

# Astore Keymak

a member of the **Hudaco** group

*“Driven by quality; Delivered by experience!”*



# CATALOGUE

# NATIONAL FOOTPRINT



- Branches
- Manufacturing Facilities
- Outlaying Sales



## CONTACT:

### HEAD OFFICE



+27 (0) 86 127 8673 ASTORE  
+27 (0) 11 892-1714



info@astorekeymak.co.za



Building B, 1 Makro Place,  
Sunnyrock, Germiston, 1401





# WHO WE ARE

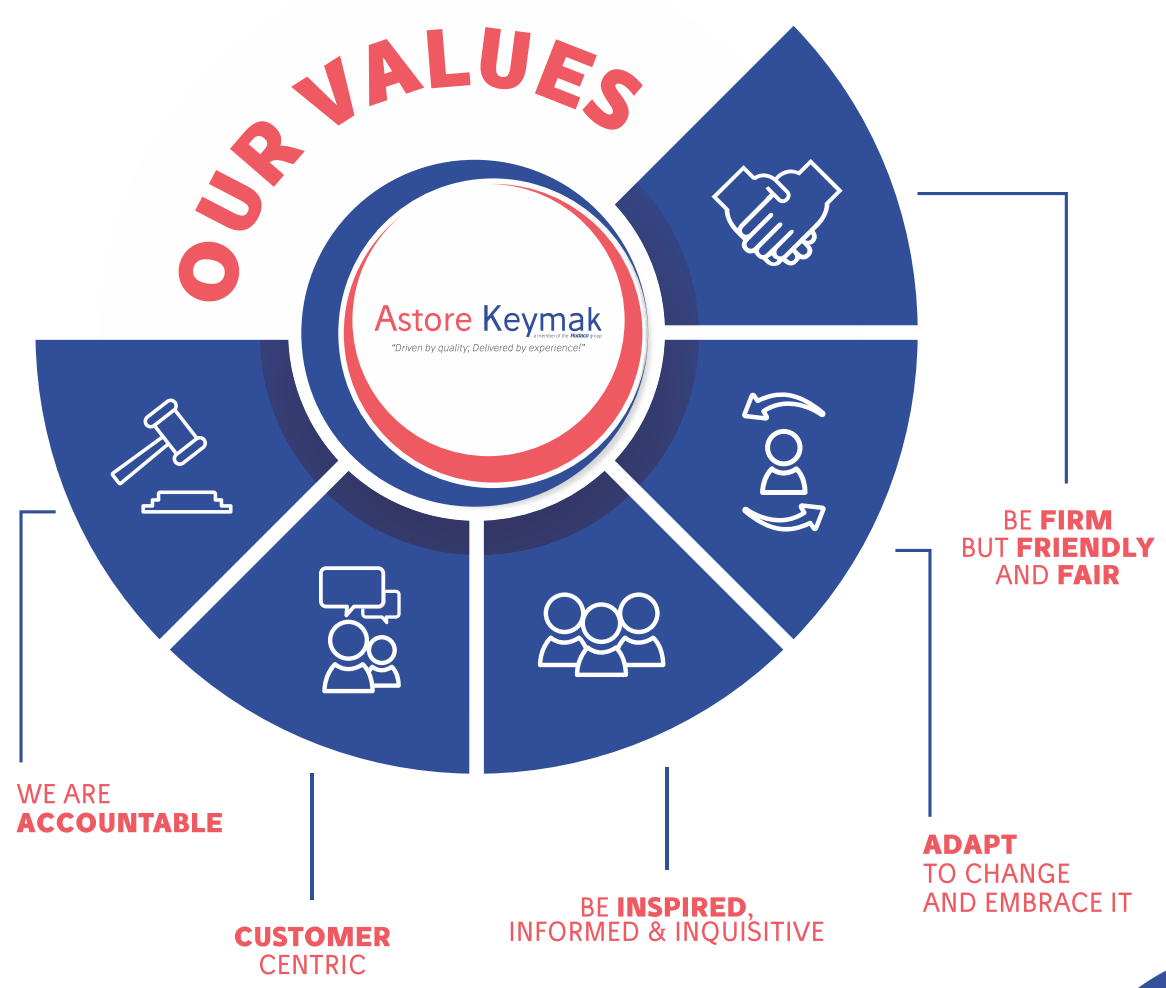
The synergy between Astore Africa and Keymak prompted the executive decision to the rebranding as Astore Keymak. A refreshed and revitalised brand offering a better positioned network and product spectrum to serve our customers as a visionary organisation, Astore Keymak is positioned as a leader in the industry through its ongoing innovation and quality excellence. The evolution of the company’s positioning statement “Driven by Quality; Delivered by Experience!” is a reflection and promise of what customers can expect when partnering with Astore Keymak. Providing a cost-effective innovative thermoplastic solution in the safe handling, conveyance, and storage of fluids and gasses.

“Driven by Quality, Delivered by Experience!” encompassing products, business processes, and people shall remain pivotal in our approach in sustaining our leadership position across our core market segments.

## A SNAPSHOT OF OUR HISTORY



# OUR DNA





# INDEX

<b>PVC PRODUCTS</b>	Solvent Cement Fittings .....	5
	BSP Thread Fittings .....	7
	Adaptor Fitting .....	8
	Fittings & Miscellaneous Products.....	9
	Pipes.....	10
	PVC Hoses.....	11
	Thermoplastic Manual Valves.....	12
	Galvanized Backing Rings.....	16
<b>COMPRESSION PRODUCTS</b>	Unidelta .....	21
	Saddles & Tools .....	28
<b>IRRIGATION PRODUCTS</b>	Unidelta Compression Valves and Turf and Air Release Valves.....	32
	Polypropylene Threaded Irrigation Fittings .....	33
	Insert Fittings .....	34
	Insert Fittings & LDPE Pipes .....	35
<b>AGRU POLYETHYLENE PRODUCTS</b>	Electro Fusion .....	38
	Butt Fusion .....	43
	Socket Fusion .....	45
	Sheets, Concrete Protective Liners, Rods & Bars.....	47
	Pipes.....	48
	Galvanized Backing Rings .....	49
<b>AGRU POLYPROPYLENE PRODUCTS</b>	Butt Fusion .....	53
	Electro Fusion .....	55
	Socket Fusion .....	57
	Sheets, Concrete Protective Liners, Rods & Bars .....	59
	Backing Rings .....	60
	PPH Pressure Pipes .....	61
<b>AGRU PVDF PRODUCTS</b>	Socket Fusion + PTFE Seal Clean Gasket .....	63
	Butt Fusion .....	65
	Pipes & Concrete Protective Liners .....	67
	Sheets, Bars, Welding Rods, Bars & Accessories .....	68
<b>FIP THERMOPLASTIC RANGE</b>	PVC Manual Valves .....	72
	PP Manual Valves .....	80
	PVDF Manual Valves .....	85
	Flow Meters .....	88
<b>ABS</b>	Pipes and Fittings & Accessories .....	92
	Valves .....	93
<b>CPVC</b>	Pipes and Fittings .....	94
	Valves .....	97
<b>THERMOPLASTIC WELDING MACHINES</b>	PT - Trench Butt welding Machines & Accessories .....	102
	PL - Workshop Butt Welding Machines .....	103
	Extrusion Weld Machines & Accessories .....	104
	Socket Fusion Machines and Sheet Weld Machines .....	105
	Sheet Weld Machines .....	106
	Electro Fusion Machines .....	108
<b>TERMS AND CONDITIONS</b>	.....	109

## NOTES

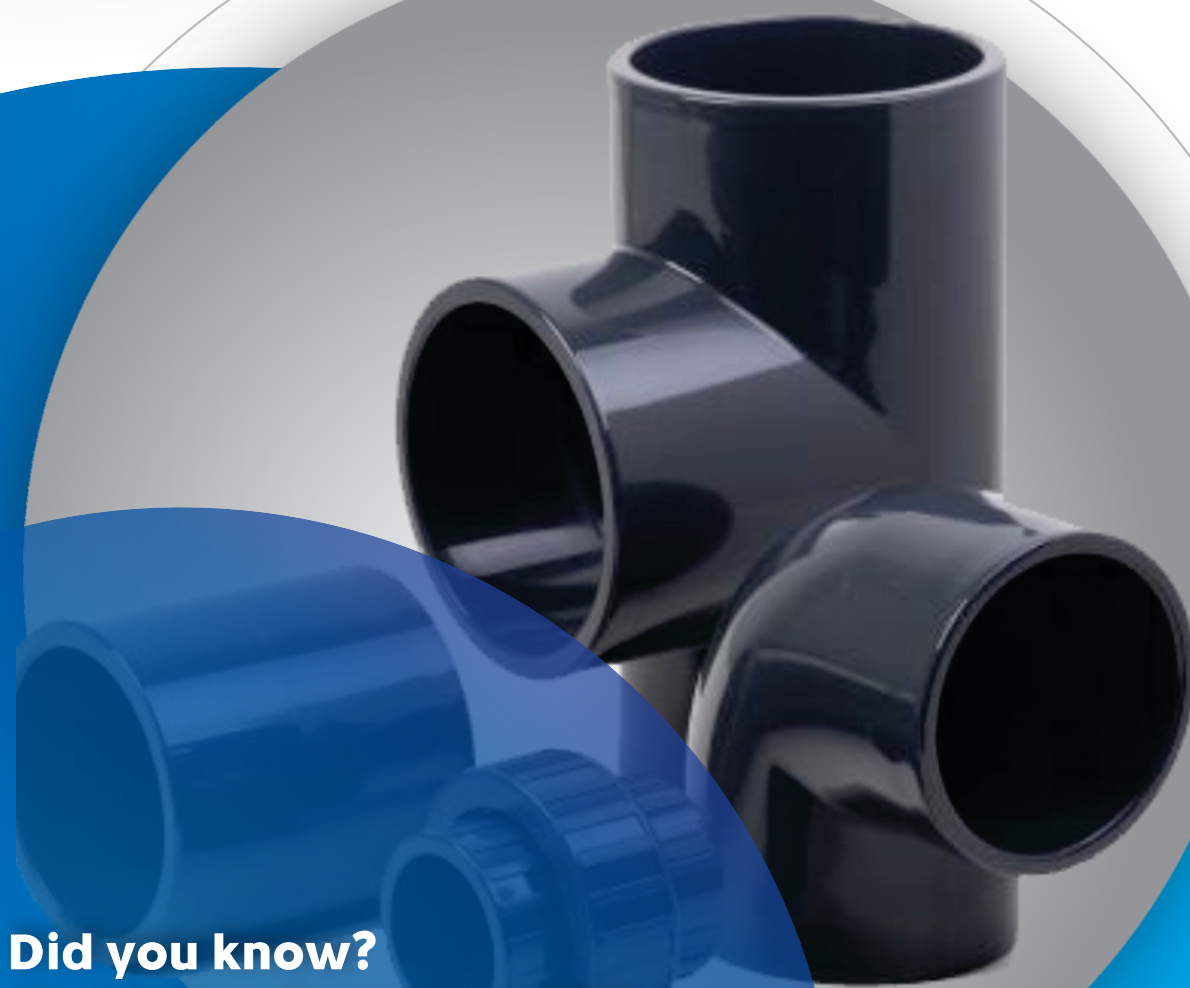


# PVC

## POLYVINYL CHLORIDE



# PVC PRODUCTS



## Did you know?

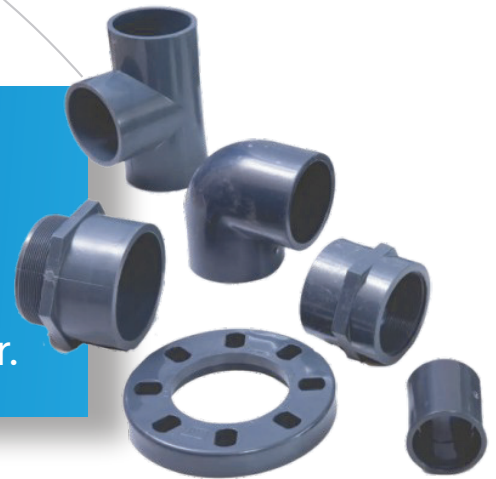
That Astore Keymak and FIP  
signed an exclusive distribution  
agreement in 1993!



# POLYVINYL CHLORIDE

## **PVC (Polyvinyl Chloride)**

Series of fittings designed for conveying fluids under pressure with a cold chemical weld jointing system (solvent welding) using a suitable solvent cement and cleaner-primer.



### **Good chemical resistance:**

PVC-U resins guarantee excellent chemical resistance with regard to most acids and alkalis, aliphatic hydrocarbons and saline solutions. PVC U resins are also totally compatible for the handling of food grade fluids, treated and untreated drinking water, as well as demineralised water according to current national and international standards.

### **Good thermal stability:**

Mostly in the intermediate temperature range between 20°C and 50°C, PVC-U finds its ideal application in industrial and water supplies, assuring optimal performance in terms of mechanical resistance, good rigidity, low coefficients of thermal expansion and optimal safety factors in service.

### **Lifetime:**


A feature of U-PVC resins is its high material strength and extended lifetime  
(Minimum Required Strength MRS = 25.0 Mpa at 20°C)


Full series of fittings for socket solvent cement welding from Ø 16 to Ø 400


Threaded & Solvent weld BSP Adaptor fitting Ø 16 x 3/8" to Ø 110 x 4"


**Pressure Rated  
Pn16 – Pn4**


# SOLVENT CEMENT FITTINGS - PN16


UNION PLAIN BO1	
	
d	CODE PVCF-BO1-
16	PVCFBO10016N
20	PVCFBO10020N
25	PVCFBO10025N
32	PVCFBO10032N
40	PVCFBO10040N
50	PVCFBO10050N
63	PVCFBO10063N
75	PVCFBO10075N
90	PVCFBO10090N
110	PVCFBO10110N


CROSS PLAIN CR1	
	
d	CODE PVCF-CR1-
20	PVCFCR10020
25	PVCFCR10025
32	PVCFCR10032
40	PVCFCR10040
50	PVCFCR10050
63	PVCFCR10063
75	PVCFCR10075
90	PVCFCR10090
110	PVCFCR10110

PVC BACKING RING (DIN 8063) PN 10-16 PLAIN FL1	
	
d	CODE PVCF-FL1-
20	PVCFFL10020
25	PVCFFL10025
32	PVCFFL10032
40	PVCFFL10040
50	PVCFFL10050
63	PVCFFL10063
75	PVCFFL10075
90	PVCFFL10090
110	PVCFFL10110
125	PVCFFL10125
140	PVCFFL10140
160	PVCFFL10160
200	PVCFFL10200
+250	PVCFFL10250
▲ +315	PVCFFL10315
■ 400	PVCFFL10400

45° TEE PLAIN TY1	
	
d	CODE PVCF-TY1-
20	PVCFTY10020
25	PVCFTY10025
32	PVCFTY10032
40	PVCFTY10040
50	PVCFTY10050
63	PVCFTY10063
75	PVCFTY10075
90	PVCFTY10090
110	PVCFTY10110
*125	PVCFTY10125
■ 160	PVCFTY10160

CAP PLAIN CA1	
	
d	CODE PVCF-CA1-
16	PVCFCA10016
20	PVCFCA10020
25	PVCFCA10025
32	PVCFCA10032
40	PVCFCA10040
50	PVCFCA10050
63	PVCFCA10063
75	PVCFCA10075
90	PVCFCA10090
110	PVCFCA10110
125	PVCFCA10125
140	PVCFCA10140
160	PVCFCA10160
200	PVCFCA10200
+250 *	PVCFCA10250
+315 *	PVCFCA10315


BLANK-FLANGE PN 10-16 FC1	
	
d	CODE PVCF-FC1-
20	PVCFFC10020
25	PVCFFC10025
32	PVCFFC10032
40	PVCFFC10040
50	PVCFFC10050
63	PVCFFC10063
75	PVCFFC10075
90	PVCFFC10090
110	PVCFFC10110
125	PVCFFC10125
140	PVCFFC10140
160	PVCFFC10160
200	PVCFFC10200


90° ELBOW PLAIN GO1	
	
d	CODE PVCF-GO1-
16	PVCFGO10016
20	PVCFGO10020
25	PVCFGO10025
32	PVCFGO10032
40	PVCFGO10040
50	PVCFGO10050
63	PVCFGO10063
75	PVCFGO10075
90	PVCFGO10090
110	PVCFGO10110
125	PVCFGO10125
140	PVCFGO10140
160	PVCFGO10160
200	PVCFGO10200
*225	PVCFGO10225
+250	PVCFGO10250
■ +315	PVCFGO10315
■ 355	PVCFGO10355
■ 400	PVCFGO10400


+ PN 10      ■ PN4      ▲ PN8

Fabricated items available on request

\*NON STOCK ITEM BUT AVAILABLE ON REQUEST

ELONGATED 90° BEND PLAIN CU1	
	
d	CODE PVCF-CU1-
20	PVCFCU10020
25	PVCFCU10025
32	PVCFCU10032
40	PVCFCU10040
50	PVCFCU10050
63	PVCFCU10063
75	PVCFCU10075
90	PVCFCU10090
110	PVCFCU10110
125 *	PVCFCU10125
140 *	PVCFCU10140
160	PVCFCU10160
200	PVCFCU10200
+250	PVCFCU10250

FULL FACE SOCKET FLANGE (DIN 8063) PN 10-16 PLAIN FF1	
	
d	CODE PVCF-FF1-
20	PVCFFF10020
25	PVCFFF10025
32	PVCFFF10032
40	PVCFFF10040
50	PVCFFF10050
63	PVCFFF10063
75	PVCFFF10075
90	PVCFFF10090
110	PVCFFF10110
125	PVCFFF10125
140	PVCFFF10140
160	PVCFFF10160
200	PVCFFF10200
225	PVCFFF10225
250	PVCFFF10250

45° ELBOW PLAIN GY1	
	
d	CODE PVCF-GY1-
16	PVCFGY10016
20	PVCFGY10020
25	PVCFGY10025
32	PVCFGY10032
40	PVCFGY10040
50	PVCFGY10050
63	PVCFGY10063
75	PVCFGY10075
90	PVCFGY10090
110	PVCFGY10110
125	PVCFGY10125
140	PVCFGY10140
160	PVCFGY10160
200	PVCFGY10200
+250	PVCFGY10250
+315	PVCFGY10315
■ 400	PVCFGY10400



# SOLVENT CEMENT FITTINGS - PN16

SOCKET PLAIN MA1	
d	CODE PVCF-MA1-
16	PVCFMA10016
20	PVCFMA10020
25	PVCFMA10025
32	PVCFMA10032
40	PVCFMA10040
50	PVCFMA10050
63	PVCFMA10063
75	PVCFMA10075
90	PVCFMA10090
110	PVCFMA10110
125	PVCFMA10125
140	PVCFMA10140
160	PVCFMA10160
200	PVCFMA10200
225	PVCFMA10225
+250	PVCFMA10250
+315	PVCFMA10315
+355 *	PVCFMA10355
*400 •	PVCFMA10400

REDUCING BUSH PLAIN RC1	
d x d	CODE PVCF-RC1-
20 x 16	PVCFRC100200016
25 x 16	PVCFRC100250016
25 x 20	PVCFRC100250020
32 x 16	PVCFRC100320016
32 x 20	PVCFRC100320020
32 x 25	PVCFRC100320025
40 x 20	PVCFRC100400020
40 x 25	PVCFRC100400025
40 x 32	PVCFRC100400032
50 x 20	PVCFRC100500020
50 x 25	PVCFRC100500025
50 x 32	PVCFRC100500032
50 x 40	PVCFRC100500040
63 x 32	PVCFRC100630032
63 x 40	PVCFRC100630040
63 x 50	PVCFRC100630050
75 x 40	PVCFRC100750040
75 x 50	PVCFRC100750050
75 x 63	PVCFRC100750063
90 x 50	PVCFRC100900050
90 x 63	PVCFRC100900063
90 x 75	PVCFRC100900075
110 x 63	PVCFRC101100063
110 x 75	PVCFRC101100075
110 x 90	PVCFRC101100090
125 x 75	PVCFRC101250075
125 x 90	PVCFRC101250090
125 x 110	PVCFRC101250110
140 x 90	PVCFRC101400090
140- x 110	PVCFRC101400110
140 x 125	PVCFRC101400125
160-90	PVCFRC101600090
160 x 110	PVCFRC101600110
160 x 125	PVCFRC101600125
160 x 140	PVCFRC101600140
200 x 160	PVCFRC102000160
+225 x 200	PVCFRC102250200
+250 x 160	PVCFRC102500160
+250 x 200	PVCFRC102500200
+315 x 200	PVCFRC103150200
+315 x 225	PVCFRC103150225
+315 x 250	PVCFRC103150250
*355 x 315	PVCFRC103550315
400 X 315	PVCFRC104000315

SERRATED STUB PLAIN QR1	
d	CODE PVCF-QR1-
20	PVCFQR10020
25	PVCFQR10025
32	PVCFQR10032
40	PVCFQR10040
50	PVCFQR10050
63	PVCFQR10063
75	PVCFQR10075
90	PVCFQR10090
110	PVCFQR10110
125	PVCFQR10125
140	PVCFQR10140
160	PVCFQR10160
200	PVCFQR10200
225	PVCFQR10225
+250	PVCFQR10250
+315	PVCFQR10315
+355	PVCFQR10355
400 •	PVCFQR10400
*450 •	PVCFQR10450
500 •	PVCFQR10500

REDUCING SOCKET PLAIN MR1	
d x d	CODE PVCF-MR1-
20 x 16	PVCFMR100200016
25 x 20	PVCFMR100250020
32 x 25	PVCFMR100320025
40 x 32	PVCFMR100400032
50 x 40	PVCFMR100500040
63 x 50	PVCFMR100630050
75 x 63	PVCFMR100750063
90 x 75	PVCFMR100900075
110 x 90	PVCFMR101100090
125 x 110	PVCFMR101250110
140 x 110	PVCFMR101400110
140 x 125	PVCFMR101400125
160 x 110	PVCFMR101600110
160 x 125	PVCFMR101600125
160 x 140	PVCFMR101600140
200 x 160	PVCFMR102000160
+250 x 160	PVCFMR102500160
+250 x 200	PVCFMR102500200

90° TEE PLAIN TI1	
d	CODE PVCF-TI1-
16	PVCFTI10016
20	PVCFTI10020
25	PVCFTI10025
32	PVCFTI10032
40	PVCFTI10040
50	PVCFTI10050
63	PVCFTI10063
75	PVCFTI10075
90	PVCFTI10090
110	PVCFTI10110
125	PVCFTI10125
140	PVCFTI10140
160	PVCFTI10160
200	PVCFTI10200
*225	PVCFTI10225
+250	PVCFTI10250
+315	PVCFTI10315
355	PVCFTI10355
400	PVCFTI10400


HOSE ADAPTOR PLAIN PO1	
d	CODE PVCF-PO1-
16	PVCFPO10016
20	PVCFPO10020
25	PVCFPO10025
32	PVCFPO10032
40	PVCFPO10040
50	PVCFPO10050
63	PVCFPO10063


90° REDUCING TEE PLAIN TR1	
d x d	CODE PVCF-TR1-
20 x 16	PVCFTR100200016
25 x 16	PVCFTR100250016
25 x 20	PVCFTR100250020
32 x 16	PVCFTR100320016
32 x 20	PVCFTR100320020
32 x 25	PVCFTR100320025
40 x 16	PVCFTR100400016
40 x 20	PVCFTR100400020
40 x 25	PVCFTR100400025
40 x 32	PVCFTR100400032
50 x 20	PVCFTR100500020
50 x 25	PVCFTR100500025
50 x 32	PVCFTR100500032
50 x 40	PVCFTR100500040
63 x 20	PVCFTR100630020
63 x 25	PVCFTR100630025
63 x 32	PVCFTR100630032
63 x 40	PVCFTR100630040
63 x 50	PVCFTR100630050
75 x 32	PVCFTR100750032
75 x 40	PVCFTR100750040
75 x 50	PVCFTR100750050
75 x 63	PVCFTR100750063
90 x 40	PVCFTR100900040
90 x 50	PVCFTR100900050
90 x 63	PVCFTR100900063
90 x 75	PVCFTR100900075
110 x 50	PVCFTR101100050
110 x 63	PVCFTR101100063
110 x 75	PVCFTR101100075
110 x 90	PVCFTR101100090
125 x 63	PVCFTR101250063
125 x 75	PVCFTR101250075
125 x 90	PVCFTR101250090
125 x 110	PVCFTR101250110
140 x 75	PVCFTR101400075
140 x 90	PVCFTR101400090
140- x 110	PVCFTR101400110
140 x 125	PVCFTR101400125
160-90	PVCFTR101600090
160 x 110	PVCFTR101600110
160 x 125	PVCFTR101600125
160 x 140	PVCFTR101600140
200 x 160	PVCFTR102000160
+250 x 110	PVCFTR102500110
+250 x 160	PVCFTR102500160
+250 x 200	PVCFTR102500200
+315 x 160	PVCFTR103150160
+315 x 200	PVCFTR103150200
+315 x 250	PVCFTR103150250


+PN10  
Fabricated items available on request


\* NON STOCK ITEM AVAILABLE ON REQUEST  
PN4


# B.S.P. THREADED FITTINGS - PN16


<b>UNION FEMALE THREAD BO2</b>	
	
BSP	CODE PVCF-BO2-
3/8"	PVCFBO20375
1/2"	PVCFBO20500
3/4"	PVCFBO20750
1"	PVCFBO21000
1.1/4"	PVCFBO21250
1.1/2"	PVCFBO21500
2"	PVCFBO22000
2.1/2"	PVCFBO22500
3"	PVCFBO23000
4"	PVCFBO24000


<b>CAP FEMALE THREAD CA2</b>	
	
BSP	CODE PVCF-CA2-
3/8"	PVCFCA20375
1/2"	PVCFCA20500
3/4"	PVCFCA20750
1"	PVCFCA21000
1.1/4"	PVCFCA21250
1.1/2"	PVCFCA21500
2"	PVCFCA22000
2.1/2"	PVCFCA22500
3"	PVCFCA23000
4"	PVCFCA24000


<b>90° ELBOW FEMALE THREAD GO2</b>	
	
BSP	CODE PVCF-GO2-
3/8"	PVCFGO20375
1/2"	PVCFGO20500
3/4"	PVCFGO20750
1"	PVCFGO21000
1.1/4"	PVCFGO21250
1.1/2"	PVCFGO21500
2"	PVCFGO22000
2.1/2"	PVCFGO22500
3"	PVCFGO23000
4"	PVCFGO24000


<b>SOCKET FEMALE THREAD MA2</b>	
	
BSP	CODE PVCF-MA2-
3/8"	PVCFMA20375
1/2"	PVCFMA20500
3/4"	PVCFMA20750
1"	PVCFMA21000
1.1/4"	PVCFMA21250
1.1/2"	PVCFMA21500
2"	PVCFMA22000
2.1/2"	PVCFMA22500
3"	PVCFMA23000
4"	PVCFMA24000


<b>REDUCER MALE-FEMALE THREAD RI2</b>	
	
BSP	CODE PVCF-RI2-
1/2" x 3/8"	PVCFRI205000375
3/4" x 3/8"	PVCFRI207500375
3/4" x 1/2"	PVCFRI207500500
1" x 3/8"	PVCFRI210000375
1" x 1/2"	PVCFRI210000500
1" x 3/4"	PVCFRI210000750
1.1/4" x 1/2"	PVCFRI212500500
1.1/4" x 3/4"	PVCFRI212500750
1.1/4" x 1"	PVCFRI212501000
*1.1/2" x 1/2"	PVCFRI215000500
1.1/2" x 3/4"	PVCFRI215000750
1.1/2" x 1"	PVCFRI215001000
1.1/2" x 1.1/4"	PVCFRI215001250
2" x 1"	PVCFRI220001000
2" x 1.1/4"	PVCFRI220001250
2" x 1.1/2"	PVCFRI220001500
2.1/2" x 1.1/4"	PVCFRI225001250
2.1/2" x 1.1/2"	PVCFRI225001500
2.1/2" x 2"	PVCFRI225002000
3" x 1.1/2"	PVCFRI230001500
3" x 2"	PVCFRI230002000
3" x 2.1/2"	PVCFRI230002500
4" x 2"	PVCFRI240002000
4" x 2.1/2"	PVCFRI240002500
4" x 3"	PVCFRI240003000


<b>REDUCER FEMALE-MALE THREAD MG2</b>	
	
BSP	CODE PVCF-MG2-
3/8" X 1/2"	PVCFMG203750500
1/2" X 3/4"	PVCFMG205000750
3/4" X 1"	PVCFMG207501000
1.1/4" X 1.1/2"	PVCFMG212501500
1.1/2" X 2"	PVCFMG215002000
2" X 2.1/2"	PVCFMG220002500
2.1/2" X 3"	PVCFMG225003000
3" X 4"	PVCFMG230004000


<b>REDUCING SOCKET FEMALE THREAD MR2</b>	
	
BSP	CODE PVCF-MR2-
1/2" X 3/8"	PVCFMR205000375
3/4" X 1/2"	PVCFMR207500500
1" X 3/4"	PVCFMR210000750
1.1/4" X 1"	PVCFMR212501000
2" X 1.1/2"	PVCFMR220001500
2.1/2" X 2"	PVCFMR225002000
3" X 2.1/2"	PVCFMR230002500
4" X 3"	PVCFMR240003000

<b>90° TEE FEMALE THREAD TI2</b>	
	
BSP	CODE PVCF-TI2-
3/8"	PVCFTI20375
1/2"	PVCFTI20500
3/4"	PVCFTI20750
1"	PVCFTI21000
1.1/4"	PVCFTI21250
1.1/2"	PVCFTI21500
2"	PVCFTI22000
2.1/2"	PVCFTI22500
3"	PVCFTI23000
4"	PVCFTI24000


<b>NIPPLE MALE THREAD NI2</b>	
	
BSP	CODE PVCF-NI2-
3/8"	PVCFNI20375
1/2"	PVCFNI20500
3/4"	PVCFNI20750
1"	PVCFNI21000
1.1/4"	PVCFNI21250
1.1/2"	PVCFNI21500
2"	PVCFNI22000
2.1/2"	PVCFNI22500
3"	PVCFNI23000
4"	PVCFNI24000


<b>ADAPTOR REDUCING BUSH RC2</b>	
	
d X BSP	CODE PVCF-RC2-
20 X 3/8"	PVCFRC200200375
25 X 3/8"	PVCFRC200250375
25 X 1/2"	PVCFRC200250500
32 X 3/4"	PVCFRC200320750
40 X 1"	PVCFRC200401000
50 X 1.1/4"	PVCFRC200501250
63 X 1.1/2"	PVCFRC200631500
75 X 2"	PVCFRC200752000
90 X 2.1/2"	PVCFRC200902500
11 X 3"	PVCFRC201103000


<b>PLUG MALE THREAD TA2</b>	
	
BSP	CODE PVCF-TA2-
3/8"	PVCFTA20375
1/2"	PVCFTA20500
3/4"	PVCFTA20750
1"	PVCFTA21000
1.1/4"	PVCFTA21250
1.1/2"	PVCFTA21500
2"	PVCFTA22000
2.1/2"	PVCFTA22500
3"	PVCFTA23000
4"	PVCFTA24000


<b>HOSE ADAPTOR MALE THREAD PO2</b>	
	
d X BSP	CODE PVCF-PO2-
12 X 1/4"	PVCFPO200120250
16 X 3/8"	PVCFPO200160375
20 X 1/2"	PVCFPO200200500
25 X 3/4"	PVCFPO200250750
32 X 1"	PVCFPO200321000
40 X 1.1/4"	PVCFPO200401250
50 X 1.1/2"	PVCFPO200501500
63 X 2"	PVCFPO200632000


# ADAPTOR FITTINGS -PN16


ADAPTOR WITH FEMALE THREAD AF3	
	
d x BSP	CODE PVCF-AF3-
16 x 1/4"	PVCFAF300160375
20 x 1/2"	PVCFAF300200500
20 x 3/4"	PVCFAF300200750
25 x 1/2"	PVCFAF300250500
25 x 3/4"	PVCFAF300250750
25 x 1"	PVCFAF300251000
32 x 3/4"	PVCFAF300320750
32 x 1"	PVCFAF300321000
40 x 1"	PVCFAF300401000
40 x 1 1/4"	PVCFAF300401250
50 x 1 1/4"	PVCFAF300501250
50 x 1 1/2"	PVCFAF300501500
50 x 2"	PVCFAF300502000
63 x 1 1/2"	PVCFAF300631500
63 x 2"	PVCFAF300632000
75 x 2"	PVCFAF300752000
75 x 2 1/2"	PVCFAF300752500
75 x 3"	PVCFAF300753000
90 x 2 1/2"	PVCFAF300902500
90 x 3"	PVCFAF300903000
90 x 4"	PVCFAF300904000
110 x 3"	PVCFAF301103000
110 x 4"	PVCFAF301104000


UNION PLAIN/ FEMALE BO3	
	
d x BSP	CODE PVCF-BO3-
16 X 1/4"	PVCFBO300160375
20 X 1/2"	PVCFBO300200500
25 X 1/4"	PVCFBO300250750
32 X 1"	PVCFBO300321000
40 X 1 1/4"	PVCFBO300401250
50 X 1 1/2"	PVCFBO300501500
63 x 2"	PVCFBO300632000
75 x 2 1/2"	PVCFBO300752500
90 x 3"	PVCFBO300903000
110 x 4"	PVCFBO301104000


UNION WITH MALE THREAD ONE SIDE OTHER SIDE PLAIN BM3	
	
d x BSP	CODE PVCF-BM3-
50 x 1.1/2"	PVCFBM300501500
50 x 2"	PVCFBM300502000
63 x 2"	PVCFBM300632000


FFF Full Face PN 10-16 Threaded BSP FFF	
	
d x BSP	CODE PVCF-FFF-
1/2"	PVCFFFF0500
3/4"	PVCFFFF0750
1"	PVCFFFF1000
1.1/4"	PVCFFFF1250
1.1/2"	PVCFFFF1500
2"	PVCFFFF2000
2.1/2"	PVCFFFF2500
3"	PVCFFFF3000
4"	PVCFFFF4000

ADAPTOR WITH MALE THREAD AM3	
	
d x d x BSP	CODE PVCF-AM3-
12 x16 x 1/4"	PVCFAM3001200160375
16 x 20 x 1/4"	PVCFAM3001600200375
16 x 20 x 1/2"	PVCFAM3001600200500
20 x 25 x 1/4"	PVCFAM3002000250375
20 x 25 x 1/2"	PVCFAM3002000250500
20 x 25 x 3/4"	PVCFAM3002000250750
25 x 32 x 1/2"	PVCFAM3002500320500
25 x 320 x 3/4"	PVCFAM3002500320750
25 x 32 x 1"	PVCFAM3002500321000
32 x 40 x 3/4"	PVCFAM3003200400750
32 x 40 x 1"	PVCFAM3003200401000
32 x 40 x 1 1/4"	PVCFAM3003200401250
40 x 50 x 1"	PVCFAM3004000501000
40 x 50 x 1 1/4"	PVCFAM3004000501250
40 x 50 x 1 1/2"	PVCFAM3004000501500
50 x 63 x 1 1/4"	PVCFAM3005000631250
50 x 63 x 1 1/2"	PVCFAM3005000631500
50 x 63 x 2"	PVCFAM3005000632000
63 x 75 x 1 1/2"	PVCFAM3006300751500
63 x 75 x 2"	PVCFAM3006300752000
63 x 75 x 2 1/2"	PVCFAM3006300752500
75 x 90 x 2"	PVCFAM3007500902000
75 x 90 x 2 1/2"	PVCFAM3007500902500
75 x 90 x 3"	PVCFAM3007500903000
90 x 110 x 2 1/2"	PVCFAM3009001102500
90 x 110 x 3"	PVCFAM3009001103000
90 x 110 x 4"	PVCFAM3009001104000
110 x 125 x 3"	PVCFAM301101253000
11 x 125 x 4"	PVCFAM301101254000
110 x 125 x 5"	PVCFAM301101255000

90° PLAIN TEE WITH FEMALE THREADED OFF-TAKE T13	
	
d x BSP	CODE PVCF-T13-
16 x 3/8"	PVCF1300160375
20 x 1/2"	PVCF1300200500
25 x 3/4"	PVCF1300250750
32 x 1"	PVCF1300321000
40 x 1.1/4"	PVCF1300401250
50 x 1.1/2"	PVCF1300501500
63 x 2"	PVCF1300632000
75 x 2.1/2"	PVCF1300752500
90 x 3"	PVCF1300903000
*110 x 3"	PVCF1301103000
*110 x 4"	PVCF1301104000


90° ELBOW PLAIN/ FEMALE GO3	
	
d x BSP	CODE PVCF-GO3-
16 x 1/4"	PVCFGO300160375
20 x 1/2"	PVCFGO300200500
25 x 1/4"	PVCFGO300250750
32 x 1"	PVCFGO300321000
40 x 1 1/4"	PVCFGO300401250
50 x 1 1/2"	PVCFGO300501500
63 x 2"	PVCFGO300632000
75 x 2 1/2"	PVCFGO300752500
90 x 3"	PVCFGO300903000
110 x 4"	PVCFGO301104000


SOCKET PLAIN/FEMALE MA3	
	
d x BSP	CODE PVCF-MA3-
16 X 1/4"	PVCFMA300160375
20 X 1/2"	PVCFMA300200500
25 X 1/4"	PVCFMA300250750
32 X 1"	PVCFMA300321000
40 X 1 1/4"	PVCFMA300401250
50 X 1 1/2"	PVCFMA300501500
63 x 2"	PVCFMA300632000
75 x 2 1/2"	PVCFMA300752500
90 x 3"	PVCFMA300903000
110 x 4"	PVCFMA301104000


REDUCING NIPPLE MALE THREAD NR2	
	
BSP	CODE PVCF-NR2-
1/2" x 3/4"	PVCFNR205000375
3/4" x 1/2"	PVCFNR207500500
1" x 3/4"	PVCFNR210000750
1.1/4" x 1"	PVCFNR212501000
1.1/2" x 1.1/4"	PVCFNR215001250
2" x 1.1/2"	PVCFNR220001500
2.1/2" x 2"	PVCFNR225002000
3" x 2.1/2"	PVCFNR230002500
4" x 3"	PVCFNR240003000


\* NON STOCK ITEM BUT AVAILABLE ON REQUEST


# ADAPTOR FITTINGS - PN16

BACK NUTS (Hexagon Nuts) FEMALE NU4		
BSP	CODE	
	PVCF-NU4-	
1/2"	PVCFNU40500	
3/4"	PVCFNU40750	
1"	PVCFNU41000	
1.1/4"	PVCFNU41250	
1.1/2"	PVCFNU41500	
2"	PVCFNU42000	
2.1/2"	PVCFNU42500	
3"	PVCFNU43000	
4"	PVCFNU44000	


PP Tank Connector CW lock nut seals and CAP PPHF		
BSP x Thread Length	CODE	
	PPHF-CON-	
1/2" x 40 mm	PPHFCON0500B	
3/4" x 40 mm	PPHFCON0750B	
1" x 45 mm	PPHFCON1000B	
1.1/4" x 35mm	PPHFCON1250B	
1.1/2" x 40mm	PPHFCON1500B	
2" x 60 mm	PPHFCON2000B	



PVC TANK CONNECTOR/ VDL PVC-CON-		
BSP	CODE PVC-CON-	
3"	PVCFCON007500903000	
4"	PVCFCON009001104000	
4"	PVCFCON011001254000	
5"	PVCFCON012501105000	


PVC CONVERSION SOCKET Metric / Imperial Solvent Weld MIL		
d x imperial	CODE PVCF-MIL	
20 x 1/2"	PVCFMIL00200500	
25 x 3/4"	PVCFMIL00250750	
32 x 1"	PVCFMIL00321000	
40 x 1.1/4"	PVCFMIL00401250	
50 x 1.1/2"	PVCFMIL00501500	
63 x 2"	PVCFMIL00632000	
90 x 3"	PVCFMIL00903000	
110 x 4"	PVCFMIL01104000	


Reducing bush M/F Threaded RCF		
BSP	CODE PVCF-RCF-	
1/2" x 1/4"	PVCFRCF05000250	
3/4" x 1/2"	PVCFRCF07500500	
1" x 3/4"	PVCFRCF10000750	
1.1/4" x 1"	PVCFRCF12501000	
1.1/2" x 1.1/4"	PVCFRCF15001250	
2" x 1.1/2"	PVCFRCF20001500	
2.1/2" x 2"	PVCFRCF25002000	
3" x 2.1/2"	PVCFRCF30002500	
4" x 3"	PVCFRCF40003000	

# MISCELLANEOUS PRODUCTS

EZ-WELD		
CEMEEZ0118B	EZ-WELD PVC MEDIUM BODY BLUE 118ML	
CEMEEZ0118H	EZ-WELD PVC HEAVY BODY CLEAR 118ML	
CEMEEZ0237A	EZ-WELD ALL PRESSURE PVC CLEAR 237ML	
CEMEEZ0237B	EZ-WELD PVC MEDIUM BODY BLUE 237ML	
CEMEEZ0237H	EZ-WELD PVC HEAVY BODY CLEAR 237ML	
CEMEEZ0473A	EZ-WELD ALL PRESSURE PVC CLEAR 473ML	
CEMEEZ0473B	EZ-WELD PVC MEDIUM BODY BLUE 473ML	
CEMEEZ0473C	EZ-WELD CLEAR PIPE CLEANER 473ML	
CEMEEZ0473H	EZ-WELD PVC HEAVY BODY CLEAR 473ML	

GASKETS GASK-QR1-GASK-FF1			
STUB FLANGE GASKET  GASK-QR1-GASK-FF1      FULL FACE FLANGE GASKET  GASK-FF1	DIA	CODE GASK-QR1	CODE GASK-FF1
	20	GASKQR10020	GASKFF10020
	25	GASKQR10025	GASKFF10025
	32	GASKQR10032	GASKFF10032
	40	GASKQR10040	GASKFF10040
	50	GASKQR10050	GASKFF10050
	63	GASKQR10063	GASKFF10063
	75	GASKQR10075	GASKFF10075
	90	GASKQR10090	GASKFF10090
	110	GASKQR10110	GASKFF10110
	125	GASKQR10125	GASKFF10125
	140	GASKQR10140	GASKFF10140
	160	GASKQR10160	GASKFF10160
	200	GASKQR10200	GASKFF10200
	250	GASKQR10250	
	315	GASKQR10315	

PIPE SUPPORT CLIPS WITH/WITHOUT RETAINING BRACKET PSC Black (Polyethylene) PSM Grey (PP)			
D	CODE F-PSC-OPEN	CODE PVCF-PSC-CLOSED	
0016	PVCFPSC0016		
0020	PVCFPSC0020		
0025	PVCFPSC0025		
0032	PVCFPSC0032		
0040		PVCFPSC0040C	
0050		PVCFPSC0050C	
0063		PVCFPSC0063C	
0075		PVCFPSC0075C	
0090		PVCFPSC0090C	
0110		PVCFPSC0110C	
0125		PVCFPSC0125C	
0140		PVCFPSC0140C	
0160		PVCFPSC0160C	
0200		PVCFPSC0200C	

PTFE TAPE		
d	CODE	
PVC PTFE TAPE	PVCFPTFE	
HEAVY DUTY PTFE TAPE	PVCFPTFEH	
HEAVY DUTY PTFE TAPE 19MMx30M	PVCFPTFEHW	



# PVC PRESSURE PIPES

uPVC PRESSURE PIPE						
<div><div>SABS</div><div>SABS 966/98 PART 1</div></div>						
PRICE PER METER						
OUTSIDE DIAMETER	CLASS 4	CLASS 6	CLASS 9	CLASS 12	CLASS 16	CLASS 20
16					P.O.A	
20					P.O.A	
25				P.O.A	P.O.A	
32			P.O.A	P.O.A	P.O.A	
40		P.O.A	P.O.A	P.O.A	P.O.A	
50	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
63	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
75	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
90	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
110	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
125	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
140	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
160	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
200	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
250	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
315	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
355	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	
400	P.O.A	P.O.A	P.O.A	P.O.A		
450		P.O.A	P.O.A			
500		P.O.A	P.O.A			

16 mm to 40 mm plain ended  
All other sizes with integral rubber ring joint.

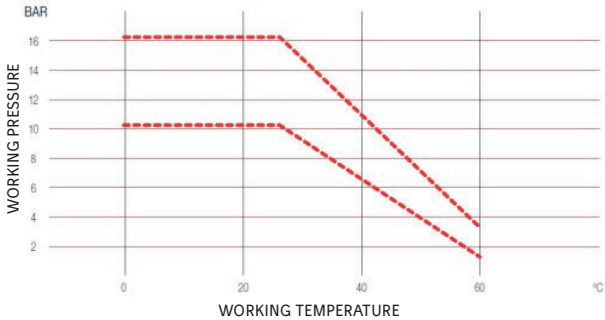
mPVC PRESSURE PIPE						
Pressure pipe with integral rubber ring joint						
<div><div>SABS</div><div>SABS 966/98 PART 2</div></div>						
PRICE PER METER						
OUTSIDE DIAMETER	CLASS 6	CLASS 9	CLASS 12	CLASS 16	CLASS 20	CLASS 25
50	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
63	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
75	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
90	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
110	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
125	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
140	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
160	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
200	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
250	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
315	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
355	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
400	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
450	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A
500	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A	P.O.A

\*PVC RIGID CLEAR PIPE AVAILABLE ON REQUEST



Please enquire on pricing with your nearest branch for all your uPVC, mPVC and PVC Clear Rigid Pipe requirements.

> PVC TECHNICAL CHARACTERISTICS



# PVC HOSE

## MINING HOSE SANS 1086: 2007

### RECOMMENDED APPLICATIONS:

Mining and industrial application and intended for the conveyance of air and water

### RECOMMENDED TEMPERATURE RANGE:

10 To 40°C

### LENGTH:

Standard coil length 30m

### COLOURS:

Available in ORANGE (KMM3),  
BLUE (KMM2) and GREEN (KMM1)



Nominal Size ID mm	Working Pressure Kpa	Burst Pressure Kpa
10,0	1700	6800
12,5	1700	6800
20,0	1500	6000
25,0	1400	5600
32,0	1000	4000
40,0	880	3500
50,0	880	3500

## DRAGLINE HOSE

### DESCRIPTION:

Black cover with ribbed surface finish, for conveyance of water

### RECOMMENDED TEMPERATURE RANGE:

10 to 40°C

### LENGTH:

Standard lengths 30m, 36m ,50m,100m. Other coil lengths available on request.

Personalised embossing available on request (minimum quantity requirements)



Nominal Size ID mm	Burst Pressure Kpa laboratory Tested
25 (5 Year)	3500

## FIRE REEL HOSE SANS 1086:2007

### DESCRIPTION:

Red cover with ribbed surface finish, specially designed for the fire fighting industry.

### LENGTH:

Standard coil length 30m

Other coil lengths available on request.



