUATOR

EPDM DIAPHRAGM - SPIGOT ENDS - FAIL SAFE CLOSED



d	PART NO	PRICE
1/2"•	011.681.PANC.02Q	
3/4"•	011.681.PANC.03Q	
1"•	011.681.PANC.04Q	
1 1/4"•	011.681.PANC.05Q	
1 1/2"•	011.681.PANC.06Q	
2"•	011.681.PANC.07Q	
2 1/2"	011.681.PANC.08Q	
3"	011.681.PANC.09Q	
4"	011.681.PANC.10Q	

FPM DIAPHRAGM AVAILABLE - PRICES ON APPLICATION

PTFE/EPDM DIAPHRAGM - SPIGOT ENDS - FAIL SAFE CLOSED



d	PART NO	PRICE
1/2"•	011.681.PANC.02S	
3/4"•	011.681.PANC.03S	
1"•	011.681.PANC.04S	
1 1/4"•	011.681.PANC.05S	
1 1/2"•	011.681.PANC.06S	
2"•	011.681.PANC.07S	
2 1/2"	011.681.PANC.08S	
3"	011.681.PANC.09S	
4"	011.681.PANC.10S	

EPDM DIAPHRAGM - SPIGOT ENDS - FAIL SAFE OPEN



d	PART NO	PRICE
1/2"•	011.681.PANO.02Q	
3/4"•	011.681.PANO.03Q	
1"•	011.681.PANO.04Q	
1 1/4"•	011.681.PANO.05Q	
1 1/2"•	011.681.PANO.06Q	
2"•	011.681.PANO.07Q	
2 1/2"	011.681.PANO.08Q	
3"	011.681.PANO.09Q	
4"	011.681.PANO.10Q	

FPM DIAPHRAGM AVAILABLE - PRICES ON APPLICATION

PTFE/EPDM DIAPHRAGM - SPIGOT ENDS - FAIL SAFE OPEN



d	PART NO	PRICE
1/2"•	011.681.PANO.02S	
3/4"•	011.681.PANO.03S	
1"•	011.681.PANO.04S	
1 1/4"•	011.681.PANO.05S	
1 1/2"•	011.681.PANO.06S	
2"•	011.681.PANO.07S	
2 1/2"	011.681.PANO.08S	
3"	011.681.PANO.09S	
4"	011.681.PANO.10S	

PNEUMATICALLY ACTUATED DIAPHRAGM VALVE - DOUBLE ACTING ACTUATOR

EPDM DIAPHRAGM - SPIGOT ENDS



d	PART NO	PRICE
1/2"•	011.681.PADA.02Q	
3/4"•	011.681.PADA.03Q	
1"•	011.681.PADA.04Q	
1 1/4"•	011.681.PADA.05Q	
1 1/2"•	011.681.PADA.06Q	
2"•	011.681.PADA.07Q	
2 1/2"	011.681.PADA.08Q	
3"	011.681.PADA.09Q	
4"	011.681.PADA.10Q	

FPM DIAPHRAGM AVAILABLE - PRICES ON APPLICATION

PTFE/EPDM DIAPHRAGM - SPIGOT ENDS



d	PART NO	PRICE
1/2"•	011.681.PADA.02S	
3/4"•	011.681.PADA.03S	
1"•	011.681.PADA.04S	
1 1/4"•	011.681.PADA.05S	
1 1/2"•	011.681.PADA.06S	
2"•	011.681.PADA.07S	
2 1/2"	011.681.PADA.08S	
3"	011.681.PADA.09S	
4"	011.681.PADA.10S	

NOTE:
THE ABOVE VALVES HAVE THE FOLLOWING DIAPHRAGM SIZES:
1/2" TO 1" VALVES - 3/4" DIAPHRAGM
1 1/4" VALVES - 1" DIAPHRAGM
1 1/2" TO 2" VALVES - 1 1/2" DIAPHRAGM
2 1/2" VALVE - 2" DIAPHRAGM
3" VALVE - 3" DIAPHRAGM
4" VALVE - 4" DIAPHRAGM

ABS INDUSTRIAL BALL VALVE SPARES

ABS

IMPERIAL VALVE END PLAIN



SIZE	PART NO	PRICE
3/8"	VEIPABS001	
1/2"	VEIPABS002	
3/4"	VEIPABS003	
1"	VEIPABS004	
1 1/4"	VEIPABS005	
1 1/2"	VEIPABS006	
2"	VEIPABS007	
2 1/2"	VEIPABS008	
3"	VEIPABS009	
4"	VEIPABS010	