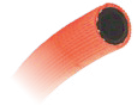
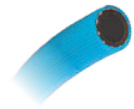
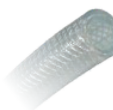
Nominal Size ID mm	Working Pressure Kpa	Burst Pressure Kpa
12,5	1700	6800
20	1500	6000

Dragline Hose	
d	CODE
12mm x 30m	IRRIDRAG00120030
20mm x 30m	IRRIDRAG00200030
20mm x 30m 10 year	IRRIDRAG0020003010Y
25mm x 30m 10 year	IRRIDRAG0025003010Y

Garden Hose	
d	CODE
12mm x 20m	IRRIGARDENHOSE1220P
12mm x 20m with Kit	IRRIGARDENHOSE1220WK
12mm x 30m	IRRIGARDENHOSE1230P
12mm x 30m with Kit	IRRIGARDENHOSE1230WK
20mm x 20m	IRRIGARDENHOSE2020P
20mm x 20m with Kit	IRRIGARDENHOSE2020WK
20mm x 30m	IRRIGARDENHOSE2030P
20mm x 30m with Kit	IRRIGARDENHOSE2030WK

Clear Reinforced Hose	
d	CODE
6mm x 30m	IRRI170090006
8mm x 30m	IRRI170090018
10mm x 30m	IRRI170090010
12mm x 30m	IRRI170090012
16mm x 30m	IRRI170090016
20mm x 30m	IRRI170090020
25mm x 30m	IRRI170090017

Mining Hose	
d	CODE
10 mm x 30m Green	PVCPMININGHOSE0010G
12 mm x 30m Green	PVCPMININGHOSE0012G
20 mm x 30m Green	PVCPMININGHOSE0020G
25 mm x 30m Green	PVCPMININGHOSE0025G
32 mm x 30m Green	PVCPMININGHOSE0032G
50 mm x 30m Green	PVCPMININGHOSE0050G
10 mm x 30m Blue	PVCPMININGHOSE0010B
12 mm x 30m Blue	PVCPMININGHOSE0012B
20 mm x 30m Blue	PVCPMININGHOSE0020B
25 mm x 30m Blue	PVCPMININGHOSE0025BU
32 mm x 30m Blue	PVCPMININGHOSE0032B
50 mm x 30m Blue	PVCPMININGHOSE0050B
10 mm x 30m Orange	PVCPMININGHOSE0010O
12 mm x 30m Orange	PVCPMININGHOSE0012O
20 mm x 30m Orange	PVCPMININGHOSE0020O
25 mm x 30m Orange	PVCPMININGHOSE0025OO
32 mm x 30m Orange	PVCPMININGHOSE0032O
50 mm x 30m Orange	PVCPMININGHOSE0050OO



For technical information please contact  
Astore Keymak for details

# THERMO PLASTIC BALL VALVES



## BALL VALVES FOR WATER AND LIGHT CHEMICALS

### VALO-V301/V302 TP

#### SINGLE UNION BALL VAVE

For solvent welding / BSP Threaded sockets with safeblock-Blue Handle



d	CODE	BSP	CODE
20	VALOV3010020A	½"	VALOV3020500A
25	VALOV3010025A	¾"	VALOV3020750A
32	VALOV3010032A	1"	VALOV3021000A
40	VALOV3010040A	1¼"	VALOV3021250A
50	VALOV3010050A	1½"	VALOV3021500A
63	VALOV3010063A	2"	VALOV3022000A

## BALL VALVES FOR WATER

### VALO-V301 / V302 TPG

#### SINGLE UNION BALL VALVE

For solvent welding / BSP Threaded sockets Non safeblock-Grey Handle



d	CODE	BSP	CODE
20	VALOV3010020AG	½"	VALOV3020500AG
25	VALOV3010025AG	¾"	VALOV3020750AG
32	VALOV3010032AG	1"	VALOV3021000AG
40	VALOV3010040AG	1¼"	VALOV3021250AG
50	VALOV3010050AG	1½"	VALOV3021500AG
63	VALOV3010063AG	2"	VALOV3022000AG

## BALL VALVES FOR WATER AND LIGHT CHEMICALS

### VALVO-V321 / V322 TP

#### DOUBLE UNION BALL VALVE

For solvent welding / BSP Threaded sockets with safeblock - Blue Handle



d	CODE	G	CODE
16	VALOV3210016A	¾"	VALOV3220375A
20	VALOV3210020A	½"	VALOV3220500A
25	VALOV3210025A	¾"	VALOV3220750A
32	VALOV3210032A	1"	VALOV3221000A
40	VALOV3210040A	1¼"	VALOV3221250A
50	VALOV3210050A	1½"	VALOV3221500A
63	VALOV3210063A	2"	VALOV3222000A
+75	VALOV3210075A	2½"	VALOV3222500A
+90	VALOV3210090A	3"	VALOV3223000A
+110	VALOV3210110A	4"	VALOV3224000A

## BALL VALVES FOR WATER

### VALO-V321 / V322 TPG

#### DOUBLE UNION BALL VALVE

For solvent welding / BSP Threaded sockets Non Safeblock-Grey Handle



d	CODE	BSP	CODE
20	VALOV3210020AG	½"	VALOV3220500AG
25	VALOV3210025AG	¾"	VALOV3220750AG
32	VALOV3210032AG	1"	VALOV3221000AG
40	VALOV3210040AG	1¼"	VALOV3221250AG
50	VALOV3210050AG	1½"	VALOV3221500AG
63	VALOV3210063AG	2"	VALOV3222000AG

+PN10

# PVC CHECK AND BUTTERFLY VALVES

## PVC-U SPRING CHECK VALVES

### VALO-VRS311/ VRS312

#### DOUBLE UNION

With stainless steel spring  
EPDM O'Rings



SIZE		CODE	SIZE	CODE
d	DN		BSP	
16	10	VALOVRS3110016A	¾"	VALOVRS3120375A
20	15	VALOVRS3110020A	½"	VALOVRS3120500A
25	20	VALOVRS3110025A	¾"	VALOVRS3120750A
32	25	VALOVRS3110032A	1"	VALOVRS3121000A
40	32	VALOVRS3110040A	1¼"	VALOVRS3121250A
50	40	VALOVRS3110050A	1½"	VALOVRS3121500A
63	50	VALOVRS3110063A	2"	VALOVRS3122000A
75	65	VALOVRS3110075A	2½"	VALOVRS3122500A
90	80	VALOVRS3110090A	3"	VALOVRS3123000A

## PVC WAFER TYPE BUTTERFLY VALVE

### VALO-V310-

#### PVC WAFER TYPE

#### BUTTERFLY VALVE

EPDM seat and O'Rings



SIZE		CODE
d	DN	
63	50	VALOV3100063A
75	65	VALOV3100075A
90	80	VALOV3100090A
110	100	VALOV3100110A
125	125	VALOV3100125A
140	125	VALOV3100140A
160	150	VALOV3100160A
200	200	VALOV3100200A
225	225	VALOV3100250A

# PVC CHECK AND FOOT VALVES



PVC-UH CHECK VALVES  
VALO-VRR311 ETP/ VRR312 ETP  
DOUBLE UNION CHECK VALVE  
EPDM RUBBER SPRING  
For solvent welding / BSP Threaded sockets



d	CODE	BSP	CODE
16	VALOVRR3110016ETP	3/4"	VALOVRR3120375ETP
20	VALOVRR3110020ETP	1/2"	VALOVRR3120500ETP
25	VALOVRR3110025ETP	3/4"	VALOVRR3120750ETP
32	VALOVRR3110032ETP	1"	VALOVRR3121000ETP
40	VALOVRR3110040ETP	1 1/4"	VALOVRR3121250ETP
50	VALOVRR3110050ETP	1 1/2"	VALOVRR3121500ETP
63	VALOVRR3110063ETP	2"	VALOVRR3122000ETP
75	VALOVRR3110075ETP	2 1/2"	VALOVRR3122500ETP
90	VALOVRR3110090ETP	3"	VALOVRR3123000ETP

+Pn10

VALO-VRS311/ VRS312  
DOUBLE UNION  
With stainless steel spring  
EPDM O'Ring



SIZE		Code	size	Code
d	DN		BSP	
16	10	VALOVRS3110016	3/4"	VALOVRS3120375
20	15	VALOVRS3110020	1/2"	VALOVRS3120500
25	20	VALOVRS3110025	3/4"	VALOVRS3120750
32	25	VALOVRS3110032	1"	VALOVRS3121000
40	32	VALOVRS3110040	1 1/4"	VALOVRS3121250
50	40	VALOVRS3110050	1 1/2"	VALOVRS3121500
63	50	VALOVRS3110063	2"	VALOVRS3122500
75	65	VALOVRS3110075	2 1/2"	VALOVRS3123000
90	80	VALOVRS3110090	3"	VALOVRS3123000

VALO-VRF301 / VRF302  
SINGLE UNION FOOT VALVE  
With stainless steel spring  
EPDM O'Ring



SIZE		Code	Size	Code
d	DN		BSP	
16	10	VALOVRF3010016	3/4"	VALOVRF3020375
20	15	VALOVRF3010020	1/2"	VALOVRF3020500
25	20	VALOVRF3010025	3/4"	VALOVRF3020750
32	25	VALOVRF3010032	1"	VALOVRF3021000
40	32	VALOVRF3010040	1 1/4"	VALOVRF3021250
50	40	VALOVRF3010050	1 1/2"	VALOVRF3021500
63	50	VALOVRF3010063	2"	VALOVRF3022000
75	65	VALOVRF3010075	2 1/2"	VALOVRF3022500
90	80	VALOVRF3010090	3"	VALOVRF3023000

CHECK VALVES- WATER TYPE  
VALO-VRW 311-  
"FLAP" CHECK VALVE  
Wafer type to fit between flanges with steel  
support for easy mounting  
Also available with Viton O'Ring



SIZE		EPDM O'Ring	
d	DN	Loose Flap Code	With Springs Code
40	32	VALOVRW3110040	VALOVRW3110040
50	40	VALOVRW3110050	VALOVRW3110050
63	50	VALOVRW3110063	VALOVRW3110063
75	65	VALOVRW3110075	VALOVRW3110075
90	80	VALOVRW3110090	VALOVRW3110090
110	100	VALOVRW3110110	VALOVRW3110110
125	110	VALOVRW3110125	VALOVRW3110125
140	125	VALOVRW3110140	VALOVRW3110140
160	150	VALOVRW3110160	VALOVRW3110160
200	175	VALOVRW3110200	VALOVRW3110200
225	200	VALOVRW3110225	VALOVRW3110225
280	250	VALOVRW3110280	VALOVRW3110280
315	300	VALOVRW3110315	VALOVRW3110315

CHECK VALVES - BALL TYPE  
VALO-VR311 / VR312  
CHECK VALVE WITH BALL-NO SPRING  
For solvent welding / BSP Threaded sockets



d	DN	Code	Code
20	15	VALOVR3110020	VALOVR3120375
25	20	VALOVR3110025	VALOVR3120500
32	25	VALOVR3110032	VALOVR3120750
40	32	VALOVR3110040	VALOVR3121000
50	40	VALOVR3110050	VALOVR3121250
63	50	VALOVR3110063	VALOVR3121500
75	65	VALOVR3110075	VALOVR3122000
90	80	VALOVR3110090	VALOVR3123000
110	150	VALOVR3110110	VALOVR3124000

CHECK VALVE VALO-  
VRS301 / VRS302 SINGLE  
UNION  
With stainless steel spring  
EPDM O' Rings



Size		Code	Size	Code
d	DN		BSP	
16	10	VALOVRS3010016	3/8"	VALOVRS3020375
20	15	VALOVRS3010020	1/2"	VALOVRS3020500
25	20	VALOVRS3010025	3/4"	VALOVRS3020750
32	25	VALOVRS3010032	1"	VALOVRS3021000
40	32	VALOVRS3010040	1.1/4"	VALOVRS3021250
50	40	VALOVRS3010050	1.1/2"	VALOVRS3021500
63	50	VALOVRS3010063	2"	VALOVRS3022000
75	65	VALOVRS3010075	2.1/2"	VALOVRS3022500
90	80	VALOVRS3010090	3"	VALOVRS3023000

# THERMO PLASTIC BALL VALVES

## BALL VALVES FOR WATER AND LIGHT CHEMICALS

VLAO-V301/ V302 TP			
SINGLE UNION BALL VALVE			
For solvent welding /BSP Threaded sockets			
with safebock - Blue Handle			
CODE VALO - V301 TP / V302 TP			
d	CODE	BSP	CODE
16	VALOV3010016TP	3/8"	VALOV3020375TP
20	VALOV3010020TP	1/2"	VALOV3020500TP
25	VALOV3010025TP	3/4"	VALOV3020750TP
32	VALOV3010032TP	1"	VALOV3021000TP
40	VALOV3010040TP	1 1/4"	VALOV3021250TP
50	VALOV3010050TP	1 1/2"	VALOV3021500TP
63	VALOV3010063TP	2"	VALOV3022000TP
75	VALOV3010075TP	2 1/2"	VALOV3022500TP
90	VALOV3010090TP	3"	VALOV3023000TP
110	VALOV3010110TP	4"	VALOV3024000TP



## BALL VALVES FOR WATER AND LIGHT CHEMICALS

VALO-V321 / V322 TP			
DOUBLE UNION BALL VALVE			
For solvent welding /BSP Threaded sockets			
with safebock - Blue Handle			
CODE VALO-V321 TP-V322 TP			
d	CODE	G	CODE
16	VALOV3210016TP	3/8"	VALOV3220375TP
20	VALOV3210020TP	1/2"	VALOV3220500TP
25	VALOV3210025TP	3/4"	VALOV3220750TP
32	VALOV3210032TP	1"	VALOV3221000TP
40	VALOV3210040TP	1 1/4"	VALOV3221250TP
50	VALOV3210050TP	1 1/2"	VALOV3221500TP
63	VALOV3210063TP	2"	VALOV3222000TP
75	VALOV3210075TP	2 1/2"	VALOV3222500TP
90	VALOV3210090TP	3"	VALOV3223000TP
110	VALOV3210110TP	4"	VALOV3224000TP




## 3 WAY BALL VALVES

VALO-VT 306/307 - T - PORT				
10 bar - PTFE seat & EPDM O'Rings				
solvent sockets				
CODE-VALO-VT/ VALO-VL			CODE-VALO-VT/ VALO-VL	
d	DN	d Co e	BSP	Code
20	15	VALOVT3060020	3/8"	VALOVT3070500
25	20	VALOVT3060025	1/2"	VALOVT3070750
32	25	VALOVT3060032	1"	VALOVT3071000
40	32	VALOVT3060040	1 1/4"	VALOVT3071250
50	40	VALOVT3060050	1 1/2"	VALOVT3071500
63	50	VALOVT3060063	2"	VALOVT3072000







# PVC CHECK AND BUTTERFLY VALVES

<b>VALO-V310-</b> <b>PVC WAFER TYPE</b> <b>BUTTERFLY VALVE</b> EPDM seat and O'Rings FPM seat and O'Rings available on request CODE VALO-V310				
SIZE		Code		
d	DN			
63	50	VALOV3100063		
75	65	VALOV3100075		
90	80	VALOV3100090		
110	100	VALOV3100110		
125	125	VALOV3100125		
140	125	VALOV3100140		
160	150	VALOV3100160		
200	200	VALOV3100200		
250	250	VALOV3100250		

# ECONOMY BALL VALVES

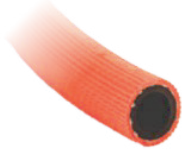
<b>ECONOMY BALL VALVES</b> <b>COMPACT BALL</b> <b>VALVE WHITE BSP</b> <b>THREADED/METRIC</b>			
CODE	SIZE		
VASDV2010020W	20mm		
VASDV2010025W	25mm		
VASDV2010032W	32mm		
VASDV2010040W	40mm		
VASDV2010050W	50mm		
VASDV2010063W	63mm		
VASDV2010075W	75mm		
VASDV2010090W	90mm		
VASDV2010110W	110mm		
VASDV2020500W	½"		
VASDV2020750W	¾"		
VASDV2021000W	1"		
VASDV2021250W	1¼"		
VASDV2021500W	1½"		
VASDV2022000W	2"		
VASDV2022500W	2½"		
VASDV2023000W	3"		
VASDV2024000W	4"		

<b>COMPACT BALL</b> <b>VALVE GREY BSP</b> <b>THREADED/METRIC</b>			
CODE	SIZE		
VASDV2010020	20mm		
VASDV2010025	25mm		
VASDV2010032	32mm		
VASDV2010040	40mm		
VASDV2010050	50mm		
VASDV2010063	63mm		
VASDV2010075	75mm		
VASDV2010090	90mm		
VASDV2010110	110mm		
VASDV2020500	½"		
VASDV2020750	¾"		
VASDV2021000	1"		
VASDV2021250	1¼"		
VASDV2021500	1½"		
VASDV2022000	2"		
VASDV2022500	2½"		
VASDV2023000	3"		
VASDV2024000	4"		

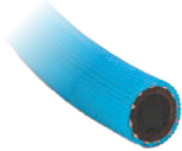
# BACKING RINGS

BS10 TABLE D ELECTRO-GALVANIZED BACKING RING FOR QR1 STUB PVC											
Code	Description	Size	FLANGE DIMENSIONS			DRILLING			Bolt Length		WEIGHT (KG)
			OD	ID	Thick	No	BOLT	PCD	P-P	P-S	
GALVGBR0020D	ELECTRO GALV. BACKING RING T.D 20MM	20mm	95,3	28	5	4	M12	66,7	40	35	On Req
GALVGBR0025D	ELECTRO GALV. BACKING RING T.D 25MM	25mm	101,6	34	5	4	M12	73	40	35	On Req
GALVGBR0032D	ELECTRO GALV. BACKING RING T.D 32MM	32mm	114	42	5	4	M12	82,6	40	35	On Req
GALVGBR0040D	ELECTRO GALV. BACKING RING T.D 40MM	40mm	120,7	51	6	4	M12	87,3	40	35	On Req
GALVGBR0050D	ELECTRO GALV. BACKING RING T.D 50MM	50mm	133,4	62	6	4	M12	98,4	40	35	On Req
GALVGBR0063D	ELECTRO GALV. BACKING RING T.D 63MM	63mm	152,4	78	10	4	M16	114,3	65	45	On Req
GALVGBR0075D	ELECTRO GALV. BACKING RING T.D 75MM	75mm	165,1	94	10	4	M16	127	65	45	On Req
GALVGBR0090D	ELECTRO GALV. BACKING RING T.D 90MM	90mm	184,1	110	10	4	M16	146	65	45	On Req
GALVGBR0110D	ELECTRO GALV. BACKING RING T.D 110MM	110mm	215,6	136	10	4	M16	177,8	75	45	On Req
GALVGBR0125D	ELECTRO GALV. BACKING RING T.D 125MM	125mm	215,6	148	10	8	M16	177,8	75	45	On Req
GALVGBR0140D	ELECTRO GALV. BACKING RING T.D 140MM	140mm	254	165	10	8	M16	209,6	75	45	On Req
GALVGBR0160D	ELECTRO GALV. BACKING RING T.D 160MM	160mm	279,4	190	10	8	M16	235	75	45	On Req
GALVGBR0200D	ELECTRO GALV. BACKING RING T.D 200MM	200mm	336,6	237	12	8	M16	292,1	75	45	On Req
GALVGBR0250D	ELECTRO GALV. BACKING RING T.D 250MM	250mm	406,4	279	14	8	M20	355,6	75	55	On Req
GALVGBR0280D	ELECTRO GALV. BACKING RING T/D 280MM	280mm	406,4	292	14	8	M20	355,6	75	55	On Req
GALVGBR0315D	ELECTRO GALV. BACKING RING T.D 315MM	315mm	457,2	350	16	12	M20	406,4	95	55	On Req
GALVGBR0355D	ELECTRO GALV. BACKING RING T.D 355MM	355mm	527,1	389	20	12	M24	469,9	95	65	On Req
GALVGBR0400D	ELECTRO GALV. BACKING RING T.D. 400MM	400mm	577,9	436	22	12	M24	520,7	95	65	On Req
GALVGBR0450D	ELECTRO GALV. BACKING RING T.D 450MM	450mm	641,4	476	25	12	M24	584,2	100	65	On Req
GALVGBR0500D	ELECTRO GALV. BACKING RING T.D 500MM	500mm	704	533	29	16	M24	641,4	100	65	On Req
GALVGBR0020B	ELECTRO GALV. BACKING RING BS4504 20MM	20mm	95	30	10	4	M12	65	40	35	On Req
GALVGBR0025B	ELECTRO GALV. BACKING RING BS4504 25MM	25mm	105	38	10	4	M12	75	40	35	On Req
GALVGBR0032B	ELECTRO GALV. BACKING RING BS4504 32MM	32mm	115	45	10	4	M12	85	40	35	On Req
GALVGBR0040B	ELECTRO GALV. BACKING RING BS4504 40MM	40mm	140	52	10	4	M16	100	40	35	On Req
GALVGBR0050B	ELECTRO GALV. BACKING RING BS4504 50MM	50mm	150	63	10	4	M16	110	40	35	On Req
GALVGBR0063B	ELECTRO GALV. BACKING RING BS4504 63MM	63mm	165	78	10	4	M18	125	65	45	On Req
GALVGBR0075B	ELECTRO GALV. BACKING RING BS4504 75MM	75mm	185	94	10	4	M18	145	65	45	On Req
GALVGBR0090B	ELECTRO GALV. BACKING RING BS4504 90MM	90mm	200	110	10	4	M18	160	65	45	On Req
GALVGBR0110B	ELECTRO GALV. BACKING RING BS4504 110MM	110mm	220	136	10	8	M18	180	75	45	On Req
GALVGBR0125B	ELECTRO GALV. BACKING RING BS4504 125MM	125mm	250	148	10	8	M18	180	75	45	On Req
GALVGBR0140B	ELECTRO GALV. BACKING RING BS4504 140MM	140mm	250	165	10	8	M18	210	75	45	On Req
GALVGBR0160B	ELECTRO GALV. BACKING RING BS4504 160MM	160mm	285	190	12	8	M22	240	75	45	On Req
GALVGBR0200B	ELECTRO GALV. BACKING RING BS4504 200MM	200mm	340	237	14	8	M22	295	75	45	On Req
GALVGBR0250B	ELECTRO GALV. BACKING RING BS4504 250MM	250mm	395	279	16	12	M22	350	75	55	On Req
GALVGBR0280B	ELECTRO GALV. BACKING RING BS4504 280MM	280mm	395	292	16	12	M22	350	75	55	On Req
GALVGBR0315B	ELECTRO GALV. BACKING RING BS4504 315MM	315mm	445	350	20	12	M22	400	95	55	On Req
GALVGBR0355B	ELECTRO GALV. BACKING RING BS4504 355MM	355mm	505	389	22	16	M22	460	95	65	On Req
GALVGBR0400B	ELECTRO GALV. BACKING RING BS4504 400MM	400mm	565	436	25	16	M26	515	95	65	On Req
GALVGBR0450B	ELECTRO GALV. BACKING RING BS4504 450MM	450mm	615	476	30	30	M24	565	100	65	On Req
GALVGBR0500B	ELECTRO GALV. BACKING RING BS4504 450MM	500mm	670	533	30	30	M24	620	100	65	On Req
GALVGBR0020A	ELECTRO GALV. BACKING RING ASA150 20MM	20mm	88,9	30	10	4	M12	60,3	40	35	On Req
GALVGBR0025A	ELECTRO GALV. BACKING RING ASA150 25MM	25mm	98,4	38	10	4	M12	69,8	40	35	On Req
GALVGBR0032A	ELECTRO GALV. BACKING RING ASA150 32MM	32mm	107,9	45	10	4	M12	79,4	40	35	On Req
GALVGBR0040A	ELECTRO GALV. BACKING RING ASA150 40MM	40mm	117,5	52	10	4	M12	88,9	40	35	On Req
GALVGBR0050A	ELECTRO GALV. BACKING RING ASA150 50MM	50mm	127	63	10	4	M16	98,4	40	35	On Req
GALVGBR0063A	ELECTRO GALV. BACKING RING ASA150 63MM	63mm	152,4	74	10	4	M16	120,6	65	45	On Req
GALVGBR0075A	ELECTRO GALV. BACKING RING ASA150 75MM	75mm	177,8	86	10	4	M16	139,7	65	45	On Req
GALVGBR0090A	ELECTRO GALV. BACKING RING ASA150 90MM	90mm	190,5	103	10	4	M16	152,4	65	45	On Req
GALVGBR0110A	ELECTRO GALV. BACKING RING ASA150 110MM	110mm	228,6	136	10	8	M16	190,5	75	45	On Req
GALVGBR0125A	ELECTRO GALV. BACKING RING ASA150 125MM	125mm	228,6	136	10	8	M16	190,5	75	45	On Req
GALVGBR0140A	ELECTRO GALV. BACKING RING ASA150 140MM	140mm	228,6	158	10	8	M20	215,9	75	45	On Req
GALVGBR0160A	ELECTRO GALV. BACKING RING ASA150 160MM	160mm	254	190	12	8	M20	241,3	75	45	On Req
GALVGBR0200A	ELECTRO GALV. BACKING RING ASA150 200MM	200mm	279,4	237	16	8	M20	298,4	75	45	On Req
GALVGBR0250A	ELECTRO GALV. BACKING RING ASA150 250MM	250mm	342,9	279	20	12	M24	361,9	75	55	On Req
GALVGBR0280A	ELECTRO GALV. BACKING RING ASA150 280MM	280mm	406,4	292	20	12	M24	361,9	75	55	On Req
GALVGBR0315A	ELECTRO GALV. BACKING RING ASA150 315MM	315mm	406,4	330	22	12	M24	431,8	95	55	On Req
GALVGBR0355A	ELECTRO GALV. BACKING RING ASA150 355MM	355mm	533	376	25	16	M24	476,2	95	65	On Req
GALVGBR0400A	ELECTRO GALV. BACKING RING ASA150 400MM	400mm	597	430	30	16	M24	539,7	95	65	On Req
GALVGBR0450A	ELECTRO GALV. BACKING RING ASA150 450MM	450mm	635	476	30	16	M30	577,8	100	65	On Req
GALVGBR0500A	ELECTRO GALV. BACKING RING ASA150 500MM	500mm	698,5	533	30	20	M30	635	100	65	On Req

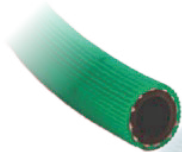
## Astore Keymak Hoses



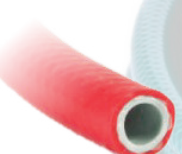
Orange Mining hose SANS 1086/2015, standard duty available from 10mm to 50mm in 30m coils.



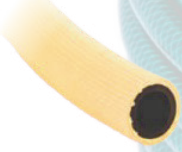
Blue Mining hose SANS 1086/2015, medium duty available from 10mm to 50mm in 30m coils.



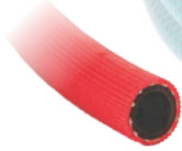
Green Mining hose SANS 1086/2015, heavy duty available from 10mm to 50mm in 30m coils.



Rock Drill hose exceeding SANS 1086/2015, heavy duty pressure available from 12mm to 25mm in 30m coils.



Anti-static loading hose BS 2050-1978 heavy duty available from 12mm to 50mm in 30m coils.



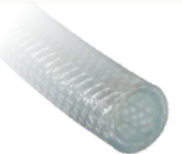
Red SABS Fire Reel hose SANS 1086/2015 available from 12mm to 25mm in 30m coils.



Black Dragline hose available from 12mm to 50mm in 30m coils.



Green Garden hose, with or without fittings available from 12mm to 20mm in 30m coils.



Clear Industrial Reinforced Hose available from 6mm to 25mm in 30m coils.



# COMPRESSION



## FITTINGS & VALVES

COMPRESSION





# COMPRESSION PRODUCTS



## Did you know?

That Unidelta offers the complete range full PN16  
Rated up to 110mm!

# COMPRESSION FITTINGS & VALVES

## Applications

Highly recommended for the civil and mining market for the conveyance of water, as well as Irrigation and Agriculture.



Astore Keymak is a reliable, experienced supplier delivering quality products. We offer a full pressure PN16 range of compression fittings and valves all to SAN14236:200 marking. This makes from all over sub-Saharan Africa successful in a wide range of industries.



**FITTINGS**

20-110mm PN16



**VALVES**

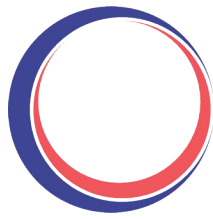
20-63 PN16



**SADDLES**

20-315mm  
PN4 to PN16





## Unidelta Compression Fittings



### Unidelta Fittings

These ensure a perfect hydraulic seal in the construction of pressurized liquid distribution systems. Unidelta compression fittings are designed specifically for connecting polyethylene pipes with an outside diameter from 16 to 110 mm. They convey drinking water and fluids at pressures up to 16 bar @ Ambient Temperature. The fittings are widely used in different sectors such as Mining, Agriculture, Infrastructure and Industry.

### Certification

- ✓ SANS 17885 Approved
- ✓ Jaswic Approved

### Advantages of Unidelta – DeltOne series PP Compression Fittings:

- ✓ It is faster to install
- ✓ It is easier to install, even in difficult working conditions
- ✓ 100% confirmation that pipe has reached internal fitting stop as it is possible to feel it reaching its final position
- ✓ The best mechanical and hydraulic seal resulting from the Unidelta design and O-ring perfectly gripping the pipe in whichever condition.

# UNIDELTA COMPRESSION FITTINGS ASSEMBLY INSTRUCTIONS



16 mm ÷ 40 mm

50 mm ÷ 110 mm



1 Cut the pipe squarely using special pipe cutting tools or circular or band saw. It is advisable to use a guide box to ensure a square cut.



1 Cut the pipe at the right angles using a special pipe cutter or a circular belt saw. When using a belt saw, it is advisable to use a guide box to ensure a square cut.



2 Eliminate any burrs and bevel the end of the pipe facilitate easy assembly and to prevent damage to the fitting gasket. The outer surface of the pipe must be free from imperfections or indentations where the body of the fitting makes contact with the pipe.



2 Unscrew the blue ring nut without removing the rings locked inside (integral component).



3 Unscrew the blue nut and put it onto pipe followed by the white clamping ring. Make sure the clamping ring is in the correct position, with the largest diameter facing the fitting.



3 Place the integrated component on the pipe followed by the O-ring. It is useful to lubricate the end of the pipe and the O-ring with a silicon based lubricant or other lubricant that does not affect the potability of the water.



4 Press the pipe axially into the fitting, past the O-ring, until it touches the internal stop inside the fitting body.



4 Press the pipe axially into the fitting until it touches the internal stop inside the fitting body.



5 Tighten the ring nut by hand and then use the torque wrench provided. The ring nut must be tight, but it does not need to reach the end of the fitting body.



5 Tighten the ring nut by hand and then use the torque wrench provided. The ring nut must be tight, but it does not need to reach the end of the fitting body.

# COMPRESSION FITTINGS



## COUPLING



510

d x d	CODE
16 x 16	COMP5100016
20 x 20	COMP5100020
25 x 25	COMP5100025
32 x 32	COMP5100032
40 x 40	COMP5100040
50 x 50	COMP5100050
63 x 63	COMP5100063
75 x 75	COMP5100075
90 x 90	COMP5100090
110 x 110	COMP5100110

## REDUCING COUPLING



512

d x d	CODE
20 x 16	COMP51200200016
25 x 20	COMP51200250020
32 x 20	COMP51200320020
32 x 25	COMP51200320025
40 x 25	COMP51200400025
40 x 32	COMP51200400032
50 x 25	COMP51200500025
50 x 32	COMP51200500032
50 x 40	COMP51200500040
63 x 25	COMP51200630025
63 x 32	COMP51200630032
63 x 40	COMP51200630040
63 x 50	COMP51200630050
75 x 50	COMP51200750050
75 x 63	COMP51200750063
90 x 63	COMP51200900063
90 x 75	COMP51200900075
110 x 75	COMP51201100075
110 x 90	COMP51201100090

## TEE



514

d x d x d	CODE
16 x 16 x 16	COMP5140016
20 x 20 x 20	COMP5140020
25 x 25 x 25	COMP5140025
32 x 32 x 32	COMP5140032
40 x 40 x 40	COMP5140040
50 x 50 x 50	COMP5140050
63 x 63 x 63	COMP5140063
75 x 75 x 75	COMP5140075
90 x 90 x 90	COMP5140090
110 x 110 x 110	COMP5140110

## MALE ADAPTOR



511

d x BSP	CODE
16 x 3/8"	COMP51100160375
16 x 1/2"	COMP51100160500
16 x 3/4"	COMP51100160750
20 x 1/2"	COMP51100200500
20 x 3/4"	COMP51100200750
20 x 1"	COMP51100201000
25 x 1/2"	COMP51100250500
25 x 3/4"	COMP51100250750
25 x 1"	COMP51100251000
32 x 1/2"	COMP51100320500
32 x 3/4"	COMP51100320750
32 x 1"	COMP51100321000
32 x 1.1/4"	COMP51100321250
32 x 1.1/2"	COMP51100321500
40 x 1"	COMP51100401000
40 x 1.1/4"	COMP51100401250
40 x 1.1/2"	COMP51100401500
40 x 2"	COMP51100402000
50 x 1"	COMP51100501000
50 x 1.1/4"	COMP51100501250
50 x 1.01/2"	COMP51100501500
50 x 2"	COMP51100502000
63 x 1.1/4"	COMP51100631250
63 x 1.1/2"	COMP51100631500
63 x 2"	COMP51100632000
63 x 2.1/2"	COMP51100632500
75 x 2"	COMP51100752000
75 x 2.1/2"	COMP51100752500
75 x 3"	COMP51100753000
90 x 2"	COMP51100902000
90 x 2.1/2"	COMP51100902500
90 x 3"	COMP51100903000
90 x 4"	COMP51100904000
110 x 2"	COMP51101102000
110 x 3"	COMP51101103000
110 x 4"	COMP51101104000

## ELBOW - 90°



513

d x d	CODE
16 x 16	COMP5130016
20 x 20	COMP5130020
25 x 25	COMP5130025
32 x 32	COMP5130032
40 x 40	COMP5130040
50 x 50	COMP5130050
63 x 63	COMP5130063
75 x 75	COMP5130075
90 x 90	COMP5130090
110 x 110	COMP5130110

## ELBOW - 45°



530

d x d	CODE
20 x 20	COMP5300020
25 x 25	COMP5300025
32 x 32	COMP5300032
40 x 40	COMP5300040
50 x 50	COMP5300050
63 x 63	COMP5300063

## FEMALE ADAPTOR



601

d x BSP	CODE
16 x 1/2"	COMP60100160500
16 x 3/4"	COMP60100160750
20 x 1/2"	COMP60100200500
20 x 3/4"	COMP60100200750
20 x 1"	COMP60100201000
25 x 1/2"	COMP60100250500
25 x 3/4"	COMP60100250750
25 x 1"	COMP60100251000
32 x 1/2"	COMP60100320500
32 x 3/4"	COMP60100320750
32 x 1"	COMP60100321000
32 x 1.1/4"	COMP60100321250
40 x 1"	COMP60100401000
40 x 1.1/4"	COMP60100401250
40 x 1.1/2"	COMP60100401500
50 x 1.1/4"	COMP60100501250
50 x 1.01/2"	COMP60100501500
50 x 2"	COMP60100502000
63 x 1.1/4"	COMP60100631250
63 x 1.1/2"	COMP60100631500
63 x 2"	COMP60100632000
63 x 2.1/2"	COMP60100632500
75 x 2"	COMP60100752000
75 x 2.1/2"	COMP60100752500
75 x 3"	COMP60100753000
90 x 2"	COMP60100902000
90 x 2.1/2"	COMP60100902500
90 x 3"	COMP60100903000
90 x 4"	COMP60100904000
110 x 3"	COMP60101103000
110 x 4"	COMP60101104000

**PRESSURE RATING**  
16 -110 mm: 16 Bar

**SANS 17885 : 2019**

# COMPRESSION FITTINGS



## FEMALE TEE



515

d x BSP x d	CODE
16 x 1/2" x 16	COMP51500160500
16 x 13/4" x 16	COMP51500160750
20 x 1/2" x 20	COMP51500200500
20 x 3/4" x 20	COMP51500200750
25 x 1/2" x 25	COMP51500250500
25 x 3/4" x 25	COMP51500250750
25 x 1" x 25	COMP51500251000
32 x 1/2" x 32	COMP51500320500
32 x 3/4" x 32	COMP51500320750
32 x 1" x 32	COMP51500321000
32 x 1.1/4" x 32	COMP51500321250
40 x 1" x 40	COMP51500401000
40 x 1.1/4" x 40	COMP51500401250
40 x 1.1/2" x 40	COMP51500401500
50 x 1.1/4" x 50	COMP51500501250
50 x 1.1/2" x 50	COMP51500501500
50 x 2" x 50	COMP51500502000
63 x 1.1/4" x 63	COMP51500631250
63 x 1.1/2" x 63	COMP51500631500
63 x 2" x 63	COMP51500632000
63 x 2.1/2" x 63	COMP51500632500
75 x 2" x 75	COMP51500752000
75 x 2.1/2" x 75	COMP51500752500
75 x 3" x 75	COMP51500753000
90 x 2.1/2" x 90	COMP51500902500
90 x 3" x 90	COMP51500903000
90 x 4" x 90	COMP51500904000
110 x 3" x 110	COMP51501103000
110 x 4" x 110	COMP51501104000

## REDUCING TEE



517

d x d	CODE
20 x 16	COMP51700200016
25 x 20	COMP51700250020
32 x 20	COMP51700320020
32 x 25	COMP51700320025
40 x 25	COMP51700400025
40 x 32	COMP51700400032
50 x 25	COMP51700500025
50 x 32	COMP51700500032
50 x 40	COMP51700500040
63 x 25	COMP51700630025
63 x 32	COMP51700630032
63 x 40	COMP51700630040
63 x 50	COMP51700630050
75 x 50	COMP51700750050
75 x 63	COMP51700750063
90 x 63	COMP51700900063
90 x 75	COMP51700900075
110 x 75	COMP51701100075
110 x 90	COMP51701100090

## MALE TEE



516

d x BSP x d	CODE
16 x 1/2 x 16	COMP51600160500
16 x 13/4 x 16	COMP51600160750
20 x 1/2 x 20	COMP51600200500
20 x 3/4 x 20	COMP51600200750
25 x 1/2 x 25	COMP51600250500
25 x 3/4 x 25	COMP51600250750
25 x 1 x 25	COMP51600251000
32 x 1/2 x 32	COMP51600320500
32 x 3/4 x 32	COMP51600320750
32 x 1 x 32	COMP51600321000
32 x 1.1/4 x 32	COMP51600321250
40 x 1 x 40	COMP51600401000
40 x 1.1/4 x 40	COMP51600401250
40 x 1.1/2 x 40	COMP51600401500
50 x 1.1/4 x 50	COMP51600501250
50 x 1.1/2 x 50	COMP51600501500
50 x 2 x 50	COMP51600502000
63 x 1.1/2 x 63	COMP51600631500
63 x 2 x 63	COMP51600632000
63 x 2.1/2 x 63	COMP51600632500
75 x 2 1/2 x 75	COMP51600752500
75 x 3 x 75	COMP51600753000
90 x 3 x 90	COMP51600903000
90 x 4 x 90	COMP51600904000
110 x 4 x 110	COMP51601104000

## FEMALE ELBOW



518

d x BSP	CODE
16 x 1/2	COMP51800160500
16 x 3/4	COMP51800160750
20 x 1/2	COMP51800200500
20 x 3/4	COMP51800200750
25 x 1/2	COMP51800250500
25 x 3/4	COMP51800250750
25 x 1	COMP51800251000
32 x 1/2	COMP51800320500
32 x 3/4	COMP51800320750
32 x 1	COMP51800321000
32 x 1.1/4	COMP51800321250
40 x 3/4	COMP51800400750
40 x 1	COMP51800401000
40 x 1.1/4	COMP51800401250
40 x 1.1/2	COMP51800401500
50 x 1.1/4	COMP51800501250
50 x 1.1/2	COMP51800501500
50 x 2	COMP51800502000
63 x 1.1/2	COMP51800631500
63 x 2	COMP51800632000
63 x 2.1/2	COMP51800632500
75 x 2	COMP51800752000
75 x 2.1/2	COMP51800752500
75 x 3	COMP51800753000
90 x 3	COMP51800903000
90 x 4	COMP51800904000
110 x 3	COMP51801103000
110 x 4	COMP51801104000

## MALE ELBOW



519

d x BSP	CODE
16 x 1/2	COMP51900160500
16 x 13/4	COMP51900160750
20 x 1/2	COMP51900200500
20 x 3/4	COMP51900200750
25 x 1/2	COMP51900250500
25 x 3/4	COMP51900250750
25 x 1	COMP51900251000
32 x 1/2	COMP51900320500
32 x 3/4	COMP51900320750
32 x 1	COMP51900321000
32 x 1.1/4	COMP51900321250
40 x 1	COMP51900401000
40 x 1.1/4	COMP51900401250
40 x 1.1/2	COMP51900401500
50 x 1.1/4	COMP51900501250
50 x 1.1/2	COMP51900501500
50 x 2	COMP51900502000
63 x 1.1/2	COMP51900631500
63 x 2	COMP51900632000
63 x 2.1/2	COMP51900632500
75 x 2.1/2	COMP51900752500
75 x 3	COMP51900753000
90 x 3	COMP51900903000
90 x 4	COMP51900904000
110 x 4	COMP51901104000

## FLANGED ADAPTOR



520


d x BSP	CODE
40 x 1.1/2	COMP52000401500
50 x 1.1/2	COMP52000501500
50 x 2	COMP52000502000
63 x 2	COMP52000632000
63 x 2.1/2	COMP52000632500
75 x 2.1/2	COMP52000752500
75 x 3	COMP52000753000
90 x 3	COMP52000903000
90 x 4	COMP52000904000
110 x 4	COMP52001104000


**PRESSURE RATING**  
**16-110 mm: 16 Bar**


**SANS 17885 : 2019**

# COMPRESSION FITTINGS & SPARE PARTS




END PLUG	
	
<b>521</b>	
d	CODE
16	COMP5210016
20	COMP5210020
25	COMP5210025
32	COMP5210032
40	COMP5210040
50	COMP5210050
63	COMP5210063
75	COMP5210075
90	COMP5210090
110	COMP5210110


REPAIR COUPLER	
	
<b>523</b>	
d x d	CODE
40 x 40	COMP5230040
50 x 50	COMP5230050
63 x 63	COMP5230063
75 x 75	COMP5230075
90 x 90	COMP5230090
110 x 110	COMP5230110


O' RING - NBR	
	
<b>RIN</b>	
d	CODE
16	COMPRIN0016
20	COMPRIN0020
25	COMPRIN0025
32	COMPRIN0032
40	COMPRIN0040
50	COMPRIN0050
63	COMPRIN0063
75	COMPRIN0075
90	COMPRIN0090
110	COMPRIN0110


LOCATING RING	
	
<b>LRI</b>	
d	CODE
16	COMPLRI0016
20	COMPLRI0020
25	COMPLRI0025
32	COMPLRI0032
40	COMPLRI0040
50	COMPLRI0050
63	COMPLRI0063
75	COMPLRI0075
90	COMPLRI0090
110	COMPLRI0110


**PRESSURE RATING**  
16-110 mm: 16 Bar


INCREASING TEE	
	
<b>522</b>	
d x d x d	CODE
20 x 25 x 20	COMP522002000250020
25 x 32 x 25	COMP522002500320025
* 32 x 40 x 32	COMP522003200400032
* 40 x 50 x 40	COMP522004000500040

90 ELBOW WITH LATERAL THREADED FEMALE TAKE OFF	
	
<b>520</b>	
d x BSP	CODE
25 x 1/2"	COMP5200250500


FEMALE TEE WITH PEG FITTING	
	
<b>527</b>	
d x BSP	CODE
32 x 3/4"	COMP52700320750


PEG - 290MM	
	
<b>531</b>	
BSP	CODE
3/4"	COMP5310750


BACK NUT	
	
<b>GHP</b>	
d	CODE
16	COMPGHP0016
20	COMPGHP0020
25	COMPGHP0025
32	COMPGHP0032
40	COMPGHP0040
50	COMPGHP0050
63	COMPGHP0063
75	COMPGHP0075
90	COMPGHP0090
110	COMPGHP0110


ACETAL CLINCH RING	
	
<b>AGR</b>	
d	CODE
16	COMPAGR0016
20	COMPAGR0020
25	COMPAGR0025
32	COMPAGR0032
40	COMPAGR0040
50	COMPAGR0050
63	COMPAGR0063
75	COMPAGR0075
90	COMPAGR0090
110	COMPAGR0110


SANS 17885 : 2019


UNIVERSAL TRANSITION COUPLING - PN 10	
	
<b>524</b>	
d x d x d	CODE COMP
15 x 22 x 20	COMP524001500220020
15 x 22 x 25	COMP524001500220025
20 x 27 x 25	COMP524002000270025
27 x 34 x 25	COMP524002700340025
20 x 27 x 32	COMP524002000270032
27 x 34 x 32	COMP524002700340032

WALL PLATE ELBOW	
	
<b>526</b>	
d x BSP	CODE
20 x 1/2"	COMP52600200500
25 x 3/4"	COMP52600250750

EXTENSION PEG - 280MM	
	
<b>532</b>	
BSP	CODE
3/4" x 1/2"	COMP5320500
3/4" x 3/4"	COMP5320750


COMPRESSION BALL VALVE	
	
<b>570</b>	
d x d	CODE
20 x 20	COMP5700020
25 x 25	COMP5700025
32 x 32	COMP5700032
40 x 40	COMP5700040
50 x 50	COMP5700050
63 x 63	COMP5700063


CPVC CLINCH RING	
	
<b>AGR</b>	
d	CODE
63	COMPAGR0063CPVC
75	COMPAGR0075CPVC
90	COMPAGR0090CPVC
110	COMPAGR0110CPVC


O' RING - VITON	
	
<b>RIN-V</b>	
d	CODE
50	COMPRIN0050V
63	COMPRIN0063V
75	COMPRIN0075V
90	COMPRIN0090V
110	COMPRIN0110V





# COMPRESSION FITTINGS


COUPLING		
		
210		
d x d	CODE	
16 x 16	COMC2100016	
20 x 20	COMC2100020	
25 x 25	COMC2100025	
32 x 32	COMC2100032	
40 x 40	COMC2100040	
50 x 50	COMC2100050	
63 x 63	COMC2100063	
75 x 75	COMC2100075	
90 x 90	COMC2100090	
110 x 110	COMC2100110	


MALE ADAPTOR		
		
211		
d x BSP	CODE	
16 x 1/2"	COMC21100160500	
16 x 3/4"	COMC21100160750	
20 x 1/2"	COMC21100200500	
20 x 3/4"	COMC21100200750	
20 x 1"	COMC21100201000	
25 x 1/2"	COMC21100250500	
25 x 3/4"	COMC21100250750	
25 x 1"	COMC21100251000	
32 x 3/4"	COMC21100320750	
32 x 1"	COMC21100321000	
32 x 1.1/4"	COMC21100321250	
40 x 1"	COMC21100401000	
40 x 1.1/4"	COMC21100401250	
40 x 1.1/2"	COMC21100401500	
50 x 1"	COMC21100501000	
50 x 1.1/4"	COMC21100501250	
50 x 1.1/2"	COMC21100501500	
50 x 2"	COMC21100502000	
63 x 1.1/2"	COMC21100631500	
63 x 2"	COMC21100632000	
63 x 2.1/2"	COMC21100632500	
75 x 2"	COMC21100752000	
75 x 2.1/2"	COMC21100752500	
75 x 3"	COMC21100753000	
90 x 2"	COMC21100902000	
90 x 2.1/2"	COMC21100902500	
90 x 3"	COMC21100903000	
90 x 4"	COMC21100904000	
110 x 2"	COMC21101102000	
110 x 3"	COMC21101103000	
110 x 4"	COMC21101104000	


ELBOW		
		
213		
d x d	CODE	
16 x 16	COMC2130016	
20 x 20	COMC2130020	
25 x 25	COMC2130025	
32 x 32	COMC2130032	
40 x 40	COMC2130040	
50 x 50	COMC2130050	
63 x 63	COMC2130063	
75 x 75	COMC2130075	
90 x 90	COMC2130090	
110 x 110	COMC2130110	

REDUCING COUPLER		
		
212		
d x d	CODE	
20 x 16	COMC21200200016	
25 x 20	COMC21200250020	
32 x 25	COMC21200320025	
40 x 25	COMC21200400025	
40 x 32	COMC21200400032	
50 x 25	COMC21200500025	
50 x 32	COMC21200500032	
50 x 40	COMC21200500040	
63 x 32	COMC21200630032	
63 x 40	COMC21200630040	
63 x 50	COMC21200630050	
75 x 50	COMC21200750050	
75 x 63	COMC21200750063	
90 x 63	COMC21200900063	
90 x 75	COMC21200900075	
110 x 90	COMC21201100090	

FEMALE TEE		
		
215		
d x BSP x d	CODE	
16 X 1/2" X 16	COMC21500160500	
16 X 3/4" X 16	COMC21500160750	
20 X 1/2" X 20	COMC21500200500	
20 X 3/4" X 20	COMC21500200750	
25 X 1/2" X 25	COMC21500250500	
25 X 3/4" X 25	COMC21500250750	
25 X 1" X 25	COMC21500251000	
32 X 1/2" X 32	COMC21500320500	
32 X 3/4" X 32	COMC21500320750	
32 X 1" X 32	COMC21500321000	
32 X 1.1/4" X 32	COMC21500321250	
40 X 1" X 40	COMC21500401000	
40 X 1.1/4" X 40	COMC21500401250	
40 X 1.1/2" X 40	COMC21500401500	
50 X 1.1/4" X 50	COMC21500501250	
50 X 1.1/2" X 50	COMC21500501500	
50 X 2" X 50	COMC21500502000	
63 X 1.1/2" X 63	COMC21500631500	
63 X 2" X 63	COMC21500632000	
75 X 2" X 75	COMC21500752000	
75 X 2.1/2" X 75	COMC21500752500	
75 X 3" X 75	COMC21500753000	
90 X 2.1/2" X 90	COMC21500902500	
90 X 3" X 90	COMC21500903000	
90 X 4" X 90	COMC21500904000	
110 X 4" X 110	COMC21501104000	

TEE		
		
214		
d x d x d	CODE	
16 x 16 x 16	COMC2140016	
20 x 20 x 20	COMC2140020	
25 x 25 x 25	COMC2140025	
32 x 32 x 32	COMC2140032	
40 x 40 x 40	COMC2140040	
50 x 50 x 50	COMC2140050	
63 x 63 x 63	COMC2140063	
75 x 75 x 75	COMC2140075	
90 x 90 x 90	COMC2140090	
110 x 110 x 110	COMC2140110	

FEMALE ADAPTOR		
		
201		
d x BSP	CODE	
16 x 1/2"	COMC20100160500	
16 x 3/4"	COMC20100160750	
20 x 1/2"	COMC20100200500	
20 x 3/4"	COMC20100200750	
20 x 1"	COMC20100201000	
25 x 1/2"	COMC20100250500	
25 x 3/4"	COMC20100250750	
25 x 1"	COMC20100251000	
32 x 1/2"	COMC20100320500	
32 x 3/4"	COMC20100320750	
32 x 1"	COMC20100321000	
32 x 1.1/4"	COMC20100321250	
40 x 1"	COMC20100401000	
40 x 1.1/4"	COMC20100401250	
40 x 1.1/2"	COMC20100401500	
50 x 1.1/4"	COMC20100501250	
50 x 1.1/2"	COMC20100501500	
50 x 2"	COMC20100502000	
63 x 1.1/4"	COMC20100631250	
63 x 1.1/2"	COMC20100631500	
63 x 2"	COMC20100632000	
75 x 2"	COMC20100752000	
75 x 2.1/2"	COMC20100752500	
90 x 2.1/2"	COMC20100902500	
90 x 3"	COMC20100903000	
110 x 3"	COMC20101103000	
110 x 4"	COMC20101104000	

MALE TEE		
		
216		
d x BSP x d	CODE	
16 X 1/2" X 16	COMC21600160500	
16 X 3/4" X 16	COMC21600160750	
20 X 1/2" X 20	COMC21600200500	
20 X 3/4" X 20	COMC21600200750	
25 X 1/2" X 25	COMC21600250500	
25 X 3/4" X 25	COMC21600250750	
25 X 1" X 25	COMC21600251000	
32 X 3/4" X 32	COMC21600320750	
32 X 1" X 32	COMC21600321000	
32 X 1.1/4" X 32	COMC21600321250	
40 X 1.1/4" X 40	COMC21600401250	
40 X 1.1/2" X 40	COMC21600401500	
50 X 1.1/4" X 50	COMC21600501250	
50 X 1.1/2" X 50	COMC21600501500	
50 X 2" X 50	COMC21600502000	
63 X 2" X 63	COMC21600632000	
75 X 2.1/2" X 75	COMC21600752500	
75 X 3" X 75	COMC21600753000	
90 X 3" X 90	COMC21600903000	
90 X 4" X 90	COMC21600904000	
110 X 4" X 110	COMC21601104000	


PRESSURE RATING FOR  
CONNECTO BRAND  
COMPRESSION FITTING  
16 -63 : 16 Bar  
75 -110 : 10 Bar





SANS 14236 : 2003

# COMPRESSION FITTINGS





FEMALE ELBOW	
	
218	
d x BSP	CODE
16 x 1/2"	COMC21800160500
16 x 3/4"	COMC21800160750
20 x 1/2"	COMC21800200500
20 x 3/4"	COMC21800200750
25 x 1/2"	COMC21800250500
25 x 3/4"	COMC21800250750
25 x 1"	COMC21800251000
32 x 3/4"	COMC21800320750
32 x 1"	COMC21800321000
32 x 1.1/4"	COMC21800321250
40 x 1"	COMC21800401000
40 x 1.1/4"	COMC21800401250
40 x 1.1/2"	COMC21800401500
50 x 1.1/2"	COMC21800501500
50 x 2"	COMC21800502000
63 x 1.1/2"	COMC21800631500
63 x 2"	COMC21800632000
75 x 2.1/2"	COMC21800752500
75 x 3"	COMC21800753000
90 x 3"	COMC21800903000
90 x 4"	COMC21800904000
110 x 4"	COMC21801104000

MALE ELBOW	
	
219	
d x BSP	CODE
16 x 1/2"	COMC21900160500
16 x 3/4"	COMC21900160750
20 x 1/2"	COMC21900200500
20 x 3/4"	COMC21900200750
25 x 1/2"	COMC21900250500
25 x 3/4"	COMC21900250750
25 x 1"	COMC21900251000
32 x 3/4"	COMC21900320750
32 x 1"	COMC21900321000
32 x 1.1/4"	COMC21900321250
40 x 1"	COMC21900401000
40 x 1.1/4"	COMC21900401250
40 x 1.1/2"	COMC21900401500
50 x 1.1/2"	COMC21900501500
50 x 2"	COMC21900502000
63 x 2"	COMC21900632000
63 x 2.1/2"	COMC21900632500
75 x 2.1/2"	COMC21900752500
75 x 3"	COMC21900753000
90 x 3"	COMC21900903000
90 x 4"	COMC21900904000
110 x 4"	COMC21901104000

END PLUG	
	
221	
d	CODE
16	COMC2210016
20	COMC2210020
25	COMC2210025
32	COMC2210032
40	COMC2210040
50	COMC2210050
63	COMC2210063
75	COMC2210075
90	COMC2210090
110	COMC2210110

PRESSURE RATING FOR CONNECTO  
PRICE COMPRESSION FITTING:  
16 - 63: 16 BAR  
75 - 110 : 10 BAR  
SANS 14236:2003

COMC - AGR	
	
CLINCH RING	
d	CODE
16	COMCAGR0016
20	COMCAGR0020
25	COMCAGR0025
32	COMCAGR0032
40	COMCAGR0040
50	COMCAGR0050
63	COMCAGR0063
75	COMCAGR0075
90	COMCAGR0090
110	COMCAGR0110

COMC - RIN	
	
O' RING	
d	CODE
16	COMCRIN0016
20	COMCRIN0020
25	COMCRIN0025
32	COMCRIN0032
40	COMCRIN0040
50	COMCRIN0050
63	COMCRIN0063
75	COMCRIN0075
90	COMCRIN0090
110	COMCRIN0110

## Saddle & Tools



### Technical features

- The full range is suitable for a maximum pressure of 16 bar;
- Complete range of threaded outlets for each diameter;
- New generation PP-B material;
- Suitable both for PE pipes (with dimensions according to EN 12201-2) and PVC pipes (with dimensions according to EN 1452-2);
- High solidity of the threaded outlet due to the increased stainless steel reinforcing ring;
- Toric seal (O-ring) perfectly following the shape of the pipe.

### Components

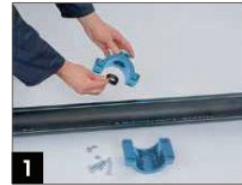
1. Bolts: galvanized steel;
2. Bottom saddle: highly stable polypropylene (PP-B) with UV protection;
3. Gasket: O-Ring NBR;
4. Upper saddle: highly stable polypropylene (PP-B) with UV protection;
5. Reinforcing ring: stainless steel (AISI 430).



# SADDLE ASSEMBLY INSTRUCTIONS



1. Identify the point of installation and make sure the external surface of the pipe is free from soil, imperfections and indentations in the area of contact with the gasket. Position the gasket in the saddle seat.



2. Place the lower part of the saddle (The base) in the chosen point. Couple the upper part of the saddle (The branch) with the lower one.



3. Insert the screws from below (the bottom part of the saddle has a recess to receive the head of the screws). Tighten the nuts alternatively.



## Clamp saddles - alternative procedure-

4. A. Drill a hole in the pipe wall taking care not to damage the saddle screw thread and the O-ring. Use a spacer to avoid drilling through the other side of the pipe. Better to use a milling drill so as to not damage the screw thread of the saddle and the O-ring.



4.B. Use a white indelible felt-tip pen to draw a reference point on the pipe to allow repositioning of



5. Drill the hole on the pipe wall and remove the scraps.




6. Assemble the saddle according to the marked lines, to keep the hole aligned with the branch direction. It can help to use a pin such as the drill used to make the hole.



# CLAMP SADDLES


Clamp saddle with reinforcing steel ring &  
D-Gasket seal gasket - 2 Bolt



505HP

CODE	d x BSP	BOLTS	PN
SADU505HP00200500	20 x 1/2"	2	16
SADU505HP00250500	25 x 1/2"	2	16
SADU505HP00250750	25 x 3/4"	2	16


Clamp saddle with reinforcing steel ring &  
D-Gasket seal gasket - 4 Bolt



505HP

CODE	d x BSP	BOLTS	PN
SADU505HP00320500	32 x 1/2"	4	16
SADU505HP00320750	32 x 3/4"	4	16
SADU505HP00400500	40 x 1/2"	4	16
SADU505HP00400750	40 x 3/4"	4	16
SADU505HP00401000	40 x 1 "	4	16
SADU505HP00500500	50 x 1/2"	4	16
SADU505HP00500750	50 x 3/4"	4	16
SADU505HP00501000	50 x 1"	4	16
SADU505HP00630500	63 x 1/2"	4	16
SADU505HP00630750	63 x 3/4"	4	16
SADU505HP00631000	63 x 1"	4	16
SADU505HP00631250	63 x 1.1/4"	4	16
SADU505HP00631500	63 x 1.1/2"	4	16
SADU505HP00750500	75 x 1/2"	4	16
SADU505HP00750750	75 x 3/4"	4	16
SADU505HP00751000	75 x 1 "	4	16
SADU505HP00751250	75 x 1.1/4"	4	16
SADU505HP00751500	75 x 1.1/2"	4	16
SADU505HP00752000	75 x 2"	4	16
SADU505HP00900500	90 x 1/2"	4	16
SADU505HP00900750	90 x 3/4"	4	16
SADU505HP00901000	90 x 1 "	4	16
SADU505HP00901250	90 x 1.1/4"	4	16
SADU505HP00901500	90 x 1.1/2"	4	16
SADU505HP00902000	90 x 2"	4	16
SADU505HP01100500	110 x 1/2"	4	16
SADU505HP01100750	110 x 3/4"	4	16
SADU505HP01101000	110 x 1 "	4	16
SADU505HP01101250	110 x 1.1/4"	4	16
SADU505HP01101500	110 x 1.1/2"	4	16
SADU505HP01102000	110 x 2"	4	16


Clamp Saddle with reinforcing steel ring &  
O'Ring seal Gasket - 2 Bolt



505

CODE	d x BSP	BOLTS	PN
SADU50501250500	125 x 1/2"	6	10
SADU50501250750	125 x 3/4"	6	10
SADU50501251000	125 x 1 "	6	10
SADU50501251250	125 x 1.1/4"	6	10
SADU50501251500	125 x 1.1/2"	6	10
SADU50501252000	125 x 2"	6	10
SADU50501253000	125 x 3 "	6	10
SADU50501603000	160 x 3"	6	10
SADU50501604000	160 x 4"	6	10
SADU50502001250	200 x 1.1/4"	6	10
SADU50502001500	200 x 1.1/2"	6	10
SADU50502002000	200 x 2"	6	10
SADU50502003000	200 x 3 "	6	10
SADU50502004000	200 x 4"	6	10


Clamp Saddle with reinforcing steel ring &  
O'Ring seal Gasket



505

CODE	d x BSP	BOLTS	PN
SADD50500200500	20 x 1/2"	2	10
SADD50500250500	25 x 1/2"	2	10
SADD50500250750	25 x 3/4"	2	10
SADD50500320500	32 x 1/2"	2	10
SADD50500320750	32 x 3/4"	2	10
SADD50500321000	32 x 1 "	2	10
SADD50500400500	40 x 1/2"	2	10
SADD50500400750	40 x 3/4"	2	10
SADD50500401000	40 x 1 "	2	10


Clamp Saddle with reinforcing steel ring &  
O'Ring seal Gasket



505

CODE	d x BSP	BOLTS	PN
SADD50500500500	50 x 1/2"	2	10
SADD50500500750	50 x 3/4"	2	10
SADD50500501000	50 x 1 "	2	10
SADU50500501250	50 x 1.1/4"	4	10
SADD50500630500	63 x 1/2"	4	10
SADD50500630750	63 x 3/4"	4	10
SADD50500631000	63 x 1 "	4	10
SADD50500631250	63 x 1.1/4"	4	10
SADD50500631500	63 x 1.1/2"	4	10
SADD50500750500	75 x 1/2"	4	10
SADD50500750750	75 x 3/4"	4	10
SADD50500751000	75 x 1 "	4	10
SADD50500751250	75 x 1.1/4"	4	10
SADD50500751500	75 x 1.1/2"	4	10
SADD50500752000	75 x 2"	4	10
SADD50500900500	90 x 1/2"	4	10
SADD50500900750	90 x 3/4"	4	10
SADD50500901000	90 x 1 "	4	10
SADD50500901250	90 x 1.1/4"	4	10
SADD50500901500	90 x 1.1/2"	4	10
SADD50500902000	90 x 2"	4	10
SADD50501100500	110 x 1/2"	4	10
SADD50501100750	110 x 3/4"	4	10
SADD50501101000	110 x 1 "	4	10
SADD50501101250	110 x 1.1/4"	4	10
SADD50501101500	110 x 1.1/2"	4	10
SADD50501102000	110 x 2"	4	10
SADD50501103000	110 x 3"	4	6

Clamp saddle with reinforcing steel ring &  
O-Ring seal gasket - 4 Bolt



505HP

CODE	d x BSP	BOLTS	PN
SADU505HP01600750	160 x 3/4"	6	16
SADU505HP01601000	160 x 1"	6	16
SADU505HP02000750	200 x 3/4"	6	16
SADU505HP02001000	200 x 1"	6	16



# CLAMP SADDLES

Clamp Saddle with reinforcing steel ring & O'Ring seal gasket - 6 Bolt



505

CODE	d x BSP	BOLTS	PN
SADD50501401000	140 x 1"	6	10
SADD50501401250	140 x 1.1/4"	6	10
SADD50501401500	140 x 1.1/2"	6	10
SADD50501402000	140 x 2"	6	10
SADD50501402500	140 x 2.1/2"	6	6
SADD50501403000	140 x 3"	6	10
SADD50501601000	160 x 1"	6	10
SADD50501601250	160 x 1.1/4"	6	10
SADD50501601500	160 x 1.1/2"	6	10
SADD50501602000	160 x 2"	6	6
SADD50501603000	160 x 3"	6	6
SADD50502001250	200 x 1.1/4"	6	6
SADD50502001500	200 x 1.1/2"	6	6
SADD50502002000	200 x 2"	6	6
SADD50502003000	200 x 3"	6	6
SADD50502004000	200 x 4"	6	4
SADD50502251250	225 x 1.1/4"	6	4
SADD50502251500	225 x 1.1/2"	6	4
SADD50502252000	225 x 2"	6	4
SADD50502253000	225 x 3"	6	4
SADD50502254000	225 x 4"	6	4
SADD50502501250	250 x 1.1/4"	6	4
SADD50502501500	250 x 1.1/2"	6	4
SADD50502502000	250 x 2"	6	4
SADD50502503000	250 x 3"	6	4
SADD50502504000	250 x 4"	6	4
SADD50503151250	315 x 1.1/4"	6	4
SADD50503151500	315 x 1.1/2"	6	4
SADD50503152000	315 x 2"	6	4
SADD50503153000	315 x 3"	6	4
SADD50503154000	315 x 4"	6	4

TAPPING SADDLE



SADU-1025

CODE	d x d	BOLTS	PN
SADU10250110020	110 X 20	6	16
SADU10250110025	110 X 25	6	16
SADU10250110032	110 X 32	6	16
SADU10250160020	160 X 20	6	16
SADU10250160025	160 X 25	6	16
SADU10250160032	160 X 32	6	16

FITTING WRENCH



SPA

d	CODE
16 - 63	COMPSPA00160063H

Clamp Saddle - Un-reinforced & O'Ring seal gasket - 2 Bolt



503

CODE	d x BSP	BOLTS	PN
SADD50300200500	20 x 1/2"	2	6
SADD50300250500	25 x 1/2"	2	6
SADD50300250750	25 x 3/4"	2	6
SADD50300320500	32 x 1/2"	2	6
SADD50300320750	32 x 3/4"	2	6
SADD50300321000	32 x 1"	2	6
SADD50300400500	40 x 1/2"	2	6
SADD50300400750	40 x 3/4"	2	6
SADD50300401000	40 x 1"	2	6
SADD50300500500	50 x 1/2"	2	6
SADD50300500750	50 x 3/4"	2	6
SADD50300501000	50 x 1"	2	6
SADU50300501250	50 x 1.1/4"	4	6

Clamp Saddle - Un-reinforced & O'Ring seal gasket - 4 Bolt



503

CODE	d x BSP	BOLTS	PN
SADD50300630500	63 x 1/2"	4	6
SADD50300630750	63 x 3/4"	4	6
SADD50300631000	63 x 1"	4	6
SADD50300631250	63 x 1.1/4"	4	6
SADD50300631500	63 x 1.1/2"	4	6
SADU50300750500	75 x 1/2"	4	6
SADU50300750750	75 x 3/4"	4	6
SADU50300751000	75 x 1"	4	6
SADU50300751250	75 x 1.1/4"	4	6
SADU50300751500	75 x 1.1/2"	4	6
SADU50300752000	75 x 2"	4	6
SADU50300900500	90 x 1/2"	4	6
SADU50300900750	90 x 3/4"	4	6
SADU50300901000	90 x 1"	4	6
SADU50300901250	90 x 1.1/4"	4	6
SADU50300901500	90 x 1.1/2"	4	6
SADU50300902000	90 x 2"	4	6
SADU50301100500	110 x 1/2"	4	6
SADU50301100750	110 x 3/4"	4	6
SADU50301101000	110 x 1"	4	6
SADU50301101250	110 x 1.1/4"	4	6
SADU50301101500	110 x 1.1/2"	4	6
SADU50301102000	110 x 2"	4	6
SADD50301103000	110 x 3"	4	6

FITTING WRENCH



SPA

d	CODE
16 - 63	COMPSPA00160063
63 - 110	COMPSPA00630110
50 - 110	COMPSPA00500110

# IRRIGATION

## PRODUCTS



# IRRIGATION **PRODUCTS**



## **Did you know?**

When using Astore Keymaks fittings you can save up to 45% in some previous error metal Piping Networks!



# IRRIGATION PRODUCTS

Astore Keymak offers a complete range of high-quality irrigation products designed to meet the diverse needs of agricultural, landscaping and industrial applications across sub-Saharan Africa. As a trusted and experienced supplier, we provide solutions tailored to improve water conveyance efficiency, ensuring success in various climates and terrains. Partnering with renowned global brands, we guarantee reliable and durable irrigation products.



## **Irritec Air Release Valves**

Single and double effect  
Available in sizes 1" and 2"

## **Turf Valves**

Available in sizes ¾" and 1"

## **Turf Valve Keys**

Available in ¾"

## **Valve Boxes**

## **Polypropylene Threaded Irrigation Fittings**

## **Insert Fittings**

## **LDPE Pipe (LDPE) NON-SABS (For use with insert fittings)**

## **Accessories**

Hose menders are available in the following sizes:

(10mm / 12.5mm / 25mm / 32mm)



## Unidelta Valves



### Unidelta Valves

The Unidelta polypropylene ball valves are specifically designed to be joined to polyethylene pipes and/or threaded connections. They are normally used for the conveying of water with a maximum pressure of 16 bar at 20°

#### **ADVANTAGES**

##### **Materials used**

The Unidelta valve is made exclusively of plastic. Therefore, there is no risk of oxidation and corrosion typical to metallic materials.

##### **High resistance to pressure**

The Unidelta valves can work with a maximum pressure of 16 bar at 20°C.

##### **Design**

The Unidelta valves have a compact design that allows them to be installed even in confined spaces. Another advantage is that the handle can be removed from the valve body.

##### **Ease of assembly**

The Unidelta valves are extremely easy to assemble. Also, thanks to the innovative DeltOne system for 050, 063 diameter the connection to the larger diameter pipe is easier.

##### **Protection against UV rays**

The materials of the exposed components of the Unidelta valves are UV stabilized so they can also be installed outdoors.

##### **Two-way flow**

The Unidelta valves do not require a specific direction of water flow so they can be installed regardless of the direction of the flow.


##### **Inspecting the ball**


The valve ball can be inspected. This allows you to easily clean the ball from any deposits formed during use.





# UNIDELTA COMPRESSION VALVE




COMP - 570-	
COMPRESSION	
BALL VALVE	
UNIDELTA CODE 1070	
	
d x d	CODE
20 x 20	COMP5700020
25 x 25	COMP5700025
32 x 32	COMP5700032
40 x 40	COMP5700040
50 x 50	COMP5700050
63 x 63	COMP5700063

COMP - 572-	
COMPRESSION	
BALL VALVE	
UNIDELTA CODE 1072	
	
d x BSP	CODE
20 x 1/2"	COMP57200200500
25 x 3/4"	COMP57200250750
32 x 1"	COMP57200321000
40 x 1.1/4"	COMP57200401250
50 x 1.1/2"	COMP57200501500
63 x 2"	COMP57200632000

COMP - 580-	
COMPRESSION	
CHECK VALVE	
UNIDELTA CODE 1076	
	
d x d	CODE
20 x 20	COMP5800020
25 x 25	COMP5800025
32 x 32	COMP5800032
40 x 40	COMP5800040
50 x 50	COMP5800050
63 x 63	COMP5800063


COMP - 578-	
COMPRESSION	
STOP COCK VALVE	
UNIDELTA CODE 1078	
	
d x d	CODE
20 x 20	COMP5780020
25 x 25	COMP5780025
32 x 32	COMP5780032


COMP - 579-	
COMPRESSION	
STOP COCK VALVE	
UNIDELTA CODE 1077	
	
d x d	CODE
3/4"	COMP5790750
1"	COMP5791000


# TURF & COMMERCIAL IRRIGATION EQUIPMENT





## AGRICULTURE/TURF IRRITEC VALVES

VALO-SSE	
AIR RELEASE VALVE	
SINGLE EFFECT	
	
BSP	CODE
1"	VALOSSE1000
2"	VALOSSE2000

TURF VALVE KEY	
TURF KEY	
	
BSP	CODE
3/4"	VALOKEY0750

VALO-VB	
VALVE BOXES	
	
Size	CODE
150 Round	VALOV8150
250 Round	VALOV8250
430 X 330 RECT	VALOV843004300330
380 X 550 RECT	VALOV855005500380

VALO-SDE	
AIR RELEASE VALVE	
DOUBLE EFFECT	
	
BSP	CODE
1"	VALOSDE1000
2"	VALOSDE2000

TURF VALVE	
TURF VALVE	
	
BSP	CODE
3/4"	VALOTURF0750
1"	VALOTURF1000

# POLYPROPYLENE THREADED IRRIGATION FITTINGS



90° TEE THREAD	
605	
BSP X BSP X BSP	CODE
½" x ½" x ½"	PPHF60505000500
½" x ¾" x ½"	PPHF60507500500
¾" x ¾" x ¾"	PPHF60507500750
¾" x 1" x ¾"	PPHF60510000750
1" x 1" x 1"	PPHF60510001000
1" x 1½" x 1"	PPHF60510001250
1½" x 1½" x 1½"	PPHF60512501250

NIPPLES	
607	
BSP	CODE
½" X ½"	PPHF6070500
¾" X ¾"	PPHF6070750
1" X 1"	PPHF6071000
1¼" X 1¼"	PPHF6071250
1½" X 1½"	PPHF6071500
2" X 2"	PPHF6072000
*2½"	PPHF6072500
3" X 3"	PPHF6073000
4" X 4"	PPHF6074000

THREADED CAP	
609	
BSP	CODE
½"	PPHF6090500
¾"	PPHF6090750
1"	PPHF6091000
1¼"	PPHF6091250
1½"	PPHF6091500
2"	PPHF6092000

THREADED PLUG	
610	
BSP	CODE
½"	PPHF6100500
¾"	PPHF6100750
1"	PPHF6101000
1¼"	PPHF6101250
1½"	PPHF6101500
2"	PPHF6102000
2½"	PPHF6102500
*3	PPHF6103000

ENLARGING PIECE MALE / FEMALE	
625	
BSP X BSP	CODE
½" X ¾"	PPHF62505000750
½" X 1"	PPHF62505001000
½" X 1¼"	PPHF62505001250
½" X 1½"	PPHF62505001500
¾" X 1"	PPHF62507501000
¾" X 1¼"	PPHF62507501250
¾" X 1½"	PPHF62507501500
¾" X 2"	PPHF62507502000
1" X 1¼"	PPHF62510001250
1" X 1½"	PPHF62510001500
1" X 2"	PPHF62510002000
1½" X 1½"	PPHF62512501500
1½" X 2"	PPHF62512502000
1½" X 2	PPHF62515002000

REDUCING NIPPLES	
619	
BSP	CODE
¾" X ½"	PPHF61907500500
1" X ½"	PPHF61910000500
1" X ¾"	PPHF61910000750
1¼" X ½"	PPHF61912500500
1¼" X ¾"	PPHF61912500750
1¼" X 1"	PPHF61912501000
1½" X ½"	PPHF61915000500
1½" X ¾"	PPHF61915000750
1½" X 1"	PPHF61915001000
1½" X 1¼"	PPHF61915001250
2" X ½"	PPHF61920000500
2" X ¾"	PPHF61920000750
2" X 1"	PPHF61920001000
2" X 1½"	PPHF61920001250
2" X 1½"	PPHF61920001500

SOCKET	
620	
BSP	CODE
½"	PPHF6200500
¾"	PPHF6200750
1"	PPHF6201000
1¼"	PPHF6201250
1½"	PPHF6201500
2"	PPHF6202000
*2½"	PPHF6202500
*3	PPHF6203000

REDUCING SOCKET	
621	
BSP	CODE
¾" X ½"	PPHF62107500500
1" X ¾"	PPHF62110000750
1¼" X 1"	PPHF62112501000
1½" X 1¼"	PPHF62115001250
2" X 1½"	PPHF62120001500
2½" X 2"	PPHF62125002000
3" X 2½"	PPHF62130002500

REDUCING MALE/FEMALE	
622	
BSP	CODE
½" X ⅝"	PPHF62205000375
¾" X ½"	PPHF62207500500
1" X ½"	PPHF62210000500
1" X ¾"	PPHF62210000750
1¼" X ¾"	PPHF62212500750
1¼" X 1"	PPHF62212501000
1½" X 1¼"	PPHF62215001250
2" X 1½"	PPHF62220001500

Black Polypropylene (PP)  
PN 10 at 20° C  
According to UN17/1  
Suitable for foods-fluids  
conforming with Italian  
and other countries  
standards

REDUCING BUSH MALE - FEMALE	
623	
BSP	CODE
½" X ¾"	PPHF62305000375
½" X ¾"	PPHF62307500500
1" X ½"	PPHF62310000500
1" X ¾"	PPHF62310000750
1¼" X ½"	PPHF62312500500
1¼" X ¾"	PPHF62312500750
1¼" X 1"	PPHF62312501000
1½" X ¾"	PPHF62315000750
1½" X 1"	PPHF62315001000
1½" X 1¼"	PPHF62315001250
2" X ¾"	PPHF62320000750
2" X 1"	PPHF62320001000
2" X 1¼"	PPHF62320001250
2" X 1½"	PPHF62320001500
2½" X 2"	PPHF62325002000
3" X 2"	PPHF62330002000
3" X 2½"	PPHF62330002500

90° ELBOW	
626	
BSP	CODE
½"	PPHF6260500
¾"	PPHF6260750
1"	PPHF6261000
1¼"	PPHF6261250
1½"	PPHF6261500
2"	PPHF6262000
2½"	PPHF6262500
*3	PPHF6263000

MALE - FEMALE 90° ELBOW	
627	
BSP	CODE
½"	PPHF62700200500
¾"	PPHF62700250750
1"	PPHF62700321000

90° TEE	
630	
BSP	CODE
½"	PPHF6300500
¾"	PPHF6300750
1"	PPHF6301000
1¼"	PPHF6301250
1½"	PPHF6301500
2"	PPHF6302000
2½"	PPHF6302500
*3	PPHF6303000





\*NON STOCK ITEMS BUT AVAILABLE  
ON REQUEST







# INSERT FITTINGS

DESCRIPTION	SIZE	CODE
<b>431</b> <b>NIC</b> 	10	INST43180010
	12	INST43180012
	15	INST43180015
	20	INST43180020
	25	INST43180025
	32	INST43180032
	40	INST43180040
	50	INST43180050
	65	INST43180065
	80	INST43180080
INSERT COUPLING		
<b>433</b> <b>NIT</b> 	10	INST43380010
	12	INST43380012
	15	INST43380015
	20	INST43380020
	25	INST43380025
	32	INST43380032
	40	INST43380040
	50	INST43380050
	65	INST43380065
	80	INST43380080
INSERT TEE		
<b>438</b> <b>NFRT</b> 	20X15	INST438800200015
	25X15	INST438800250015
	25X20	INST438800250020
	32X20	INST438800320020
	32X25	INST438800320025
	40X20	INST438800400020
	40X25	INST438800400025
	40X32	INST438800400032
	50X20	INST438800500020
	50X25	INST438800500025
	50X32	INST438800500032
	50X40	INST438800500040
INSERT FEMALE REDUCING TEE		
<b>445</b> <b>NMRT</b> 	20X15	INST445800200015
	25X15	INST445800250015
	25X20	INST445800250020
	32X15	INST445800320015
	32X20	INST445800320020
	32X25	INST445800320025
	40X15	INST445800400015
	40X20	INST445800400020
	40X25	INST445800400025
	40X32	INST445800400032
	50X15	INST445800500015
	50X20	INST445800500020
	50X25	INST445800500025
	50X32	INST445800500032
	50X40	INST445800500040
INSERT MALE REDUCING TEE		
<b>449</b> 	15	INST44980015
	20	INST44980020
	40	INST44980040
	20X12	
	20X15	
INSERT FEMALE ADAPTOR		

DESCRIPTION	SIZE	CODE
<b>432</b> <b>NMA</b> 	15	INST43280015
	20	INST43280020
	25	INST43280025
	32	INST43280032
	40	INST43280040
	50	INST43280050
	65	INST43280065
	80	INST43280080
INSERT MALE ADAPTOR		
<b>436</b> <b>NFE</b> 	15	INST43680015
	20	INST43680020
	25	INST43680025
	32	INST43680032
	40	INST43680040
	50	INST43680050
INSERT		
<b>443</b> <b>NME</b> 	15	INST44380015
	20	INST44380020
	25	INST44380025
	32	INST44380032
	40	INST44380040
	50	INST44380050
INSERT MALE ELBOW		
<b>437</b> <b>NFT</b> 	15	INST43780015
	20	INST43780020
	25	INST43780025
	32	INST43780032
	40	INST43780040
	50	INST43780050
INSERT FEMALE TEE		
<b>444</b> <b>NMT</b> 	15	INST44480015
	20	INST44480020
	25	INST44480025
	32	INST44480032
	40	INST44480040
	50	INST44480050
INSERT MALE TEE		
<b>446</b> <b>NMRE</b> 	15X20	INST446800150020
	15X25	INST446800150025
	20X25	INST446800200025
	50X40	INST446800500040
INSERT TO MALE REDUCING ELBOW		
<b>447</b> <b>NFRE</b> 	20X15	INST447800200015
INSERT FEMALE REDUCING ELBOW		
<b>448</b> 	15X12	INST448800150012
	20X12	INST448800200012
	20X15	INST448800200015
	25X20	INST448800250020
	32X25	INST448800320025
	40X32	INST448800400032
	50X40	INST448800500040
INSERT MALE REDUCING ADAPTOR		

# INSERT FITTINGS

DESCRIPTION	SIZE	CODE
<b>434</b>  INSERT ELBOW	<b>NIE</b> 10	INST434B0010
	12	INST434B0012
	15	INST434B0015
	20	INST434B0020
	25	INST434B0025
	32	INST434B0032
	40	INST434B0040
	50	INST434B0050
	65	INST434B0065
	80	INST434B0080
<b>441</b>  INSERT PLUG	<b>NIP</b> 12	INST441B0012
	15	INST441B0015
	20	INST441B0020
	25	INST441B0025
	32	INST441B0032
	40	INST441B0040
	50	INST441B0050
	65	INST441B0065
	80	INST441B0080
<b>435</b>  INSERT REDUCING COUPLINGS	<b>NIRC</b> 12X10	INST435B00120010
	15X10	INST435B00150010
	15X12	INST435B00150012
	20X12	INST435B00200012
	20X15	INST435B00200015
	25X15	INST435B00250015
	25X20	INST435B00250020
	32X15	INST435B00320015
	32X20	INST435B00320020
	32X25	INST435B00320025
	40X15	INST435B00400015
	40X20	INST435B00400020
	40X25	INST435B00400025
	40X32	INST435B00400032
	50X15	INST435B00500015
	50X20	INST435B00500020
	50X25	INST435B00500025
	50X32	INST435B00500032
	50X40	INST435B00500040
	65X50	INST435B00650050
	80X50	INST435B00800050
	80X65	INST435B00800065
<b>439</b>  INSERT REDUCING TEE	<b>NIRT</b> 12X10	INST439B00120010
	15X10	INST439B00150010
	15X12	INST439B00150012
	20X15	INST439B00200015
	25X15	INST439B00250015
	25X20	INST439B00250020
	32X15	INST439B00320015
	32X20	INST439B00320020
	32X25	INST439B00320025
	40X15	INST439B00400015
	40X20	INST439B00400020
	40X25	INST439B00400025
	40X32	INST439B00400032
	50X15	INST439B00500015
	50X20	INST439B00500020
	50X25	INST439B00500025
	50X32	INST439B00500032
	50X40	INST439B00500040

DESCRIPTION	SIZE	CODE
<b>B.S.P.THREADED NYLON FITTINGS</b>		
<b>464</b>  REDUCING BUSH	<b>NRB</b> 20X15	INST464B00200015
	25X15	INST464B00250015
	25X20	INST464B00250020
	32X15	INST464B00320015
	32X20	INST464B00320020
	32X25	INST464B00320025
	40X15	INST464B00400015
	40X20	INST464B00400020
	40X25	INST464B00400025
	40X32	INST464B00400032
	50X15	INST464B00500015
	50X20	INST464B00500020
	50X25	INST464B00500025
	50X32	INST464B00500032
	50X40	INST464B00500040
<b>465</b>  TAPER THREADED PLUG *PRICE FOR BLACK RANGE (465B)	<b>BSP</b> 15	INST465B0015
	20	INST465B0020
	25	INST465B0025
	32	INST465B0032
	40	INST465B0040
	50	INST465B0050
<b>466</b>  HEX BARREL NIPPLE	<b>NBN</b> 15	INST466B0015
	20	INST466B0020
	25	INST466B0025
	32	INST466B0032
	40	INST466B0040
	50	INST466B0050
<b>467</b>  REDUCED BARRLE NIPPLE	<b>NRBN</b> 20X15	INST467B00200015
	25X15	INST467B00250015
	25X20	INST467B00250020
	32X25	INST467B00320025
<b>468</b>  SOCKET (Threaded)	15	INST468B0015
	20	INST468B0020
	25	INST468B0025
<b>469</b>  REDUCING SOCKET	20x15	INST469B00200015
	25x15	INST469B00250015
	25x20	INST469B00250020





# AGRU PE100 - RC



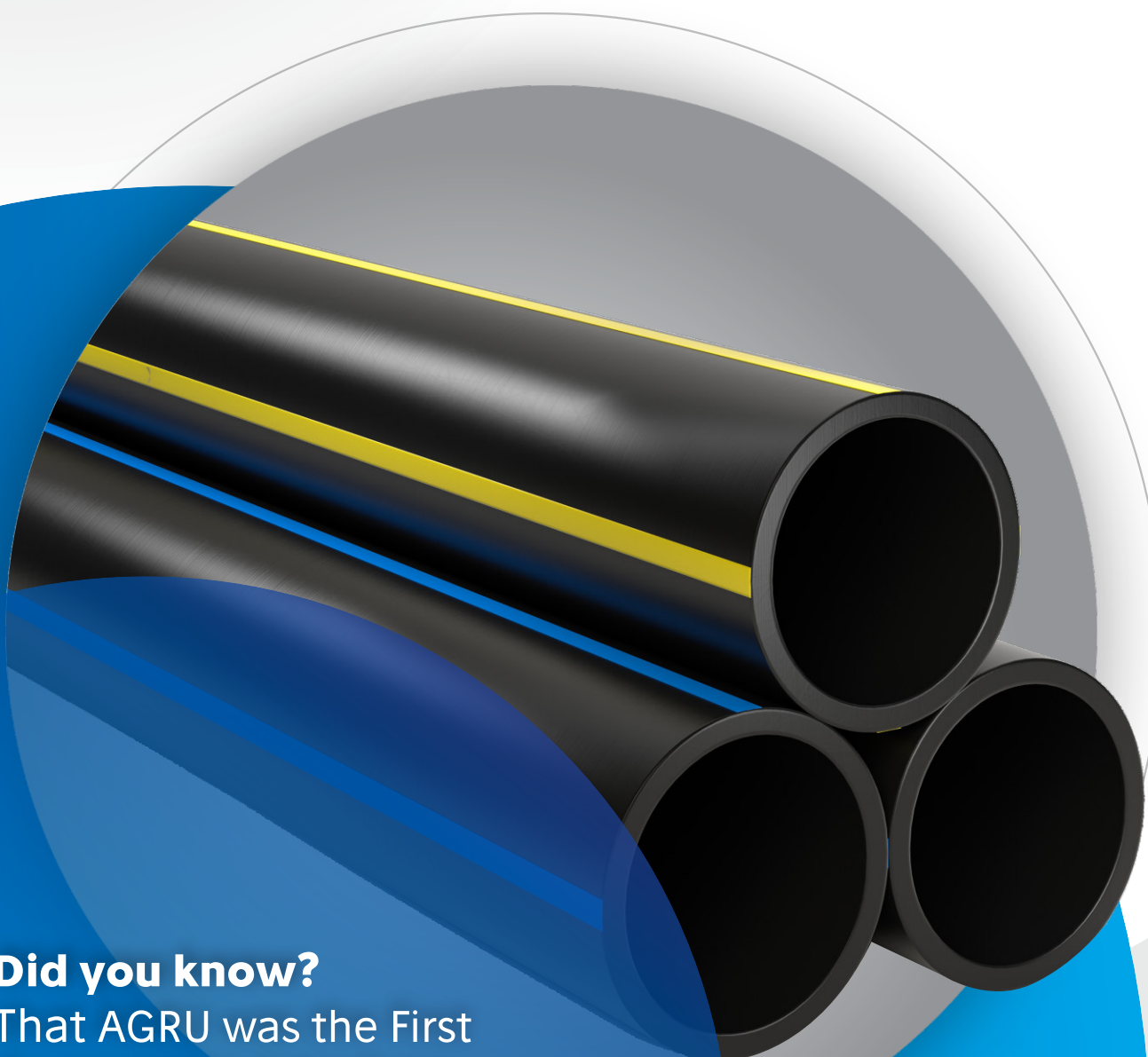
## POLYETHYLENE



AGRU PE100 - RC



# AGRU POLYETHYLENE **PRODUCTS**

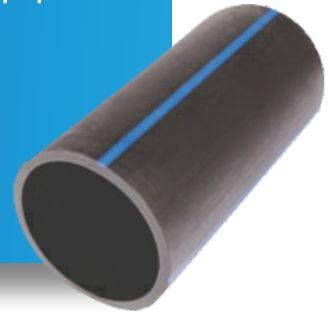


## **Did you know?**

That AGRU was the First  
Company to Introduce  
PE 100 RC!

# POLYETHYLENE (PE100-RC)

**PE100-RC** is a type of high-density polyethylene pipe and fittings that are used for various applications such as Water supply, gas distribution and Sewer systems. It is known for its strength, durability and resistance to light chemicals and UV radiation. Temperature range -40 to 60 deg C



Astore Keymak offers the full comprehensive range of thermoplastics that make customers from all over sub-Saharan Africa successful in a wide range of industries. As a reliable experienced supplier of **quality products**, we offer everything from injection moulded fittings and extruded pipe to semi-finished products from a single internationally recognized supplier.

## Supply Range

Full Pressure rated injection moulded Fittings in the following sizes  
Dia 20 TO 500MM in PN10 and Pn16.  
Pipes in PE100-RC Dia 20- 3250MM OD in PN4 TO Pn25  
Electrofusion fittings in Dia 20-225 Pn16  
Socket Fusion 20-110mm  
Double containment piping systems



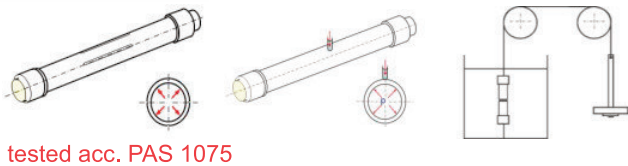
## Semi-finished products

Sheets in 2x1,3x1.5 and 4x2 in various thicknesses in PE100-RC  
Concrete protective liners 4x2 in various thicknesses  
Hydro click Concrete protective system -in Polyethylene 80 (Blue)  
Solid Bar in Dia 15-640mm  
Welding Rod in Dia 3,4 and 5mm Round and 5x3 Triangular.

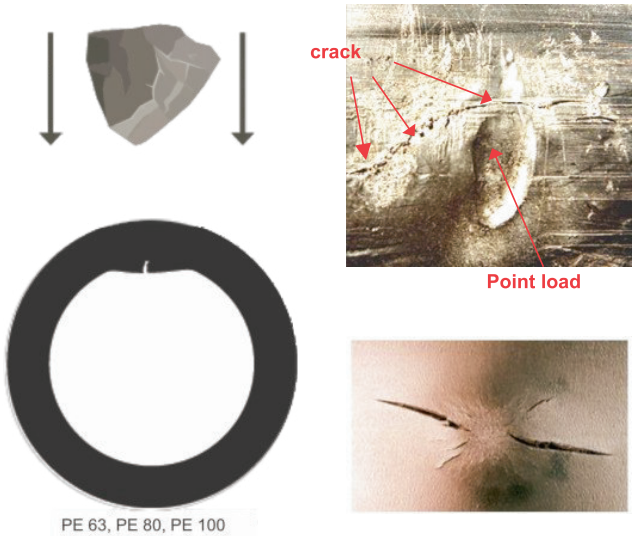
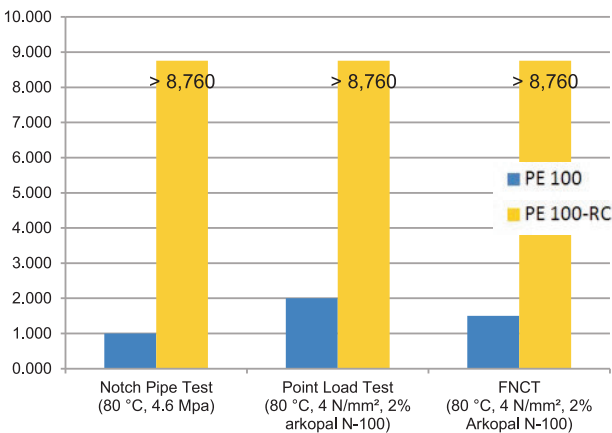
# AGRULINE

PE 100 RC PIPING SYSTEMS  
FOR CONVEYING OF  
POTABLE WATER,  
SEWAGE WATER AND GAS

## BENEFITS OF PE 100-RC PIPING



## OUTSTANDING RESISTANCE AGAINST SLOW CRACK GROWTH



# AGRULINE ELECTRO-FUSION FITTINGS



PE100 Electro - Fusion Socket AGRU CODE 173 FOR PE80 AND PE100 - pipes in SDR17/17.6/11/7.4	
d	CODE
20	HDEF1730020011
25	HDEF1730025011
32	HDEF1730032011
40	HDEF1730040011
50	HDEF1730050011
63	HDEF1730063011
75	HDEF1730075011
90	HDEF1730090011
110	HDEF1730110011
125	HDEF1730125011
140	HDEF1730140011
160	HDEF1730160011
200	HDEF1730200011
225	HDEF1730225011
250	HDEF1730250011
280	HDEF1730280011
315	HDEF1730315011
355	HDEF1730355011
400	HDEF173040011
450	HDEF173045011
500	HDEF173050011
630	HDEF173063011
710	HDEF173071011

PE100 Electro - Fusion Socket AGRU CODE 173 FOR PE80 AND PE100 - pipes in SDR17	
d	CODE
90	HDEF1730090017
110	HDEF1730110017
125	HDEF1730125017
140	HDEF1730140017
160	HDEF1730160017
180	HDEF1730180017
200	HDEF1730200017
225	HDEF1730225017
250	HDEF1730250017
280	HDEF1730280017
315	HDEF1730315017
355	HDEF1730355017
400	HDEF173040017
450	HDEF173045017
500	HDEF173050017
560	HDEF173056017
630	HDEF173063017
710	HDEF1730710017
800	HDEF173080017
900	HDEF173090017
1000	HDEF173100017
1200	HDEF173120017
1400	HDEF173140017

\*NON STOCK ITEMS BUT AVAILABLE  
ON REQUEST

PE 100 ELECTRO FUSION ELBOWS 45 AGRU CODE 170 FOR PE80 AND PE100 - pipes in SDR17/17.6/11/7.4	
d	CODE
20	HDEF170002011
25	HDEF170002511
32	HDEF170003211
40	HDEF170004011
50	HDEF170005011
63	HDEF170006311
75	HDEF170007511
90	HDEF170009011
110	HDEF170011011
125	HDEF170012511
140	HDEF170014011
160	HDEF170016011
180	HDEF170018011
200	HDEF170020011
225	HDEF170022511

PE 100 ELECTRO FUSION END CAPS AGRU CODE 174 FOR PE80 AND PE100 - pipes in SDR17/17.6/11/7.4	
d	CODE
20	HDEF174002011
25	HDEF174002511
32	HDEF174003211
40	HDEF174004011
50	HDEF174005011
63	HDEF174006311
75	HDEF174007511
90	HDEF174009011
110	HDEF174011011
125	HDEF174012511
140	HDEF174014011
160	HDEF174016011
180	HDEF174018011
200	HDEF174020011
225	HDEF174022511
250	HDEF174025011
280	HDEF174028011
315	HDEF174031511

PE 100 ELECTRO FUSION ELBOWS 90 AGRU CODE 171 FOR PE80 AND PE100 - pipes in SDR17/17.6/11/7.4	
d	CODE
20	HDEF171002011
25	HDEF171002511
32	HDEF171003211
40	HDEF171004011
50	HDEF171005011
63	HDEF171006311
75	HDEF171007511
90	HDEF171009011
110	HDEF171011011
125	HDEF171012511
140	HDEF171014011
160	HDEF171016011
180	HDEF171018011
200	HDEF171020011
225	HDEF171022511

PE 100 ELECTRO FUSION TEES AGRU CODE 176 FOR PE80 AND PE100 - pipes in SDR17/17.6/11/7.4	
d	CODE
20	HDEF176002011
25	HDEF176002511
32	HDEF176003211
40	HDEF176004011
50	HDEF176005011
63	HDEF176006311
75	HDEF176007511
90	HDEF176009011
110	HDEF176011011
125	HDEF176012511
140	HDEF176014011
160	HDEF176016011
180	HDEF176018011
200	HDEF176020011
225	HDEF176022511

PE100 Electro - Fusion Injection Moulding E- Tee Reduced AGRU CODE 175 PE 100-RC Black pipes in SDR 17/17.6/11/7.4	
d	CODE
25x20	HDEF1750025002011
32x20	HDEF1750032002011
32x25	HDEF1750032002511
40x20	HDEF1750040002011
40x25	HDEF1750040002511
40x32	HDEF1750040003211
50x20	HDEF1750050002011
50x25	HDEF1750050002511
50x32	HDEF1750050003211
50x40	HDEF1750050004011
63x20	HDEF1750063002011
63x25	HDEF1750063002511
63x32	HDEF1750063003211
63x40	HDEF1750063004011
63x50	HDEF1750063005011
75x50	HDEF1750075005011
75x63	HDEF1750075005011
90x50	HDEF1750090003211
90x63	HDEF1750090006311
110x63	HDEF1750110006311
110x90	HDEF1750110009011
125x63	HDEF1750125006311
125x90	HDEF1750125009011
125x110	HDEF1750125011011
160x63	HDEF1750160006311
160x90	HDEF1750160009011
160x110	HDEF1750160011011
160x125	HDEF1750160012511



# AGRULINE ELECTRO-FUSION FITTINGS



<b>PE100</b> Electro - Fusion Adaptor <b>ELBOWS 45</b> With female threaded brass insert <b>AGRU CODE 189</b>	
<b>FOR PE80 AND PE100 - pipes</b> <b>in SDR 17/17.6/11/7.4</b>	
d X BSP	CODE
20 x 1/2	HDEF1890020050011
25 x 3/4	HDEF1890025075011
32 x 1	HDEF1890032100011
40 x 1 1/4	HDEF1890040125011
50 x 1 1/2	HDEF1890050150011
63 x 2	HDEF1890063200011

<b>PE100</b> Electro - Fusion Adaptor <b>ELBOWS 90</b> With male threaded brass insert <b>AGRU CODE 11868</b>	
<b>FOR PE80 AND PE100 - pipes in</b> <b>SDR 17/17.6/11/7.4</b>	
d X BSP	CODE
20x1/2	HDEF1860020050011
25x3/4	HDEF1860025075011
32x1	HDEF1860032100011
40x1,1/4	HDEF1860040125011
50x1,1/2	HDEF1860050150011
63x2	HDEF1860063200011

<b>PE 100 ELECTRO FUSION</b> <b>REDUCERS</b> <b>AGRU CODE 177</b> <b>FOR PE80 AND PE100 -</b> <b>pipes in</b> <b>SDR17/17.6/11/7.4</b>	
d X BSP	CODE
25 x 20	HDEF1770025002011
32 x 20	HDEF1770032002011
32 x 25	HDEF1770032002511
40 x 20	HDEF1770040002011
40 x 25	HDEF1770040002511
40 x 32	HDEF1770040003211
50 x 25	HDEF1770050002511
50 x 32	HDEF1770050003211
50 x 40	HDEF1770050004011
63 x 32	HDEF1770063003211
63 x 40	HDEF1770063004011
63 x 50	HDEF1770063005011
75 x 50	HDEF1770075005011
75 x 63	HDEF1770075006311
90 x 63	HDEF1770090006311
110 x 63	HDEF1770110006311
110 x 90	HDEF1770110009011
125X90	HDEF1770125009011
125X110	HDEF1770125011011
160X90	HDEF1770160009011
160X110	HDEF1770160011011
225X160	HDEF1770225016011

o Also available with stainless steel insert

<b>PE100</b> Electro - Fusion Adaptor <b>ELBOWS 45</b> With male threaded brass insert <b>AGRU CODE 188</b>	
<b>FOR PE 80 AND PE 100 -</b> <b>pipes in SDR</b> <b>17/17.6/11/7.4</b>	
d X BSP	CODE
20 x 1/2	HDEF1880020050011
25 x 3/4	HDEF1880025075011
32 x 1	HDEF1880032100011
40 x 1 1/4	HDEF1880040125011
50 x 1 1/2	HDEF1880050150011
63 x 2	HDEF1880063200011