EPDM SEAL KIT



SIZE	PART NO	PRICE
3/8"	BIG/E016	
1/2"	BIG/E020	
3/4"	BIG/E025	
1"	BIG/E032	
1 1/4"	BIG/E040	
1 1/2"	BIG/E050	
2"	BIG/E063	
2 1/2"	BIG/E075	
3"	BIG/E090	
4"	BIG/E110	

VALVE NUT



SIZE	PART NO	PRICE
3/8"-1/2"	VNABS020	
3/4"	VNABS025	
1"	VNABS032	
1 1/4"	VNABS040	
1 1/2"	VNABS050	
2"	VNABS063	
2 1/2"	VNABS075	
3"	VNABS090	
4"	VNABS110	

FPM SEAL KIT



SIZE	PART NO	PRICE
3/8"	BIG/F016	
1/2"	BIG/F020	
3/4"	BIG/F025	
1"	BIG/F032	
1 1/4"	BIG/F040	
1 1/2"	BIG/F050	
2"	BIG/F063	
2 1/2"	BIG/F075	
3"	BIG/F090	
4"	BIG/F110	

VALVE HANDLE



SIZE	PART NO	PRICE
3/8"-1/2"	BDH.020	
3/4"	BDH.025	
1"	BDH.032	
1 1/4"	BDH.040	
1 1/2"	BDH.050	
2"	BDH.063	
2 1/2"	BDH.075	
3"	BDH.090	
4"	BDH.110	

- THE ABOVE SPARES ARE FOR COMER VALVES ONLY

GRIFTON – B-25 ABS CEMENT



SIZE	PART NO	PRICE
500ml*	96.E105080	
500ml=	96.E105081	

* WITH SPECIAL BRUSH
= WITH TT CLOSURE

12mm WIDE PTFE THREAD SEAL TAPE



SIZE	PART NO	PRICE
12m	96.50.0012	

GRIFTON CLEANING FLUID



SIZE	PART NO	PRICE
500ml	96.E200021	
5000ml	96.E200035	

5 METRE ROLL OF EMERY TAPE – 80 GRIT



SIZE	PART NO	PRICE
50mm wide	96.51.08015	

GRIFTON CLEANER CLOTHS



SIZE	PART NO	PRICE
1x100	96.E6307417	

GLUE BRUSHES



SIZE	PART NO	PRICE
4mm	96.49.004R	
8mm	96.49.008R	
1/2"	96.49.015F	
1"	96.49.025F	
1 1/2"	96.49.040F	
2"	96.49.050F	
3"	96.49.075F	

GRIFTON MULTI-FUNCTIONAL WIPES



SIZE	PART NO	PRICE
1x75	96.E6307282	

GRIFTON CABLE SAW



SIZE	PART NO	PRICE
	96.E6307762	

GRIFTON CHAMFERING TOOL *



SIZE	PART NO	PRICE
1/2"-2"	96.E6307771	

*FOR SIZES 3/4" AND 1 1/4" THE NEXT SIZE INSERT NEEDS TO BE USED IE 3/4" - 32MM, 1 1/4" - 50MM

GRIFTON DE-BURRING TOOL



SIZE	PART NO	PRICE
	96.E6307765	

GRIFTON AQUA-MAX POOL SEALANT



SIZE	PART NO	PRICE
425g	96.E6308214	

GRIFTON HAND CLEANER



SIZE	PART NO	PRICE
500ml	96.E6307283	

ABS ACCESSORIES

ABS

INDUSTRIAL PIPE CLIP – BLACK P/P



TYPE B



TYPE C



TYPE D

SIZE	PART NO	PRICE	TYPE	D ₂	D ₃	Z ₁	Z ₂	B	C	D	E	Wt (g)
3/8"	961.41.01		B	10.5	5.5	14	16.5	23.5	10	6	16	6
1/2"	961.41.02		B	10.5	5.5	16.5	19	23.5	10	6	16	8
3/4"	961.41.03		B	10.5	5.5	19	21.5	28.5	10	6	16	10
1"	961.41.04		B	10.5	5.5	24	26.5	32	10	6	16	12
1 1/4"	961.41.05		C	14	6.5	33.5	33.5	36	10	6.5	22	26
1 1/2"	961.41.06		C	14	6.5	37	37	39	10	6.5	22	29
2"	961.41.07		C	17	8.5	44.5	44.5	50	10	10	25	48
2 1/2"	961.41.08		C	17	8.5	52	52	57.5	10	10	25	73
3"	961.41.09		C	17	8.5	64.5	64.5	65	10	10	28	107
4"	961.41.10		C	17	8.5	78	78	82	10	10	28	120
5"	961.41.11		D		11	120.5	97.5	130		20	35	270
6"	961.41.12		D		11	136	111	147		20	35	360
8"	961.41.13		D		13	165	135	177		25	40	560