<b>PE100</b> Electro - Fusion Adaptor <b>ELBOWS 90</b> With female threaded brass insert	
<b>AGRU CODE 118788</b> <b>FOR PE80 AND PE100 -</b> <b>pipes in SDR17/17.6/11/7.4</b>	
d X BSP	CODE
20x1/2	HDEF1870020050011
25x3/4	HDEF1870025075011
32x1	HDEF1870032100011
40x1,1/4	HDEF1870040125011
50x1,1/2	HDEF1870050150011
63x2	HDEF1870063200011

<b>PE100</b> Electro - Fusion <b>Adaptor Socket</b> With male threaded brass insert <b>AGRU</b> <b>CODE 118587</b> <b>FOR PE80 AND PE100 - pipes in</b> <b>SDR17/17.6/11/7.4</b>	
d X BSP	CODE
20x1/2	HDEF1850020050011
25x3/4	HDEF1850025075011
32x1	HDEF1850032100011
40x1,1/4	HDEF1850040125011
50x1,1/2	HDEF1850050150011
63x2	HDEF1850063200011

<b>PE 100 Tapping Saddles</b> With electro-fusion sealing cap integrated welding module <b>AGRU CODE 278</b> <b>FOR PE 80 AND PE 100 - pipes in</b> <b>S-5/SDR11</b>	
d X BSP	CODE
40 x 20	HDEF2780040002011
40 x 25	HDEF2780040002511
40 x 32	HDEF2780040003211
63 x 20	HDEF2780063002011
63 x25	HDEF2780063002511
63 x 32	HDEF2780063003211
63 x 40	HDEF2780063004011
63 x 63	HDEF2780063006311
90 x 20	HDEF2780090002011
90 x 25	HDEF2780090002511
90 x 32	HDEF2780090003211
90 x 40	HDEF2780090004011
90 x 63	HDEF2780090006311
110 x 20	HDEF2780110002011
110 x 25	HDEF2780110002511
110 x 32	HDEF2780110003211
110 x 40	HDEF2780110004011
110 x 63	HDEF2780110006311
125 x 20	HDEF2780125002011
125 x 25	HDEF2780125002511
125 x 32	HDEF2780125003211
125 x 40	HDEF2780125004011
125 x 63	HDEF2780125006311
160 x 20	HDEF2780160002011
160 x 25	HDEF2780160002511
160 x 32	HDEF2780160003211
160 x 40	HDEF2780160004011
160 x 63	HDEF2780160006311
180 x 25	HDEF2780180002511
180 x 32	HDEF2780180003211
180 x 63	HDEF2780180006311
200 x 20	HDEF2780200002011
200 x 25	HDEF2780200002511
200 x 32	HDEF2780200003211
200 x 40	HDEF2780200004011
200 x 63	HDEF2780200006311
225 x 25	HDEF2780225002511
225 x 32	HDEF2780225003211
225 x 63	HDEF2780225006311
250 x 32	HDEF2780250003211
250 x 63	HDEF2780250006311
315 x 63	HDEF2780315006311

<b>PE100</b> Electro - Fusion Adaptor <b>Socket</b> With female threaded brass insert <b>AGRU CODE 184</b> <b>FOR PE80 AND PE100 -</b> <b>pipes in SDR17/17.6/11/7.4</b>	
d X BSP	CODE
20x1/2	HDEF1840020050011
25x3/4	HDEF1840025075011
32x1	HDEF1840032100011
40x1,1/4	HDEF1840040125011
50x1,1/2	HDEF1840050150011
63x2	HDEF1840063200011



# AGRULINE ELECTRO-FUSION FITTINGS



PE 100	
ELECTRO-FUSION SPIGOT SADDLE SYSTEM TOPLOAD.	
Machine / Straps required	
AGRU CODE 289	
PE 100-RC BLACK PN16	
d x d	CODE
355 x 90	HDEF2890355009011
355 x 100	HDEF2890355010011
355 x 125	HDEF2890355012511
355 x 160	HDEF2890355016011
355 x 200	HDEF2890355020011
400 x 63	HDEF2890400006311
400 x 90	HDEF2890400009011
400 x 100	HDEF2890400010011
400 x 125	HDEF2890400012511
400 x 160	HDEF2890400016011
400 x 250	HDEF2890400025011
450 x 63	HDEF2890450006311
450 x 90	HDEF2890450009011
450 x 110	HDEF2890450011011
450 x 125	HDEF2890450012511
450 x 160	HDEF2890450016011
500 x 63	HDEF2890500006311
500 x 90	HDEF2890500009011
500 x 100	HDEF2890500010011
500 x 125	HDEF2890500012511
500 x 160	HDEF2890500016011
500 x 200	HDEF2890500020011
500 x 225	HDEF2890500022511
560 x 90	HDEF2890560009011
560 x 110	HDEF2890560011011
560 x 125	HDEF2890560012511
560 x 160	HDEF2890560016011
560 x 180	HDEF2890560018011
560 x 225	HDEF2890560022511
560 x 250	HDEF2890560025011
560 x 280	HDEF2890560028011
560 x 315	HDEF2890560031511
630 x 63	HDEF2890630006311
630 x 90	HDEF2890630009011
630 x 110	HDEF2890630011011
630 x 125	HDEF2890630012511
630 x 160	HDEF2890630016011
630 x 200	HDEF2890630020011
630 x 280	HDEF2890630028011
630 x 315	HDEF2890630031511
710 x 90	HDEF2890710009011
710 x 110	HDEF2890710011011
710 x 225	HDEF2890710022511
800 x 125	HDEF2890800012511
800 x 160	HDEF2890800016011
800 x 225	HDEF2890800022511
800 x 250	HDEF2890800025011
800 x 315	HDEF2890800031511
900 x 280	HDEF2890900028011
1000 x 160	HDEF2891000016011
1000 x 200	HDEF2891000020011
1000 x 225	HDEF2891000022511
1000 x 315	HDEF2891000031511
1000 x 355	HDEF2891000035511
1200 x 110	HDEF2891200011011
1200 x 315	HDEF2891200031511
1200 x 355	HDEF2891200035511
1400 x 110	HDEF2891400011011
1600 x 450	HDEF2891400040011
1800 x 500	HDEF2891600045017
2000 x 560	HDEF2892000056017
2250 x 630	HDEF2892250063017
2500 x 710	HDEF2892500071017

PE 100	
ELECTRO-FUSION SPIGOT SADDLES	
MOP water 16bar bottom part screwable	
Electrofus injection moulded	
PE 100-RC BLACK PN16	
d x d	CODE
90 x 20	HDEF2880090002011
90 x 32	HDEF2880090003211
90 x 40	HDEF2880090004011
90 x 63	HDEF2880090006311
110 x 20	HDEF2880110002011
110 x 32	HDEF2880110003211
110 x 40	HDEF2880110004011
110 x 63	HDEF2880110006311
125 x 20	HDEF2880125002011
125 x 32	HDEF2880125003211
125 x 40	HDEF2880125004011
125 x 63	HDEF2880125006311
140 x 20	HDEF2880140002011
140 x 32	HDEF2880140003211
140 x 40	HDEF2880140004011
140 x 63	HDEF2880140006311
160 x 32	HDEF2880160003211
160 x 40	HDEF2880160004011
160 x 50	HDEF2880160005011
160 x 63	HDEF2880160006311
160 x 90	HDEF2880160009011
160 x 110	HDEF2880160011011
180 x 32	HDEF2880180003211
180 x 40	HDEF2880180004011
180 x 50	HDEF2880180005011
180 x 63	HDEF2880180006311
180 x 90	HDEF2880180009011
180 x 110	HDEF2880180011011
200 x 20	HDEF2880200002011
200 x 32	HDEF2880200003211
200 x 40	HDEF2880200004011
200 x 63	HDEF2880200006311
225 x 32	HDEF2880225003211
225 x 40	HDEF2880225004011
225 x 50	HDEF2880225005011
225 x 63	HDEF2880225006311
250 x 50	HDEF2880250005011
250 x 63	HDEF2880250006311
250 x 75	HDEF2880250007511
250 x 90	HDEF2880250009011
250 x 110	HDEF2880250011011
280 x 110	HDEF2880280011011
280 x 50	HDEF2880280005011
280 x 63	HDEF2880280006311
280 x 90	HDEF2880280009011
315 x 63	HDEF2880315006311
315 x 90	HDEF2880315009011
315 x 110	HDEF2880315011011
355 x 20	HDEF2880355002011
355 x 63	HDEF2880355006311
355 x 90	HDEF2880355009011

PE 100	
ELECTRO-FUSION SPIGOT SADDLE SYSTEM TOPLOAD.	
Machine / Straps required	
AGRU CODE	
PE 100-RC BLACK PN16	
d x d	CODE
63 X 32	HDEF0790063003211
63 X 40	HDEF0790063004011
63 X 50	HDEF0790063005011
63 X 63	HDEF0790063006311
90 X 32	HDEF0790090003211
90 X 40	HDEF0790090004011
90 X 50	HDEF0790090005011
90 X 63	HDEF0790090006311
110 X 32	HDEF0790110003211
110 X 40	HDEF0790110004011
110 X 50	HDEF0790110005011
110 X 63	HDEF0790110006311
125 X 32	HDEF0790125003211
125 X 40	HDEF0790125004011
125 X 50	HDEF0790125005011
125 X 63	HDEF0790125006311
140 X 32	HDEF0790140003211
140 X 40	HDEF0790140004011
140 X 50	HDEF0790140005011
140 X 63	HDEF0790140006311
160 X 32	HDEF0790160006311
180 X 32	HDEF0790180003211
180 X 40	HDEF0790180004011
180 X 50	HDEF0790180005011
180 X 63	HDEF0790180006311
200 X 32	HDEF0790200003211
200 X 40	HDEF0790200004011
200 X 50	HDEF0790200005011
200 X 63	HDEF0790200006311
225 X 32	HDEF0790225003211
225 X 40	HDEF0790225004011
225 X 50	HDEF0790225005011
225 X 63	HDEF0790225006311
250 X 63	HDEF0790250006311
250 X 63	HDEF0790250006311
315 X 63	HDEF0790315006311
355 X 63	HDEF0790355006311

\*Also available with stainless steel insert  
\*NON STOCK ITEM BUT AVAILABLE ON REQUEST

# PE ELONGATED FITTINGS FOR BUTT & ELECTRO-FUSION SOCKETS



PE MULTI BEND - AGRU CODE 068			
To replace the CUB/GOL&CUL range			
PE100			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWCUMB10020160	
		PEBWCUMB10025160	
		PEBWCUMB10032160	
		PEBWCUMB10040160	
		PEBWCUMB10050160	
PEBWCUMB10063100		PEBWCUMB10063160	
PEBWCUMB10075100		PEBWCUMB10075160	
PEBWCUMB10090100		PEBWCUMB10090160	
PEBWCUMB10110100		PEBWCUMB10110160	
PEBWCUMB10125100		PEBWCUMB10125160	
PEBWCUMB10140100		PEBWCUMB10140160	
PEBWCUMB10160100		PEBWCUMB10160160	
PEBWCUMB10180100		PEBWCUMB10180160	
PEBWCUMB10200100		PEBWCUMB10200160	
PEBWCUMB10225100		PEBWCUMB10225160	
PEBWCUMB10250100		PEBWCUMB10250160	
PEBWCUMB10280100		PEBWCUMB10280160	
PEBWCUMB10315100		PEBWCUMB10315160	

END CAPS- AGRU CODE 064			
Elongated moulded from			
PE100			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWCAB10020160	
		PEBWCAB10025160	
		PEBWCAB10032160	
		PEBWCAB10040160	
		PEBWCAB10050160	
PEBWCAB10063100		PEBWCAB10063160	
PEBWCAB10075100		PEBWCAB10075160	
PEBWCAB10090100		PEBWCAB10090160	
PEBWCAB10110100		PEBWCAB10110160	
PEBWCAB10125100		PEBWCAB10125160	
PEBWCAB10140100		PEBWCAB10140160	
PEBWCAB10160100		PEBWCAB10160160	
PEBWCAB10180100		PEBWCAB10180160	
PEBWCAB10200100		PEBWCAB10200160	
PEBWCAB10225100		PEBWCAB10225160	
PEBWCAB10250100		PEBWCAB10250160	
PEBWCAB10280100		PEBWCAB10280160	
PEBWCAB10315100		PEBWCAB10315160	

ELBOWS 45 - AGRU CODE 060			
Elongated moulded from			
PE100			
CODE	PN10 SDR17		PN16 SDR11
		PEBWGYB10020160	
		PEBWGYB10025160	
		PEBWGYB10032160	
		PEBWGYB10040160	
		PEBWGYB10050160	
PEBWGYB10063100		PEBWGYB10063160	
PEBWGYB10075100		PEBWGYB10075160	
PEBWGYB10090100		PEBWGYB10090160	
PEBWGYB10110100		PEBWGYB10110160	
PEBWGYB10125100		PEBWGYB10125160	
PEBWGYB10140100		PEBWGYB10140160	
PEBWGYB10160100		PEBWGYB10160160	
PEBWGYB10180100		PEBWGYB10180160	
PEBWGYB10200100		PEBWGYB10200160	
PEBWGYB10225100		PEBWGYB10225160	
PEBWGYB10250100		PEBWGYB10250160	
PEBWGYB10280100		PEBWGYB10280160	
PEBWGYB10315100		PEBWGYB10315160	

STUB FLANGES - AGRU CODE 062			
According to DIN elongated moulded from			
PE100			
CODE	PN10 SDR17		PN16 SDR11
		PEBWQRL10020160	
		PEBWQRL10025160	
		PEBWQRL10032160	
		PEBWQRL10040160	
		PEBWQRL10050160	
PEBWQRL10063100		PEBWQRL10063160	
PEBWQRL10075100		PEBWQRL10075160	
PEBWQRL10090100		PEBWQRL10090160	
PEBWQRL10110100		PEBWQRL10110160	
PEBWQRL10125100		PEBWQRL10125160	
PEBWQRL10140100		PEBWQRL10140160	
PEBWQRL10160100		PEBWQRL10160160	
PEBWQRL10180100		PEBWQRL10180160	
PEBWQRL10200100		PEBWQRL10200160	
PEBWQRL10225100		PEBWQRL10225160	
PEBWQRL10250100		PEBWQRL10250160	
PEBWQRL10280100		PEBWQRL10280160	
PEBWQRL10315100		PEBWQRL10315160	
PEBWQRL10355100		PEBWQRL10355160	
PEBWQRL10400100		PEBWQRL10400160	

# PE ELONGATED FITTINGS FOR BUTT & ELECTRO-FUSION SOCKETS



REDUCERS AGRU CODE 067			
Concentric elongated moulded from PE100			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWRCE100250020160	
		PEBWRCE100320020160	
		PEBWRCE100320025160	
		PEBWRCE100400020160	
		PEBWRCE100400025160	
		PEBWRCE100400032160	
		PEBWRCE100500025160	
		PEBWRCE100500032160	
		PEBWRCE100500040160	
		PEBWRCE100630032160	
		PEBWRCE100630040160	
		PEBWRCE100630050160	
PEBWRCE100750063100		PEBWRCE100750050160	
PEBWRCE100900063100		PEBWRCE100750063160	
PEBWRCE100900075100		PEBWRCE100900063160	
		PEBWRCE100900075160	
		PEBWRCE101100040160	
PEBWRCE101100063100		PEBWRCE101100063160	
PEBWRCE101100090100		PEBWRCE101100090160	
PEBWRCE101250063100		PEBWRCE101250063160	
PEBWRCE101250090100		PEBWRCE101250090160	
PEBWRCE101250110100		PEBWRCE101250110160	
PEBWRCE101400125100		PEBWRCE101400125160	
PEBWRCE101600090100		PEBWRCE101600090160	
PEBWRCE101600110100		PEBWRCE101600110160	
PEBWRCE101600125100		PEBWRCE101600125160	
PEBWRCE101600140100		PEBWRCE101600140160	
PEBWRCE101800125100		PEBWRCE101800125160	
PEBWRCE101800160100		PEBWRCE101800160160	
PEBWRCE102000160100		PEBWRCE102000160160	
PEBWRCE102250160100		PEBWRCE102250160160	
PEBWRCE102500160100		PEBWRCE102500160160	
PEBWRCE102500200100		PEBWRCE102500200160	
PEBWRCE102500225100		PEBWRCE102500225160	
PEBWRCE102800250100		PEBWRCE102800250160	
PEBWRCE103150200100		PEBWRCE103150200160	
PEBWRCE103150225100		PEBWRCE103150225160	
PEBWRCE103150250100		PEBWRCE103150250160	

TEES AGRU CODE 065			
Reinforced with reduced branch and long legs			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWTIL10020160	
PEBWTIL10025100		PEBWTIL10025160	
PEBWTIL10032100		PEBWTIL10032160	
PEBWTIL10040100		PEBWTIL10040160	
PEBWTIL10050100		PEBWTIL10050160	
PEBWTIL10063100		PEBWTIL10063160	
PEBWTIL10075100		PEBWTIL10075160	
PEBWTIL10090100		PEBWTIL10090160	
PEBWTIL10110100		PEBWTIL10110160	
PEBWTIL10125100		PEBWTIL10125160	
PEBWTIL10140100		PEBWTIL10140160	
PEBWTIL10160100		PEBWTIL10160160	
PEBWTIL10180100		PEBWTIL10180160	
PEBWTIL10200100		PEBWTIL10200160	
PEBWTIL10225100		PEBWTIL10225160	
PEBWTIL10250100		PEBWTIL10250160	
PEBWTIL10280100		PEBWTIL10280160	
PEBWTIL10315100		PEBWTIL10315160	
PEBWTIL10355100		PEBWTIL10355160	
PEBWTIL10400100		PEBWTIL10400160	

TEES AGRU CODE 065			
Reinforced with reduced branch and long legs			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWTRL100630050160	
PEBWTRL100750050100		PEBWTRL100750032160	
PEBWTRL100750050100		PEBWTRL100750050160	
PEBWTRL100750063100		PEBWTRL100750063160	
PEBWTRL100900063100		PEBWTRL100900063160	
PEBWTRL100900075100		PEBWTRL100900075160	
PEBWTRL101100063100		PEBWTRL101100063160	
PEBWTRL101100075100		PEBWTRL101100075160	
PEBWTRL101100090100		PEBWTRL101100090160	
PEBWTRL101250063100		PEBWTRL101250075160	
PEBWTRL101250090100		PEBWTRL101250090160	
		PEBWTRL101250090160	
		PEBWTRL101250090160	
PEBWTRL101250110100		PEBWTRL101250100160	
PEBWTRL101600063100		PEBWTRL101600063160	
PEBWTRL101600075100		PEBWTRL101600075160	
PEBWTRL101600090100		PEBWTRL101600090160	
PEBWTRL101600110100		PEBWTRL101600110160	
PEBWTRL101800090100		PEBWTRL101800090160	
PEBWTRL101800160100		PEBWTRL101800110160	
PEBWTRL101800160100		PEBWTRL101800160160	
PEBWTRL102000063100		PEBWTRL102000063160	
PEBWTRL102000090100		PEBWTRL102000090160	
PEBWTRL102000110100		PEBWTRL102000110160	
PEBWTRL102250125100		PEBWTRL102000125160	
PEBWTRL102250160100		PEBWTRL102000160160	
PEBWTRL102250075100		PEBWTRL102250075160	
PEBWTRL102250090100		PEBWTRL102250090160	
PEBWTRL102250110100		PEBWTRL102250110160	
PEBWTRL102250160100		PEBWTRL102250160160	
PEBWTRL102250180100		PEBWTRL102250180160	
PEBWTRL103150090100		PEBWTRL103150090160	
PEBWTRL103150110100		PEBWTRL103150110160	
PEBWTRL103150160100		PEBWTRL103150160160	
PEBWTRL103150200100		PEBWTRL103150200160	
PEBWTRL103150225100		PEBWTRL103150225160	
PEBWTRL103150250100		PEBWTRL103150250160	
PEBWTRL104000110100		PEBWTRL104000110160	
PEBWTRL104000160100		PEBWTRL104000160160	
PEBWTRL104000200100		PEBWTRL104000200160	
PEBWTRL104000225100		PEBWTRL104000225160	
PEBWTRL104000315100		PEBWTRL104000315160	

REDUCERS AGRU CODE 069 Eccentric elongated moulded from PE100			
CODE	PN10 SDR17	CODE	PN16 SDR11
		PEBWREE100250020160	
		PEBWREE100320025160	
		PEBWREE100400025160	
		PEBWREE100400032160	
		PEBWREE100500032160	
		PEBWREE100500040160	
		PEBWREE100630032160	
		PEBWREE100630040160	
PEBWREE100630050100		PEBWREE100630050160	
PEBWREE100750050100		PEBWREE100750050160	
PEBWREE100750063100		PEBWREE100750063160	
PEBWREE100900063100		PEBWREE100900063160	
PEBWREE100900075100		PEBWREE100900075160	
PEBWREE101100063100		PEBWREE101100063160	
PEBWREE101100090100		PEBWREE101100090160	
PEBWREE101250063100		PEBWREE101250063160	
PEBWREE101250090100		PEBWREE101250090160	
PEBWREE101250110100		PEBWREE101250110160	
PEBWREE101400125100		PEBWREE101400125160	
PEBWREE101600090100		PEBWREE101600090160	
PEBWREE101600110100		PEBWREE101600110160	
PEBWREE101600125100		PEBWREE101600125160	
PEBWREE101600140100		PEBWREE101600140160	
PEBWREE101800090100		PEBWREE101800090160	
PEBWREE101800125100		PEBWREE101800125160	
PEBWREE101800160100		PEBWREE101800160160	
PEBWREE102000160100		PEBWREE102000160160	
PEBWREE102000180100		PEBWREE102000180160	
PEBWREE102250160100		PEBWREE102250160160	
PEBWREE102250180100		PEBWREE102250180160	
PEBWREE102250200100		PEBWREE102250200160	
PEBWREE102500200100		PEBWREE102500200160	
PEBWREE102500225100		PEBWREE102500225160	

# PE BUTT WELD FITTINGS



BENDS 90 AGRU CODE 001			
Short radius moulded from PE100			
CODE	PN10	CODE	PN16
	SDR17		SDR 11
PEBWCUB10250100		PEBWCUB10250160	
PEBWCUB10280100		PEBWCUB10280160	
PEBWCUB10315100		PEBWCUB10315160	
PEBWCUB10355100		PEBWCUB10355160	
PEBWCUB10400100		PEBWCUB10400160	
PEBWCUB10450100		PEBWCUB10450160	
PEBWCUB10500100		PEBWCUB10500160	

TEES Reduced AGRU CODE 016			
Reinforced moulded from PE100			
CODE	PN10	CODE	PN16
	SDR17		SDR 11
		PEBWTRB100900032160	
		PEBWTRB100900050160	
		PEBWTRB101100032160	
		PEBWTRB101100050160	
		PEBWTRB101250063160	
PEBWTRB101400063100		PEBWTRB101400063160	
PEBWTRB101400075100		PEBWTRB101400075160	
PEBWTRB101400090100		PEBWTRB101400090160	
PEBWTRB101400110100		PEBWTRB101400110160	
PEBWTRB101600125100		PEBWTRB101600125160	
PEBWTRB101800063100		PEBWTRB101800063160	
PEBWTRB101800075100		PEBWTRB101800075160	
PEBWTRB101800110100			
PEBWTRB101800125100		PEBWTRB101800125160	
PEBWTRB102250125100		PEBWTRB102250125160	
PEBWTRB105000200100		PEBWTRB105000200160	

▲ SDR33 Fittings available on special request

TEES AGRU CODE 006			
Reinforced moulded from PE100			
CODE	PN10	CODE	PN16
	SDR17		SDR 11
PEBWTIB1		PEBWTIB10020160	
		PEBWTIB10025160	
		PEBWTIB10032160	
		PEBWTIB10040160	
		PEBWTIB10050160	
PEBWTIB10063100		PEBWTIB10063160	
PEBWTIB10075100		PEBWTIB10075160	
PEBWTIB10090100		PEBWTIB10090160	
PEBWTIB10110100		PEBWTIB10110160	
PEBWTIB10125100		PEBWTIB10125160	
PEBWTIB10140100		PEBWTIB10140160	
PEBWTIB10160100		PEBWTIB10160160	
PEBWTIB10180100		PEBWTIB10180160	
PEBWTIB10200100		PEBWTIB10200160	
PEBWTIB10225100		PEBWTIB10225160	
PEBWTIB10250100		PEBWTIB10250160	
PEBWTIB10280100		PEBWTIB10280160	
PEBWTIB10315100		PEBWTIB10315160	
PEBWTIB10355100		PEBWTIB10355160	
PEBWTIB10400100		PEBWTIB10400160	
PEBWTIB10450100		PEBWTIB10450160	
PEBWTIB10500100		PEBWTIB10500160	

TEE 45° - AGRU CODE 036			
Long Spigot Injection Moulding Butt + E-Socket- Welding PE100-RC Black			
CODE	PN10	CODE	PN16
	SDR 17		SDR 11
PEBWLAT1732100		PEBWLAT0032160	
PEBWLAT0040100		PEBWLAT0040160	
PEBWLAT0050100		PEBWLAT0050160	
PEBWLAT0063100		PEBWLAT0063160	
PEBWLAT0075100		PEBWLAT0075160	
PEBWLAT0090100		PEBWLAT0090160	
PEBWLAT0110100		PEBWLAT0110160	
PEBWLAT0125100		PEBWLAT0125160	
PEBWLAT0140100		PEBWLAT0140160	
PEBWLAT0160100		PEBWLAT0160160	
PEBWLAT0180100		PEBWLAT0180160	
PEBWLAT0200100		PEBWLAT0200160	
PEBWLAT0225100		PEBWLAT0225160	



PE BUTT WELD FITTINGS



STUB FLANGES AGRU CODE			
012 Reinforced moulded from PE100			
CODE	PN10 SDR17	CODE	PN16 SDR 11
		PEBWQRB10020160	
		PEBWQRB10025160	
		PEBWQRB10032160	
		PEBWQRB10040160	
		PEBWQRB10050160	
PEBWQRB10063100		PEBWQRB10063160	
PEBWQRB10075100		PEBWQRB10075160	
PEBWQRB10090100		PEBWQRB10090160	
PEBWQRB10110100		PEBWQRB10110160	
PEBWQRB10125100		PEBWQRB10125160	
PEBWQRB10140100		PEBWQRB10140160	
PEBWQRB10160100		PEBWQRB10160160	
PEBWQRB10180100		PEBWQRB10180160	
PEBWQRB10200100		PEBWQRB10200160	
PEBWQRB10225100		PEBWQRB10225160	
PEBWQRB10250100		PEBWQRB10250160	
PEBWQRB10280100		PEBWQRB10280160	
PEBWQRB10315100		PEBWQRB10315160	
PEBWQRB10355100		PEBWQRB10355160	
PEBWQRB10400100		PEBWQRB10400160	
PEBWQRB10450100		PEBWQRB10450160	
PEBWQRB10500100		PEBWQRB10500160	
PEBWQRB10560100		PEBWQRB10560160	
PEBWQRB10630100		PEBWQRB10630160	
PEBWQRB10710100		PEBWQRB10710160	
REDUCERS - CONCENTRIC - AGRU CODE			
007 Moulded from PE100			
CODE	PN10 SDR17	CODE	PN16 SDR 11
		PEBWRLC100630016160	
PEBWRLC100750032100		PEBWRLC100750032160	
PEBWRLC101100063100		PEBWRLC101100063160	
PEBWRLC101250075100		PEBWRLC101250075160	
PEBWRLC101000110100		PEBWRLC101600110160	
PEBWRLC102250160100		PEBWRLC102250180160	
PEBWRLC103150225100		PEBWRLC103150225160	
PEBWRLC104500315100		PEBWRLC104500315160	
PEBWRLC106300450100			
REDUCERS - ECCENTRIC - AGRU CODE			
005 Moulded from PE100			
CODE	PN10 SDR17	CODE	PN16 SDR 11
PEBWRLC102500160100		PEBWRLC102500160160	
PEBWRLC103550250100		PEBWRLC103550250160	

▲ SDR33 Fittings available on special request

REDUCERS CONCENTRIC AGRU CODE 009			
Short pattern moulded Pe100			
CODE	PN10 SDR17	CODE	PN16 SDR 11
		PEBWRSC100250020160	
		PEBWRSC100320020160	
		PEBWRSC100320025160	
		PEBWRSC100400020160	
		PEBWRSC100400025160	
		PEBWRSC100400032160	
		PEBWRSC100500025160	
		PEBWRSC100500032160	
		PEBWRSC100630032160	
		PEBWRSC100630040160	
		PEBWRSC100630050160	
		PEBWRSC100750032160	
		PEBWRSC100750040160	
		PEBWRSC100750050160	
		PEBWRSC100750063160	
		PEBWRSC100900050160	
PEBWRSC100750063100		PEBWRSC100900063160	
PEBWRSC100900063100		PEBWRSC100900075160	
PEBWRSC100900075100		PEBWRSC101100050160	
PEBWRSC101100063160		PEBWRSC101100063160	
PEBWRSC101100075100		PEBWRSC101100075160	
PEBWRSC101100090100		PEBWRSC101100090160	
PEBWRSC101250063100		PEBWRSC101250063160	
PEBWRSC101250075100		PEBWRSC101250075160	
PEBWRSC101250090100		PEBWRSC101250090160	
PEBWRSC101250110100		PEBWRSC101250110160	
PEBWRSC101400075100		PEBWRSC101400075160	
PEBWRSC101400090100		PEBWRSC101400090160	
PEBWRSC101400110100		PEBWRSC101400110160	
PEBWRSC101400125100		PEBWRSC101400125160	
PEBWRSC101600090100		PEBWRSC101600090160	
PEBWRSC101600110100		PEBWRSC101600110160	
PEBWRSC101600125100		PEBWRSC101600125160	
PEBWRSC101600140100		PEBWRSC101600140160	
PEBWRSC101800090100		PEBWRSC101800090160	
PEBWRSC101800110100		PEBWRSC101800110160	
PEBWRSC101800125100		PEBWRSC101800125160	
PEBWRSC101800140100		PEBWRSC101800140160	
PEBWRSC101800160100		PEBWRSC101800160160	
PEBWRSC102000140100		PEBWRSC102000140160	
PEBWRSC102000160100		PEBWRSC102000160160	
PEBWRSC102000180100		PEBWRSC102000180160	
PEBWRSC102250140100		PEBWRSC102250140160	
PEBWRSC102250160100		PEBWRSC102250160160	
PEBWRSC102250180100		PEBWRSC102250180160	
PEBWRSC102250200100		PEBWRSC102250200160	
PEBWRSC102500160100		PEBWRSC102500160160	
PEBWRSC102500180100		PEBWRSC102500180160	
PEBWRSC102500200100		PEBWRSC102500200160	
PEBWRSC102500225100		PEBWRSC102500225160	
PEBWRSC102800200100		PEBWRSC102800200160	
PEBWRSC102800225100		PEBWRSC102800225160	
PEBWRSC102800250100		PEBWRSC102800250160	
PEBWRSC103150200100		PEBWRSC103150200160	
PEBWRSC103150225100		PEBWRSC103150225160	
PEBWRSC103150250100		PEBWRSC103150250160	
PEBWRSC103150280100		PEBWRSC103150280160	

# PE SOCKET FUSION WELD PLAIN FITTING



ELBOW 45	
AGRU CODE 050 For socket welding moulded out of PEHD	
d	CODE
20	PEFWGYM0020
25	PEFWGYM0025
32	PEFWGYM0032
40	PEFWGYM0040
50	PEFWGYM0050
63	PEFWGYM0063
75	PEFWGYM0075
90	PEFWGYM0090
110	PEFWGYM0110

ELBOW 90	
AGRU CODE 050 For socket welding moulded out of PEHD	
d	CODE
20	PEFWGOM0020
25	PEFWGOM0025
32	PEFWGOM0032
40	PEFWGOM0040
50	PEFWGOM0050
63	PEFWGOM0063
75	PEFWGOM0075
90	PEFWGOM0090
110	PEFWGOM0110

TEES	
AGRU CODE 056 For socket welding moulded out of PEHD	
d	CODE
20	PEFWTIM0020
25	PEFWTIM0025
32	PEFWTIM0032
40	PEFWTIM0040
50	PEFWTIM0050
63	PEFWTIM0063
75	PEFWTIM0075
90	PEFWTIM0090
110	PEFWTIM0110

FLANGE	
AGRU CODE 052 For socket welding moulded out of PEHD	
d	CODE
20	PEFWQRM0020
25	PEFWQRM0025
32	PEFWQRM0032
40	PEFWQRM0040
50	PEFWQRM0050
63	PEFWQRM0063
75	PEFWQRM0075
90	PEFWQRM0090
110	PEFWQRM0110

SOCKETS	
AGRU CODE 053 For socket welding moulded out of PEHD	
d	CODE
20	PEFWMAM0020
25	PEFWMAM0025
32	PEFWMAM0032
40	PEFWMAM0040
50	PEFWMAM0050
63	PEFWMAM0063
75	PEFWMAM0075
90	PEFWMAM0090
110	PEFWMAM0110

REDUCERS	
AGRU CODE 057 For socket welding moulded out of PEHD	
d	CODE
25X20	PEFWRLM00250020
32X20	PEFWRLM00320020
32X25	PEFWRLM00320025
40X20	PEFWRLM00400020
40X25	PEFWRLM00400025
40X32	PEFWRLM00400032
50X20	PEFWRLM00500020
50X25	PEFWRLM00500025
50X32	PEFWRLM00500032
50X40	PEFWRLM00500040
63X25	PEFWRLM00630025
63X32	PEFWRLM00630032
63X40	PEFWRLM00630040
63X50	PEFWRLM00630050
75X63	PEFWRLM00750063
90X63	PEFWRLM00900063
90X75	PEFWRLM00900075
110X63	PEFWRLM01100063
110X90	PEFWRLM01100090

END CAP	
AGRU CODE 054 For socket welding moulded out of PEHD	
d	CODE
20	PEFWCAM0020
25	PEFWCAM0025
32	PEFWCAM0032
40	PEFWCAM0040
50	PEFWCAM0050
63	PEFWCAM0063
75	PEFWCAM0075
90	PEFWCAM0090
110	PEFWCAM0110

TEES Reduced	
AGRU CODE 055 For socket welding moulded out of PEHD	
d	CODE
25X20	PEFWTRM00250020
32X20	PEFWTRM00320020
32X25	PEFWTRM00320025
40X20	PEFWTRM00400020
40X25	PEFWTRM00400025
40X32	PEFWTRM00400032
50X20	PEFWTRM00500020
50X25	PEFWTRM00500025
50X32	PEFWTRM00500032
50X40	PEFWTRM00500040
63X25	PEFWTRM00630025
63X32	PEFWTRM00630032
63X40	PEFWTRM00630040
63X50	PEFWTRM00630050

# PE SOCKET FUSION ADAPTOR/PLAIN FITTING



SOCKET UNION		
AGRU CODE 024.11 Spigot for socket welding		
d	CODE	AGRU Code 024.11
20	PEFWBOM0020	
25	PEFWBOM0025	
32	PEFWBOM0032	
40	PEFWBOM0040	
50	PEFWBOM0050	
63	PEFWBOM0063	
75	PEFWBOM0075	
90	PEFWBOM0090	

ADAPTOR		
AGRU CODE 035 For socket welding moulded out of PEHD with male thread		
d	CODE	AGRU Code 024.11
20x25x3/4	PEFWAM3M00200750	
25x32x1	PEFWAM3M00251000	
32x40x1,1/4	PEFWAM3M00321250	
40x50x1,1/2	PEFWAM3M00401500	
50x63x2	PEFWAM3M00502000	

SOCKET COUPLINGS		
AGRU CODE 034 One end plain for socket welding the other end parallel threaded female		
d x BSP	CODE	AGRU Code 034
20x1/2	PEFWMA3M00200500	
25x3/4	PEFWMA3M00250750	
32x1	PEFWMA3M00321000	
40x1,1/2	PEFWMA3M00401250	
50x1,1/2	PEFWMA3M00501500	
63x2	PEFWMA3M00632000	

# PE EXTRUDED SHEETS, BARS & WELDING RODS



AGRU CODE 600		SIZE
SHEETS EXTRUDED		2000X1000
THICKNESS	PE	PEHD black
MM	KG/PC	
2	3,81	
3	5,71	
4	7,62	
5	9,52	
6	11,40	
8	15,20	
10	19,00	
12	22,90	
15	28,60	
20	38,10	
25	47,60	
30	57,10	
35	66,60	
40	76,20	

AGRU CODE 600		SIZE
SHEETS EXTRUDED		3000X1500
THICKNESS	PE	PEHD black
MM	KG/PC	
3	12,90	
4	17,10	
5	21,40	
6	25,70	
8	24,30	
10	42,90	
12	51,40	
15	64,30	
20	85,70	
25	107,00	
30	129,00	
35	150,00	
40	171,00	

AGRU CODE 600		SIZE
SHEETS EXTRUDED		4000X2000
THICKNESS MM	PE	PEHD black
	KG/PC	
3	22,90	
4	30,50	
5	38,10	
6	45,70	
8	60,90	
10	76,20	
12	91,40	
15	114,00	
20	152,00	
25	190,00	
30	229,00	
35	267,00	
40	305,00	

AGRU CODE 610	SIZE
	3000 x 1500mm
PE FABRIC BACKED EXTRUDED SHEETS	
Thickness	
mm	
5	

SUREGRIP CONCRETE  
PROTECTIVE LINERS  
(CPL) AGRU CODE 560/569  
FORMAT 4000 x 2000mm PE



Thickness	CODE 560	black
mm	Extruded	
2		
3		
4		
5		
8		
10		
12		

ROUND BARS  
AGRU CODE 800  
OUT OF PP  
according to DIN 16980  
standard length: 1m  
special lengths on request



d	Weight KG/M	Code
	PE 80	PERB-BAR
15	0,19	PERBBAR0015
20	0,32	PERBBAR0020
25	0,49	PERBBAR0025
30	0,70	PERBBAR0030
35	0,97	PERBBAR0035
40	1,24	PERBBAR0040
45	1,57	PERBBAR0045
50	1,95	PERBBAR0050
55	2,36	PERBBAR0055
60	2,80	PERBBAR0060
70	3,80	PERBBAR0070
75	4,35	PERBBAR0075
80	4,95	PERBBAR0080
90	6,26	PERBBAR0090
100	7,73	PERBBAR0100
110	9,33	PERBBAR0110
125	12,10	PERBBAR0125
140	15,10	PERBBAR0140
160	19,80	PERBBAR0160
180	25,00	PERBBAR0180
200	31,30	PERBBAR0200
220	37,70	PERBBAR0220
250	48,60	PERBBAR0250
300	69,70	PERBBAR0300
325	74,30	PERBBAR0325
370	101,39	PERBBAR0370
410	131,00	PERBBAR0410
510	203,00	PERBBAR0510
640	320,00	PERBBAR0640

Fullrange of sheeting in different colours specially for prosthetic application -available by special request

PE Natural sheets and round bars are non-stock items, but are available

Available in rolls of 50m Lx 5m W. Also available with studs of 19mm. Normal studs 13mm All CPL liners have a 40mm smooth border for welding. available with UV Stabilisation.

WELDING ROD			
In rolls of approx. 3Kg standard stock			
PROFILE	DIA	LENGTH	CODE
AGRU		M/KG	PEFW
AGRU	3	155	PEFWWEL00050003411
CODE 410	4	85	PEFWWEL0004410
	5	55	PEFWWEL00050005412
AGRU	5x3	92	PEFWWEL00050003411
CODE 411	6x4	53	PEFWWEL00060004411

Further dimensions and profiles on request - Standard stock rolls of 3kg. Locally produced welding rod available on request  
Pressed sheets are available on request up to and including 120mm thickness



# LOCALLY PRODUCED PE PIPING

HIGH DENSITY POLYETHYLENE PIPES (SANS ISO 4427)								
16 mm -63 mm- Available in 100 meter coils								
75- mm-110mm Available in 50 meter coils								
125mm- and larger available in 6m / 12m Lengths								
PE 100		PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
SDR	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
SIZE	R/m	R/m	R/m	R/m	R/m	R/m	R/m	R/m
16	-	-	-	-	-	POA	POA	POA
20	-	-	-	-	POA	POA	POA	POA
25	-	-	-	POA	POA	POA	POA	POA
32	-	POA	POA	POA	POA	POA	POA	POA
40	-	POA	POA	POA	POA	POA	POA	POA
50	POA	POA	POA	POA	POA	POA	POA	POA
63	POA	POA	POA	POA	POA	POA	POA	POA
75	POA	POA	POA	POA	POA	POA	POA	POA
90	POA	POA	POA	POA	POA	POA	POA	POA
110	POA	POA	POA	POA	POA	POA	POA	POA
125	POA	POA	POA	POA	POA	POA	POA	POA
140	POA	POA	POA	POA	POA	POA	POA	POA
160	POA	POA	POA	POA	POA	POA	POA	POA
180	POA	POA	POA	POA	POA	POA	POA	POA
200	POA	POA	POA	POA	POA	POA	POA	POA
250	POA	POA	POA	POA	POA	POA	POA	POA
280	POA	POA	POA	POA	POA	POA	POA	POA
315	POA	POA	POA	POA	POA	POA	POA	POA
355	POA	POA	POA	POA	POA	POA	POA	POA
400	POA	POA	POA	POA	POA	POA	POA	POA
450	POA	POA	POA	POA	POA	POA	POA	POA
500	POA	POA	POA	POA	POA	POA	POA	POA
560	POA	POA	POA	POA	POA	POA	POA	POA
630	POA	POA	POA	POA	POA	POA	POA	POA
710	POA	POA	POA	POA	POA	POA	POA	POA
800	POA	POA	POA	POA	POA	POA	POA	POA
900	POA	POA	POA	POA	POA	POA	POA	POA
1000	POA	POA	POA	POA	POA	POA	POA	POA

AVAILABLE UPON REQUEST

# BACKING RINGS

CODE	DESCRIPTION	FLANGE DIMENSIONS			DRILLING			BOLT LENGTH		WEIGHT (kg)
		OD	ID	THICK	NO	BOLT	PCD	P-P	P-S	
GALVGRH0020A	HOT DIPPED GALV. BACKING RING ASA 150	88,9	30	10	4	M12	60,3	65	50	On Req
GALVGRH0025A	HOT DIPPED GALV. BACKING RING ASA 150	98,4	35	10	4	M12	69,8	65	50	On Req
GALVGRH0032A	HOT DIPPED GALV. BACKING RING ASA 150	107,9	45	10	4	M12	79,4	65	50	On Req
GALVGRH0040A	HOT DIPPED GALV. BACKING RING ASA 150	117,5	52	12	4	M12	88,9	90	65	On Req
GALVGRH0050A	HOT DIPPED GALV. BACKING RING ASA 150	127	63	12	4	M16	98,4	90	65	On Req
GALVGRH0063A	HOT DIPPED GALV. BACKING RING ASA 150	152,4	74	12	4	M16	120,6	90	65	On Req
GALVGRH0075A	HOT DIPPED GALV. BACKING RING ASA 150	177,8	86	12	4	M16	139,7	90	65	On Req
GALVGRH0090A	HOT DIPPED GALV. BACKING RING ASA 150	190,5	103	12	4	M16	152,4	90	65	On Req
GALVGRH0110A	HOT DIPPED GALV. BACKING RING ASA 150	228,6	136	15	8	M16	190,5	90	65	On Req
GALVGRH0125A	HOT DIPPED GALV. BACKING RING ASA 150	228,6	136	15	8	M16	190,5	110	80	On Req
GALVGRH0140A	HOT DIPPED GALV. BACKING RING ASA 150	254	158	15	8	M20	215,9	120	90	On Req
GALVGRH0160A	HOT DIPPED GALV. BACKING RING ASA 150	279,4	190	20	8	M20	241,3	120	100	On Req
GALVGRH0180A	HOT DIPPED GALV. BACKING RING ASA 150	342,9	190	20	8	M20	241,3	140	110	On Req
GALVGRH0200A	HOT DIPPED GALV. BACKING RING ASA 150	342,9	237	20	8	M20	298,4	150	110	On Req
GALVGRH0225A	HOT DIPPED GALV. BACKING RING ASA 150	406,4	237	20	8	M20	361,9	150	110	On Req
GALVGRH0250A	HOT DIPPED GALV. BACKING RING ASA 150	406,4	279	25	12	M24	361,9	160	110	On Req
GALVGRH0280A	HOT DIPPED GALV. BACKING RING ASA 150	482,4	292	25	12	M24	361,9	170	130	On Req
GALVGRH0315A	HOT DIPPED GALV. BACKING RING ASA 150	482,6	330	30	12	M24	431,8	170	150	On Req
GALVGRH0355A	HOT DIPPED GALV. BACKING RING ASA 150	533,4	376	30	16	M24	476,2	220	150	On Req
GALVGRH0400A	HOT DIPPED GALV. BACKING RING ASA 150	596,9	430	30	16	M24	539,7	200	160	On Req
GALVGRH0450A	HOT DIPPED GALV. BACKING RING ASA 150	635	476	30	16	M30	577,8	220	160	On Req
GALVGRH0500A	HOT DIPPED GALV. BACKING RING ASA 150	698,5	533	30	20	M30	635	240	160	On Req
GBLVGRH0020B	HOT DIPPED GALV. BACKING RING 10/3	95	30	10	4	M12	65	65	50	On Req
GBLVGRH0025B	HOT DIPPED GALV. BACKING RING 10/3	105	38	10	4	M12	75	65	50	On Req
GBLVGRH0032B	HOT DIPPED GALV. BACKING RING 10/3	115	45	10	4	M12	85	65	50	On Req
GBLVGRH0040B	HOT DIPPED GALV. BACKING RING 10/3	140	52	10	4	M16	100	80	60	On Req
GBLVGRH0050B	HOT DIPPED GALV. BACKING RING 10/3	150	63	10	4	M16	110	80	60	On Req
GBLVGRH0063B	HOT DIPPED GALV. BACKING RING 10/3	165	74	12	4	M16	125	80	60	On Req
GBLVGRH0075B	HOT DIPPED GALV. BACKING RING 10/3	185	86	12	4	M16	145	90	65	On Req
GBLVGRH0090B	HOT DIPPED GALV. BACKING RING 10/3	200	103	12	8	M16	160	90	65	On Req
GBLVGRH0110B	HOT DIPPED GALV. BACKING RING 10/3	220	136	12	8	M16	180	100	70	On Req
GBLVGRH0125B	HOT DIPPED GALV. BACKING RING 10/3	220	136	12	8	M16	180	120	80	On Req
GBLVGRH0140B	HOT DIPPED GALV. BACKING RING 10/3	250	158	12	8	M16	210	120	80	On Req
GBLVGRH0160B	HOT DIPPED GALV. BACKING RING 10/3	285	190	14	8	M20	240	130	90	On Req
GBLVGRH0180B	HOT DIPPED GALV. BACKING RING 10/3	285	190	16	8	M20	240	140	90	On Req
GBLVGRH0200B	HOT DIPPED GALV. BACKING RING 10/3	340	237	16	8	M20	295	140	100	On Req
GBLVGRH0225B	HOT DIPPED GALV. BACKING RING 10/3	340	237	16	8	M20	295	150	100	On Req
GBLVGRH0250B	HOT DIPPED GALV. BACKING RING 10/3	395	279	18	12	M20	350	160	110	On Req
GBLVGRH0280B	HOT DIPPED GALV. BACKING RING 10/3	395	292	18	12	M20	350	160	120	On Req
GBLVGRH0315B	HOT DIPPED GALV. BACKING RING 10/3	445	330	22	12	M20	400	190	130	On Req
GBLVGRH0355B	HOT DIPPED GALV. BACKING RING 10/3	505	376	25	16	M20	460	190	140	On Req
GBLVGRH0400B	HOT DIPPED GALV. BACKING RING 10/3	565	430	27	16	M24	515	210	150	On Req
GBLVGRH0450B	HOT DIPPED GALV. BACKING RING 10/3	615	476	30	20	M24	565	240	160	On Req
GBLVGRH0500B	HOT DIPPED GALV. BACKING RING 10/3	670	533	30	20	M24	620	240	160	On Req

Stainless Steel Backing Rings available upon request

# BACKING RINGS

CODE	DESCRIPTION	SIZE	FLANGE DIMENSIONS			DRILLING			BOLT LENGTH		WEIGHT (kg)
			OD	ID	THICK	NO	BOLT	PCD	P-P	P-S	
GALVGRH0020C	HOT DIPPED GALV. BACKING RING 16/3	20mm	95.0	30	10	4	M12	65.0	65	50	On Req
GALVGRH0025C	HOT DIPPED GALV. BACKING RING 16/3	25mm	105.0	35	10	4	M12	75.0	65	50	On Req
GALVGRH0032C	HOT DIPPED GALV. BACKING RING 16/3	32mm	115.0	45	10	4	M12	85.0	65	50	On Req
GALVGRH0040C	HOT DIPPED GALV. BACKING RING 16/3	40mm	140.0	52	10	4	M16	100.0	80	60	On Req
GALVGRH0050C	HOT DIPPED GALV. BACKING RING 16/3	50mm	150.0	63	10	4	M16	110.0	80	60	On Req
GALVGRH0063C	HOT DIPPED GALV. BACKING RING 16/3	63mm	165.0	74	12	4	M16	125.0	90	65	On Req
GALVGRH0075C	HOT DIPPED GALV. BACKING RING 16/3	75mm	185.0	86	12	8	M16	145.0	90	65	On Req
GALVGRH0090C	HOT DIPPED GALV. BACKING RING 16/3	90mm	200.0	103	14	8	M16	160.0	90	65	On Req
GALVGRH0110C	HOT DIPPED GALV. BACKING RING 16/3	110mm	220.0	136	14	8	M16	180.0	100	70	On Req
GALVGRH0125C	HOT DIPPED GALV. BACKING RING 16/3	125mm	220.0	136	14	8	M16	180.0	120	80	On Req
GALVGRH0140C	HOT DIPPED GALV. BACKING RING 16/3	140mm	250.0	158	16	8	M16	210.0	120	90	On Req
GALVGRH0160C	HOT DIPPED GALV. BACKING RING 16/3	160mm	285.0	190	18	8	M16	240.0	130	90	On Req
GALVGRH0180C	HOT DIPPED GALV. BACKING RING 16/3	180mm	285.0	190	18	8	M20	240.0	140	100	On Req
GALVGRH0200C	HOT DIPPED GALV. BACKING RING 16/3	200mm	340.0	237	22	12	M20	295.0	150	100	On Req
GALVGRH0225C	HOT DIPPED GALV. BACKING RING 16/3	225mm	340.0	237	22	12	M20	295.0	160	120	On Req
GALVGRH0250C	HOT DIPPED GALV. BACKING RING 16/3	250mm	405.0	279	22	12	M20	355.0	170	120	On Req
GALVGRH0280C	HOT DIPPED GALV. BACKING RING 16/3	280mm	405.0	292	25	12	M20	355.0	170	130	On Req
GALVGRH0315C	HOT DIPPED GALV. BACKING RING 16/3	315mm	460.0	330	28	16	M20	410.0	190	140	On Req
GALVGRH0355C	HOT DIPPED GALV. BACKING RING 16/3	355mm	520.0	376	30	16	M20	470.0	200	150	On Req
GALVGRH0400C	HOT DIPPED GALV. BACKING RING 16/3	400mm	580.0	430	35	16	M24	525.0	240	170	On Req
GALVGRH0450C	HOT DIPPED GALV. BACKING RING 16/3	450mm	640.0	476	40	16	M24	585.0	250	180	On Req
GALVGRH0500C	HOT DIPPED GALV. BACKING RING 16/3	500mm	704.0	533	20	16	M24	620.0	260	180	On Req
GALVGRH0020D	HOT DIPPED GALV. BACKING RING TD	20mm	95.3	30	5	4	M12	66.7	55	40	On Req
GALVGRH0025D	HOT DIPPED GALV. BACKING RING TD	25mm	101.6	38	5	4	M12	73.0	55	40	On Req
GALVGRH0032D	HOT DIPPED GALV. BACKING RING TD	32mm	114.0	45	6	4	M12	82.6	55	40	On Req
GALVGRH0040D	HOT DIPPED GALV. BACKING RING TD	40mm	120.7	52	6	4	M12	87.3	75	60	On Req
GALVGRH0050D	HOT DIPPED GALV. BACKING RING TD	50mm	133.4	63	8	4	M12	98.4	75	60	On Req
GALVGRH0063D	HOT DIPPED GALV. BACKING RING TD	63mm	152.4	74	8	4	M16	114.3	80	55	On Req
GALVGRH0075D	HOT DIPPED GALV. BACKING RING TD	75mm	165.1	86	10	4	M16	127.0	80	55	On Req
GALVGRH0090D	HOT DIPPED GALV. BACKING RING TD	90mm	184.1	103	10	4	M16	146.0	80	60	On Req
GALVGRH0110D	HOT DIPPED GALV. BACKING RING TD	110mm	215.6	136	10	4	M16	177.8	100	70	On Req
GALVGRH0125D	HOT DIPPED GALV. BACKING RING TD	125mm	215.6	136	13	8	M16	177.8	110	75	On Req
GALVGRH0140D	HOT DIPPED GALV. BACKING RING TD	140mm	245.0	158	13	8	M16	209.6	120	80	On Req
GALVGRH0160D	HOT DIPPED GALV. BACKING RING TD	160mm	279.4	190	13	8	M16	235.0	120	90	On Req
GALVGRH0180D	HOT DIPPED GALV. BACKING RING TD	180mm	279.4	190	13	8	M16	235.0	120	90	On Req
GALVGRH0200D	HOT DIPPED GALV. BACKING RING TD	200mm	336.6	237	13	8	M16	292.1	130	90	On Req
GALVGRH0225D	HOT DIPPED GALV. BACKING RING TD	225mm	336.5	237	16	8	M16	292.1	130	90	On Req
GALVGRH0250D	HOT DIPPED GALV. BACKING RING TD	250mm	406.4	279	16	8	M20	355.6	140	100	On Req
GALVGRH0280D	HOT DIPPED GALV. BACKING RING TD	280mm	406.4	292	19	8	M20	355.6	150	110	On Req
GALVGRH0315D	HOT DIPPED GALV. BACKING RING TD	315mm	457.2	330	22	12	M20	406.4	150	110	On Req
GALVGRH0355D	HOT DIPPED GALV. BACKING RING TD	355mm	527.1	376	22	12	M24	469.9	180	130	On Req
GALVGRH0400D	HOT DIPPED GALV. BACKING RING TD	400mm	577.9	430	22	12	M24	520.7	190	130	On Req
GALVGRH0450D	HOT DIPPED GALV. BACKING RING TD	450mm	641.1	476	25	12	M24	584.2	210	140	On Req
GALVGRH0500D	HOT DIPPED GALV. BACKING RING TD	500mm	704.0	533	29	16	M24	641.4	220	150	On Req

Stainless Steel Backing Rings available upon request

## NOTES



# AGRU PP - H



## POLYPROPYLENE



AGRU PP - H

# AGRU POLYPROPYLENE **PRODUCTS**



## **Did you know?**

That PP is the most versatile  
Polymer in the world!

# (PP-H) POLYPROPYLENE

Astore Keymak offer the full comprehensive range of thermoplastics that makes customers from all over sub Saharan Africa successful in the wide range of industries. As a **reliable** experienced supplier of quality products, we offer everything from injection moulded fittings and extruded pipe as well as semi finished products from a single internationally recognized and established supplier.

**Polypropylene** is a synthetic resin built up by the polymerization of propylene. One of the important family members of the Polyolefin resins, polypropylene is tough, flexible, and light weight and can Handle temperatures of -5 to 90 deg C.



## Supply Range

Full Pressure rated injection moulded Fittings, in the following sizes:

- Dia 20 TO 500MM in PN6 and Pn10.
- Pipes in PE100-RC Dia 20-
- Electrofusion Couplings in Dia 20-355 Pn10
- Socket Fusions fittings 20-110mm
- Double containment piping systems

## Semi-finished products

- Sheets in 2x1,3x1.5 and 4x2 in various thicknesses.
- Concrete protective liners in various thicknesses
- Solid Bar in Dia 15-640mm
- Welding Rod in Dia 3,4 and 5mm Round and 5x3 Triangular.

# PP BUTT WELD FITTINGS



PP/PE MULTI BEND AGRU CODE 068				
To replace the CUB/GOL & CUL range				
PPR				
d	CODE	PN 6 SDR 17	CODE	PN 10 SDR 11
20			PPBWCUMB0020100	
25			PPBWCUMB0025100	
32			PPBWCUMB0032100	
40			PPBWCUMB0040100	
50			PPBWCUMB0050100	
63	PPBWCUMB0063060		PPBWCUMB0063100	
75	PPBWCUMB0075060		PPBWCUMB0075100	
90	PPBWCUMB0090060		PPBWCUMB0090100	
110	PPBWCUMB0110060		PPBWCUMB0110100	
125	PPBWCUMB0125060		PPBWCUMB0125100	
140	PPBWCUMB0140060		PPBWCUMB0140100	
160	PPBWCUMB0160060		PPBWCUMB0160100	
180	PPBWCUMB0180060		PPBWCUMB0180100	
200	PPBWCUMB0200060		PPBWCUMB0200100	
225	PPBWCUMB0225060		PPBWCUMB0225100	
250	PPBWCUMB0250060		PPBWCUMB0250100	
280	PPBWCUMB0280060		PPWBCUMB0280100	
315	PPBWCUMB0315060		PPBWCUMB0315100	

TEE 45° AGRU CODE 036				
Long spigot injection Moulding				
Butt + Socket welding				
d	CODE	PN 6 SDR 17	CODE	PN 10 SDR 11
32	PPBWLAT0032060		PPBWLAT0032100	
40	PPBWLAT0040060		PPBWLAT0040100	
50	PPBWLAT0050060		PPBWLAT0050100	
63	PPBWLAT0063060		PPBWLAT0063100	
75	PPBWLAT0075060		PPBWLAT0075100	
90	PPBWLAT0090060		PPBWLAT0090100	
110	PPBWLAT0110060		PPBWLAT0110100	
125	PPBWLAT0125060		PPBWLAT0125100	
140	PPBWLAT0140060		PPBWLAT0140100	
160	PPBWLAT0160060		PPBWLAT0160100	
180	PPBWLAT0180060		PPBWLAT0180100	
200	PPBWLAT0200060		PPBWLAT0200100	
225	PPBWLAT0225060		PPBWLAT0225100	

BENDS 90 - AGRU CODE 001				
SHORT RADIUS MOULDED FROM				
PPR				
d	CODE PPBW-CUB-	PN 6 SDR 17	CODE PPBW-CUB-	PN 10 SDR 11
250	PPBWCUB0250060		PPBWCUB0250100	
280	PPBWCUB0280060		PPBWCUB0280100	
315	PPBWCUB0315060		PPBWCUB0315100	
355	PPBWCUB0355060		PPBWCUB0355100	
400	PPBWCUB0400060		PPBWCUB0400100	
450	PPBWCUB0450060		PPBWCUB0450100	
500	PPBWCUB0500060		PPBWCUB0500100	

▲ SDR33 Fittings available on special request

TEES AGRU CODE 006				
REINFORCED MOULDED FROM				
PPR				
d	CODE	PN 6 SDR 17	CODE	PN 10 SDR11
20			PPBWTIB0020100	
25			PPBWTIB0025100	
32			PPBWTIB0032100	
40			PPBWTIB0040100	
50			PPBWTIB0050100	
63	PPBWTIB0063060		PPBWTIB0063100	
75	PPBWTIB0075060		PPBWTIB0075100	
90	PPBWTIB0090060		PPBWTIB0090100	
110	PPBWTIB0110060		PPBWTIB0110100	
125	PPBWTIB0125060		PPBWTIB0125100	
140	PPBWTIB0140060		PPBWTIB0140100	
160	PPBWTIB0160060		PPBWTIB0160100	
180	PPBWTIB0180060		PPBWTIB0180100	
200	PPBWTIB0200060		PPBWTIB0200100	
225	PPBWTIB0225060		PPBWTIB0225100	
250	PPBWTIB0250060		PPBWTIB0250100	
280	PPBWTIB0280060		PPBWTIB0280100	
315	PPBWTIB0315060		PPBWTIB0315100	
355	PPBWTIB0355060		PPBWTIB0355100	
400	PPBWTIB0400060		PPBWTIB0400100	
450	PPBWTIB0450060		PPBWTIB0450100	
500	PPBWTIB0500060		PPBWTIB0500100	

TEES- REDUCED- AGRU CODE 016				
Reinforced moulded from				
PPR				
d	CODE	PN 6 SDR 17	CODE	PN 10 SDR 11
90x32			PPBWTRB00900032100	
90x50			PPBWTRB00900050100	
110x32			PPBWTRB01100032100	
110x50			PPBWTRB01100050100	
125x63			PPBWTRB01250063100	
140x63	PPBWTRB01400063060		PPBWTRB01400063100	
140x75	PPBWTRB01400075060		PPBWTRB01400075100	
140x90	PPBWTRB01400090060		PPBWTRB01400090100	
140x110	PPBWTRB01400110060		PPBWTRB01400110100	
160x125	PPBWTRB01600125060		PPBWTRB01600125100	
180x63	PPBWTRB01800063060		PPBWTRB01800063100	
180x75	PPBWTRB01800075060		PPBWTRB01800075100	
180x110	PPBWTRB01800110060		PPBWTRB01800125100	
180x125	PPBWTRB01800125060		PPBWTRB02250125100	
225x125	PPBWTRB02250125060			



PP BUTT WELD FITTINGS



STUB FLANGES-AGRU CODE 069				
MOULDED FROM				
PPR				
d	CODE	PN6 SDR17	CODE	PN10 SDR11
20			PPBWQRB0020100	
25			PPBWQRB0025100	
32			PPBWQRB0032100	
40			PPBWQRB0040100	
50			PPBWQRB0050100	
63	PPBWQRB0063060		PPBWQRB0063100	
75	PPBWQRB0075060		PPBWQRB0075100	
90	PPBWQRB0090060		PPBWQRB0090100	
110	PPBWQRB0110060		PPBWQRB0110100	
125	PPBWQRB0125060		PPBWQRB0125100	
140	PPBWQRB0140060		PPBWQRB0140100	
160	PPBWQRB0160060		PPBWQRB0160100	
180	PPBWQRB0180060		PPBWQRB0180100	
200	PPBWQRB0200060		PPBWQRB0200100	
225	PPBWQRB0225060		PPBWQRB0225100	
250	PPBWQRB0250060		PPBWQRB0250100	
280	PPBWQRB0280060		PPBWQRB0280100	
315	PPBWQRB0315060		PPBWQRB0315100	
355	PPBWQRB0355060		PPBWQRB0355100	
400	PPBWQRB0400060		PPBWQRB0400100	
450	PPBWQRB0450060		PPBWQRB0450100	
500	PPBWQRB0500060		PPBWQRB0500100	
560	PPBWQRB0560060			
630	PPBWQRB0630060		PPBWQRB0630100	

REDUCERS-CONCENTRIC-AGRU CODE				
007 Mounded from				
PPR				
d	CODE	PN6 SDR17	CODE	PN10 SDR11
			PPBWRLC00630016100	
75x32mm	PPBWRLC00750032060		PPBWRLC00750032100	
110x63mm	PPBWRLC01100063060		PPBWRLC01100063100	
125x75mm	PPBWRLC01250075060		PPBWRLC01250075100	
160x110mm	PPBWRLC01600110060		PPBWRLC01600110100	
225x160mm	PPBWRLC02250160060		PPBWRLC02250160100	
315x225mm	PPBWRLC03150225060		PPBWRLC03150225100	
450x315mm	PPBWRLC04500315060		PPBWRLC04500315100	
630x450mm	PPBWRLC06300450060			

▲ SDR33 Fittings available on special request

REDUCERS-CONCENTRIC-AGRU CODE 009				
Short pattern moulded				
PPR				
d	CODE	PN6 SDR17	CODE	PN10 SDR11
25x20			PPBWRSC00250020100	
32x20			PPBWRSC00320020100	
32x25			PPBWRSC00320025100	
40x20			PPBWRSC00400020100	
40x25			PPBWRSC00400025100	
40x32			PPBWRSC00400032100	
50x25			PPBWRSC00500025100	
50x32			PPBWRSC00500032100	
50x40			PPBWRSC00500040100	
63x32			PPBWRSC00630032100	
63x40			PPBWRSC00630040100	
63x50			PPBWRSC00630050100	
75x32			PPBWRSC00750032100	
75x40			PPBWRSC00750040100	
70x50			PPBWRSC00750050100	
75x63	PPBWRSC00750063060		PPBWRSC00750063100	
90x50			PPBWRSC00900050100	
90x63	PPBWRSC00900063060		PPBWRSC00900063100	
90x75	PPBWRSC00900075060		PPBWRSC00900075100	
110x50			PPBWRSC01100050100	
110x63	PPBWRSC01100063060		PPBWRSC01100063100	
110x75	PPBWRSC01100075060		PPBWRSC01100075100	
110x90	PPBWRSC01100090060		PPBWRSC01100090100	
125x63	PPBWRSC01250063060		PPBWRSC01250063100	
125x75	PPBWRSC01250075060		PPBWRSC01250075100	
125x90	PPBWRSC01250090060		PPBWRSC01250090100	
125x110	PPBWRSC01250110060		PPBWRSC01250110100	
140x75	PPBWRSC01400075060		PPBWRSC01400075100	
140x90	PPBWRSC01400090060		PPBWRSC01400090100	
140x110	PPBWRSC01400110060		PPBWRSC01400110100	
140x125	PPBWRSC01400125060		PPBWRSC01400125100	
160x90	PPBWRSC01600090100		PPBWRSC01600090100	
160x110	PPBWRSC01600110060		PPBWRSC01600110100	
160x125	PPBWRSC01600125060		PPBWRSC01600125100	
160x140	PPBWRSC01600140060		PPBWRSC01600140100	
180x90	PPBWRSC01800090060		PPBWRSC01800090100	
180x110	PPBWRSC01800110060		PPBWRSC01800110100	
180x125	PPBWRSC01800125060		PPBWRSC01800125100	
180x140	PPBWRSC01800140060		PPBWRSC01800140100	
180x160	PPBWRSC01800160060		PPBWRSC01800160100	
200x140	PPBWRSC02000140060		PPBWRSC02000140100	
200x160	PPBWRSC02000160060		PPBWRSC02000160100	
200x180	PPBWRSC02000180060		PPBWRSC02000180100	
225x140	PPBWRSC02250140060		PPBWRSC02250140100	
225x160	PPBWRSC02250160060		PPBWRSC02250160100	
225x180	PPBWRSC02250180060		PPBWRSC02250180100	
225x200	PPBWRSC02250200060		PPBWRSC02250200100	
250x160	PPBWRSC02500160060		PPBWRSC02500160100	
250x180	PPBWRSC02500180060		PPBWRSC02500180100	
250x200	PPBWRSC02500200060		PPBWRSC02500200100	
250x225	PPBWRSC02500225060		PPBWRSC02500225100	
280x200	PPBWRSC02800225060		PPBWRSC02800225100	
280x225	PPBWRSC02800250060		PPBWRSC02800250100	
315x200	PPBWRSC03150200060		PPBWRSC03150200100	
315x225	PPBWRSC03150225060		PPBWRSC03150225100	
315x250	PPBWRSC03150250060		PPBWRSC03150250100	
315x280	PPBWRSC03150280060		PPBWRSC03150280100	

# PP ELONGATED FITTING FOR BUTT & ELECTRO-FUSION



PP ELECTRO FUSION SOCKET	
AGRU CODE 375 For PP pipes in SDR 26/17,6/11,7.4	
d	CODE
20	PPEF375002011
25	PPEF375002511
32	PPEF375003211
40	PPEF375004011
50	PPEF375005011
63	PPEF375006311
75	PPEF375007511
90	PPEF375009011
110	PPEF375011011
125	PPEF375012511
140	PPEF375014011
160	PPEF375016011
180	PPEF375018011
200	PPEF375020011
225	PPEF375022511
250	PPEF375025011
280	PPEF375028011
315	PPEF375031511
355	PPEF375035511

END CAPS - AGRU CODE 064 Elongated moulded from PPR Available in SDR 11 PN 10 only		
d	CODE	Pn10 SDR 11
20	PPBWCA0020100	
25	PPBWCA0025100	
32	PPBWCA0032100	
40	PPBWCA0040100	
50	PPBWCA0050100	
63	PPBWCA0063100	
75	PPBWCA0075100	
90	PPBWCA0090100	
110	PPBWCA0110100	
125	PPBWCA0125100	
140	PPBWCA0140100	
160	PPBWCA0160100	
180	PPBWCA0180100	
200	PPBWCA0200100	
225	PPBWCA0225100	
250	PPBWCA0250100	
280	PPBWCA0280100	
315	PPBWCA0315100	

REDUCERS- AGRU CODE 067 Concentric elongated moulded from  PPR Available in SDR 11 (pn10) only		
d	CODE	PN 10 SDR 11
25X20	PPBWRCE00250020100	
32X20	PPBWRCE00320020100	
32X25	PPBWRCE00320025100	
40X20	PPBWRCE00400020100	
40X25	PPBWRCE00400025100	
40X32	PPBWRCE00400032100	
50x25	PPBWRCE00500025100	
50x32	PPBWRCE00500032100	
50x40	PPBWRCE00500040100	
63x32	PPBWRCE00630032100	
63x40	PPBWRCE00630040100	
63x50	PPBWRCE00630050100	
75x50	PPBWRCE00750050100	
75x63	PPBWRCE00750063100	
90x63	PPBWRCE00900063100	
90x75	PPBWRCE00900075100	
110x63	PPBWRCE01100063100	
110x90	PPBWRCE01100090100	
125x63	PPBWRCE01250063100	
125x90	PPBWRCE01250090100	
125x110	PPBWRCE01250110100	
140x125	PPBWRCE01400125100	
160x90	PPBWRCE01600090100	
160x110	PPBWRCE01600110100	
160x125	PPBWRCE01600125100	
160x140	PPBWRCE01600140100	
180x125	PPBWRCE01800125100	
180x160	PPBWRCE01800160100	
200x160	PPBWRCE02000160100	
225x160	PPBWRCE02250160100	
250x160	PPBWRCE02500160100	
250x200	PPBWRCE02500200100	
250x225	PPBWRCE02500225100	
280x250	PPBWRCE02800250100	
315x200	PPBWRCE03150200100	
315x225	PPBWRCE03150225100	
315x250	PPBWRCE03150250100	

REDUCERS- AGRU- CODE 069 Eccentric elongated moulded from  PPR Available in SDR11 ( pn10) only		
d	CODE	PN 10 SDR11
25x20	PPBWREE00250020100	
32x25	PPBWREE00320025100	
40x25	PPBWREE00400025100	
40x32	PPBWREE00400032100	
50x32	PPBWREE00500032100	
50x40	PPBWREE00500040100	
63x32	PPBWREE00630032100	
63x40	PPBWREE00630040100	
63x50	PPBWREE00630050100	
75x50	PPBWREE00750050100	
75x63	PPBWREE00750063100	
90x63	PPBWREE00900063100	
90x75	PPBWREE00900075100	
110x63	PPBWREE01100063100	
110x90	PPBWREE01100090100	
125x63	PPBWREE01250063100	
125x90	PPBWREE01250090100	
125x110	PPBWREE01250110100	
140x125	PPBWREE01400125100	
160x90	PPBWREE01600090100	
160x110	PPBWREE01600110100	
160x125	PPBWREE01600125100	
160x140	PPBWREE01600140100	
180x90	PPBWREE01800090100	
180x125	PPBWREE01800125100	
180x160	PPBWREE01800160100	
200x160	PPBWREE02000160100	
200x180	PPBWREE02000180100	
225x160	PPBWREE02250160100	
225x180	PPBWREE02250180100	
225x200	PPBWREE02250200100	
250x200	PPBWREE02500200100	
250x225	PPBWREE02500225100	

\* NON STOCK ITEM BUT AVAILABLE ON REQUEST

# PP ELONGATED FITTING FOR BUTT & ELECTRO-FUSION



TEES-AGRU CODE 065					
Reinforced with reduced branch and long legs moulded from PPR					
d	CODE	PN 6	SDR17	CODE	PN 10 SDR11
63 X 25					
63 X 32					
63x50	PPBWTRL00630050060			PPBWTRL00630050100	
75x32				PPBWTRL00750032100	
75x50	PPBWTRL00750050060			PPBWTRL00750050100	
75x63	PPBWTRL00750063060			PPBWTRL00750063100	
90x63	PPBWTRL00900063060			PPBWTRL00900063100	
90x75	PPBWTRL00900075060			PPBWTRL00900075100	
110x63	PPBWTRL01100063060			PPBWTRL01100063100	
110x75	PPBWTRL01100075060			PPBWTRL01100075100	
110x90	PPBWTRL01100090060			PPBWTRL01100090100	
125x63	PPBWTRL01250063060			PPBWTRL01250063100	
125x90	PPBWTRL01250090060			PPBWTRL01250090100	
125x110	PPBWTRL01250110060			PPBWTRL01250110100	
160x63	PPBWTRL01600063060			PPBWTRL01600063100	
160x75	PPBWTRL01600075060			PPBWTRL01600075100	
160x90	PPBWTRL01600090060			PPBWTRL01600090100	
160x110	PPBWTRL01600110060			PPBWTRL01600110100	
180x90	PPBWTRL01800090060			PPBWTRL01800090100	
180x110				PPBWTRL01800110100	
180x160	PPBWTRL01800160060			PPBWTRL01800160100	
200x63	PPBWTRL02000063060			PPBWTRL02000063100	
200x90	PPBWTRL02000090060			PPBWTRL02000090100	
200x110	PPBWTRL02000110060			PPBWTRL02000110100	
200x125	PPBWTRL02000125060			PPBWTRL02000125100	
200x160	PPBWTRL02000160060			PPBWTRL02000160100	
225x75	PPBWTRL02250075060			PPBWTRL02250075100	
225x90	PPBWTRL02250090060			PPBWTRL02250090100	
225x110	PPBWTRL02250110060			PPBWTRL02250110100	
225x160	PPBWTRL02250160060			PPBWTRL02250160100	
225x180	PPBWTRL02250180060			PPBWTRL02250180100	
315x110	PPBWTRL03150110060			PPBWTRL03150110100	
315x160	PPBWTRL03150160060			PPBWTRL03150160100	
315x225	PPBWTRL03150225060			PPBWTRL03150225100	
315x250	PPBWTRL03150250060			PPBWTRL03150250100	
400 X 225	PPBWTRL04000225060				

ELBOWS 45 - AGRU CODE 060				
Elongated moulded from PPR				
d	CODE	PN 6 SDR17	CODE	PN10 SDR11
20			PPBWGYB0020100	
25			PPBWGYB0025100	
32			PPBWGYB0032100	
40			PPBWGYB0040100	
50			PPBWGYB0050100	
63	PPBWGYB0063060		PPBWGYB0063100	
75	PPBWGYB0075060		PPBWGYB0075100	
90	PPBWGYB0090060		PPBWGYB0090100	
110	PPBWGYB0110060		PPBWGYB0110100	
125	PPBWGYB0125060		PPBWGYB0125100	
140	PPBWGYB0140060		PPBWGYB0140100	
160	PPBWGYB0160060		PPBWGYB0160100	
180	PPBWGYB0180060		PPBWGYB0180100	
200	PPBWGYB0200060		PPBWGYB0200100	
225	PPBWGYB0225060		PPBWGYB0225100	
250	PPBWGYB0250060		PPBWGYB0250100	
280	PPBWGYB0280060		PPBWGYB0280100	
315	PPBWGYB0315060		PPBWGYB0315100	

TEES-AGRU CODE 066		
Reinforced with long legs moulded from PPR		
Available in SDR11 (pn10) only		
d	CODE	PN 10 SDR 11
20	PPBWTL0020100	
25	PPBWTL0025100	
32	PPBWTL0032100	
40	PPBWTL0040100	
50	PPBWTL0050100	
63	PPBWTL0063100	
75	PPBWTL0075100	
90	PPBWTL0090100	
110	PPBWTL0110100	
125	PPBWTL0125100	
140	PPBWTL0140100	
160	PPBWTL0160100	
180	PPBWTL0180100	
200	PPBWTL0200100	
225	PPBWTL0225100	
250	PPBWTL0250100	
280	PPBWTL0280100	
315	PPBWTL0315100	

STUB FLANGES - AGRU CODE		
062 According to DIN standard		
Elongated moulded from PPR		
Available in SDR11 (PN10) only		
d	CODE	PN 10 SDR11
20	PPBWQRL0020100	
25	PPBWQRL0025100	
32	PPBWQRL0032100	
40	PPBWQRL0040100	
50	PPBWQRL0050100	
63	PPBWQRL0063100	
75	PPBWQRL0075100	
90	PPBWQRL0090100	
110	PPBWQRL0110100	
125	PPBWQRL0125100	
140	PPBWQRL0140100	
160	PPBWQRL0160100	
180	PPBWQRL0180100	
200	PPBWQRL0200100	
225	PPBWQRL0225100	
250	PPBWQRL0250100	
280	PPBWQRL0280100	
315	PPBWQRL0315100	

# PP SOCKET FUSION PLAIN FITTINGS



ELBOW 45	
AGRU- CODE 050 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWGYM0020
25	PPFWGYM0025
32	PPFWGYM0032
40	PPFWGYM0040
50	PPFWGYM0050
63	PPFWGYM0063
75	PPFWGYM0075
90	PPFWGYM0090
110	PPFWGYM0110

ELBOW 90	
AGRU CODE 051 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWGOM0020
25	PPFWGOM0025
32	PPFWGOM0032
40	PPFWGOM0040
50	PPFWGOM0050
63	PPFWGOM0063
75	PPFWGOM0075
90	PPFWGOM0090
110	PPFWGOM0110

TEES	
AGRU- CODE 056 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWTIM0020
25	PPFWTIM0025
32	PPFWTIM0032
40	PPFWTIM0040
50	PPFWTIM0050
63	PPFWTIM0063
75	PPFWTIM0075
90	PPFWTIM0090
110	PPFWTIM0110

FLANGE ADAPTOR	
AGRU CODE 052 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWQRM0020
25	PPFWQRM0025
32	PPFWQRM0032
40	PPFWQRM0040
50	PPFWQRM0050
63	PPFWQRM0063
75	PPFWQRM0075
90	PPFWQRM0090
110	PPFWQRM0110

SOCKETS	
AGRU CODE 053 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWMAM0020
25	PPFWMAM0025
32	PPFWMAM0032
40	PPFWMAM0040
50	PPFWMAM0050
63	PPFWMAM0063
75	PPFWMAM0075
90	PPFWMAM0090
110	PPFWMAM0110

REDUCERS	
AGRU CODE 057 FOR SOCKET WELDING MADE OUT OF PP-R	
d	CODE
25x20	PPFWRLM00250020
32x20	PPFWRLM00320020
32x25	PPFWRLM00320025
40x20	PPFWRLM00400020
40x25	PPFWRLM00400025
40x32	PPFWRLM00400032
50x20	PPFWRLM00500020
50x25	PPFWRLM00500025
50x32	PPFWRLM00500032
50x40	PPFWRLM00500040
63x25	PPFWRLM00630025
63x32	PPFWRLM00630032
63x40	PPFWRLM00630040
63x50	PPFWRLM00630050
75x63	PPFWRLM00750063
90x63	PPFWRLM00900063
90x75	PPFWRLM00900075
110x63	PPFWRLM01100063
110x90	PPFWRLM01100090

END CAPS	
AGRU CODE 054 FOR SOCKET WELDING MOULDED OUT OF PP-R	
d	CODE
20	PPFWCAM0020
25	PPFWCAM0025
32	PPFWCAM0032
40	PPFWCAM0040
50	PPFWCAM0050
63	PPFWCAM0063
75	PPFWCAM0075
90	PPFWCAM0090
110	PPFWCAM0110

TEES REDUCED	
AGRU CODE 055 FOR WELDING SOCKET MOULDED OUT OF PP-R	
d	CODE
25x20	PPFWTRM00250020
32x20	PPFWTRM00320020
32x25	PPFWTRM00320025
40x20	PPFWTRM00400020
40x25	PPFWTRM00400025
40x32	PPFWTRM00400032
50x20	PPFWTRM00500020
50x25	PPFWTRM00500025
50x32	PPFWTRM00500032
50x40	PPFWTRM00500040
63x25	PPFWTRM00630025
63x32	PPFWTRM00630032
63x40	PPFWTRM00630040
63x50	PPFWTRM00630050



# PP SOCKET FUSION ADAPTOR/PLAIN FITTINGS



<b>SOCKET UNION BOM</b>	
<b>AGRU CODE 024.11 SPIGOT FOR SOCKET WELDING</b>	
d	CODE
20	PPFWBOM0020
25	PPFWBOM0025
32	PPFWBOM0032
40	PPFWBOM0040
50	PPFWBOM0050
63	PPFWBOM0063
75	PPFWBOM0075
90	PPFWBOM0090

<b>ADAPTOR AM3M AGRU CODE 035 FOR SOCKET WELDING MOULDED OUT OF PP-R/ PEHD WITH MALE THREAD</b>	
d x d x BSP	CODE
20x25x3/4	PPFWAM3M002000250750
25x32x1	PPFWAM3M002500321000
32x40x1,1/4	PPFWAM3M003200401250
40x50x1,1/2	PPFWAM3M004000501500
50x63x2	PPFWAM3M005000632000

<b>SOCKET COUPLINGS MA3M AGRU CODE 034 One end plain for socket welding, the other one parallel threaded female</b>	
d	CODE
20x1/2	PPFWMA3M002000500
25x3/4	PPFWMA3M002500750
32x1	PPFWMA3M00321000
40x1,1/4	PPFWMA3M00401250
50x1,1/2	PPFWMA3M00501500
63x2	PPFWMA3M00632000

**MAX. PRESSURE RATING PP SOCKET SUSION**  
Fittings 20 -90 PN16 110PN10  
Unions Threaded Fittings 10 bar

# BACKING RINGS



<b>PP BACKING RINGS</b> WITH STEEL INSERT AS PER ANSI STANDARD BLACK PP COATING AVAILABLE ON SPECIAL REQUEST	
AGRU CODE 013 Dia	CODE
20	PPBWPBR0020160A
25	PPBWPBR0025160A
32	PPBWPBR0032160A
40	PPBWPBR0040160A
50	PPBWPBR0050160A
63	PPBWPBR0063160A
75	PPBWPBR0075160A
90	PPBWPBR0090160A
110/125	PPBWPBR0110160A
160	PPBWPBR0160160A
200/225	PPBWPBR0200160A
250	PPBWPBR0250160A
315	PPBWPBR0315160A

<b>BLANK FLANGES</b> WITH STEEL INSERT AS PER ANSI STANDARD AVAILABLE IN BLACK PP ONLY	
AGRU CODE 043 Dia	CODE
20	PPBWFLB0020160A
25	PPBWFLB0025160A
32	PPBWFLB0032160A
40	PPBWFLB0040160A
50	PPBWFLB0050160A
63	PPBWFLB0063160A
75	PPBWFLB0075160A
90	PPBWFLB0090160A
110/125	PPBWFLB0110160A
160	PPBWFLB0160160A
20/250	PPBWFLB0200160A
250	PPBWFLB0250160A
315	PPBWFLB0315100A

<b>BLACK FLANGES WITH STEEL INSERT</b> AS PER DIN STANDARD	
AGRU CODE 045 DIA	CODE
20	PPBWFLB0020160B
25	PPBWFLB0025160B
32	PPBWFLB0032160B
40	PPBWFLB0040160B
50	PPBWFLB0050160B
63	PPBWFLB0063160B
75	PPBWFLB0075160B
90	PPBWFLB0090160B
110/125	PPBWFLB0110160B
140	PPBWFLB0140160B
160/180	PPBWFLB0160160B
200/225	PPBWFLB0200160B
250/280	PPBWFLB0250160B
315	PPBWFLB0315160B
355	PPBWFLB0355160B
400	PPBWFLB0400160B

<b>PP BACKING RINGS</b> WITH STEEL INSERT AS PER DIN STANDARD BLACK PP COATING AVAILABLE ON SPECIAL REQUEST	
AGRU CODE 014/015/025 DIA	CODE
20	PPBWPBR0020160B
25	PPBWPBR0025160B
32	PPBWPBR0032160B
40	PPBWPBR0040160B
50	PPBWPBR0050160B
63	PPBWPBR0063160B
75	PPBWPBR0075160B
90	PPBWPBR0090160B
110	PPBWPBR0110160B
125	PPBWPBR0125160B
140	PPBWPBR0140160B
160	PPBWPBR0160160B
180	PPBWPBR0180160B
200	PPBWPBR0200160B
225	PPBWPBR0225160B
250	PPBWPBR0250160B
280	PPBWPBR0280160B
315	PPBWPBR0315160B
355	PPBWPBR0355160B
400	PPBWPBR0400160B
450	PPBWPBR0450160B
500	PPBWPBR0500160B

# PP EXTRUDED SHEETS, BARS & WELDING RODS



AGRU CODE 600 SHEETS	
THICKNESS mm	PP
	kg/pc
1	3,65
2	5,47
4	7,30
5	9,12
6	10,90
8	14,60
10	18,20
12	21,90
15	27,40
20	36,50
25	45,60
30	54,70
35	63,80
40	73,00

AGRU CODE 600 SHEETS EXTRUDED		SIZE 3000 x 1500 mm
THICKNESS mm	PP	PP grey
	kg/p	
3	12,30	
4	16,40	
5	25,00	
6	24,60	
8	32,80	
10	41,10	
12	49,30	
15	61,60	
20	82,10	
25	103,00	
30	123,00	
35	144,00	
40	164,00	
50	205,00	

AGRU CODE 600 SHEETS EXTRUDED		
THICKNESS mm	PP	SIZE 4000 x 2000 mm PP grey
	kg/pc	
3	21,90	
4	29,20	
5	36,50	
6	43,80	
8	58,40	
10	73,00	
12	87,60	
15	109,00	
20	146,00	
25	182,50	
30	219,00	
35	255,00	
40	292,00	

CODE 610	SIZE 2000 x 1000mm	SIZE 3000 x 1500mm
PP FABRIC BACKED EXTRUDED SHEETS		
THICKNESS mm		
	3	
	4	
	5	
	6	

AGRU-ULTRA GRIN CPL	
CODE 562	
FORMAT 4000 X 2000mm	
THICKNESS mm	PP
	CODE 562
	Grey extruded
± 3.0	
5.0	
8.0	

ROUND BARS		
AGRU CODE 800		
OUT OF PP AND PE 80		
according to DIN 16980		
standard length: 1m		
special lengths on request		
d	Weight kg/m PP	CODE PPRB-BAR
15	0,18	PPRBBAR0015
20	0,30	PPRBBAR0020
25	0,47	PPRBBAR0025
30	0,67	PPRBBAR0030
35	0,93	PPRBBAR0035
40	1,19	PPRBBAR0040
45	1,51	PPRBBAR0045
50	1,87	PPRBBAR0050
55	2,26	PPRBBAR0055
60	2,69	PPRBBAR0060
70	3,64	PPRBBAR0070
75	4,19	PPRBBAR0075
80	4,74	PPRBBAR0080
90	5,99	PPRBBAR0090
100	7,40	PPRBBAR0100
110	8,94	PPRBBAR0110
125	11,60	PPRBBAR0125
140	14,50	PPRBBAR0140
160	18,90	PPRBBAR0160
180	23,90	PPRBBAR0180
200	30,00	PPRBBAR0200
220	36,10	PPRBBAR0220
250	46,50	PPRBBAR0250
300	66,70	PPRBBAR0300
325	70,90	PPRBBAR0325
370	96,30	PPRBBAR0370
410	125,00	PPRBBAR0410
510	193,00	PPRBBAR0510
640	303,00	PPRBBAR0640

WELDING ROD				
IN ROLLS OF APPROX. 3KG				
STANDARD STOCK				
PPFW- WEL-				
PROFILE AGRU	DIA	LENGTH	CODE	PPR/PPHP
AGRU		m/kg	PPFW	GREY
AGRU CODE 410	3,0	155	PPFWWEL0003410	
	4,0	85	PPFWWEL0004410	
	5,0	55	PPFWWEL0005410	
AGRU CODE 411	5x3	92	PPFWWEL00050003411	
	6x4	53	PPFWWEL00060004411	

Further dimensions and profiles on request - Standard stock rolls of 3kg. Locally produced welding rod available on request

Pressed sheets are available on request up to and including 120mm thickness.

PP Natural sheets and round bars are non-stock items, but are available.

Fullrange of sheeting in different colours specially for prosthetic application -available by special request,

± Availablein rolls of 50m L x 5m W. Also available with studs of 19mm. Normal studs 13mm All CPL liners have a 40mm smooth border for welding. Available with Polyester fabric Backing (code 563) Available with UV Stabilisation (code568)

# PPH PRESSURE PIPE



Ventilation pipe	AGRU	CODE	PN 2.5 SDR41	CODE	PN 3.2 SDR41	CODE	PN 4 SDR26	CODE	PN 6 SDR17.6	CODE	PN 10 SDR11	CODE	PN 16 SDR7.411
	DIA	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP	PPAP
	12												PPAP0012160
	16										PPAP0016100		
	20										PPAP0020100		PPAP0020160
	25										PPAP0025100		PPAP0025160
	32										PPAP0032100		PPAP0032160
	40							PPAP0032060			PPAP0040100		PPAP0040160
	50				PPAP0050032		PPAP0050040	PPAP0050060			PPAP0050100		PPAP0050160
	63				PPAP0063032		PPAP0063040	PPAP0063060			PPAP0063100		PPAP0063160
	75				PPAP0075032		PPAP0075040	PPAP0075060			PPAP0075100		PPAP0075160
	90				PPAP0090032		PPAP0090040	PPAP0090060			PPAP0090100		PPAP0090160
	110	PPAP0110025		PPAP0110032		PPAP0110040		PPAP0110060			PPAP0110100		PPAP0110160
	125	PPAP0125025		PPAP0125032		PPAP0125040		PPAP0125060			PPAP0125100		PPAP0125160
	140	PPAP0140025		PPAP0140032		PPAP0140040		PPAP0140060			PPAP0140100		PPAP0140160
	160	PPAP0160025		PPAP0160032		PPAP0160040		PPAP0160060			PPAP0160100		PPAP0160160
	180	PPAP0180025		PPAP0180032		PPAP0180040		PPAP0180060			PPAP0180100		
PPAPVEN0200PPH	200	PPAP0200025		PPAP0200032		PPAP0200040		PPAP0200060			PPAP0200100		
	225	PPAP0225025		PPAP0225032		PPAP0225040		PPAP0225060			PPAP0225100		
PPAPVEN0250PPH	250	PPAP0250025		PPAP0250032		PPAP0250040		PPAP0250060			PPAP0250100		
	280	PPAP0280025		PPAP0280032		PPAP0280040		PPAP0280060			PPAP0280100		
PPAPVEN0315PPH	315	PPAP0315025		PPAP0315032		PPAP0315040		PPAP0315060			PPAP0315100		
PPAPVEN0355PPH	355	PPAP0355025		PPAP0355032		PPAP0355040		PPAP0355060			PPAP0355100		
PPAPVEN0400PPH	400	PPAP0400025		PPAP0400032		PPAP0400040		PPAP0400060			PPAP0400100		
PPAPVEN0450PPH	450	PPAP0450025		PPAP0450032		PPAP0450040		PPAP0450060			PPAP0450100		
PPAPVEN0500PPH	500	PPAP0500025		PPAP0500032		PPAP0500040		PPAP0500060			PPAP0500100		
PPAPVEN0560PPH	560	PPAP0560025		PPAP0560032		PPAP0560040		PPAP0560060					
PPAPVEN0630PPH	630	PPAP0630025		PPAP0630032		PPAP0630040		PPAP0630060					
PPAPVEN0710PPH	710	PPAP0710025		PPAP0710032		PPAP0710040							
PPAPVEN0800PPH	800	PPAP0800025		PPAP0800032		PPAP0800040							
PPAPVEN0900PPH	900	PPAP0900025		PPAP0900032		PPAP0900040							
PPAPVEN1000PPH	1000	PPAP1000025		PPAP1000032									
PPAPVEN1200PPH	1200	PPAP1200025		PPAP1200032									
PPAPVEN1400PPH	1400	PPAP1400025											

✓ VENTILATION PIPE FROM 400mm DIAMETERS AVAILABLE ON REQUEST

# AGRU PVDF



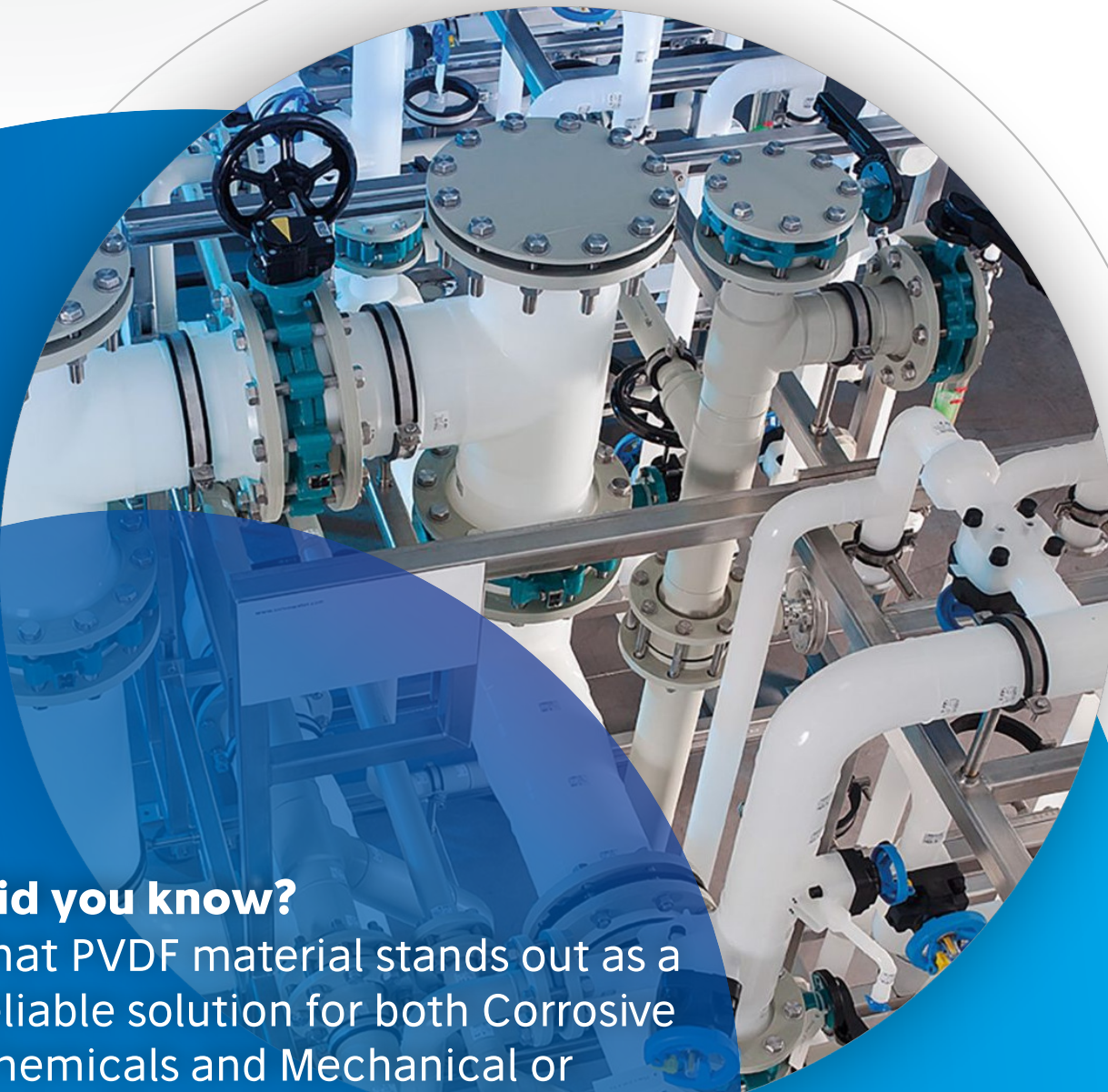
AGRU PVDF

## POLYVINYLIDENE FLUORIDE





# AGRU PVDF **PRODUCTS**



## **Did you know?**

That PVDF material stands out as a reliable solution for both Corrosive Chemicals and Mechanical or heavy Physical Applications!

# (PVDF) POLYVINYLIDENE FLUORIDE

PVDF is an extremely pure polymer which, compares to many other plastics, does not contain any stabilizers, UV thermostabilizers, plasticizers, lubricants or flame retarding additives. It's particularly suitable for conveying highly aggressive media such as Hydrochloric acid or Sulphuric acid. The temperature range of PVDF is 20 to 120 deg C.



Astoria Keymak offer the full comprehensive range of thermoplastics that makes customers from all over sub-Saharan Africa successful in a wide range of industries. As a reliable experienced supplier of quality products, we offer everything from injection moulded fittings and extruded pipe as well as semi-finished products from a single internationally recognized supplier.

## Supply Range

Full Pressure rated injection moulded fittings, in the following sizes: Dia 20 to 280mm PN10 and PN16 for Butt-Weld and IR Welding.

Pipes in PVDF IN Dia 20-400mm

Electrofusion fittings in Dia 20-63mm Pn16

Socket Fusion in Dia 20-110mm

Double containment piping systems

## Semi-finished products

Sheets in 2x1 and 3x1.5 in various thicknesses.

Concrete protective liners in various thicknesses

Solid Bar in Dia 10-340mm

Welding Rod in Dia 3 & 4mm Round and 5x3 Triangular.