SIZES 1/4" TO 1" INCLUSIVE ARE NOT SUPPLIED WITH RETAINING STRAPS
SIZES 5" TO 8" INCLUSIVE ARE SUPPLIED COMPLETE WITH STRAP AND BZP STRAP BOLT



TYPE B

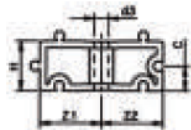


TYPE C



TYPE D

INDUSTRIAL SPACING BLOCK – BLACK P/P



SIZE	PART NO	PRICE	d ₃	Z ₁	Z ₂	H	C	E	Wt (g)			
3/8"	961.42.01		5.5	14	16.5	20	10	16	4.5			
1/2"	961.42.02		5.5	16.5	19	20	10	16	5			
3/4"	961.42.03		5.5	19	21.5	20	10	16	6			
1"	961.42.04		5.5	24	26.5	20	10	16	8			
1 1/4"	961.42.05		6.5	33.5	33.5	20	10	22	16			
1 1/2"	961.42.06		6.5	37	37	20	10	22	17			
2"	961.42.07		8.5	44.5	44.5	20	10	25	24			
2 1/2"	961.42.08		8.5	52	52	20	10	25	28			
3"	961.42.09		8.5	64.5	64.5	20	10	28	42			
4"	961.42.10		8.5	78	78	20	10	28	49			

EPDM O RINGS TO SUIT ABS UNIONS



SIZE	PART NO	PRICE
1/2"	G/UN020	
3/4"	G/UN025	
1"	G/UN032	
1 1/4"	G/UN040	
1 1/2"	G/UN050	
2"	G/UN063	
2 1/2"	G/UN075	
3"	G/UN090	
4"	G/UN0110	

RUBBER LINED PIPE CLIPS



SIZE	PART NO	PRICE
3/8"	962.123.016	
1/2"	962.123.020	
3/4"	962.123.025	
1"	962.123.032	
1 1/4"	962.123.040	
1 1/2"	962.123.050	
2"	962.123.063	
2 1/2"	962.123.075	
3"	962.123.090	
4"	962.123.110	
5"*	962.123.140	
6"*	962.123.160	
8"*	962.123.225	

* 2 SCREW TYPE

EPDM STUB GASKET



SIZE	PART NO	PRICE	D	d	Wt (g)										
1/2"	983.151.02		33	18	2										
3/4"	983.151.03		40	23	3										
1"	983.151.04		48	30	4										
1 1/4"	983.151.05		58	33	6										
1 1/2"	983.151.06		70	44	8										
2"	983.151.07		87	60	11										
2 1/2"	983.151.08		103	77	16										
3"	983.151.09		121	85	21										
4"	983.151.10		147	105	31										
5"	983.151.11A		183	143	37										
6"	983.151.12		210	170	43										
8"	983.151.13A		265	215	80										

STANDARD GASKETS ARE 3.0mm THICK
PRICES ARE ALSO AVAILABLE ON REQUEST FOR OTHER GASKET MATERIALS (IE FPM, PTFE ETC.)

ABS ACCESSORIES

ABS

EPDM FULL FACE GASKET – BS4504 NP10/16



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	983.171.02Z		91	22	65	4	22						
3/4"	983.171.03Z		101	26	75	4	31						
1"	983.171.04Z		116	36	85	4	34						
1 1/4"	983.171.05Z		140	43	100	4	48						
1 1/2"	983.171.06Z		150	50	110	4	51						
2"	983.171.07Z		165	60	125	4	66						
2 1/2"	983.171.08Z		185	77	145	4	80						
3"	983.171.09Z		200	89	160	8	86						
4"	983.171.10Z		220	115	180	8	95						
5"	983.171.11AZ		250	141	210	8	108						
6"	983.171.12Z		286	170	240	8	136						
8" NP10	983.171.13AY		341	221	295	8	177						
8" NP16	983.171.13AZ		341	221	295	12	177						

EPDM FULL FACE GASKET – BS10 TABLES D & E



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	983.171.02W		91	22	67	4	22						
3/4"	983.171.03W		101	26	73	4	31						
1"	983.171.04W		116	36	83	4	34						
1 1/4"	983.171.05W		140	43	88	4	48						
1 1/2"	983.171.06W		150	50	98	4	51						
2"	983.171.07W		165	60	115	4	66						
2 1/2"	983.171.08W		185	77	127	4	80						
3"	983.171.09W		200	89	146	4	86						
4" D	983.171.10V		220	115	178	4	95						
4" E	983.171.10W		220	115	178	8	95						
5"	983.171.11AW		250	141	210	8	108						
6"	983.171.12W		286	170	235	8	136						
8"	983.171.13AW		341	221	292	8	177						

EPDM FULL FACE GASKET - ASA 150



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	983.171.02X		91	22	60	4	22						
3/4"	983.171.03X		101	26	70	4	31						
1"	983.171.04X		116	36	79	4	34						
1 1/4"	983.171.05X		140	43	89	4	48						
1 1/2"	983.171.06X		150	50	98	4	51						
2"	983.171.07X		165	60	121	4	66						
2 1/2"	983.171.08X		185	77	140	4	80						
3"	983.171.09X		200	89	152	4	86						
4"	983.171.10X		220	115	190	8	95						
5"	983.171.11AX		250	141	216	8	108						
6"	983.171.12X		286	170	241	8	136						
8"	983.171.13AX		341	221	298	8	177						

STANDARD GASKETS ARE 3.0mm THICK
OTHER DRILLINGS ARE AVAILABLE TO ORDER
PRICES ARE ALSO AVAILABLE ON REQUEST FOR OTHER GASKET MATERIALS (IE FPM, PTFE ETC.)

GALVANISED MILD STEEL BACKING RING – BS4504 NP10/16



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	991.331.02Z		95	28	65	4	300						
3/4"	991.331.03Z		104	34	75	4	400						
1"	991.331.04Z		111	42	85	4	500						
1 1/4"	991.331.05Z		140	51	100	4	750						
1 1/2"	991.331.06Z		152	62	110	4	900						
2"	991.331.07Z		164	78	125	4	1000						
2 1/2"	991.331.08Z		185	92	145	4	1200						
3"	991.331.09Z		199	110	160	8	1300						
4"	991.331.10Z		218	133	180	8	1400						
5"	991.331.11Z		249	167	210	8	1650						
6"	991.331.12Z		283	196	240	8	2600						
8" NP10	991.331.13Y		339	250	295	8	3000						
8" NP16	991.331.13Z		339	250	295	12	3000						

GALVANISED MILD STEEL BACKING RING – BS10 TABLES D & E



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	991.331.02W		95	28	67	4	300						
3/4"	991.331.03W		104	34	73	4	400						
1"	991.331.04W		111	42	83	4	500						
1 1/4"	991.331.05W		140	51	88	4	750						
1 1/2"	991.331.06W		152	62	98	4	900						
2"	991.331.07W		164	78	115	4	1000						
2 1/2"	991.331.08W		185	92	127	4	1200						
3"	991.331.09W		199	110	146	4	1300						
4" D	991.331.10V		218	133	178	4	1400						
4" E	991.331.10W		218	133	178	8	1400						
5"	991.331.11W		249	167	210	8	1650						
6"	991.331.12W		283	196	235	8	2600						
8"	991.331.13W		339	250	292	8	3000						

GALVANISED MILD STEEL BACKING RING – ASA 150



SIZE	PART NO	PRICE	d3	d1	d2	HOLES	Wt (g)						
1/2"	991.331.02X		95	28	60	4	300						
3/4"	991.331.03X		104	34	70	4	400						
1"	991.331.04X		111	42	79	4	500						
1 1/4"	991.331.05X		140	51	89	4	750						
1 1/2"	991.331.06X		152	62	98	4	900						
2"	991.331.07X		164	78	121	4	1000						
2 1/2"	991.331.08X		185	92	140	4	1200						
3"	991.331.09X		199	110	152	4	1300						
4"	991.331.10X		218	133	190	8	1400						
5"	991.331.11X		249	167	216	8	1650						
6"	991.331.12X		283	196	241	8	2600						
8"	991.331.13X		339	250	298	8	3000						