Liners in Dia 20 to 400mm

# PVDF-SOCKET FUSION WELDING



**END CAPS**  
PN 20  
FOR SOCKET WELDING



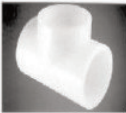
SDR 10 /PN 20/ S8	
AGRU CODE 054 d	CODE
20	PVDFCAF0020200
25	PVDFCAF0025200
32	PVDFCAF0032200
40	PVDFCAF0040200
50	PVDFCAF0050200
63	PVDFCAF0063200
75	PVDFCAF0075200
90	PVDFCAF0090200
110	PVDFCAF0110200

**ELBOWS 45°**  
PN 20  
FOR SOCKET WELDING



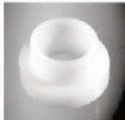
SDR 10 /PN 20/ S8	
AGRU CODE 050 d	CODE
20	PVDFGYF0020200
25	PVDFGYF0025200
32	PVDFGYF0032200
40	PVDFGYF0040200
50	PVDFGYF0050200
63	PVDFGYF0063200
75	PVDFGYF0075200
90	PVDFGYF0090200
110	PVDFGYF0110200

**TEES**  
PN 20  
FOR SOCKET WELDING



SDR 10 /PN 20/ S8	
AGRU CODE 056 d	CODE
16	PVDFTIF0016200
20	PVDFTIF0020200
25	PVDFTIF0025200
32	PVDFTIF0032200
40	PVDFTIF0040200
50	PVDFTIF0050200
63	PVDFTIF0063200
75	PVDFTIF0075200
90	PVDFTIF0090200
110	PVDFTIF0110200

**FLANGE ADAPTORS**  
PN 20, DIN STANDARD  
FOR SOCKET WELDING



SDR 10 /PN 20/ S8	
AGRU CODE 052 d	CODE
20	PVDFQRF0020200
25	PVDFQRF0025200
32	PVDFQRF0032200
40	PVDFQRF0040200
50	PVDFQRF0050200
63	PVDFQRF0063200
75	PVDFQRF0075200
90	PVDFQRF0090200
110	PVDFQRF0110200

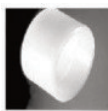
**ELBOWS 90°**  
PN 20  
FOR SOCKET WELDING



SDR 10 /PN 20/ S8	
AGRU	CODE
20	PVDFGOF0020200
25	PVDFGOF0025200
32	PVDFGOF0032200
40	PVDFGOF0040200
50	PVDFGOF0050200
63	PVDFGOF0063200
75	PVDFGOF0075200
90	PVDFGOF0090200
110	PVDFGOF0110200

HIGH PURITY AVAILABLE ON REQUEST

**SOCKETS**  
PN 20  
FOR SOCKET WELDING



SDR 10 /PN 20/ S8	
AGRU CODE 053 d	CODE
20	PVDFMAF0020200
25	PVDFMAF0025200
32	PVDFMAF0032200
40	PVDFMAF0040200
50	PVDFMAF0050200
63	PVDFMAF0063200
75	PVDFMAF0075200
90	PVDFMAF0090200
110	PVDFMAF0110200

ANSI STANDARD AVAILABLE ON REQUEST

# PVDF-SOCKET FUSION WELDING



REDUCERS PN 20 FOR SOCKET WELDING	
SDR 17 / PN 20 /S8	
AGRU	
CODE 057	CODE
d	
25/20	PVDFMRF00250020200
32/20	PVDFMRF00320020200
32/25	PVDFMRF00320025200
40/20	PVDFMRF00400020200
40/25	PVDFMRF00400025200
40/32	PVDFMRF00400032200
50/20	PVDFMRF00500020200
50/25	PVDFMRF00500025200
50/32	PVDFMRF00500032200
50/40	PVDFMRF00500040200
63/25	PVDFMRF00630025200
63/32	PVDFMRF00630032200
63/40	PVDFMRF00630040200
63/50	PVDFMRF00630050200
75/63	PVDFMRF00750063200
90/63	PVDFMRF00900063200
90/75	PVDFMRF00900075200
110/63	PVDFMRF01100063200
110/90	PVDFMRF01100090200

HIGH PURITY AVAILABLE ON REQUEST

PTFE SEAL CLEAN GASKET FOR PE/PP FLANGES SDR 11 - DIN DRILLING AGRU CODE 372	
d	CODE
20	PTFEGASK0020
25	PTFEGASK0025
32	PTFEGASK0032
40	PTFEGASK0040
50	PTFEGASK0050
63	PTFEGASK0063
75	PTFEGASK0075
90	PTFEGASK0090
110	PTFEGASK0110
125	PTFEGASK0125
140	PTFEGASK0140
160	PTFEGASK0160
180	PTFEGASK0180
200	PTFEGASK0200

ADAPTORS With female thread for socket welding	
SDR 33 / PN 10 /S16	
AGRU	
CODE 034	CODE
d	R-thread
20 x ½ "	PVDFAFF00200500100
25 x ¾"	PVDFAFF00250750100
32 x 1"	PVDFAFF00321000100
40 x 1 ¼"	PVDFAFF00401250100
50 x 1 ½"	PVDFAFF00501500100
63 x 2"	PVDFAFF00632000100

UNIONS FOR SOCKET WELDING	
SDR 33 / PN 10- VITON SEALING /S16	
AGRU	
CODE 024.11	CODE
d	
20	PVDFBOF0020100V
25	PVDFBOF0025100V
32	PVDFBOF0032100V
40	PVDFBOF0040100V
50	PVDFBOF0050100V
63	PVDFBOF0063100V
75	PVDFBOF0075100V
90	PVDFBOF0090100V

ADAPTORS WITH MALE THREAD FOR SOCKET WELDING SDR 33 / PN 10 /S16	
AGRU	
CODE 035	CODE
d	R-thread
20 x ¾"	PVDFAMF00200750100
25 x 1"	PVDFAMF00251000100
32 x 1 ¼"	PVDFAMF00321250100
40 x 1 ½"	PVDFAMF00401500100
50 x 2"	PVDFAMF00502000100

# PVDF-BUTT FUSION WELDING



MULTI BLEND 90° LONG SPIGOT INJECTION MOULDED		
SDR 33 / PN 10 / S 16		SDR 21/ PN 16 / S10
AGRU		
CODE 068	CODE	CODE
d		
20		PVDFCUMB0020160
25		PVDFCUMB0025160
32		PVDFCUMB0032160
40		PVDFCUMB0040160
50		PVDFCUMB0050160
63		PVDFCUMB0063160
75		PVDFCUMB0075160
90	PVDFCUMB0090100	PVDFCUMB0090160
110	PVDFCUMB0110100	PVDFCUMB0110160
140	PVDFCUMB0140100	PVDFCUMB0140160
160	PVDFCUMB0160100	PVDFCUMB0160160
225	PVDFCUMB0225100	PVDFCUMB0225160

BEND 90° Short spigot Butt IR-welding injection moulding		
SDR 33 / PN 10 / S16		SDR 21 / PN 16 / S10
AGRU		
CODE 001	CODE	CODE
d		
125	PVDFCUB0125100	PVDFCUB0125160
180	PVDFCUB0180100	PVDFCUB0180160
200	PVDFCUB0200100	PVDFCUB0200160
250	PVDFCUB0250100	PVDFCUB0250160
280	PVDFCUB0280100	PVDFCUB0280160
315	PVDFCUB0315100	

ELBOW 45° ELONGATED FOR BUTT WELDING + IR- FUSION		
SDR 33 / PN 10 / S16		SDR 21/ PN 16 / S10
AGRU		
CODE 060	CODE	CODE
d		
20		PVDFGYL0020160
25		PVDFGYL0025160
32		PVDFGYL0032160
40		PVDFGYL0040160
50		PVDFGYL0050160
63		PVDFGYL0063160
75		PVDFGYL0075160
90	PVDFGYL0090100	PVDFGYL0090160
110	PVDFGYL0110100	PVDFGYL0110160
140	PVDFGYL0140100	PVDFGYL0140160
160	PVDFGYL0160100	PVDFGYL0160160

HIGH PURITY AVAILABLE ON REQUEST

TEES FOR BUTT WELDING + IR FUSION		
SDR 33 / PN 10 / S16		SDR 21 / PN 16 / S10
AGRU		
CODE 006	CODE	CODE
d		
20		PVDFTIB0020160
25		PVDFTIB0025160
32		PVDFTIB0032160
40		PVDFTIB0040160
50		PVDFTIB0050160
63		PVDFTIB0063160
75		PVDFTIB0075160
90	PVDFTIB0090100	PVDFTIB0090160
110	PVDFTIB0110100	PVDFTIB0110160
125	PVDFTIB0125100	PVDFTIB0125160
140	PVDFTIB0140100	PVDFTIB0140160
160	PVDFTIB0160100	PVDFTIB0160160
180	PVDFTIB0180100	PVDFTIB0180160
200	PVDFTIB0200100	PVDFTIB0200160
225	PVDFTIB0225100	PVDFTIB0225160
250	PVDFTIB0250100	PVDFTIB0250160
280	PVDFTIB0280100	PVDFTIB0280160
315	PVDFTIB0315100	

TEES REDUCED, ELONGATED FOR BUTT WELDING		
SDR 33 / PN 10 / S16		SDR21 / PN 16 / S10
AGRU		
CODE 065	CODE	CODE
d		
63/20		PVDFTRL00630020160
63/25		PVDFTRL00630025160
63/32		PVDFTRL00630032160
90/63		PVDFTRL00900063160
110/63		PVDFTRL01100063160
110/90	PVDFTRL01100090100	PVDFTRL01100090160
160/63	PVDFTRL01600063100	PVDFTRL01600063160
160/90	PVDFTRL01600090100	PVDFTRL01600090160
160/110	PVDFTRL01600110100	PVDFTRL01600110160

REDUCERS CONCENTRIC, FOR BUTT WELDING + IR- FUSION		
SDR 33 / PN 10 / S16		SDR 21/ PN 16 / S10
AGRU		
CODE 060	CODE	CODE
d		
		PVDFRLB00630016160
110/63	PVDFRLB01100063100	PVDFRLB01100063160
160/110	PVDFRLB01600110100	
225/160	PVDFRLB02250160100	
315/225	PVDFRLB03150225100	



# PVDF-BUTT FUSION WELDING



REDUCERS MOULDED, CONCENTRIC FOR BUTT WELDING IF- FUSION ACCORDING TO DIN STANDARD		
SDR 33 / PN 10 / S16		SDR 21/PN 16 /S10
AGRU		
CODE 060	CODE	CODE
d		
25/20		PVDFRLL00250020160
32/20		PVDFRLL00320020160
32/25		PVDFRLL00320025160
40/20		PVDFRLL00400020160
40/25		PVDFRLL00400025160
40/32		PVDFRLL00400032160
50/20		PVDFRLL00500020160
50/25		PVDFRLL00500025160
50/32		PVDFRLL00500032160
50/40		PVDFRLL00500040160
63/25		PVDFRLL00630020160
63/32		PVDFRLL00630032160
63/40		PVDFRLL00630040160
63/50		PVDFRLL00630050160
75/50		PVDFRLL00750050160
75/63		PVDFRLL00750063160
90/50		PVDFRLL00900050160
90/63		PVDFRLL00900063160
90/75		PVDFRLL00900075160
110/63		PVDFRLL01100063160
110/90	PVDFRLL01100090100	PVDFRLL01100090160
140/63		PVDFRLL01400063160
140/110	PVDFRLL01400110100	PVDFRLL01400110160
160/110*	PVDFRLL01600110100	PVDFRLL01600110160
160/140*	PVDFRLL01600140100	PVDFRLL01600140100
225/160*	PVDFRLL02250160100	PVDFRLL02250160160
250/160*	PVDFRLL02500160100	PVDFRLL02500160160
250/225*	PVDFRLL02500225100	PVDFRLL02500225160
315/160*	PVDFRLL03150160100	
315/250*	PVDFRLL03150250100	

END CAPS MOULDED WITH ELONGATED LEGS, FIR BUTT WELDING + IR FUSION		
SDR 21 / PN 16 / S10		SDR 21 / PN 16 / S10
AGRU		
CODE 064	CODE	CODE
d		
20		PVDFCAB0020160
25		PVDFCAB0025160
32		PVDFCAB0032160
40		PVDFCAB0040160
50		PVDFCAB0050160
63		PVDFCAB0063160
75		PVDFCAB0075160
90	PVDFCAB0090110	PVDFCAB0090160
110	PVDFCAB0110110	PVDFCAB0110160

\* NON STOCK ITEM BUT AVAILABLE ON REQUEST

STUB FLANGES FOR BUTT WELDING IR FUSION ACCORDING TO DIN STANDARD		
SDR 33 / PN 10 / S16		SDR 21/PN 16 /S10
AGRU		
CODE 012	CODE	CODE
d		
20		PVDFQRB0020160D
25		PVDFQRB0025160D
32		PVDFQRB0032160D
40		PVDFQRB0040160D
50		PVDFQRB0050160D
63		PVDFQRB0063160D
75		PVDFQRB0075160D
90	PVDFQRB0090100D	PVDFQRB0090160D
110	PVDFQRB0110100D	PVDFQRB0110160D
125	PVDFQRB0125100D	PVDFQRB0125160D
140	PVDFQRB0140100D	PVDFQRB0140160D
160	PVDFQRB0160100D	PVDFQRB0160160D
180	PVDFQRB0180100D	PVDFQRB0180160D
200	PVDFQRB0200100D	PVDFQRB0200160D
225	PVDFQRB0225100D	PVDFQRB0225160D
250	PVDFQRB0250100D	PVDFQRB0250160D
280	PVDFQRB0280100D	PVDFQRB0280160D
315	PVDFQRB0315100D	

ADAPTORS WITH MALE THREAD, FOR BUTT WELDING +- IR FUSION	
SDR 21 /PN 10/ S10	
AGRU	
CODE 033	CODE
d	R-thread
20 x ½ "	PVDFAMB00200500100
25 x 3/4"	PVDFAMB00250750100
32 x 1"	PVDFAMB00321000100
40 x 1, 1/4"	PVDFAMB00401250100
50 x 1, 1/2"	PVDFAMB00501500100
63 x 2"	PVDFAMB00632000100

ADAPTORS WITH FEMALE THREAD, FOR BUTT WELDING + - IR FUSION	
SDR 33 / PN 10 / S16	
AGRU	
CODE 060	CODE
d	
20X1/2"	PVDFAFB00200500100
25X3/4"	PVDFAFB00250750100
32X1"	PVDFAFB00321000100
40X11/4"	PVDFAFB00401250100
50X11/2"	PVDFAFB00501500100
63X2"	PVDFAFB00632000100

HIGH PURITY AVAILABLE ON REQUEST

# PVDF-PIPE & CONCRETE PROTECTIVE LINERS



PIPES PN 10, PN 16, PN 20 STANDARD LENGTH 5m PVDP-									
CODE 705	LINER	SDR 33/ PN 10 / S16				SDR 21 /PN 16 /S10			
d		SIZE mm	WEIGHT kg/m	CODE PVDP-	PN 10	SIZE mm	WEIGH T kg/m	CODE PVDP-	PN 16
20	PRICES AVAILABLE ON REQUEST					1,9	0,21	PVDP0020160	
25						1,9	0,27	PVDP0025160	
32						2,4	0,44	PVDP0032160	
40						2,4	0,55	PVDP0040160	
50						3,0	0,85	PVDP0040160	
63		2,5	0,93	PVDP0063100		3,0	1,09	PVDP0050160	
75		2,5	1,11	PVDP0075100		3,6	1,55	PVDP0063160	
90		2,8	1,48	PVDP0090100		4,3	2,22	PVDP0075160	
110		3,4	2,20	PVDP0110100		5,3	3,32	PVDP0090160	
125		3,9	2,84	PVDP0125100		6,0	4,24	PVDP0110160	
140		4,3	3,52	PVDP0140100		6,7	5,31	PVDP0140160	
160		4,9	4,54	PVDP0160100		7,7	6,96	PVDP0160160	
180		5,5	5,74	PVDP0180100		8,6	8,74	PVDP0180160	
200		6,2	7,19	PVDP0200100		9,6	10,83	PVDP0200160	
225		6,9	8,95	PVDP0225100		10,8	13,67	PVDP0225160	
250		7,7	11,09	PVDP0250100		11,9	16,73	PVDP0250160	
280		8,6	13,86	PVDP0280100		13,4	21,11	PVDP0280160	
315		9,7	17,55	PVDP0315100		15,0	26,51		
355		10,8	22,00	PVDP0355100					
400		12,2	28,03	PVDP0400100					
450		13,7	35,31	PVDP0450100					

Due to manufacturing technical minimum all thickness, the dimensions OD 16/50mm correspond with a higher pressure rate than PN 20

Fittings and pipes with Dimensions from 20 to 50 are produced according to ISO Nr. DIS 10931, wherein PN16=PN20, or SDR17S8. From dimension 63 on the wall-thickness between PN16 and PN 20 begin to differ.  
Therefore from diameter 63mm onwards dimensions can differ between SDR17/S8 and SDR21/S10

NOTE : 'HIGH PURITY' PVDF PIPE AND FITTINGS ARE AVAILABLE IN THIS RANGE P.O.A.

SURE GRIP CONCRETE PROTECTIVE LINER EXTRUDED PVSG-560AGRU					
	DESIGN	FORMAT mm	THICKNESS	kg/ sheet	CODE PVSG-SHE
CODE 560	NATURAL	4000 x 2000	2,5	47,50	PVSGSHE400020000002
		4000 x 2000	4	67,90	PVSGSHE400020000004

# PVDF - SHEETS/BARS/WELDING RODS & ACCESSORIES



ROUND BARS		
ACCORDING TO DIN 16980		
NATURAL		
STORAGE LENGTH 1m		
AGRU CODE 800 d	WEIGHT kg/m	CODE PVDF-BAR-
10	0,15	PVDFBAR0010
15	0,34	PVDFBAR0015
20	0,59	PVDFBAR0020
25	0,91	PVDFBAR0025
30	1,30	PVDFBAR0030
35	1,81	PVDFBAR0035
40	2,93	PVDFBAR0040
45	3,61	PVDFBAR0045
50	5,17	PVDFBAR0050
60	6,15	PVDFBAR0060
65	6,15	PVDFBAR0065
70	7,15	PVDFBAR0070
75	8,21	PVDFBAR0075
80	9,22	PVDFBAR0080
90	11,67	PVDFBAR0090
100	14,42	PVDFBAR0100
110	17,45	PVDFBAR0110
125	22,35	PVDFBAR0125
140	27,40	PVDFBAR0140
160	36,00	PVDFBAR0160
180	46,00	PVDFBAR0180
200	57,65	PVDFBAR0200
250	90,08	PVDFBAR0250
300	129,40	PVDFBAR0300
325	152,00	PVDFBAR0325
340	166,40	PVDFBAR0340

BLIND FLANGES	
PVDF, MACHINED ACCORDING TO DIN STANDARD WITHOUT STEEL INSERT	
FOR APPLICATIONS WITHOUT PRESSURE	
AGRU CODE 334 d	CODE PVDF-FCF-
20	PVDFFCF0020100
25	PVDFFCF0025100
32	PVDFFCF0032100
40	PVDFFCF0040100
50	PVDFFCF0050100
63	PVDFFCF0063100
75	PVDFFCF0075100
90	PVDFFCF0090100
110	PVDFFCF0110100
140	PVDFFCF0140100
180	PVDFFCF0180100
225	PVDFFCF0225100

WELDING ROD		
NATURAL		
CIRCULAR PROFILE		
AGRU CODE 410	kg/coil	CODE
3	2kg	PVDFWEL0003410
4	2kg	PVDFWEL0004410
5	2kg	PVDFWEL0005410

SHEETS					
EXTRUDED Natural					
PVSH - 600					
AGRU CODE 600	DESIGN	FORMAT mm	THICKNESS	kg/sheet	CODE PVDF-SHE-
	NATURAL	2000 X 1000	2	7,12	PVDFSHE200010000002
			3	10,68	PVDFSHE200010000003
			4	14,24	PVDFSHE200010000004
			5	17,80	PVDFSHE200010000005
			6	21,36	PVDFSHE200010000006
			8	28,48	PVDFSHE200010000008
			10	35,60	PVDFSHE200010000010
			12	42,80	PVDFSHE200010000012
			15	53,50	PVDFSHE200010000015
			20	71,40	PVDFSHE200010000020
CODE 610 SHEET	Natural, one side polyester fabric laminated	2000 x 1000	PVSH - 610		
			2	7,66	PVSH610200010000002
			3	11,22	PVSH610200010000003
			4	14,78	PVSH610200010000004
		3000 x 1500	5	18,34	PVSH610200010000005
			3	25,38	PVSH610300015000003
		4	33,39	PVSH610300015000004	
CODE 620	Natural, one side glass frabric laminated	2000 x 1000	PVSH - 620		
			2	8,08	PVSH620200010000002
			3	11,58	PVSH620200010000003
			4	15,14	PVSH200200010000004
CODE 615 in rolls laminated	Natural, one side polyester fabric	25000 x 1000	PVSH - 615		
			2	95,75	PVSH6152500010000002
			3	140,25	PVSH6152500010000003
		25000 x 1500	3	210,00	PVSH6152500010000004

HIGH PURITY AVAILABLE ON REQUEST

## NOTES

# FIP

FIP





# FIP THERMOPLASTIC VALVE RANGE



## Did you know?

Astore Keymak offers Valves in  
5 different Thermoplastic  
Materials!



## PVC

### **PVC (Polyvinyl chloride)**

Series of fittings designed for conveying fluids under pressure with a cold chemical weld jointing system (solvent welding) using a suitable solvent cement and cleaner-primer.



## POLYPROPYLENE

**PP** is a synthetic resin built up by the polymerization of propylene. One of the important family members of the Polyolefin resins, polypropylene is a tough, flexible, and light weight and Can Handle temperature of -5 to 90 deg C.



## PVDF

**PVDF** is an extremely pure polymer which, compares to many other plastics, does not contain any stabilizers, UV thermostabilizers, plasticizers, lubricants or flame retarding additives. It's particularly suitable for conveying highly aggressive media such as Hydrochloric acid or Sulphuric acid. The temperature range of PVDF is 20 to 120 deg C.



## Unplasticized Polyvinyl Chloride (U-PVC) VALVES



The U-PVC range includes ball valves, butterfly valves, diaphragm valves as well as check valves, sediment strainers, air release, foot valves, angle seat valves to be used in the construction of process and service lines to convey industrial fluids at maximum operating temperatures of 60°C.

Technical Specifications:	
Material:	U-PVC Unplasticized Polyvinyl Chloride
Colour:	Grey
Reference standards:	<b>Solvent welding:</b> metric size according to EN ISO 1452, EN ISO 15493, ISO 727 <b>Solvent welding:</b> plain inch according to BS 4346-1, plain tapered to ASTM 2467 and JIS K6743 <b>Parallel threads</b> according to ISO 228-1, tapered threads according to ASTM D2464 and JIS B0203 Connection with stub flanges according to EN ISO 1452, EN ISO 15493, ANSI B16.5 cl.150
Range:	<b>Ball valves:</b> from Ø 16 mm to Ø 110 mm <b>Butterfly valves:</b> from Ø 50mm to Ø 400 mm <b>Diaphragm valves:</b> from Ø 12 mm to Ø 110 mm <b>Check valves:</b> from Ø 20 mm to Ø 110 mm <b>Sediment strainer:</b> from Ø 20 mm to Ø 110 m
Working Pressure classes:	PN16
Working temperature range:	From 0 °C to 60 °C
Seal material:	EPDM, FKM, PTFE

# FIP-PVC MANUAL VALVES



## TWO WAY BALL VALVE SERIES VKD DUAL BLOCK

Sizes (16mm to 63mm)

- U - PVC True union two way ball valve with union nuts blocking system **DUAL BLOCK**
- Maximum working pressure 16 bar (water at 20°C)
- Patented two process ball carrier : "Seat Stop System" with seat micro-adjustment and axial pipe load blocking
- Ergonomic handle with removal insert tool for seat adjustment
- Integrated upper connection for actuation according to Standard ISO
- Moulded in bracket for pipes and valve supporting
- Floating ball system with double groove stem connection.

VALF-VKDIV			
Double union ball valve with dual block union lock Sockets plain for solvent welding			
VALF-VKDIV		CODE	CODE
d	DN		
16	10	VALFVKDIV0016E	VALFVKDIV0016F
20	15	VALFVKDIV0020E	VALFVKDIV0020F
25	20	VALFVKDIV0025E	VALFVKDIV0025F
32	25	VALFVKDIV0032E	VALFVKDIV0032F
40	32	VALFVKDIV0040E	VALFVKDIV0040F
50	40	VALFVKDIV0050E	VALFVKDIV0050F
63	50	VALFVKDIV0063E	VALFVKDIV0063F

VALF-VKDFV			
Double union ball valve with dual block union lock BSP - female threaded sockets			
VALF-VKDFV		CODE	CODE
d	DN		
3/8"	10	VALFVKDFV0375E	VALFVKDFV0375F
1/2"	15	VALFVKDFV0500E	VALFVKDFV0500F
3/4"	20	VALFVKDFV0750E	VALFVKDFV0750F
1"	25	VALFVKDFV1000E	VALFVKDFV1000F
1 1/4"	32	VALFVKDFV1250E	VALFVKDFV1250F
1 1/2"	40	VALFVKDFV1500E	VALFVKDFV1500F
2"	50	VALFVKDFV2000E	VALFVKDFV2000F

POWER QUICK ACTUATION MODULE			
CAPABILITY OF MOUNTING ACTUATORS & LMIIT SWITCHES TO THE VKD RANGE OF BALL VALVES 2 WAY & 3 WAY (ISO MOUNTING 5211, F03-F04-F05-F07)			
VLF-VKDIV		CODE	ISO MOUNTING
d	DN		
16	10	VALSVKDPQ1620P304	F03 - F04
20	15	VALSVKDPQ1620P305	F03 - F04
25	20	VALSVKDPQ00250305	F03 - F05
32	25	VALSVKDPQ00320305	F03 - F05
40	32	VALSVKDPQ00400507	F05 - F07
50	40	VALSVKDPQ00500507	F05 - F07
63	50	VALSVKDPQ00630507	F05 - F07

VALS-FFF			
PVC flanges drilled to DIN NP 10/16 (BS 4504)			
VALS-FFF			CODE
d	DN		
20	15	VALSFFFB020PVC	
25	20	VALSFFFB025PVC	
32	25	VALSFFFB032PVC	
40	32	VALSFFFB040PVC	
50	40	VALSFFFB050PVC	
63	50	VALSFFFB063PVC	
75	65	VALSFFFB075PVC	
90	80	VALSFFFB090PVC	
110	100	VALSFFFB110PVC	

VALS-FFF			
PVC flanges drilled to DIN NP 10/16 (BS 4504)			
ANSI Class 150			CODE
d	DN		
1/2"	15	VALSFFFA050PVC	
3/4"	20	VALSFFFA075PVC	
1"	25	VALSFFFA100PVC	
1 1/4"	32	VALSFFFA125PVC	
1 1/2"	40	VALSFFFA150PVC	
2"	50	VALSFFFA200PVC	
2 1/2"	65	VALSFFFA250PVC	
3"	80	VALSFFFA300PVC	
4"	100	VALSFFFA400PVC	

# FIP-PVC MANUAL VALVES



## TWO WAY DUAL BLOCK UNION LOCK BALL VALVE SERIES VKD (Sizes 75mm - 110mm)

New safe blocked union - locks union nuts in preset position

Multi function handle - positive latching and locking in 12 positions on valve sizes 75mm and larger

Moulded mounting flange according to ISO 5211 for ease of actuator fitting

Patented seat stop carrier for fine seat adjustments


Ergonomic handle with removable insert tool for seat adjustment

Maximum working pressure: 16 bar at 20°C

Lower and upper stems reinforced with stainless steel shafts on valve sizes 75mm and larger

VALF-VKDIV


Double union ball valve  
with dual block union lock  
Sockets plain for solvent welding



VALF-VKDIV		CODE	EPDM	CODE	FPM
d	DN				
75	65	VALFVKDIV0075E		VALFVKDIV0075F	
90	80	VALFVKDIV0090E		VALFVKDIV0090F	
110	100	VALFVKDIV0110E		VALFVKDIV0110F	

VALF-VKDFV

Double union ball valve  
with dual block union lock  
BSP female threaded sockets



VALF-VKDFV		CODE	EPDM	CODE	FPM
BSP	DN				
2½"	65	VALFVKDFV2500E		VALFVKDFV2500F	
3"	80	VALFVKDFV3000E		VALFVKDFV3000F	
4"	100	VALFVKDFV4000E		VALFVKDFV4000F	

## TWO WAY BALL VALVE SERIES VXE (Sizes 16mm - 3/8" - 110mm - 4")

Compact Design

Maximum working pressure: 16 bar at 20°C

Ball Seats in PTFE

New Innovative handle design incorporates a bevel gear for loosening or tightening the union nuts


New labelling facility in the handle

Handle incorporates tool for valve disassembly

VALF-VXEIV

DOUBLE UNION  
BALL VALVE

Sockets plain  
for solvent welding




VALF-VXEIV		PTFE Ball Seat	
d	DN	CODE	FPM
16	10	VALFVXEIV0016E	VALFVXEIV0016F
20	15	VALFVXEIV0020E	VALFVXEIV0020F
25	20	VALFVXEIV0025E	VALFVXEIV0025F
32	25	VALFVXEIV0032E	VALFVXEIV0032F
40	32	VALFVXEIV0040E	VALFVXEIV0040F
50	40	VALFVXEIV0050E	VALFVXEIV0050F
63	50	VALFVXEIV0063E	VALFVXEIV0063F
75	65	VALFVXEIV0075E	VALFVXEIV0075F
90	80	VALFVXEIV0090E	VALFVXEIV0090F
110	100	VALFVXEIV0110E	VALFVXEIV0110F

VALF-VXEFV

DOUBLE UNION  
BALL VALVE

BSP female threaded sockets



VALF-VXEFV		PTFE Ball Seat	
BSP	DN	CODE	FPM
¼"	10	VALFVXEFV0375E	VALFVXEFV0375F
½"	15	VALFVXEFV0500E	VALFVXEFV0500F
¾"	20	VALFVXEFV0750E	VALFVXEFV0750F
1"	25	VALFVXEFV1000E	VALFVXEFV1000F
1¼"	32	VALFVXEFV1250E	VALFVXEFV1250F
1½"	40	VALFVXEFV1500E	VALFVXEFV1500F
2"	50	VALFVXEFV2000E	VALFVXEFV2000F
2½"	65	VALFVXEFV2500E	VALFVXEFV2500F
3"	80	VALFVXEFV3000E	VALFVXEFV3000F
4"	100	VALFVXEFV4000E	VALFVXEFV4000F



# FIP-PVC MANUAL VALVES



## THREE WAY BALL VALVES SERIES TKD/LKD

☐

3-Way ball valve: radially assembled on each part

☐

Material options: PVC, C-PVC, PP-H, PVDF, ABS

☐

Maximum working pressure: 16 bar at 20°C

☐

Positive latching handle for every 45° rotation

☐

Positive locking facility of the handle

☐

Rugged one-piece body incorporates moulded mounting flange according to ISO 5211 for ease of actuator fitting

☐

T-Port and L-Port options

☐

PTFE seats for self-centering of the ball

☐

TKD - LKD version has the capability of fitting Power Quick module for actuation

VALF-TKIV, TKDIV, LKIV, LKDIV

THREE WAY BALL VALVES

T-PORT / L-PORT

PVC body with solvent weld socket union ends

d	DN	VALF-TKIV, TKDIV		VALF-LKIV, LKDIV	
		CODE	EPDM	CODE	FPM
20	15	VALFTKDIV0020E		VALFTKDIV0020F	
25	20	VALFTKDIV0025E		VALFTKDIV0025F	
32	25	VALFTKDIV0032E		VALFTKDIV0032F	
40	32	VALFTKDIV0040E		VALFTKDIV0040F	
50	40	VALFTKDIV0050E		VALFTKDIV0050F	
63	50	VALFTKDIV0063E		VALFTKDIV0063F	

## PVC REGULATING BALL VALVE SERIES - VKR (Sizes 20mm - 63mm)

☐

FIP VKR DUAL BLOCK valves combine typical full bore VKD ball valve reliability and safety along with a new accurate repeatable flow regulation function which meets the most extreme requirements of industrial applications

☐

The patented ball design provides linear flow regulation throughout its range of operation even when the valve is open just a few degrees and guarantees minimum pressure losses

☐

90° operating angle (like a traditional shut-off ball valve) which allows the use of standard quarter turn actuators

☐

Handle fitting with disc showing valve position on a graduated scale of 5° for accurate, easy reading

Maximum working pressure: 16 bar at 20°C

VALF-TKVF, TKDFV, LKFV, LKDFV

THREE WAY BALL VALVES

T-PORT / L-PORT

PVC body with ends threaded BSP female

BSP	DN	VALF-TKVF, TKDFV		VALF-LKFV, LKDFV	
		CODE	EPDM	CODE	FPM
1/2"	15	VALFTKDFV0500E		VALFTKDFV0500F	
1/4"	20	VALFTKDFV0750E		VALFTKDFV0750F	
1"	25	VALFTKDFV1000E		VALFTKDFV1000F	
1 1/2"	32	VALFTKDFV1250E		VALFTKDFV1250F	
1 1/2"	40	VALFTKDFV1500E		VALFTKDFV1500F	
2"	50	VALFTKDFV2000E		VALFTKDFV2000F	

VALF-VKRIV

U PVC DOUBLE UNION DUAL BLOCK REGULATING BALL VALVE

Socket plain for solvent welding

VALF-VKRIV		
EPDM		
d	DN	Code
20	15	VALFVKRIV0020E
25	20	VALFVKRIV0025E
32	25	VALFVKRIV0032E
40	32	VALFVKRIV0040E
50	40	VALFVKRIV0050E
63	50	VALFVKRIV0063E

## TWO WAY BALL VALVE SERIES VEEIV/VEEFV (Sizes 16mm / 3/8" - 110mm / 4")

☐

Compact design

☐

Maximum working pressure: 16 bar at 20°C

☐

Ball Seats in Polyethylene

☐

New innovative handle design incorporates a bevel gear for loosening or tightening the union nuts

☐

New labelling facility in the handle

☐

Handle incorporates tool for valve disassembly

VALF-VEEIV

DOUBLE UNION BALL VALVE

Socket plain for solvent welding

VALF-VEEIV Polyethylene ball seats			VALF-VEEFV Polyethylene ball seats		
EPDM			EPDM		
BSP	DN	Code	BSP	DN	Code
16	10	VALFVEEIV0016E	1/4"	10	VALFVEEFV0375E
20	15	VALFVEEIV0020E	1/2"	15	VALFVEEFV0500E
25	20	VALFVEEIV0025E	3/4"	20	VALFVEEFV0750E
32	25	VALFVEEIV0032E	1"	25	VALFVEEFV1000E
40	32	VALFVEEIV0040E	1 1/4"	32	VALFVEEFV1250E
50	40	VALFVEEIV0050E	1 1/2"	40	VALFVEEFV1500E
63	50	VALFVEEIV0063E	2"	50	VALFVEEFV2000E
75	65	VALFVEEIV0075E	2 1/2"	65	VALFVEEFV2500E
90	80	VALFVEEIV0090E	3"	80	VALFVEEFV3000E
110	100	VALFVEEIV0110E	4"	100	VALFVEEFV4000E

VALF-VEEFV

DOUBLE UNION BALL VALVE

BSP female threaded sockets

# FIP-PVC MANUAL VALVES



## BUTTERFLY VALVES SERIES FK

- Butterfly valve series FK with PVC disc
- Glass fibre reinforced PP body with centre-line bi-directional PVC disc. Both disc and liner are replaceable
- Size range from d 50mm (DN 40) up to d400 (DN400)
- Working pressure: 50-63mm PN16, 75 - 280MM PN10, 315MM PN8, 355 + 400MM PN6\*
- Full flanged body to fit between flanges to all international standard drillings
- Positive locking/latching lever to for 10 positions from open to closed
- Connection in accordance with ISO standards for valve actuation
- For further information before use, consult the Technical Brochure

### VALF-FKOV/LM

BUTTERFLY VALVE  
Lever Operated



Wafer type to fit  
between flanges

VALF-FKOV/LM		Liner	
d	DN	CODE EPDM	CODE FPM
50	40	VALFFKOVLM0050E	VALFFKOVLM0050F
63	50	VALFFKOVLM0063E	VALFFKOVLM0063F
75	65	VALFFKOVLM0075E	VALFFKOVLM0075F
90	80	VALFFKOVLM0090E	VALFFKOVLM0090F
110	100	VALFFKOVLM0110E	VALFFKOVLM0110F
140	125	VALFFKOVLM0140E	VALFFKOVLM0140F
160	150	VALFFKOVLM0160E	VALFFKOVLM0160F
225	200	VALFFKOVLM0225E	VALFFKOVLM0225F

Note: Lever operated as standard  
Gear operated on request

### VALF-FKOV/FM

BUTTERFLY VALVE  
Bare shaft for actuation



Available from size 50 mm  
Wafer type to fit between flanges

VALF-FKOV/FM		Liner	
d	DN	CODE EPDM	CODE FPM
50	40	VALFFKOVFM0050E	VALFFKOVFM0050F
63	50	VALFFKOVFM0063E	VALFFKOVFM0063F
75	65	VALFFKOVFM0075E	VALFFKOVFM0075F
90	80	VALFFKOVFM0090E	VALFFKOVFM0090F
110	100	VALFFKOVFM0110E	VALFFKOVFM0110F
140	125	VALFFKOVFM0140E	VALFFKOVFM0140F
160	150	VALFFKOVFM0160E	VALFFKOVFM0160F
225	200	VALFFKOVFM0225E	VALFFKOVFM0225F
280	250	VALFFKOVFM0280E	VALFFKOVFM0280F
315	300	VALFFKOVFM0315E	VALFFKOVFM0315F

### VALF-FKOV/RM

BUTTERFLY VALVE  
Gear box operated



Available from size 50 mm  
Wafer type to fit between flanges

VALF-FKOV/RM		Liner	
d	DN	CODE EPDM	CODE FPM
50	40	VALFFKOVRM0050E	VALFFKOVRM0050F
63	50	VALFFKOVRM0063E	VALFFKOVRM0063F
75	65	VALFFKOVRM0075E	VALFFKOVRM0075F
90	80	VALFFKOVRM0090E	VALFFKOVRM0090F
110	100	VALFFKOVRM0110E	VALFFKOVRM0110F
140	125	VALFFKOVRM0140E	VALFFKOVRM0140F
160	150	VALFFKOVRM0160E	VALFFKOVRM0160F
225	200	VALFFKOVRM0225E	VALFFKOVRM0225F
280	250	VALFFKOVRM0280E	VALFFKOVRM0280F
315	300	VALFFKOVRM0315E	VALFFKOVRM0315F
355	350	VALFFKOVRM0355E	VALFFKOVRM0355F
400	400	VALFFKOVRM0400E	VALFFKOVRM0400F

### VALF-SVUIV

VALVE



Angle seat pressure relief valve  
plain stock union ends

VALF-SVUIV		Liner	
d	DN	CODE EPDM	CODE FPM
20	15	VALFSVUIV0020E	VALFSVUIV0020F
25	20	VALFSVUIV0025E	VALFSVUIV0025F
32	25	VALFSVUIV0032E	VALFSVUIV0032F

# FIP-PVC MANUAL VALVES



## SEDIMENT STRAINERS SERIES RV

- Sediment strainer: available with grey or transparent PVC body
- Maintenance can be carried out while the strainer body is installed in-line
- Maximum working pressure: consult technical documentation
- Mesh available in PVC, PP or Stainless Steel
- No metal parts in contact with the fluid
- For further information before use, consult the Technical Brochure

### VALF-RVUIT

SEDIMENT STRAINER  
WITH TRANSPARENT BODY



Plain socket union ends  
for solvent welding

VALF-RVUIT		CODE	EPDM
d	DN		
16	10	VALFRVUIT0016E	
20	15	VALFRVUIT0020E	
25	20	VALFRVUIT0025E	
32	25	VALFRVUIT0032E	
40	32	VALFRVUIT0040E	
50	40	VALFRVUIT0050E	
63	50	VALFRVUIT0063E	

### VALF-RVUFT

SEDIMENT STRAINER  
WITH TRANSPARENT BODY



Parallel BSP female threaded  
sockets with union ends

VALF-RVUFT		CODE	EPDM
d	DN		
3/8"	10	VALFRVUFT0375E	
1/2"	15	VALFRVUFT0500E	
3/4"	20	VALFRVUFT0750E	
1"	25	VALFRVUFT1000E	
1 1/4"	32	VALFRVUFT1250E	
1 1/2"	40	VALFRVUFT1500E	
2"	50	VALFRVUFT2000E	

### VALF-RVIT

SEDIMENT STRAINER  
WITH TRANSPARENT BODY



Plain sockets for solvent welding

VALF-RVIT		CODE	EPDM
d	DN		
75	65	VALFRVIT0075E	
90	80	VALFRVIT0090E	
110	100	VALFRVIT0110E	

Smaller sizes from 16mm to 63mm available on request

### VALF-RVFT

SEDIMENT STRAINER  
WITH TRANSPARENT BODY



Parallel BSP female threaded sockets

VALF-RVFT		CODE	EPDM
d	DN		
2 1/2"	65	VALFRVFT2500E	
3"	80	VALFRVFT3000E	
4"	100	VALFRVFT4000E	

### VALF-RVDV

SEDIMENT STRAINER  
WITH PVC GREY BODY  
FOR FLANGING









Plain male spigot ends for solvent welding

VALF-RVDV		CODE	EPDM
d	DN		
16	10	VALFRVDV0016E	
20	15	VALFRVDV0020E	
25	20	VALFRVDV0025E	
32	25	VALFRVDV0032E	
40	32	VALFRVDV0040E	
50	40	VALFRVDV0050E	
63	50	VALFRVDV0063E	

RVDT Sediment strainer with transparent PVC body for  
flanging available on request

# FIP-PVC MANUAL VALVES



-  Angle pattern check valve manufactured completely in thermoplastic materials
-  Reduced pressure loss. Minimum back pressure required for drop tight seating
-  Maximum working pressure : consult technical documentation
-  Weighted valve pistons allow use in high density liquids
-  May be installed in horizontal or vertical position
-  For further information before use, consult the Technical Brochure

## VALF -VRUIV

CHECK VALVE



Plain socket union ends  
for solvent welding

VALF -VRUIV		CODE	EPDM
d	DN		
16	10	VALFVRUIV0016E	
20	15	VALFVRUIV0020E	
25	20	VALFVRUIV0025E	
32	25	VALFVRUIV0032E	
40	32	VALFVRUIV0040E	
50	40	VALFVRUIV0050E	
63	50	VALFVRUIV0063E	

## VALF -VRUFV

CHECK VALVE



Parallel BSP female threaded  
socket union ends

VALF -VRUFV		CODE	EPDM
BSP	DN		
3/8"	10	VALFVRUFV00375E	
1/2"	15	VALFVRUFV00500E	
3/4"	20	VALFVRUFV00750E	
1"	25	VALFVRUFV1000E	
1 1/4"	32	VALFVRUFV1250E	
1 1/2"	40	VALFVRUFV1500E	
2"	50	VALFVRUFV2000E	

## VALF -VRIV

CHECK VALVE



Plain sockets for  
solvent welding

VALF -VRIV		CODE	EPDM
d	DN		
75	65	VALFVRIV0075E	
90	80	VALFVRIV0090E	
110	100	VALFVRIV0110E	

Smaller sizes from 20mm to 63mm available on request

## VALF -VRFV

CHECK VALVE



Parallel BSP female  
threaded socket

VALF -VRFV		CODE	EPDM
BSP	DN		
2 1/2"	65	VALFVRFV2500E	
3"	80	VALFVRFV3000E	
4"	100	VALFVRFV4000E	

Smaller sizes from 3/8" to 2" available on request

## VALF -VRDV

CHECK VALVE  
FOR FLANGING



Plain male spigot end  
for solvent welding

VALF -VRDV		CODE	EPDM
d	DN		
16	10	VALFVRDV0016E	
20	15	VALFVRDV0020E	
25	20	VALFVRDV0025E	
32	25	VALFVRDV0032E	
40	32	VALFVRDV0040E	
50	40	VALFVRDV0050E	
63	50	VALFVRDV0063E	

## ANGLE SEAT VALVE SERIES VV

### VALF -VVUIV

ANGLE SEAT VALVE



Plain socket union ends  
for solvent welding

VALF -VVUIV		CODE	EPDM
d	DN		
16	10	VALFVVUIV0016E	
20	15	VALFVVUIV0020E	
25	20	VALFVVUIV0025E	
32	25	VALFVVUIV0032E	
40	32	VALFVVUIV0040E	
50	40	VALFVVUIV0050E	
63	50	VALFVVUIV0063E	

# FIP-PVC MANUAL VALVES



## AIR RELEASE AND FOOT VALVES SERIES VA & VZ

### VALF-VAIV AIR RELEASE VALVE



Plain male spigot end  
for solvent welding

VALF-VAIV		CODE	EPDM
d	DN		
20	15	VALFVAIV0020E	
25	20	VALFVAIV0025E	
32	25	VALFVAIV0032E	
40	32	VALFVAIV0040E	
50	40	VALFVAIV0050E	
63	50	VALFVAIV0063E	

### VALF -VZIV

FOOT VALVE



Plain male spigot end for solvent welding. BSP  
threaded connections included in the packaging

VALF-VZIV		CODE	EPDM
d	DN		
16	10	VALFVZIV0016E	
20	15	VALFVZIV0020E	
25	20	VALFVZIV0025E	
32	25	VALFVZIV0032E	
40	32	VALFVZIV0040E	
50	40	VALFVZIV0050E	
63	50	VALFVZIV0063E	

## BALL VALVE ACCESSORIES

### VALS-CVDE

END CONNECTOR IN PE  
FOR VKD



Long spigots for electrofusion or butt welding

VALS-CVDE		CODE	EPDM
d	DN		
20	15	VALSCVDE0020E	
25	20	VALSCVDE0025E	
32	25	VALSCVDE0032E	
40	32	VALSCVDE0040E	
50	40	VALSCVDE0050E	
63	50	VALSCVDE0063E	
75	65	VALSCVDE0075E	
90	80	VALSCVDE0090E	
110	100	VALSCVDE0110E	

## BALL CHECK VALVE SERIES SSEIV (Size 16mm - 110mm)

- \*FIP SSE Full bore Springs loaded check valve
- \*A316 Stainless Steel Spring
- \*Can be installed in vertical or horizontal position
- \*Maximum working pressure: 16 bar at 20°C
- \*For further information before use, consult the Technical Brochure

## BALL CHECK VALVE SERIES SXE

- Full bore Check Valve
- Ball seat blocking system
- Maximum working pressure: 16 bar at 20°C
- Can be installed in horizontal or vertical position
- For further information before use, consult the Technical Brochure

### VALF-SXEIV

BALL CHECK VALVE



Plain socket union ends  
for solvent welding

VALF-SXEIV		CODE	EPDM	CODE	FPM
d	DN				
16	10	VALFSXEIV0016E		VALFSXEIV0016F	
20	15	VALFSXEIV0020E		VALFSXEIV0020F	
25	20	VALFSXEIV0025E		VALFSXEIV0025F	
32	25	VALFSXEIV0032E		VALFSXEIV0032F	
40	32	VALFSXEIV0040E		VALFSXEIV0040F	
50	40	VALFSXEIV0050E		VALFSXEIV0050F	
63	50	VALFSXEIV0063E		VALFSXEIV0063F	
75	65	VALFSXEIV0075E		VALFSXEIV0075F	
90	80	VALFSXEIV0090E		VALFSXEIV0090F	
110	100	VALFSXEIV0110E		VALFSXEIV0110F	

## ANGLE SEAT VALVE SERIES VV

### VALF-VVDV

ANGLE SEAT VALVE  
FOR FLANGING

Plain male spigots for  
solvent welding



VALF-VRUIV		CODE
d	DN	
16	10	VALFVRUIV0016E
20	15	VALFVRUIV0020E
25	20	VALFVRUIV0025E
32	25	VALFVRUIV0032E
40	32	VALFVRUIV0040E
50	40	VALFVRUIV0050E
63	50	VALFVRUIV0063E

### VALF-SSEIV

U PVC DOUBLE UNION  
BALL CHECK VALVE WITH S/STL SPRING

Sockets plain for solvent welding



VALF-SSEIV		CODE
d	DN	
16	10	VALFSSEIV0016E
20	15	VALFSSEIV0020E
25	20	VALFSSEIV0025E
32	25	VALFSSEIV0032E
40	32	VALFSSEIV0040E
50	40	VALFSSEIV0050E
63	50	VALFSSEIV0063E
75	65	VALFSSEIV0075E
90	80	VALFSSEIV0090E
110	100	VALFSSEIV0110E



## POLYPROPYLENE (PP-H) VALVES



The PP-H range in homopolymer Propylene includes a complete series of ball valves, butterfly valves, diaphragm valves, check valves, sediment strainers, to be used in the construction of process and service lines for the convey under pressure of industrial fluids at maximum operating temperatures of 100°C.

Technical Specifications:	
Material:	PP-H (100) Polypropylene homopolymer
Colour:	RAL 7032 - beige
Reference standards:	<b>Socket and butt welding</b> Welding according to DVS 2207-11 for coupling to pipes complying with EN ISO 15494 <b>Parallel threads</b> according to ISO 228-1, ISO 7-1 <b>Flanging</b> according to EN ISO 15494, EN 1092-1, ISO 7005-1, ANSI B16.5 cl.150
Range:	<b>Ball valves:</b> from Ø 16 mm to Ø 110 mm <b>Butterfly valves:</b> from Ø 50mm to Ø 400 mm <b>Diaphragm valves:</b> from Ø 16 mm to Ø 110 mm <b>Check valves:</b> from Ø 20 mm to Ø 110 mm <b>Sediment strainer:</b> from Ø 20 mm to Ø 110 m
Working Pressure classes:	PN10
Working temperature range:	From 0 °C to 100 °C
Seal material:	EPDM, FKM, PTFE

# FIP - PP MANUAL VALVES



## TWO WAY BALL VALVE SERIES VKD DUAL BLOCK UNION BALL VALVE (Sizes 16mm to 63mm)

- ☐ PP-H true union two way ball valve with union nuts blocking system DUAL BLOCK
- ☐ Maximum working pressure: 10 bar at 20°C
- ☐ Patented two pieces ball carrier "Seat Stop System" with seats micro-adjustment and axial pipe load blocking
- ☐ Ergonomic handle with removable insert tool for seat regulation
- ☐ Integrated upper connection for actuation according to Standard ISO 5211
- ☐ Moulded in bracket for pipes and valve supporting
- ☐ Floating ball system with double groove stem connection
- ☐ TKD - LKD version has the capability of fitting Power Quick module for actuation

### VALF-VKDIM

Double union ball valve  
with dual block union lock  
Sockets plain for fusion welding



		VALF-VKDIM			
		CODE	EPDM	CODE	FPM
d	DN				
16	10	VALFVKDIM0016E		VALFVKDIM0016F	
20	15	VALFVKDIM0020E		VALFVKDIM0020F	
25	20	VALFVKDIM0025E		VALFVKDIM0025F	
32	25	VALFVKDIM0032E		VALFVKDIM0032F	
40	32	VALFVKDIM0040E		VALFVKDIM0040F	
50	40	VALFVKDIM0050E		VALFVKDIM0050F	
63	50	VALFVKDIM0063E		VALFVKDIM0063F	

### VALF-VKDFM

Double union ball valve  
with dual block union lock  
BSP - female threaded sockets



		VALF-VKDFM			
		CODE	EPDM	CODE	FPM
BSP	DN				
1/2"	15	VALFVKDFM00500E		VALFVKDFM00500F	
3/4"	20	VALFVKDFM00750E		VALFVKDFM00750F	
1"	25	VALFVKDFM1000E		VALFVKDFM1000F	
1 1/2"	32	VALFVKDFM1250E		VALFVKDFM1250F	
1 3/4"	40	VALFVKDFM1500E		VALFVKDFM1500F	
2"	50	VALFVKDFM2000E		VALFVKDFM2000F	

### THREE WAY BALL VALVES SERIES TKD/LKD

- ☐ 3-way ball valve; radially assembled on each port
- ☐ Material options: PVC, C-PVC, PP-H, PVDF, ABS
- ☐ Maximum working pressure: 16 bar at 20°C. (10 bar PP-H only)
- ☐ Handle with positive locking and latching facility
- ☐ Rugged one-piece body incorporates moulded mounting flange according to ISO 5211 for ease of actuator fitting
- ☐ Available with "T" Port ball for mixing/blending or "L" Port ball for diverting
- ☐ 4 PTFE seats for self-centering of the ball
- ☐ TKD - LKD version has the capability of fitting Power Quick module for actuation

### VALF-TKIM, TKDIM, LKIM, LKDIM

THREE WAY BALL VALVE  
T-PORT/L-PORT



PP body fusion weld socket  
union ends

		VALF-TKIM, TKDIM				VALF-LKIM, LKDIM			
		CODE	EPDM	CODE	FPM	CODE	EPDM	CODE	FPM
d	DN								
20	15	VALFTKDIM0020E		VALFTKDIM0020F		VALFLKDIM0020E		VALFLKDIM0020F	
25	20	VALFTKDIM0025E		VALFTKDIM0025F		VALFLKDIM0025E		VALFLKDIM0025F	
32	25	VALFTKDIM0032E		VALFTKDIM0032F		VALFLKDIM0032E		VALFLKDIM0032F	
40	32	VALFTKDIM0040E		VALFTKDIM0040F		VALFLKDIM0040E		VALFLKDIM0040F	
50	40	VALFTKDIM0050E		VALFTKDIM0050F		VALFLKDIM0050E		VALFLKDIM0050F	
63	50	VALFTKDIM0063E		VALFTKDIM0063F		VALFLKDIM0063E		VALFLKDIM0063F	

VKD DUAL BLOCK UNION  
BALL VALVE  
(Sizes 75mm to 110mm)

- ☐ New safe blocked union - locks union nuts in preset position
- ☐ Multi function handle - positive latching and locking in 12 positions
- ☐ Moulded mounting flange according to ISO 5211 for ease of actuator fitting
- ☐ Patented seat stop carrier for fine seat adjustment
- ☐ Standard elastometric O-rings throughout
- ☐ Ergonomic handle with removable insert tool for seat adjustment
- ☐ Maximum working pressure: 10 bar at 20°C
- ☐ Lower and upper stems reinforced with stainless steel shafts

### VALF-VKDIM

Double union ball valve  
with dual block union lock  
Sockets plan for fusion welding



		VALF-VKDIM			
		CODE	EPDM	CODE	FPM
d	DN				
75	65	VALFVKDIM0075E		VALFVKDIM0075F	
90	80	VALFVKDIM0090E		VALFVKDIM0090F	
110	100	VALFVKDIM0110E		VALFVKDIM0110F	

### VALF-TKFM, TKDFM, LKFM, LKDFM

THREE WAY BALL VALVE  
T-PORT/L-PORT



PP body BSP female threaded  
socket ends

		VALF-TKFM, TKDFM				VALF-LKFM, LKDFM			
		CODE	EPDM	CODE	FPM	CODE	EPDM	CODE	FPM
BSP	DN								
1/2"	15	VALFTKDFM00500E		VALFTKDFM00500F		VALFLKDFM00500E		VALFLKDFM00500F	
3/4"	20	VALFTKDFM00750E		VALFTKDFM00750F		VALFLKDFM00750E		VALFLKDFM00750F	
1"	25	VALFTKDFM1000E		VALFTKDFM1000F		VALFLKDFM1000E		VALFLKDFM1000F	
1 1/2"	32	VALFTKDFM1250E		VALFTKDFM1250F		VALFLKDFM1250E		VALFLKDFM1250F	
1 3/4"	40	VALFTKDFM1500E		VALFTKDFM1500F		VALFLKDFM1500E		VALFLKDFM1500F	
2"	50	VALFTKDFM2000E		VALFTKDFM2000F		VALFLKDFM2000E		VALFLKDFM2000F	

# FIP - PP MANUAL VALVES



## SEDIMENT STRAINER SERIES RV

Maintenance can be carried out while the strainer body is installed in-line

Maximum working pressure

Consult technical documentation


Mesh available in other materials on request

No metal parts in contact with the fluid

VALF-RVUIM

SEDIMENT STRAINER

Plain socket union ends for fusion welding




VALF-RVUIM		CODE	EPDM	CODE	FPM
d	DN				
20	15	VALFRVUIM0020E		VALFRVUIM0020F	
25	20	VALFRVUIM0025E		VALFRVUIM0025F	
32	25	VALFRVUIM0032E		VALFRVUIM0032F	
40	32	VALFRVUIM0040E		VALFRVUIM0040F	
50	40	VALFRVUIM0050E		VALFRVUIM0050F	
63	50	VALFRVUIM0063E		VALFRVUIM0063F	

VALF-RVIM

SEDIMENT STRAINER

Plain sockets for fusion welding




VALF-RVIM		CODE	EPDM	CODE	FPM
d	DN				
75	65	VALFRVIM0075E		VALFRVIM0075F	
90	80	VALFRVIM0090E		VALFRVIM0090F	
110	100	VALFRVIM0100E		VALFRVIM0110F	

VALF-VRIM

CHECK VALVE

Plain sockets for fusion welding



VALF-VRIM		CODE	EPDM	CODE	FPM
d	DN				
75	65	VALFVRIM0075E		VALFVRIM0075F	
90	80	VALFVRIM0090E		VALFVRIM0090F	

## BALL CHECK VALVES SERIES SR

Ball check valve with full bore

Adjustable ball retaining system


Maximum working pressure: 10 bar at 20°C

Should be installed in vertical position only

VALF-SRIM

BALL CHECK VALVE

Plain male spigot end for fusion welding



VALF-SRIM		PTFE Ball Seat	FPM
CODE			
d	DN		
20	15	VALFSRIM0020F	
25	20	VALFSRIM0025F	
32	25	VALFSRIM0032F	
40	32	VALFSRIM0040F	
50	40	VALFSRIM0050F	
63	50	VALFSRIM0063F	

## ANGLE PATTERN CHECK VALVE SERIES VR

Check valve manufactured completely in thermoplastic materials

Reduced pressure loss ; minimum back pressure required for drop tight sealing

Maximum working pressure

Consult technical documentation


Weighted piston permits use in high density liquids

May be installed in horizontal or vertical position

VALF-VRUIM

CHECK VALVE

Plain socket union ends for fusion welding



VALF-VRUIM		CODE	EPDM	CODE	FPM
d	DN				
20	15	VALFVRUIM0020E		VALFVRUIM0020F	
25	20	VALFVRUIM0025E		VALFVRUIM0025F	
32	25	VALFVRUIM0032E		VALFVRUIM0032F	
40	32	VALFVRUIM0040E		VALFVRUIM0040F	
50	40	VALFVRUIM0050E		VALFVRUIM0050F	
63	50	VALFVRUIM0063E		VALFVRUIM0063F	

# FIP - PP MANUAL VALVES



## PP BUTERFLY VALVES SERIES FK

Butterfly valve series FK with PP disc

Glass fibre reinforced PP body with centre-line bi-directional PP disc. Both disc and liner are replaceable

Size range from d 50mm (DN 40) up to d 400 (DN400)

Working pressure: 50-280mm PN10, 315MM PN8, 355 + 400MM PN6\*

Full flanged body to fit between flanges to all international standard drillings

Positive locking/latching lever for 10 positions from open to closed

Connection in accordance with ISO standard for valve actuation

For further information before use consult Technical Brochure

VALF-FKOM/FM

BUTTERFLY VALVE

Bare shaft for actuation

Wafer type to fit between flanges

VALF-FKOM/FM

d

DN

CODE

EPDM

CODE

FPM

50	40	VALFFKOMFM0050E		VALFFKOMFM0050F	
63	50	VALFFKOMFM0063E		VALFFKOMFM0063F	
75	65	VALFFKOMFM0075E		VALFFKOMFM0075F	
90	80	VALFFKOMFM0090E		VALFFKOMFM0090F	
110	100	VALFFKOMFM0110E		VALFFKOMFM0110F	
140	125	VALFFKOMFM0140E		VALFFKOMFM0140F	
160	150	VALFFKOMFM0160E		VALFFKOMFM0160F	
225	200	VALFFKOMFM0225E		VALFFKOMFM0225F	
280	250	VALFFKOMFM0280E		VALFFKOMFM0280F	
315	300	VALFFKOMFM0315E		VALFFKOMFM0315F	
355	350	VALFFKOMRM0355E		VALFFKOMRM0355F	
400	400	VALFFKOMRM0400E		VALFFKOMRM0400F	

VALF-FKOM/RM

BUTTERFLY VALVE

Gear box operated

Wafer type to fit between flanges

VALF-FKOM/RM

d

DN

CODE

EPDM

CODE

FPM

75	65	VALFFKOMRM0075E		VALFFKOMRM0075F	
90	80	VALFFKOMRM0090E		VALFFKOMRM0090F	
110	100	VALFFKOMRM0110E		VALFFKOMRM0110F	
140	125	VALFFKOMRM0140E		VALFFKOMRM0140F	
160	150	VALFFKOMRM0160E		VALFFKOMRM0160F	
225	200	VALFFKOMRM0225E		VALFFKOMRM0225F	
280	250	VALFFKOMRM0280E		VALFFKOMRM0280F	
315	300	VALFFKOMRM0315E		VALFFKOMRM0315F	
355	350	VALFFKOMRM0355E		VALFFKOMRM0355F	
400	400	VALFFKOMRM0400E		VALFFKOMRM0400F	

VALF-FKOM/LM

BUTTERFLY VALVE

Lever operated

Wafer type to fit between flanges

VALF-FKOM/LM

d

DN

CODE

EPDM

CODE

FPM

50	40	VALFFKOMLM0050E		VALFFKOMLM0050F	
63	50	VALFFKOMLM0063E		VALFFKOMLM0063F	
75	65	VALFFKOMLM0075E		VALFFKOMLM0075F	
90	80	VALFFKOMLM0090E		VALFFKOMLM0090F	
110	100	VALFFKOMLM0110E		VALFFKOMLM0110F	
140	125	VALFFKOMLM0140E		VALFFKOMLM0140F	
160	150	VALFFKOMLM0160E		VALFFKOMLM0160F	
225	200	VALFFKOMLM0225E		VALFFKOMLM0225F	

NOTE : Lever operated as standard

Gear operated on request

## PP REGULATING BALL VALVE SERIES VKR (size 20mm - 63mm)

FIP VKR DUAL BLOCK valves combine typical full bore VDK ball valve reliability and safety along with a new accurate, repeatable flow regulation function which meets with the most extreme requirements of industrial applications

The patented ball design provides linear flow regulation throughout its range of operation even when the valve is open just a few degrees and guarantees minimum pressure losses

90° operating angle (like a traditional shut-off valve) which allows the use of standard quarter turn actuators

Handle fitted with disc showing valve position on a graduated scale of 5° for accurate, easy reading

Maximum working pressure 10 bar at 20°C

VALF-VKRIM

PP DOUBLE UNION BALL BLOCK

REGULATING BALL VALVE

Sockets plain for fusion welding

VALF-VKRIM

d

DN

CODE

EPDM

20	15	VALFVKRIM0020E	
25	20	VALFVKRIM0025E	
32	25	VALFVKRIM0032E	
40	32	VALFVKRIM0040E	
50	40	VALFVKRIM0050E	
63	50	VALFVKRIM0063E	

# FIP - PP MANUAL VALVES



## PP DIAPHRAGM VALVES SERIES VM

- ☐ PP Diaphragm valve with clean-line bonnet
- ☐ Maximum working pressure 10 bar at 20°C
- ☐ High Quality bonnet assembly with position indicator as standard
- ☐ Provision for supporting the valve with brass bushes inserted into the valve body
- ☐ For further information before use, consult the Technical Brochure

### VALF-

- CMFM** BSP female threaded ends
- CMIM** Socket fusion ends
- CMUIM** Sockets union ends plain
- CMDM** Spigot ends



VALF-CMFM		Diaphragm						
CMIM, CMUIM		CODE	EPDM	CODE	FPM	CODE	PTFE	CODE
CMDM								
	DN							
¾"	12	VALFCMFM0375E		VALFCMFM0375F		VALFCMFM0375P		CMFM
16	12	VALFCMIM0016E		VALFCMIM0016F		VALFCMIM0016P		CMIM
½"	15	VALFCMUIM0500E		VALFCMUIM0500F		VALFCMUIM0500P		CMUIM
20	15	VALFCMDM0020E		VALFCMDM0020F		VALFCMDM0020P		CMDM

Visual position indicator as standard  
Threaded 1/2" BSP and connections on request

### VALS-FFF

PP flanges drilled to  
DIN NP 10/16 (B 4504)



VALS-FFF		
d	DN	CODE
20	15	VALSFFF022PP
25	20	VALSFFF025PP
32	25	VALSFFF032PP
40	32	VALSFFF040PP
50	40	VALSFFF050PP
63	50	VALSFFF063PP
75	65	VALSFFF075PP
90	80	VALSFFF090PP
110	100	VALSFFF110PP

### VALF-VMUIM

Diaphragm valve  
Socket unions for fusion welding



VALF-VMUIM		Diaphragm					
		CODE	EPDM	CODE	FPM	CODE	PTFE
	DN						
20	15	VALFVMUIM0020E		VALFVMUIM0020F		VALFVMUIM0020P	
25	20	VALFVMUIM0025E		VALFVMUIM0025F		VALFVMUIM0025P	
32	25	VALFVMUIM0032E		VALFVMUIM0032F		VALFVMUIM0032P	
40	32	VALFVMUIM0040E		VALFVMUIM0040F		VALFVMUIM0040P	
50	40	VALFVMUIM0050E		VALFVMUIM0050F		VALFVMUIM0050P	
63	50	VALFVMUIM0063E		VALFVMUIM0063F		VALFVMUIM0063P	

### VALF-VMDM

Plain male spigot ends  
for fusion welding



VALF-VMDM		Diaphragm					
		CODE	EPDM	CODE	FPM	CODE	PTFE
d	DN						
20	15	VALFVMDM0020E		VALFVMDM0020F		VALFVMDM0020P	
25	20	VALFVMDM0025E		VALFVMDM0025F		VALFVMDM0025P	
32	25	VALFVMDM0032E		VALFVMDM0032F		VALFVMDM0032P	
40	32	VALFVMDM0040E		VALFVMDM0040F		VALFVMDM0040P	
50	40	VALFVMDM0050E		VALFVMDM0050F		VALFVMDM0050P	
63	50	VALFVMDM0063E		VALFVMDM0063F		VALFVMDM0063P	
75	65	VALFVMDM0075E		VALFVMDM0075F		VALFVMDM0075P	
90	80	VALFVMDM0090E		VALFVMDM0090F		VALFVMDM0090P	
110	100	VALFVMDM0110E		VALFVMDM0110F		VALFVMDM0110P	

Visual position indicator as standard

### VALS-FFF

PP flanges drilled to  
ANSI Class 150



VALS-FFF		
d	DN	CODE
1/2"	15	VALSFFFA050PP
3/4"	20	VALSFFFA075PP
1"	25	VALSFFFA100PP
1 1/4"	32	VALSFFFA125PP
1 1/2"	40	VALSFFFA150PP
2"	50	VALSFFFA200PP
2 1/2"	65	VALSFFFA250PP
3"	80	VALSFFFA300PP
4"	100	VALSFFFA400PP

Prices of screw on flanges to suit FIP  
Union ended ball valves type VKD



## Polyvinylidene Fluoride (PVDF) VALVES



The PVDF range includes a complete series of ball valves, butterfly valves, diaphragm valves and check valves to be used in the construction of process lines and service lines to convey industrial fluids in the operating temperature range from -40°C to 140°C. The entire range is produced in Solef® resins.

Technical Specifications:	
Material:	PVDF Polyvinylidene Fluoride - Compound Solef® 1008
Colour:	Translucent white
Reference standards:	<b>Socket welding</b> according to: EN ISO 10931, DVS 2207-15 for coupling to pipes complying with EN ISO 10931 <b>Flanging</b> EN ISO 10931, EN 1092-1, ISO 7005-1, ANSI B16.5 cl.150
Range:	<b>Ball valves:</b> from Ø 16 mm to Ø 110 mm <b>Butterfly valves:</b> from Ø 50mm to Ø 400 mm <b>Diaphragm valves:</b> from Ø 16 mm to Ø 110 mm <b>Check valves:</b> from Ø 20 mm to Ø 110 mm
Working Pressure classes:	PN16
Working temperature range:	From -40°C to 140°C
Seal material:	EPDM, FKM, PTFE

# FIP-PVDF MANUAL VALVES



- ☐ PVDF True Union two way ball valve with nuts blocking system DUAL BLOCK
- ☐ Maximum working pressure: 16 bar at 20°C
- ☐ Patented two piece ball carrier "Seat Stop System" with seats micro-adjustment and axial pipe load blocking
- ☐ Ergonomic handle with removable insert tool for seat regulation
- ☐ Integrated upper connection for actuation according to the standard ISO 5211
- ☐ Moulded in bracket for pipes and valve supporting
- ☐ Floating ball system with double groove stem connection
- ☐ TKD - LKD version has the capability of fitting Power Quick module for actuation

## DOUBLE UNION BALL VALVE SERIES VKD

### VALF-VKDIF

Double union Ball valve  
with dual block union lock  
Sockets plain for fusion weldin



d	DN	CODE	VALF-VKDIF
16	10	VALFVKDIF0016F	
20	15	VALFVKDIF0020F	
25	20	VALFVKDIF0025F	
32	25	VALFVKDIF0032F	
40	32	VALFVKDIF0040F	
50	40	VALFVKDIF0050F	
63	50	VALFVKDIF0063F	
75	65	VALFVKDIF0075F	
90	80	VALFVKDIF0090F	
110	100	VALFVKDIF0110F	

- ☐ PP Diaphragm valve with clean-line bonnet
- ☐ Maximum working pressue 10 bar at 20°C
- ☐ High quality bonnet assembly with position indicator as standard
- ☐ Provision for supporting the valve with brass bushes inserted into the valve body
- ☐ For further information before use, consult the Technical Brochure

## DIAPHRAGM VALVE SERIES VM

### VALF-VMDF

Plain male spigot ends for fusion welding



VALF-VMDF		Diaphragm								
		CODE		EPDM	CODE		FPM	CODE		PTFE
	DN									
20	15	VALFVMDF0020E			VALFVMDF0020F			VALFVMDF0020P		
25	20	VALFVMDF0025E			VALFVMDF0025F			VALFVMDF0025P		
32	25	VALFVMDF0032E			VALFVMDF0032F			VALFVMDF0032P		
40	32	VALFVMDF0040E			VALFVMDF0040F			VALFVMDF0040P		
50	40	VALFVMDF0050E			VALFVMDF0050F			VALFVMDF0050P		
63	50	VALFVMDF0063E			VALFVMDF0063F			VALFVMDF0063P		
75	65	VALFVMDF0075E			VALFVMDF0075F			VALFVMDF0075P		
90	80	VALFVMDF0090E			VALFVMDF0090F			VALFVMDF0090P		
110	100	VALFVMDF0110E			VALFVMDF0110F			VALFVMDF0110P		
Visual position indicator as standard										

Visual position indicator as standard

## DOUBLE UNION BALL VALVE SERIES VKD

### VALF-VKDDF

Double union Ball valve  
with dual block union lock  
Plain male spigot ends for fusion welding



d	DN	CODE	VALF-VKDDF
20	15	VALFVKDDF0020F	
25	20	VALFVKDDF0025F	
32	25	VALFVKDDF0032F	
40	32	VALFVKDDF0040F	
50	40	VALFVKDDF0050F	
63	50	VALFVKDDF0063F	

## PVDF REGULATING BALL VALVE SERIES VKR (Size 20mm - 63mm)

- ☐ FIP VKR DUAL BLOCK valves combine typical full bore VDK ball valve reliability and safety along with a new accurate, repeatable flow regulation function which meets with the most extreme requirements of industrial applications
- ☐ The patented ball design provides linear flow regulation throughout its range of operation even when the valve is open just a few degrees and guarantees minimum pressure losses
- ☐ 90° operating angle (like a traditional shut-off valve) which allows the use of standard quarter turn actuators
- ☐ Handle fitted with disc showing valve position on a graduated scale of 5° for accurate, easy reading
- ☐ Maximum working pressure 10 bar at 20°C

### VALF-VKRIF

PVDF DOUBLE UNION DUAL BLOCK  
REGULATING BALL VALVE  
Sockets plain for fusion welding



d	DN	CODE	VALF-VKRIF
			FPM
20	15	VALFVKRIF0020F	
25	20	VALFVKRIF0025F	
32	25	VALFVKRIF0032F	
40	32	VALFVKRIF0040F	
50	40	VALFVKRIF0050F	
63	50	VALFVKRIF0063F	

# FIP-PVDF MANUAL VALVES



## PVDF BUTTERFLY VALVES SERIES FK

- ☐ Butterfly valve series FK with PVDF disc
- ☐ Glass fibre reinforced PP body with centre-line bi-directional PVDF disc.
- ☐ Both disc and liner are replaceable
- ☐ Size range from D 50mm (DN 40) up to D 315 (DN300)
- ☐ Maximum working pressure: 50 - 280MM PN10, 315MM PN8, 355 + 400MM PN6\*
- ☐ Full flanged body to fit between flanges to all international standard drillings
- ☐ Positive locking/latching lever for 10 positions from open to closed
- ☐ Connection in accordance with ISO standard for valve actuation
- ☐ For further information before use consult Technical Brochure

### VALF-FKOF/FM

BUTTERFLY VALVE

Bare shaft for actuation

Wafer type to fit between flanges



VALF-FKOF/FM		CODE	FPM LINER
d	DN		
50	40	VALFFKOFFM0050F	
63	50	VALFFKOFFM0063F	
75	65	VALFFKOFFM0075F	
90	80	VALFFKOFFM0090F	
110	100	VALFFKOFFM0110F	
140	125	VALFFKOFFM0140F	
160	150	VALFFKOFFM0160F	
225	200	VALFFKOFFM0225F	
280	250	VALFFKOFFM0280F	
315	300	VALFFKOFFM0315F	

### VALF-FKOF/LM

BUTTERFLY VALVE

Lever operated

Wafer type to fit between flanges



VALF-FKOF/LM		CODE	FPM LINER
d	DN		
50	40	VALFFKOFLM0050F	
63	50	VALFFKOFLM0063F	
75	65	VALFFKOFLM0075F	
90	80	VALFFKOFLM0090F	
110	100	VALFFKOFLM0110F	
140	125	VALFFKOFLM0140F	
160	150	VALFFKOFLM0160F	
225	200	VALFFKOFLM0225F	

## BALL CHECK VALVE SERIES SR

### VALF-FKOF/RM

BUTTERFLY VALVE

Gear box operated

Wafer type to fit between flanges



VALF-FKOF/RM		CODE	FPM LINER
d	DN		
75	65	VALFFKOFRM0075F	
90	80	VALFFKOFRM0090F	
110	100	VALFFKOFRM0110F	
140	125	VALFFKOFRM0140F	
160	150	VALFFKOFRM0160F	
225	200	VALFFKOFRM0225F	
280	250	VALFFKOFRM0280F	
315	300	VALFFKOFRM0315F	

### VALF-SRIF

BALL CHECK VALVE

Plain male spigot end  
for fusion welding



VALF-SRIF		CODE	VITON SEALS
d	DN		
20	15	VALFSRIF0020F	
25	20	VALFSRIF0025F	
32	25	VALFSRIF0032F	
40	32	VALFSRIF0040F	
50	40	VALFSRIF0050F	
63	50	VALFSRIF0063F	

## Thermoplastic Variable Area Flowmeters




These flowmeters operate according to the variable area principle, where a float is suspended in upward flowing media in a tapered plastic tube. The vertical position of the float within the metering tube depends on the flowrate of the media. The metering tube is graduated in suitable flow units and the reading is taken in correspondence with the top edge of the float. Versions for liquids and gases are available, providing accurate and cost-effective measurement with scales in l/h and Nm<sup>3</sup>/h

### Flow Meters


Technical Specifications:	
Construction:	<b>FS:</b> Standard variable area flowmeters <b>FC:</b> Compact variable area flowmeters
Size Range:	DN 10 ÷ 65
Operating pressure:	PVC-U, PVC-C, PP end connectors: 10 bar with water at 20 °C Carbon Steel, Stainless Steel end connectors: 15 bar with water at 20 °C
Tube material:	PVC-U, PA (Trogamid), PSU (Polysulfone)
Seal material:	EPDM supplied as standard, FKM
Float material:	Red PP, AISI 316 Stainless Steel
End connectors:	PVC-U, PVC-C, PP-H, AISI 316 SS, Carbon Steel
Temperature range:	5°C - 100°C *Subject to tube material & end connectors
Accessories:	-Magnetic Float options for Min & Max Alarm switches -Double scale & Special scale option available for specific application requirements on request

# FLOWMETERS WITH PVC BODIES




<b>FCIV</b> Solvent cement union ends			
			
Body: Transparent PVC			
Float: Stainless Steel			
O'Ring: EPDM			
d	BSP	Flow rate Range for water	CODE (PVC-U ISO Metric Socket Unions)
20	½"	5-50 L/H	FLOWFCIV020T1X0050
20	½"	10-100 L/H	FLOWFCIV020T1X0100
20	½"	15-160 L/H	FLOWFCIV020T1X0160
20	½"	20-250 L/H	FLOWFCIV020T1X0250
20	½"	35-350 L/H	FLOWFCIV020T1X0350
25	¾"	15-150 L/H	FLOWFCIV025T1X0150
25	¾"	25-250 L/H	FLOWFCIV025T1X0250
25	¾"	40-400 L/H	FLOWFCIV025T1X0400
25	¾"	50-600 L/H	FLOWFCIV025T1X0600
25	¾"	100-1100 L/H	FLOWFCIV025T1X1100
32	1"	40-400 L/H	FLOWFCIV032T1X0400
32	1"	50-600 L/H	FLOWFCIV032T1X0600
32	1"	100-1000 L/H	FLOWFCIV32T1X1000
32	1"	150-1500 L/H	FLOWFCIV032T1X1500


Size	Tube length
DN 15/20MM ½ INCH	170MM
DN 20/25MM ¾ INCH	185MM
DN 25/32MM 1 INCH	200MM

<b>FCIV</b> Solvent cement union ends			
			
Body: Transparent PVC			
Float: PP (Polypropylene ) Black			
O'Ring: EPDM			
d	BSP	Flow rate Range for water	CODE (PVC-U ISO Metric Socket Unions)
20	½"	2-25 L/H	FLOWFCIV020T1M0025
20	½"	5-50 L/H	FLOWFCIV020T1M0050
20	½"	10-100 L/H	FLOWFCIV020T1M0100
20	½"	15-150 L/H	FLOWFCIV020T1M0150
20	½"	20-200 L/H	FLOWFCIV020T1M0200
25	¾"	8-80 L/H	FLOWFCIV025T1M0080
25	¾"	15-150 L/H	FLOWFCIV025T1M0150
25	¾"	20-200 L/H	FLOWFCIV025T1M0200
25	¾"	30-350 L/H	FLOWFCIV025T1M0350
25	¾"	50-650 L/H	FLOWFCIV025T1M0650
32	1"	20-200 L/H	FLOWFCIV032T1M0200
32	1"	30-300 L/H	FLOWFCIV032T1M0300
32	1"	60-600 L/H	FLOWFCIV032T1M0600
32	1"	100-1000 L/H	FLOWFCIV032T1M1000

Size	Tube length
DN 15/20MM ½ INCH	170MM
DN 20/25MM ¾ INCH	185MM
DN 25/32MM 1 INCH	200MM

<b>FSIV</b> Solvent cement union ends			
			
Body: Transparent PVC			
Float: Stainless Steel			
O'Ring: EPDM			
d	BSP	Flow rate Range for water	CODE (PVC-U ISO Metric Socket Unions)
25	¾"	25-250 L/H	FLOWFSIV025T1X0250
25	¾"	40-400 L/H	FLOWFSIV025T1X0400
25	¾"	60-640 L/H	FLOWFSIV025T1X0640
25	¾"	100-1000 L/H	FLOWFSIV025T1X1000
32	1"	40-400 L/H	FLOWFSIV032T1X0400
32	1"	60-640 L/H	FLOWFSIV032T1X0640
32	1"	100-1000 L/H	FLOWFSIV032T1X1000
32	1"	150-1600 L/H	FLOWFSIV032T1X1600
40	1½"	150-1600 L/H	FLOWFSIV040T1X1600
40	1½"	200-2500 L/H	FLOWFSIV040T1X2500
40	1½"	400-4000 L/H	FLOWFSIV040T1X4000
50	1½"	200-2500 L/H	FLOWFSIV050T1X2500
50	1½"	400-4000 L/H	FLOWFSIV050T1X4000
50	1½"	500-5000 L/H	FLOWFSIV050T1X5000
63	2"	400-4000 L/H	FLOWFSIV063T1X4000
63	2"	600-6000 L/H	FLOWFSIV063T1X6000
63	2"	1000-10 000 L/H	FLOWFSIV063T1X0010
75	2½"	1500-15 000 L/H	FLOWFSIV075T1X0015
75	2½"	2000-20 000 L/H	FLOWFSIV075T1X0020
75	2½"	10 000-50 000 L/H	FLOWFSIV075T1X0050

Size	Tube Length
DN 20/25MM ¾ INCH TO DN 65/75MM 2½"	350mm = Stays the same for all sizes.

<b>FSIV</b> Solvent cement union ends			
			
Body: Transparent PVC			
Float: (Polypropylene ) Black			
O'Ring: EPDM			
d	BSP	Flow rate Range for water	CODE (PVC-U ISO Metric Socket Unions)
25	¾"	15150 L/H	FLOWFSIV025T1M0150
25	¾"	25-250 L/H	FLOWFSIV025T1M0250
25	¾"	45-450 L/H	FLOWFSIV025T1M0450
25	¾"	70-700 L/H	FLOWFSIV025T1M0700
32	1"	25-250 L/H	FLOWFSIV032T1M0250
32	1"	40-400 L/H	FLOWFSIV032T1M0400
32	1"	65-650 L/H	FLOWFSIV032T1M0650
32	1"	100-1000 L/H	FLOWFSIV032T1M1000
40	1½"	100-1000 L/H	FLOWFSIV040T1M1000
40	1½"	160-1600 L/H	FLOWFSIV040T1M1600
40	1½"	200-2500 L/H	FLOWFSIV040T1M2500
50	1½"	150-15000 L/H	FLOWFSIV050T1M1600
50	1½"	200-2200 L/H	FLOWFSIV050T1M2200
50	1½"	250-2500 L/H	FLOWFSIV050T1M2500
63	2"	250-2500 L/H	FLOWFSIV063T1M2500
63	2"	350-3500 L/H	FLOWFSIV063T1M3500
63	2"	500-5000 L/H	FLOWFSIV063T1M5000
75	2½"	1000-8000 L/H	FLOWFSIV075T1M8000
75	2½"	1000-10 000 L/H	FLOWFSIV075T1M0010
75	2½"	5000-25 000 L/H	FLOWFSIV075T1M0025

Size	Tube Length
DN 20/25MM ¾ INCH TO DN 65/75MM 2½"	350mm = Stays the same for all sizes.



# FLOWMETERS




Threaded End Connectors for

Flow Meter FC/FS

Code:

FLOSQR2

BSP	Code
1/2"	FLOSQR20500
3/4"	FLOSQR20750
1"	FLOSQR21000
1 1/4"	FLOSQR21250
1 1/2"	FLOSQR21500
2"	FLOSQR22000
2 1/2"	FLOSQR22500



EXTRAS: PRICE ON REQUEST

CPVC END CONNECTORS

PP END CONNECTORS

O RINGS FPM

SPECIAL SCALES

FLOWMETERS FOR NAOH

FLOWMETERS FOR HCI

FLOWMETERS FOR AIR

FLOATS WITH MAGNET

STAINLESS STEEL END CONNECTIONS

MALLEABLE IRON END CONNECTIONS

ACCESSORIES

Microswitch MAX

Microswitch MIN

# ABS

## ACRYLONITRILE BUTADIENE STYRENE



# **SUPERFLO**

# **ABS RANGE**



## **Did you know?**

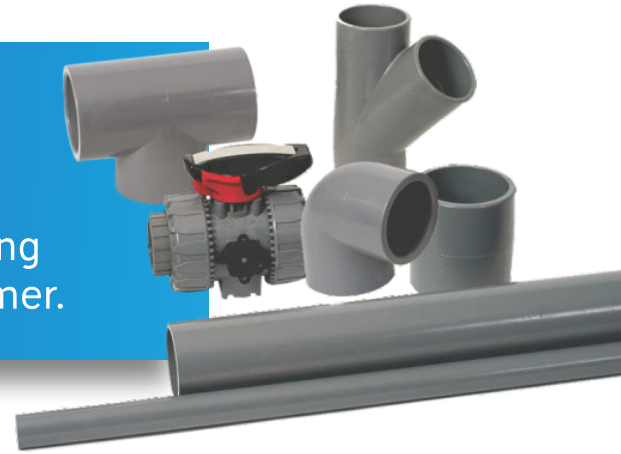
That ABS is the only Thermoplastic  
that can handle temperatures  
@ -40 Degree Celcius!



# ACRYLONITRILE BUTADIENE STYRENE

## ABS

Series of fittings designed for conveying fluids under pressure with a cold chemical weld jointing system (solvent welding) using a suitable solvent cement and cleaner primer.



ABS combines numerous performance and economic benefits which make it the ideal solution when there is a requirement for a pipe system to convey fluids at pressure. ABS is a copolymer of Acrylonitrile Butadiene Styrene, blended, to give unrivalled properties and benefits over traditional pipework materials such as copper or steel. Acrylonitrile imparts chemical resistance ensuring the pipework does not corrode or scale. The Butadiene content endows the material with impact strength and toughness, particularly at low temperatures, while the Styrene content contributes to lustre, hence the extremely smooth bores, and ensures the strength of the material.

ABS provides a wide temperature range between  $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  and the system remains extremely ductile.

ABS is extremely lightweight and is much easier to handle on-site than traditional materials especially during installation which can significantly reduce both time and cost.

Full series of fittings from  $\text{Ø } 3/8''$  to  $\text{Ø } 8''$   
(Imperial)

Full series of fittings from  $\text{Ø } 16\text{mm}$  to  $\text{Ø } 315\text{mm}$   
(Metric)

**Pressure Rated**  
**PN16 – PN4**

# ABS PIPES & FITTINGS - PN10



PIPE 10 BAR 5 METRE LENGTHS	
ABSP	
dia	CODE
16	ABSP0016100
20	ABSP0020100
25	ABSP0025100
32	ABSP0032100
40	ABSP0040100
50	ABSP0050100
63	ABSP0063100
75	ABSP0075100
90	ABSP0090100
110	ABSP0110100
125	ABSP0125100
140	ABSP0140100
160	ABSP0160100
200	ABSP0200100
225	ABSP0225100
250	ABSP0250100
315	ABSP0315100

90°BENDS	
ABSF CU1	
dia	CODE
20	ABSFUCU10020
25	ABSFUCU10025
32	ABSFUCU10032
40	ABSFUCU10040
50	ABSFUCU10050
63	ABSFUCU10063
75	ABSFUCU10075
90	ABSFUCU10090
110	ABSFUCU10110

EQUAL TEE PLAIN	
ABSF TI1	
dia	CODE
16	ABSF TI10016
20	ABSF TI10020
25	ABSF TI10025
32	ABSF TI10032
40	ABSF TI10040
50	ABSF TI10050
63	ABSF TI10063
75	ABSF TI10075
90	ABSF TI10090
110	ABSF TI10110
125	ABSF TI10125
140	ABSF TI10140
160	ABSF TI10160
200	ABSF TI10200
225	ABSF TI10225
250	ABSF TI10250
315	ABSF TI10315

45°PLAIN TEE	
ABSF TY1	
dia	CODE
20	ABSF TY10020
25	ABSF TY10025
32	ABSF TY10032
40	ABSF TY10040
50	ABSF TY10050
63	ABSF TY10063

REDUCING SOCKET	
ABSF MR1	
dia	CODE
25 x 20 x 16	ABSFMR1002500200016
32 x 25 x 20	ABSFMR1003200250020
40 x 32 x 25	ABSFMR1004000320025
50 x 40 x 32	ABSFMR1005000400032
63 x 50 x 40	ABSFMR1006300500040
75 x 63 x 50	ABSFMR1007500630050
90 x 75 x 63	ABSFMR1009000750063
110 x 90 x 75	ABSFMR1011000900075
125 x 110 x 90	ABSFMR1012501100090
140 x 125 x 110	ABSFMR1014001250110
160 x 140 x 125	ABSFMR1016001400125
200 x 160 x 140	ABSFMR1020001600140
225 x 200 x 160	ABSFMR1022502000160

REDUCING BUSHES PLAIN	
ABSF RC1	
dia	CODE
20 x 16	ABSFRC100200016
25 x 20	ABSFRC100250020
32 x 16	ABSFRC100320016
32 x 25	ABSFRC100320025
40 x 32	ABSFRC100400032
50 x 25	ABSFRC100500025
50 x 32	ABSFRC100500032
50 x 40	ABSFRC100500040
63 x 25	ABSFRC100630025
63 x 32	ABSFRC100630032
63 x 50	ABSFRC100630050
75 x 63	ABSFRC100750063
90 x 50	ABSFRC100900050
90 x 63	ABSFRC100900063
90 x 75	ABSFRC100900075
110 x 63	ABSFRC101100063
110 x 90	ABSFRC101100090
125 x 110	ABSFRC101250110
140 x 125	ABSFRC101400125
160 x 90	ABSFRC101600090
160 x 110	ABSFRC101600110
160 x 140	ABSFRC101600140
200 x 160	ABSFRC102000160
225 x 160	ABSFRC102250160
225 x 200	ABSFRC102250200
250 x 225	ABSFRC102500225
315 x 250	ABSFRC103150250

90°SWEPT TEES	
ABSF-TST	
dia	CODE
32	ABSF-TST0032
50	ABSF-TST0050
63	ABSF-TST0063
110	ABSF-TST0110

HOSE ADAPTOR	
ABSF-PO1	
dia	CODE
16	ABSFPO10016
20	ABSFPO10020
25	ABSFPO10025
32	ABSFPO10032

SOCKETS PLAIN	
ABSF MA1	
dia	CODE
16	ABSFMA10016
20	ABSFMA10020
25	ABSFMA10025
32	ABSFMA10032
40	ABSFMA10040
50	ABSFMA10050
63	ABSFMA10063
75	ABSFMA10075
90	ABSFMA10090
110	ABSFMA10110
125	ABSFMA10125
140	ABSFMA10140
160	ABSFMA10160
200	ABSFMA10200
225	ABSFMA10225
250	ABSFMA10250
315	ABSFMA10315


45° ELBOW PLAIN	
ABSF GY1	
dia	CODE
16	ABSF GY10016
20	ABSF GY10020
25	ABSF GY10025
32	ABSF GY10032
40	ABSF GY10040
50	ABSF GY10050
63	ABSF GY10063
75	ABSF GY10075
90	ABSF GY10090
110	ABSF GY10110
125	ABSF GY10125
140	ABSF GY10140
160	ABSF GY10160
200	ABSF GY10200
225	ABSF GY10225
250	ABSF GY10250
315	ABSF GY10315

90° ELBOWS	
ABSF GO1	
dia	CODE
16	ABSF GO10016
20	ABSF GO10020
25	ABSF GO10025
32	ABSF GO10032
40	ABSF GO10040
50	ABSF GO10050
63	ABSF GO10063
75	ABSF GO10075
90	ABSF GO10090
110	ABSF GO10110
125	ABSF GO10125
140	ABSF GO10140
160	ABSF GO10160
200	ABSF GO10200
225	ABSF GO10225
250	ABSF GO10250
315	ABSF GO10315





# ABS PIPES & FITTINGS - PN10




REDUCING TEE	
	
ABSF TR1	
d x d	CODE
25 X 20	ABSFTR100250020
32 X 20	ABSFTR100320020
32 X 25	ABSFTR100320025
40 X 20	ABSFTR100400020
40 X 25	ABSFTR100400025
50 X 20	ABSFTR100500020
50 X 25	ABSFTR100500025
50 X 32	ABSFTR100500032
63 X 25	ABSFTR100630025
63 X 32	ABSFTR100630032
75 X 32	ABSFTR100750032
75 X 40	ABSFTR100750040
75 X 50	ABSFTR100750050
75 X 63	ABSFTR100750063
90 X 40	ABSFTR100900040
90 X 50	ABSFTR100900050
90 X 63	ABSFTR100900063
90 X 75	ABSFTR100900075
110 X 50	ABSFTR101100050
110 X 63	ABSFTR101100063
110 X 75	ABSFTR101100075
110 X 90	ABSFTR101100090


MALE THREAD ADAPTOR	
	
ABSF AM3	
d x d x BSP	CODE
16 X 12 X 3/8"	ABSFAM3001600120375
20 X 16 X 3/8"	ABSFAM3002000160375
20 X 16 X 1/2"	ABSFAM3002000160500
25 X 20 X 1/2"	ABSFAM3002500200050
25 X 20 X 3/4"	ABSFAM3002500200750
32 X 25 X 3/4"	ABSFAM30032025050750
32 X 25 X 1"	ABSFAM3003202510000
40 X 32 X 1"	ABSFAM3004000321000
40 X 32 X 1,1/4"	ABSFAM3004000321250
50 X 40 X 1,1/4"	ABSFAM3005000401250
50 X 40 X 1,1/2"	ABSFAM3005000401500
63 X 50 X 1,1/2"	ABSFAM3006300501500
63 X 50 X 2"	ABSFAM3006300502000
75 X 63 X 2"	ABSFAM3007500632000


CAP THREAD	
	
ABSF CA2	
BSP	CODE
3/8"	ABSFCA20375
1/2"	ABSFCA20500
3/4"	ABSFCA20750
1"	ABSFCA21000
1 1/4"	ABSFCA21250
1 1/2"	ABSFCA21500
2"	ABSFCA22000
3"	ABSFCA23000


90° ELBOW THREAD	
	
ABSF GO2	
BSP	CODE
1/2"	ABSFGO20500
3/4"	ABSFGO20750
1"	ABSFGO21000
1 1/2"	ABSFGO21500
2"	ABSFGO22000


STUB FLANGE	
	
ABSF QR1	
d x d	CODE
16	ABSFQR10016
20	ABSFQR10020
25	ABSFQR10025
32	ABSFQR10032
40	ABSFQR10040
50	ABSFQR10050
63	ABSFQR10063
75	ABSFQR10075
90	ABSFQR10090
110	ABSFQR10110
125	ABSFQR10125
140	ABSFQR10140
160	ABSFQR10160
200	ABSFQR10200
225	ABSFQR10225
250	ABSFQR10250
315	ABSFQR10315


FEMALE THREAD ADAPTOR	
	
ABSF AF3	
d x d x BSP	CODE
16 X 12 X 3/8"	ABSF AF3001600120375
20 X 16 X 1/2"	ABSF AF3002000160500
25 X 20 X 3/4"	ABSF AF3002500200750
32 X 25 X 1"	ABSF AF3003200251000
40 X 32 X 1,1/4"	ABSF AF3004000321250
50 X 40 X 1,1/2"	ABSF AF3005000401500
63 X 50 X 2"	ABSF AF3006300502000


BLANK FLANGE	
	
16/13 ABSF FC1	
d x d	CODE
32	ABSF FC10032
40	ABSF FC10040
50	ABSF FC10050
63	ABSF FC10063
75	ABSF FC10075
90	ABSF FC10090
110	ABSF FC10110
125	ABSF FC10125
140	ABSF FC10140
160	ABSF FC10160


THREAD PLUG	
	
ABSF TA2	
BSP	CODE
3/8"	ABSF TA20375
1/2"	ABSF TA20500
3/4"	ABSF TA20750
1"	ABSF TA21000
1 1/4"	ABSF TA21250
1 1/2"	ABSF TA21500
2"	ABSF TA22000


HOSE ADAPTOR	
	
ABSF PO2	
G	CODE
1/2"	ABSF PO20500
3/4"	ABSF PO20750
1"	ABSF PO21000

CAP PLAIN	
	
ABSF CA1	
d x d	CODE
16	ABSF CA10016
20	ABSF CA10020
25	ABSF CA10025
32	ABSF CA10032
40	ABSF CA10040
50	ABSF CA10050
63	ABSF CA10063
75	ABSF CA10075
90	ABSF CA10090
110	ABSF CA10110

SOCKET UNION PLAIN	
	
EPDM SEALS FPM/VITON SEALS AVAILABLE ABSF-BO1-E	
d x d	CODE
16	ABSF BO10016
20	ABSF BO10020
25	ABSF BO10025
32	ABSF BO10032
40	ABSF BO10040
50	ABSF BO10050
63	ABSF BO10063
75	ABSF BO10075
90	ABSF BO10090
110	ABSF BO10110

INCH/METRIC (THREADED/PLAIN) SOCKET ADAPTORS	
	
ABSF MIL	
d x BSP	CODE
20 X 1/2"	ABSF MIL00200500
25 X 3/4"	ABSF MIL00250750
32 X 1"	ABSF MIL00321000
40 X 1 1/4"	ABSF MIL00401250
50 X 1 1/2"	ABSF MIL00501500
63 X 2"	ABSF MIL00632000
90 X 3"	ABSF MIL00903000
110 X 4"	ABSF MIL01104000
160 X 6"	ABSF MIL01606000


SOCKET THREAD	
	
ABSF MA2	
BSP	CODE
0.5"	ABSF MA20500
3.4"	ABSF MA20750
1"	ABSF MA21000
1,1/4"	ABSF MA21250
1,1/2"	ABSF MA21500
2"	ABSF MA22000
3"	ABSF MA23000

NIPPLE HEX NUT THREAD	
	
ABSF NI2	
BSP	CODE
3/8"	ABSF NI20375
1/2"	ABSF NI20500
3/4"	ABSF NI20750
1"	ABSF NI21000
1 1/4"	ABSF NI21250
1 1/2"	ABSF NI21500
2"	ABSF NI22000

# ABS VALVES & ACCESSORIES




FK BUTTERFLY VALVE  
BODY GLASS REINFORCED  
POLYPROPYLENE WITH  
ABS DISC  
VALF- FKOALM-EPDM LINER




d	COVER
75	VALFFKOALM0075E
90	VALFFKOALM0090E
110	VALFFKOALM0110E
140	VALFFKOALM0140E
160	VALFFKOALM0160E
225	VALFFKOALM0225E

VKD DOUBLE UNION BALL  
VALVE  
VKDIA PLAIN EPDM SEALS




d	CODE
16	VALFVKDIA0016E
20	VALFVKDIA0020E
25	VALFVKDIA0025E
32	VALFVKDIA0032E
40	VALFVKDIA0040E
50	VALFVKDIA0050E
63	VALFVKDIA0063E
75	VALFVKDIA0075E
90	VALFVKDIA0090E
110	VALFVKDIA0110E

DIAPHRAGM VALVE  
EPDM PLAIN END  
VALF VMDA



d	CODE
20	VALFVMDA0020E
25	VALFVMDA0025E
32	VALFVMDA0032E
40	VALFVMDA0040E
50	VALFVMDA0050E
63	VALFVMDA0063E
75	VALFVMDA0075E
90	VALFVMDA0090E
110	VALFVMDA0110E


SOLVENT CEMENT



ABSF CEME

ML	CODE
0500	CEMEOATEY0500ABS
1000	CEMEOATEY1000ABS

THIS IS ABS CEMENT AND CLEANER



CEMEABS0500

ABS SOLV . 1/2L

CEMEABS0500ECO

DURAPIPE ABS ECO CLEANER 500ML

FOR PTFE TAPE PLEASE REFER TO PAGE 10  
FOR TANK CONNECTORS PLEASE REFER TO PAGE 10

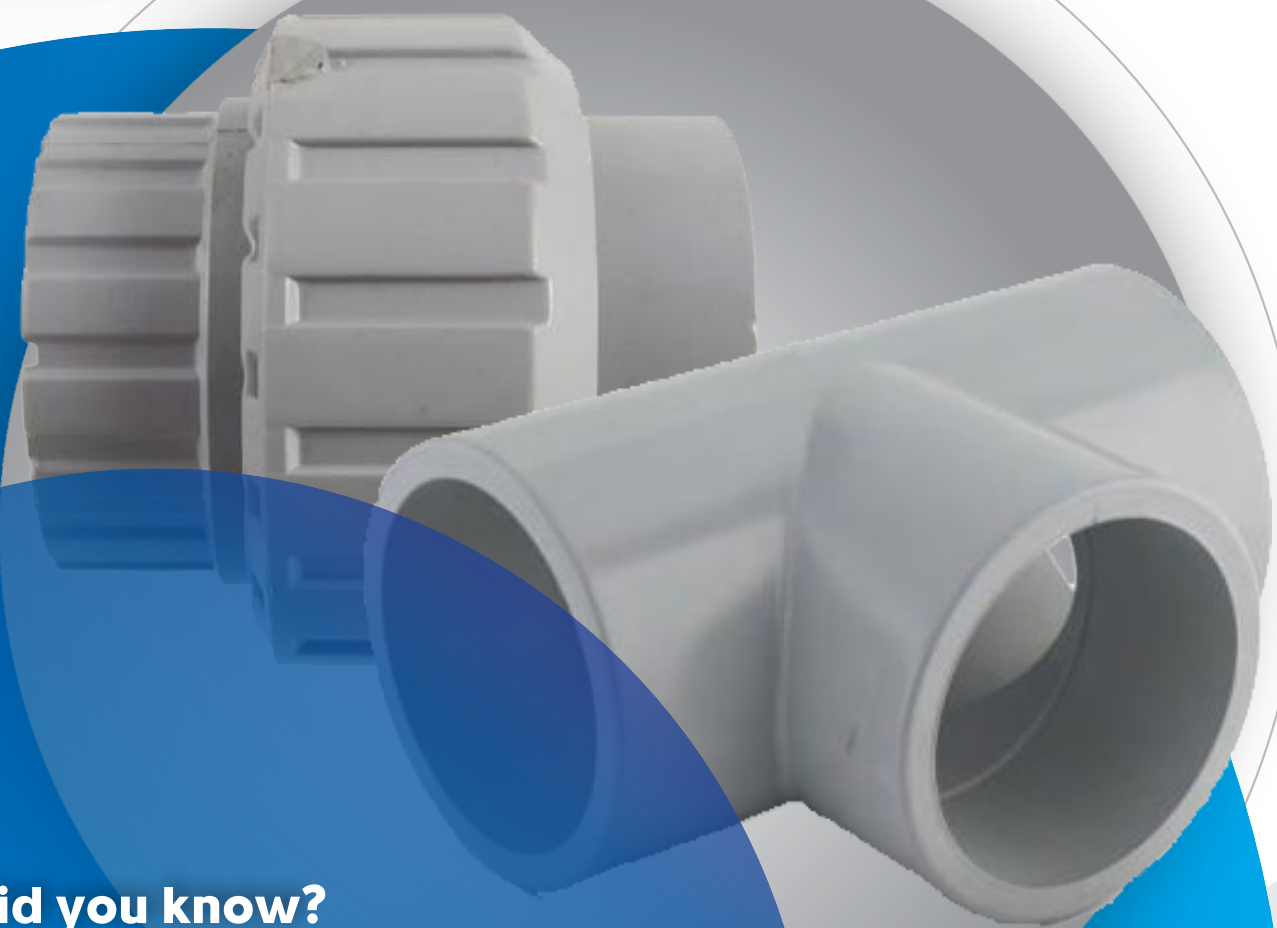
# CPVC

## CHLORINATED POLYVINYL CHLORIDE



CPVC

# CPVC



## Did you know?

That in 1986, FIP introduced the first CPVC integrated system in the world for industrial applications!



# CHLORINATED POLYVINYL CHLORIDE)

**PVC-C** Series of fittings designed for conveying fluids under pressure with a cold chemical weld jointing system (solvent welding) using a suitable solvent cement and cleaner – primer.



**High chemical resistance:** the use of CORZAN™ resins, obtained from processes of post-chlorination of homopolymer PVC is a guarantee of high chemical resistance, especially to strong inorganic acids and alkaline solutions. the optimal mechanical properties remain unchanged during the transfer of hot industrial fluids. CORZAN™ resins also offer total compatibility for the transfer of treated and untreated drinking water as well as demineralised water and spa water for therapeutic and Kino therapeutic applications.

**Optimal thermal stability:** above all in the intermediate temperature range from 5°C to 100°C C-PVC is ideal for industrial applications, guaranteeing optimal mechanical resistance, good rigidity, very low coefficients of thermal expansion and optimal safety factors in service.

**Resistance to fire:** CORZAN™ C-PVC resins guarantee excellent resistance to fire, thanks to a flame onset temperature of 482°C and a high limit of oxygen index LOI = 60%. CORZAN™ C-PVC resins are classified VO, 5VB e 5VA to UI94

**Lifetime:** CORZAN™ C-PVC resins feature a high value in the circumferential breaking strength (Minimum Required Strength MRS = 25.0 MPa at 20°C) and ensure extended lifetime of installations, without signs of significant mechanical or physical deterioration.

Full series of fittings from Ø 3/8" to Ø 8"  
(Imperial)

Full series of fittings from Ø 16mm to Ø  
315mm (Metric)

**Pressure Rated  
PN16 – PN4**



# CPVC PIPES & FITTINGS



## Pipe ISO METRIC RANGE

Pipe acc. To DIN8079/8080, RAL 215 - light grey, std length 5m  
PIPES  
PVC-C CORZAN



d	SS mm	kg/m	Code Pn16 SDR 13-S10
16	1,2	0,110	PVCC0016160
20	1,5	0,17	PVCC0020160
25	1,9	0,26	PVCC0025160
32	2,4	0,42	PVCC0032160
40	3,0	0,630	PVCC0040160
50	3,7	0,970	PVCC0050160
63	4,7	1,530	PVCC0063160
75	5,6	2,2000	PVCC0075160
90	6,7	2,880	PVCC0090160
110	8,2	4,310	PVCC0110160
+160	7,7	6,060	PVCC0160160

+ PN10

## Fittings for Solvent Welding ISO METRIC RANGE

Double socket, socket for solvent welding



MIC

d	Code CPVC-MIC-
16	CPVCMIC0016
20	CPVCMIC0020
25	CPVCMIC0025
32	CPVCMIC0032
40	CPVCMIC0040
50	CPVCMIC0050
63	CPVCMIC0063
75	CPVCMIC0075
90	CPVCMIC0090
110	CPVCMIC0110
160	CPVCMIC0160

## Fittings for Solvent Welding ISO METRIC RANGE

Elbow 90° socket for solvent welding



GIC

d	Code CPVC-GIC-
16	CPVCGIC0016
20	CPVCGIC0020
25	CPVCGIC0025
32	CPVCGIC0032
40	CPVCGIC0040
50	CPVCGIC0050
63	CPVCGIC0063
75	CPVCGIC0075
90	CPVCGIC0090
110	CPVCGIC0110
160	CPVCGIC0160

Elbow 45°, socket for solvent welding



HIC

d	Code CPVC-HIC-
20	CPVCHIC0020
25	CPVCHIC0025
32	CPVCHIC0032
40	CPVCHIC0040
50	CPVCHIC0050
63	CPVCHIC0063
75	CPVCHIC0075
90	CPVCHIC0090
110	CPVCHIC0110
160	CPVCHIC0160

Tee 90° for solvent welding



TIC

d	Code CPVC-TIC-
16	CPVTIC0016
20	CPVTIC0020
25	CPVTIC0025
32	CPVTIC0032
40	CPVTIC0040
50	CPVTIC0050
63	CPVTIC0063
75	CPVTIC0075
90	CPVTIC0090
110	CPVTIC0110
160	CPVTIC0160

Tee 90° reducing, socket for solvent welding with the offtake socket d1 reduced



TRIC

dx d1	Code CPVC-TRIC-
25x20	CPVCTRIC00250020
32x20	CPVCTRIC00320020
32x25	CPVCTRIC00320025
40x20	CPVCTRIC00400020
40x25	CPVCTRIC00400025
50x25	CPVCTRIC00500025
50x32	CPVCTRIC00500032
63x25	CPVCTRIC00630025
63x32	CPVCTRIC00630032
75x25	CPVCTRIC00750025
90x25	CPVCTRIC00900025
110x25	CPVCTRIC01100025

## Fittings for Solvent Welding ISO METRIC RANGE

Serrated stub according to ISO 15493  
PN10/16 for flat gasket, socket for solvent welding  
QRC



d	Code CPVC-QRC-
20	CPVCQRC0020
25	CPVCQRC0025
32	CPVCQRC0032
40	CPVCQRC0040
50	CPVCQRC0050
63	CPVCQRC0063
75	CPVCQRC0075
90	CPVCQRC0090
110	CPVCQRC0110
160	CPVCQRC0160

Reducing bush spigot for solvent welding (d), socket for solvent welding reduced (d1)



DIC

dx d1	Code CPVC-DIC-
20x16	CPVCDIC00200016
25x20	CPVCDIC00250020
32x20	CPVCDIC00320020
32x25	CPVCDIC00320025
40x20	CPVCDIC00400020
40x25	CPVCDIC00400025
40x32	CPVCDIC00400032
50x32	CPVCDIC00500032
50x40	CPVCDIC00500040
63x32	CPVCDIC00630032
63x40	CPVCDIC00630040
63x50	CPVCDIC00630050
75x50	CPVCDIC00750050
75x63	CPVCDIC00750063
90x50	CPVCDIC00900050
90x63	CPVCDIC00900063
90x75	CPVCDIC00900075
110x63	CPVCDIC01100063
110x75	CPVCDIC01100075
110x90	CPVCDIC01100090
160x110	CPVCDIC01600110

End cap, socket for solvent welding



CIC

d	Code CPVC-CIC-
20	CPVCCIC0020
25	CPVCCIC0025
32	CPVCCIC0032
40	CPVCCIC0040
50	CPVCCIC0050
63	CPVCCIC0063
75	CPVCCIC0075
90	CPVCCIC0090
110	CPVCCIC0110

\*NON STOCK ITEM BUT AVAILABLE  
ON REQUEST

# CPVC PIPES & FITTINGS



## Unions for Solvent Welding ISO METRIC RANGE

Socket union, socket for solvent welding, with EPDM and FPM gasket



BIC

d	Code	
	EPDM code	FPM Code
16	CPVCBIC0016E	CPVCBIC0016F
20	CPVCBIC0020E	CPVCBIC0020F
25	CPVCBIC0025E	CPVCBIC0025F
32	CPVCBIC0032E	CPVCBIC0032F
40	CPVCBIC0040E	CPVCBIC0040F
50	CPVCBIC0050E	CPVCBIC0050F
63	CPVCBIC0063E	CPVCBIC0063F

NOTE: The socket union version can be supplied in EPDM version with FPM gasket included

## Fittings for Solvent Welding ISO METRIC RANGE

Double adaptor socket female/male, one end female/male for solvent welding the other parallel threaded



KIFC

dxdxBSP	Code	
	CPVC-KIFC-	
20x16x3/8"	CPVCKIFC002000160375	
25x20x1/2"	CPVCKIFC002500200500	
32x25x3/4"	CPVCKIFC003200250750	
40x32x1"	CPVCKIFC004000321000	
50x40x1 1/4"	CPVCKIFC005000401250	
63x50x1 1/2"	CPVCKIFC006300501500	
75x63x2"	CPVCKIFC007500632000	

Double socket reinforced, one plain socket for solvent welding, the other BS parallel socket threaded with reinforcing Stainless Steel ring



MIMC

d x BSP	Code	
	CPVC-MIMC-	
16x3/8"	CPVCMIMC00160375	
20x1/2"	CPVCMIMC00200500	
25x3/4"	CPVCMIMC00250750	
32x1"	CPVCMIMC00321000	
40x1 1/4"	CPVCMIMC00401250	
50x1 1/2"	CPVCMIMC00501500	
63x2"	CPVCMIMC00632000	

Elbow 90° reinforced, one socket plain for solvent welding the other parallel threaded with reinforcing Stainless Steel Ring



GIMC

d x BSP	Code	
	CPVC-GIMC-	
16x3/8"	CPVCGIMC00160375	
20x1/2"	CPVCGIMC00200500	
25x3/4"	CPVCGIMC00250750	
32x1"	CPVCGIMC00321000	
40x1 1/4"	CPVCGIMC00401250	
50x1 1/2"	CPVCGIMC00501500	
63x2"	CPVCGIMC00632000	

## Fittings for Solvent Welding ISO METRIC RANGE

Tee 90° reinforced, with two plain sockets for solvent welding, the third BS parallel socket threaded with reinforcing Stainless Steel ring



TIMC

d x BSP	Code	
	CPVC-TIMC-	
16x3/4"	CPVCTIMC00160375	
20x1/2"	CPVCTIMC00200500	
25x3/4"	CPVCTIMC00250750	
32x1"	CPVCTIMC00321000	
40x1 1/4"	CPVCTIMC00401250	
50x1 1/2"	CPVCTIMC00501500	
63x2"	CPVCTIMC00632000	

## Unions for Solvent Welding ISO METRIC RANGE

Socket union, one end plain socket for solvent welding, the other BS parallel socket threaded, with EPDM gasket



BIFC

d x BSP	Code	
	CPVC-BIFC-	
16x3/8"	CPVCBIFC00160375E	
20x1/2"	CPVCBIFC00200500E	
25x3/4"	CPVCBIFC00250750E	
32x1"	CPVCBIFC00321000E	
40x1 1/4"	CPVCBIFC00401250E	
50x1 1/2"	CPVCBIFC00501500E	
63x2"	CPVCBIFC00632000E	

## Unions for Solvent Welding ISO METRIC RANGE

Socket union, one PVC-C end socket plain for solvent welding the other Brass male parallel threaded, with EPDM gasket (nut in brass)



BIRCO

d x BSP	Code	
	CPVC-BIRCO-	
16x3/8"	CPVCBIRCO00160375E	
20x1/2"	CPVCBIRCO00200500E	
25x3/4"	CPVCBIRCO00250750E	
32x1"	CPVCBIRCO00321000E	
40x1 1/4"	CPVCBIRCO00401250E	
50x1 1/2"	CPVCBIRCO00501500E	
63x2"	CPVCBIRCO00632000E	

Socket union, one PVC-C end plain socket for solvent welding the other brass BS parallel socket threaded, with EPDM gasket (brass union nut)

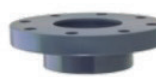


BIFCO

d x BSP	Code	
	CPVC-BIFCO-	
16x3/4"	CPVCBIFCO00160375E	
20x1/2"	CPVCBIFCO00200500E	
25x3/4"	CPVCBIFCO00250750E	
32x1"	CPVCBIFCO00321000E	
40x1 1/4"	CPVCBIFCO00401250E	
50x1 1/2"	CPVCBIFCO00501500E	
63x2"	CPVCBIFCO00632000E	

## Flanges ISO METRIC RANGE

PVC-C Baking ring DIN2501 drilled PN 10/16 for QRC stubs



ODC

d	Code	
	CPVC-ODC-	
20	CPVCODC020	
25	CPVCODC025	
32	CPVCODC032	
40	CPVCODC040	
50	CPVCODC050	
63	CPVCODC063	
75	CPVCODC075	
90	CPVCODC090	
110	CPVCODC110	

This is CPVC cement



CEMECPVC0500

CPVC  
CEMENT  
500ML

\*NON STOCK ITEM BUT AVAILABLE ON REQUEST

# CPVC VALVES



## Two way ball valve VK DualBlock® DN65 - 100 series

### Technical features

- > Size Range from DN10 to DN50 (3/8" to 2")
- > Pressure rate up to 16 bar (232psi) with water at 20°C (68°F)
- > Ball seats in PTFE, seals in EPDM or FPM
- > Patented DualBlock® system to avoid nuts accidentally unscrewing
- > Self compensation of thermal expansion and micro-adjustment of the PTFE ball seats
- > Easy maintenance: quick radial disassembling from the pipeline and quick substitution of the o-rings and the ball seats, without any additional tools
- > Floating ball system with double groove stem connection
- > Multifunctional handle with removal insert tool for seats regulation and block device 0 - 90° on request
- > Integrated moulded bracket for valve fastening
- > Easy actuation with PowerQuick module, even after installation nuts accidentally unscrewing

DualBlock® ball valve with metric plain socket ends for solvent welding		
VKDIC		
d	EPDM Code	FPM Code
16	0016E	0016F
20	0020E	0020F
25	0025E	0025F
32	0032E	0032F
40	0040E	0040F
50	0050E	0050F
63	0063E	0063F

## Two way ball valve VK DualBlock® Dn 10 - 50 series

### Technical features

- > Size Range from CN65 to DN100 (2 1/2" to 4")
- > Pressure rate up to 16 bar (232psi) with water at 20°C (68°F)
- > Ball seats in PTFE, seals in EPDM or FPM
- > Patented DualBlock® system to avoid nuts accidentally unscrewing
- > Self compensation of thermal expansion and micro-adjustment of the PTFE ball seats
- > Easy maintenance: quick radial disassembling from the pipeline and quick substitution of the o-rings and the ball seats, without any additional tool
- > Double pivot ball system with double groove stem connection
- > Multifunctional hand lever, provided with locking device and flow throttling
- > Easy actuation with upper flange ISO5211F07, even after installation

DualBlock® ball valve with metric plain socket ends for solvent weldin		
VKDIC		
d	EPDM Code	FPM Code
75	0075E	0075F
90	0090E	0090F
110	0110E	0110F

## Two way ball valve VK DualBlock® Dn 10 - 50 series

### Technical features

- > Size Range from DN10 to DN50 (3/8" to 2")
- > Presure rate up to 16 bar (232psi) with water at 20° (68°F)
- > Ball seats in PTFE, seals in EPDM or FPM
- > Micro adjustment of the PTFE balls seats
- > Easy maintenance: quick radial dissassembling from the pipeline and quick substiuion of the o-rings and the ball seats, without any additional tool
- > Multifunctional handle with removable insert tool for seats regulation and handle stop device very 45° with safety block system
- > T Bore and L bore ball configuration
- > Easy actuation with integrated moulded mounting pad drilled according to ISO5211 F04-F05-F07

3-way all valve with metric plain socket ends for solvent welding. T bore		
TKDIC		
d	EPDM Code	FPM Code
16	0016E	0016F
20	0020E	0020F
25	0025E	0025F
32	0032E	0032F
40	0040E	0040F
50	0050E	0050F
63	0063E	0063F

NOTE: available while stock last  
TKD might be supplied as alternative

\*NON STOCK ITEMS BUT AVAILABLE  
ON REQUEST

3-way ball valve with metric plain socket ends for solvent welding. L bore		
LKDIC		
d	EPDM Code	FPM Code
16	0016E	0016F
20	0020E	0020F
25	0025E	0025F
32	0032E	0032F
40	0040E	0040F
50	0050E	0050F
63	0063E	0063F

NOTE: available while stock last  
TKD might be supplied as alternative

# CPVC VALVES



## Ball check valve SR series

### Technical features

- > Size range from DN15 to DN50
- > Pressure rate up to 16 bar (232psi) with water at 20°C (68°F)
- > Seals in EPDM or FPM
- > Reduced pressure drop
- > Vertical or horizontal installation

## Ball check valve with metric plain socket ends for solvent welding



d	EPDM Code	FPM Code
20	0020E	0020F
25	0025E	0025F
32	0032E	0032F
40	0040E	0040F
50	0050E	0050F
63	0063E	0063F

## Butterfly valve FK series PVC-C disc

### Technical features

- > Size range from DN40 to DN300
- > Pressure rate up to 16 bar (232psi) up to Dn50. 10bar (145psi) DN65 -250 and 8 bar (116psi) DN300 with water at 20° (68°F)
- > Body material - PP-GR U.V. resistant, not in contact with the line fluid, face to face according to ISO 5752 and DIN 3202
- > Oval holes flange pattern with self-centering inserts, matching DIN2501, Bs 10 table D/E. ASA B16,5 class 150 JIS2212
- > PVC-C disc, interchangeable with other materials (PVC-U, PP-H, PVDF, ABS)
- > Primary liner interchangeable in EPDM, FPM (NBR on request)
- > Drilling for actuation or gear box ISO 5211 F05-F07-F10-F12-F14
- > Ergonomic handle, provided with locking lever for fine flow throttling (12stops) and anti tampering button (Lock-Unlock)
- > Fully lug version available
- > Shaft material: AISI 420 Stainless Steel as standard  
AISI 316 Stainless Steel as special version (See FK Accessories)

## Butterfly valve hand lever with PVC-C disc



FKOC/LM

d	EPDM Code	FPM Code
50	0050E	0050F
63	0063E	0063F
75	0075E	0075F
90	0090E	0090F
110	0110E	0110F
140	0140E	0140F
160	0160E	0160F
225	0225E	0225F

NOTE: for d75-d225 NBR primary liner available  
see E2. Spare parts section.

## Diaphragm valve VM series

### Technical features

- > Size Range from Dn15 to Dn100 (1/2" to 4")
- > Pressure rate up to 10 bar (145psi) with water at 20°C (68°F)
- > Diaphragm in EPDM, FPM Ptf (NBR on request)
- > Possibility of fastening the valves by two threaded inserts
- > Optical position indicator as standard

## Diaphragm valve with unionised metric plain socket ends for solvent welding

VMUIC



d	EPDM Code	FPM Code	PTFE Code
20	0020E	0020F	0020P
25	0025E	0025F	0025P
32	0032E	0032F	0032P
40	0040E	0040F	0040P
50	0050E	0050F	0050P
63	0063E	0063F	0063P

\*Union o-rings on FPM

## Sediment strainers RV series

### Technical features

- > Size Range from DN15 to DN50
- > Pressure rate up to 16 bar (232psi) with water at 20°C (68°F)
- > PVC-C body
- > Seals in EPDM or FPM
- > Easy maintenance and cleaning even with the valve installed

\* NON STOCK ITEM BUT AVAILABLE  
ON REQUEST

## Diaphragm valve with metric spigot ends for solvent welding

VMDC



d	EPDM Code	FPM Code	PTFE Code
20	0020E	0020F	0020P
25	0025E	0025F	0025P
32	0032E	0032F	0032P
40	0040E	0040F	0040P
50	0050E	0050F	0050P
63	0063E	0063F	0063P
75	0075E	0075F	0075P
90	0090E	0090F	0090P
110	0110E	0110F	0110P

## Sediment strainer with unionised metric plain socket ends for solvent welding

RVUIC



d	EPDM Code	FPM Code
20	0020E	0020F
25	0025E	0025F
32	0032E	0032F
40	0040E	0040F
50	0050E	0050F
63	0063E	0063F

Note: Standard filter screen is Polypropylene  
Homopolmer (PP-H) hole pitch 1,5mm

## NOTES



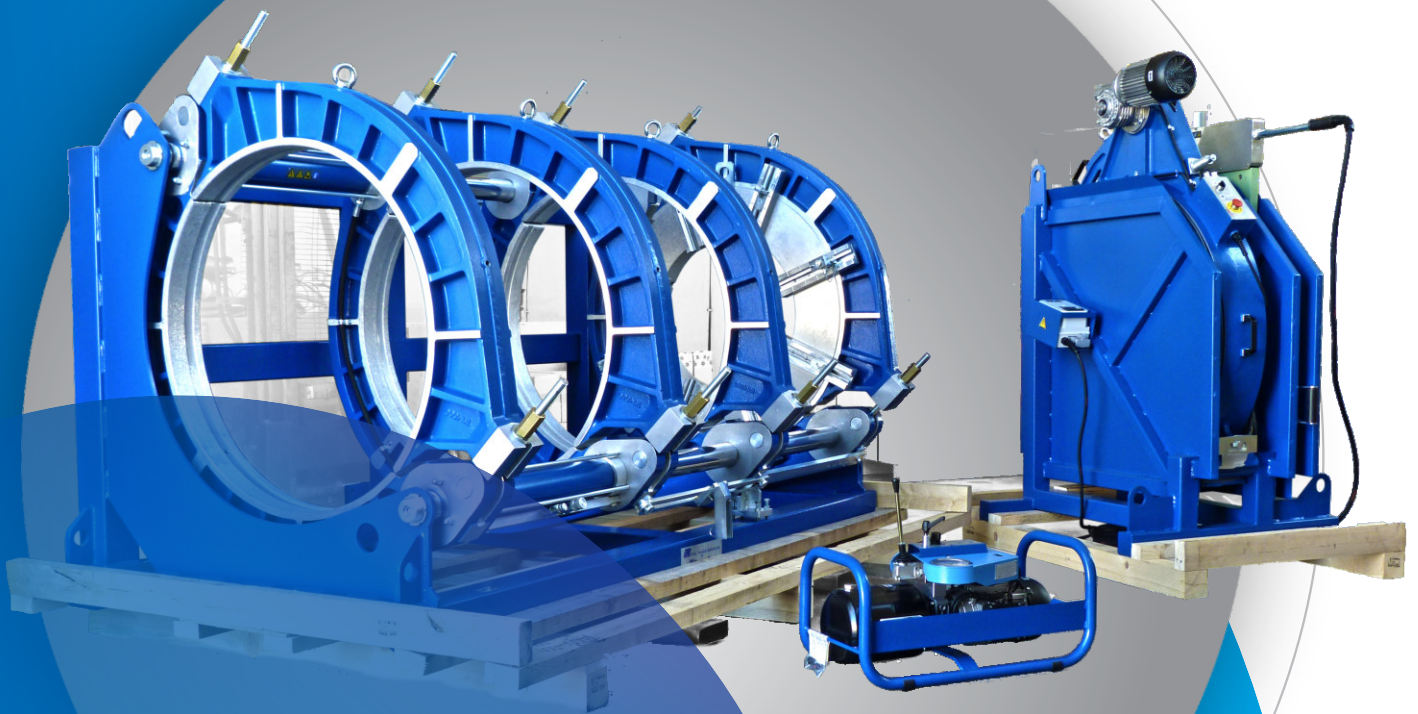
# WELDING

## EQUIPMENT





# THERMOSPLASTIC WELDING MACHINES



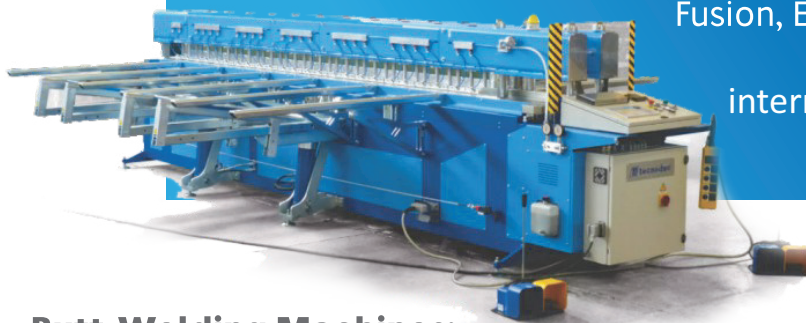
## — Did you know?

That the largest Buttweld machine can weld pipes up to 3 meters in Diameter!

# WELDING EQUIPMENT

Astore Keymak offers the full comprehensive range of thermoplastic **welding equipment** that compliments the thermoplastic pipes & fittings that we supply. This has assisted customers from all over sub-Saharan Africa to become successful in a wide range of industries

As a reliable, experienced supplier, we offer everything from Butt-welding, Socket Fusion, Electro-Fusion, Extrusion, Wedge welding to IR welding equipment from internationally recognized suppliers.



## **Butt-Welding Machines:**

- Workshop Machines: Hydraulically or CNC-controlled for thermoplastics like PE, PP, and PVDF. Used to fabricate bends and tees, with sizes ranging from 125-1600mm.
- Site Machines: Hydraulically operated for PE, PP, and other thermoplastics, suited for road construction, sewers, and irrigation, with sizes from 40-1600mm.
- Bush-Ranger Machines: Self-motorized, track-mounted, and remotely operated, with a range from 315-630mm, adaptable for larger sizes.

## **Socket Fusion Machines:**

- Manual and hydraulically operated options for welding PE, PP, and PVDF, with sizes ranging from 20-110mm.

## **Electro-fusion Welding:**

- Two machines available, capable of welding up to 1200mm using copper coils to generate heat. Powered by 230v/50Hz electrical network or generator.

## **Hot Air Welding:**

- Used for spot welding of sheets and other applications.

## **Extrusion Welding:**

- Machines for welding sheeting and piping, with different output capacities.

**Spares:** Astore carries a complete range of spare parts for all machines.

# TECNODUE PT - TRENCH BUTT WELDING MACHINES



**PT 500**

Range: 200mm - 500mm

Weight: 570Kg

**Comprising of :** Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 200mm - 400mm, stub end device 200mm- 500mm  
Short end spigot fitting clamp d 500, d 315 x 500mm (2 narrow clamps for short spigot fittings)  
d 250mm x 315mm (2 narrow clamps for short spigot fittings)

**NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.**



**PT 630**

Range: 315mm - 630mm

Weight: 755Kg

**Comprising of :** Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 315mm - 560mm, stub end device 200mm - 630mm

**NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.**



**PT 800**

Range: 450mm - 800mm

Weight: 1290 Kg

**Comprising of :** Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 450mm - 710mm, stub end device 450mm - 800mm

**NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.**

**PT 1000**

Range: 630mm - 1000mm

Weight: 2615 Kg

**Comprising of :** Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 630mm - 1000mm, stub end device 630mm - 1000mm

**NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.**

**PT 1200**

Range: 630mm - 1200mm

Weight:

**Comprising of :** Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 630mm - 1200mm, stub end device 630mm - 1200mm

**NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.**

PLEASE CONTACT YOR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARE PARTS

◆ STOCK ITEM

# TECNODUE PL WORKSHOP BUTT WELDING MACHINES



## PL 125C

Range: 25mm - 125mm

Weight: 60Kg

**Comprising of :** Basic machine c/w 2 pivoting clamps, PTFE - coated mirror with thermostat, removable electric facing tool with safety switch, mirror and facing tool support. Reducing rings for pivoting clamps 40 - 140mm. Fitting clamps 125mm, reducing rings for fitting clamps 40mm - 140mm. Stub end device 25mm - 125mm, complete with all accessories.



## PL 160 C

Range: 40mm - 160mm

Weight: 86Kg

**Comprising of :** Basic machine c/w 2 pivoting clamps, PTFE - coated mirror with thermostat, removable electric facing tool with safety switch, mirror and facing tool support. Reducing rings for pivoting clamps 25mm - 110mm. Fitting clamps 125mm, reducing rings for fitting clamps 25mm - 110mm. Stub end device 40mm - 160mm, complete with all accessories.



## PL - MODEL HYDRAULIC (BENCH / WORKSHOP) BUTT WELD MACHINE

The PI workshop butt welding machine range below, are all hydraulically operated, computer controlled units incorporating a printer facility for the recording of all parameters relative to the butt welding of pipes and fittings in PE, P, PVDF. Pivoting clamps facilitate the fabrication of segmented bends and fittings Special assemblies are also available for fabricating T-pieces and Crosses.

## PL 315 C

Range: 90mm - 315mm

Weight: 250Kg

**Comprising of :** Basic machine c/w motor, hydraulic circuits and control board , 2 pivoting clamps 315mm. PTFE - coated heating mirror with electronic thermostat, reducing rings for pivoting clamps 90mm- 280mm Electric mill cutter with reduction gear safety switch, fitting clamp 315mm, reducing rings for fitting clamps 90mm - 280mm, stub end device 90mm - 315mm

## PL 400 C

Range: 90mm - 400mm

Weight: 5080Kg

**Comprising of :** Basic machine c/w motor, hydraulic circuits and control board , 2 pivoting clamps 400mm. PTFE - coated heating mirror with electronic thermostat, reducing rings for pivoting clamps 90mm- 355mm Electric mill cutter with reduction gear safety switch, fitting clamp 400mm, reducing rings for fitting clamps 90mm - 400mm, stub end device 90mm - 400mm

PLEASE CONTACT YOR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARE PARTS

◆ STOCK ITEM



# TECNODUE PL WORKSHOP BUTT WELDING MACHINES



PL 315 CNC  
Range: 90mm - 315mm  
Weight: 423 Kg  
**Comprising of :** Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280mm. Stub end device 90mm-315mm. Complete with all accessories

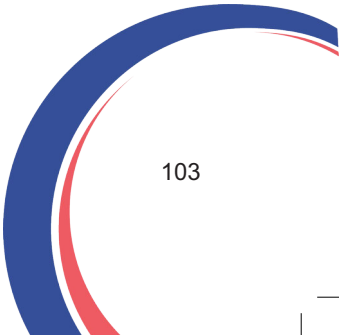
PL400 CNC  
Range: 90mm - 400mm  
Weight: 508kg  
**Comprising of :** Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315 & 355mm. Stub end device 90mm-400mm. Complete with all accessories

PL500 CNC  
Range: 250mm - 500mm  
Weight: 1100Kg  
**Comprising of :** Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400 & 500mmmm. Stub end device 250mm-500mm. Complete with all accessories

PT630 CNC  
Range: 315mm - 630mm  
Weight: 2200Kg  
**Comprising of :** Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400,D500 & 630Mm. Stub end device 315mm-630mm. Complete with all accessories

PL800 CNC  
Range: 315mm - 800mm  
Weight: 3500Kg  
**Comprising of :** Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400,D500,d630 & 710mm. Stub end device 315mm-800mm. Complete with all accessories




Larger PL machines are available on request, please contact your nearest branch for details.  
Cranes are available for the larger PL machines please contact your nearest branch for details.  
PLEASE CONTACT YOR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARE PARTS



# TECNODUE EXTRUSION WELDING MACHINES & ACCESSORIES



'ESTRO' PORTABLE 3mm/4mm ROD EXTRUSION WELDERS

<b>HOT AIR GUN</b> With our MG-1500 you have a complete set for hot gas welding. This set is also available for landfill version.		1500 W Hand welder MG - 1500 Round nozzle 5mm Adaptor nozzle Tracking nozzle Plastic carrying case	
<b>EXTRUSION GUN MEK-18-S-B</b> Hand extruders supplied from an external air source are the extruder technology of choice for shop welding applications. They are smaller and also lighter than their auto air counterparts.	Welding rate Base materials Weld material Application range Weight Length Electronic speed control Air Heater	1,8 kg/h, Ø 4 mm & 1,1 kg/h, Ø 3 mm PP / PE / PVDF 3 / 4 mm 4 - 15 mm 4,5 kg 455 mm Yes 2300w	
<b>WEDGE - IT PLUS</b> This "Giant" amongst our wedge welders can easily weld geomembranes from 1.0 - 2.5mm. This machine works as a standard with copper wedge, but can be adjusted to stainless steel (for PVC welding) With the special thin on this machine it is possible to switch between 220v & 110v	Weight Travel speed Voltage Consumption Material Thickness Dimension	3.5kg 06m/min 110/220 ; 50/60Hz 1200/ 1600 w PE-HD/PE-LD/Hypalon/XR-5/PVC/PP u. a 0.5 - 3mm 266x280x406mm	

\* Other models are available on request.  
 PLEASE CONTACT YOUR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARES  
 ♦ STOCK ITEM

# TECNODUE SHEET WELDING MACHINES


TE

WELDING

## PF SERIES SOCKET FUSION

The range of polyolefin heat welding equipment marketed by Astore Keymak is manufactured by TECNODUE in Italy, with a dimensional range from 16mm up to 110. With more than 20 years of experience in the manufacture of the equipment, the quality and reliability of these machines are self-evident in the excellent reputation they have built in local and international markets.


**PF063**  
RANGE: 16-63MM  
PORTABLE SOCKET FUSION MACHINE (800watt)




**PF110**  
RANGE : 16mm - 110mm  
PORTABLE SOCKET FUSION MACHINE (1600 watt)



**POLY 110 M**  
Range: 16mm - 110mm  
Socket fusion machine  
Manually operated by control lever with round pipe clamps and V-shaped fitting clamps socket depth selector with automatic setting and electronic thermostat. Essential for correct alignment repetitive welding quality control.



**POLY 110 P**  
Range 16mm - 110mm  
Hydraulically operated socket fusion machine with round pipe clamps and V-shaped fitting clamps socket depth selector with automatic thermostat. Essential for correct alignment and repetitive welding quality control



## SHEET FABRICATION EQUIPMENT

### SL 3000

New manually and / or CNC controlled sheet butt welding machines for PE, PP, and PVC & PVDF materials. Our experience gathered over a period of several years has led to this economic line of sheet welding machines that in spite of the price allow perfect welding according to "DVS" and other international standards. The only ones with hydraulic functions controlling the closing of the pressing bar and the machine opening and closing. The machines can manually release pressing bar's hooks. Certainly a major advantage when fabricating pipe or tanks from sheets. Particular care was taken during the design and manufacturing of the heating mirror. Temperature uniformity along its surface and flexibility being of paramount importance together with the pneumatic cylinder system to speed up the change over time. In conclusion, we felt that most outstanding feature of all is that this machine represents the best compromise between price and quality.

**SL 3000**  
CNC controlled sheet butt welding machine for PE, PP, PVC, PVDF as well as other thermoplastic materials. Our experience gathered over a period of several years in the manufacturing of pipe and fitting fusion equipment, combined with the continuous exchange of information with our customers, has led to this state-of-the-art sheet welding machine. The only one of its kind featuring fully hydraulic functions. Unlike compressed air controlled equipment this hydraulic unit allows for a more progressive welding pressure curve as well as the fine tuning. Therefore, the welding values specified by "DVS" and other international standards can be achieved and maintained in a smooth, precise way. Besides the setting of up to 3 welding parameters (type of material, with, thickness), the machine's computers allows for both a manual and a fully automatic cycle. The end of cycle is marked by the end at the cooling time. The machine will then automatically release the pressing bar's hooks. This unique feature allows the immediate lateral removal of the welded piece from the machine. Certainly a major advantage when fabricating pipe and tanks from sheets. Only top quality parts are used on these machines, from the mechanical movements to the hydraulic system, from each piece of hardware to the computer software. Particular care was taken during the design and manufacturing of the heating mirror due to the fact that the same mirror is used to weld from 5mm to 50mm for PP. Temperature uniformity along its surface and flexibility being of paramount importance. In conclusion, we felt that the most outstanding feature of all is that this machine represents the outcome of extensive "hands on" research most of which were conducted by and with end users.

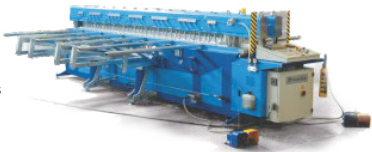
PLEASE CONTACT YOUR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARES  
♦ STOCK ITEM

# TECNODUE SHEET WELDING MACHINES

TE WELDING

**SL 4000**

New manually and / or CNC controlled sheet butt welding machines for PE, PP, and PVC & PVDF materials. Our experience gathered over a period of several years has lead to this economic line of sheet welding machines that in spite of the price allow perfect welding according to "DVS" and other international standards. The only ones with hydraulic functions controlling the closing of the pressing bar and the machine opening and closing. The machines can manually release pressing bar's hooks. Certainly a major advantage when fabricating pipe or tanks from sheets. Particular care was taken during the design and manufacturing of the heating mirror. Temperature uniformity along its surface and flexibility being of paramount importance together with the pneumatic cylinder system to speed up the change over time. In conclusion, we felt that most outstanding feature of all is that this machine represents the best compromise between price and quality.



**SL4000 CNC**

CNC controlled sheet butt welding machine for PE, PP, PVC, PVDF as well as other thermoplastic materials. Our experience gathered over a period of several years in the manufacturing of pipe and fitting fusion equipment, combined with the continuous exchange of information with our customers, has lead to this state-of-the-art sheet welding machine. The only one of its kind featuring fully hydraulic functions. Unlike compressed air controlled equipment this hydraulic unit allows for a more progressive welding pressure curve as well as the fine tuning. Therefore, the welding values specified by "DVS" and other international standards can be achieved and maintained in a smooth, precise way. Besides the setting of up to 3 welding parameters (type of material, with, thickness), the machine's computer allows for both a manual and a fully automatic cycle. The end of cycle is marked by the end at the cooling time. The machine will then automatically release the pressing bar's hooks. This unique feature allows the immediate lateral removal of the welded piece from the machine. Certainly a major advantage when fabricating pipe and tanks from sheets. Only top quality parts are used on these machines, from the mechanical movements to the hydraulic system, from each piece of hardware to the computer software. Particular care was taken during the design and manufacturing of the heating mirror due to the fact that the same mirror is used to weld from 5mm to 50mm for PP. Temperature uniformity along its surface and flexibility being of paramount importance. In conclusion, we felt that the most outstanding feature of all is that this machine represents the outcome of extensive "hands on" research most of which were conducted by and with end users.

The **SL/PLUS** models have been designed to allow a single operator to carry out all the operations by themselves . Nevertheless, while producing a pipe out of a sheet, the sheet rotation and fixing into machine pressing bars and difficult operations. In this view the rotating device has been designed in order to facilitate such operations by means of using a hydraulic calibre and a steel cable.

MODEL	SL3000 STD/	SL3000 STD/CNC	SL4000	SL4000 STD/CNC
Max sheet width	3000mm	3000mm	4000mm	4000mm
Range of sheet thickness				
PP	3-15mm	3-30MM	3-30MM	3-30MM
PE	3-15mm	3-30MM	3-30MM	3-30MM
PVC	3-10MM	3-10MM	3-10MM	3-10MM
Voltage	400v 50Hz	400v 50Hz	400v 50Hz	400v 50Hz
Heating Mirror	2.7Kw	3Kw	3Kw	3Kw
Power	2.7Kw	3Kw	3Kw	3Kw
Motors Power	1.4Kw	1.8Kw	1.4Kw	1.84Kw
Overall Dimensions	4.3x0.8x1.1	3.8x0.8x1.1	5.5x0.8x1.1	5.1x0.8x1.1
Weight	1750KG	1800KG	2300KG	2300KG

PLEASE CONTACT YOUR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARES

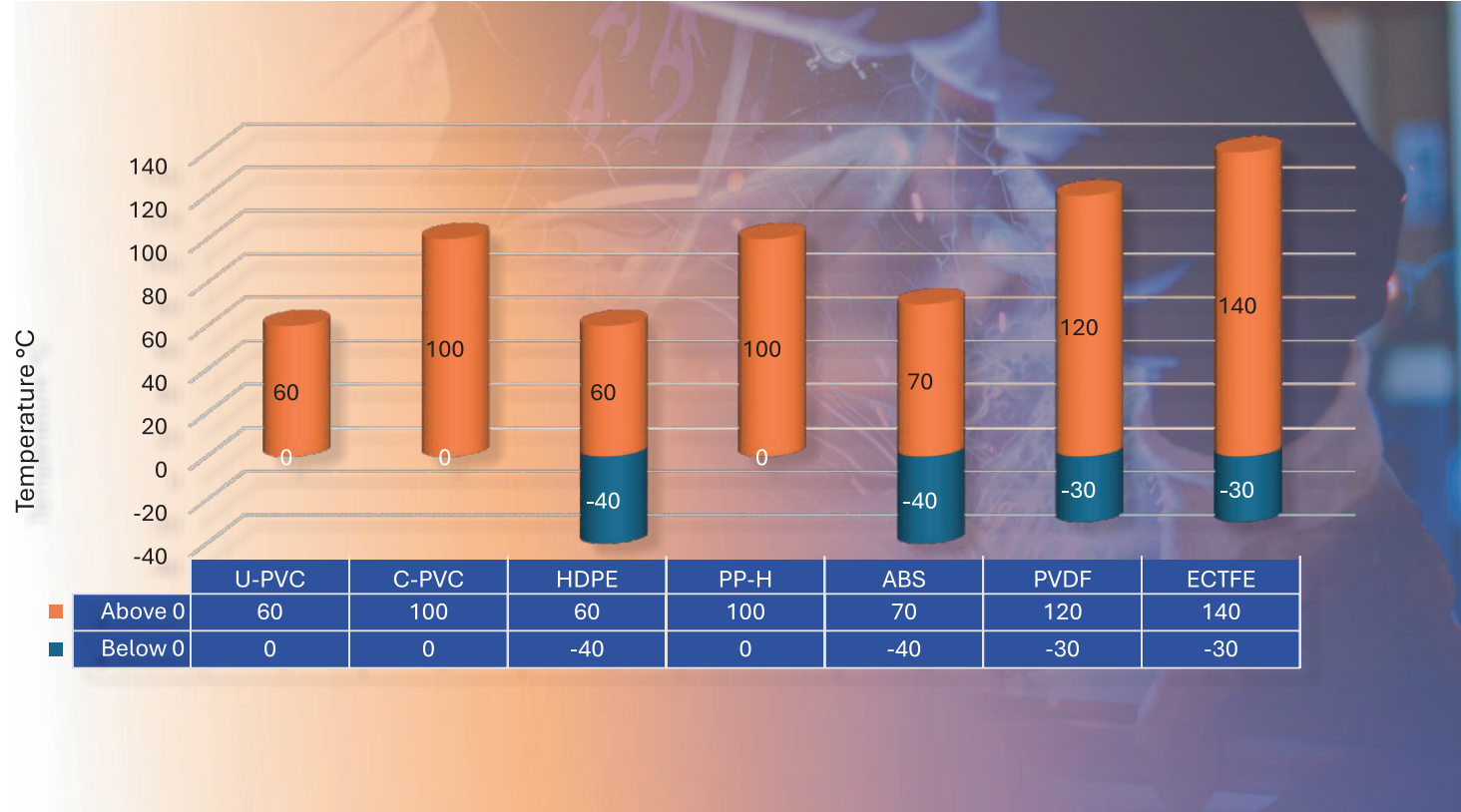
\* NON STOCK ITEM BUT AVAILABLE ON REQUEST

## NOTES



# WORKING TEMPERATURE RANGE

Thermoplastics Working Temperature Range



N.B. Working Temperature range based on water and non-hazardous fluids



Scan QR Code to  
ALIAxis Chemical  
Compatibility Guide

## GENERAL TERMS AND CONDITIONS OF A SALE

### 1. DEFINITION

- 1.1 The Company means "Astore Keymak a Div. of Hudaco Trading (Pty) Ltd" with registration number 1984/005432/07.
- 1.2 "Contract" means any contract or agreement arising from the acceptance of any offer whether that contract arises from;
- 1.2.1 an offer made by the Company and accepted by the Purchaser.
- 1.2.2 an offer made by the Purchaser and accepted by the Company.
- 1.2.3 "Products" means the subject matter of the Contract.
- 1.2.4 "Purchaser" means the party who has placed an order with the Company or any person with whom the Company contracts as a result of any offer to purchase Product from the Company, and includes the Purchaser's representative, successors and permitted assignees.
- 1.2.5 "Data" means the information given to the Company by the Purchaser, Information obtained from credit records or research conducted by the Company.

### 2. GENERAL

- 2.1 These terms and conditions shall apply to any Contract in terms of which the Company agrees to sell any Products, irrespective of the circumstances under which the Contract arose and excluding of any terms and conditions which the Purchaser may seek to make applicable, and no alternation or variation of these terms and conditions shall be of any force or effect unless and until recorded in writing and signed by the Company and the Purchaser.
- 2.2 The acceptance of all orders are subject to availability of Products.
- 2.3 The credit limit granted by the Company to the Applicant shall always be and remain within the sole and absolute discretion of the Company. The Company shall furthermore be entitled to, at any time and within its sole and absolute discretion, increase the Applicant's credit limit by twenty percent (20%).

### 3. ACCEPTANCE OF CONTRACT

- A contract shall come into existence when the Company accepts any order of Products placed by the Purchaser or when a Purchaser accepts any offer to sell Products made by conveying such acceptance.

### 4. PRICE VARIATION, PURCHASE PRICE, PAYMENT AND DISCOUNTS

- 4.1 Unless otherwise stated in writing, prices charged and discounts allowed will be those ruling at the time of dispatch of the goods. The SELLER reserves the right at any time to raise the price quoted without notice in the event of any alteration taking place between the dates of quotation and the date of delivery of goods in respect of cost of material, labour, energy, carriage, currency exchange, parties, customs duty or any having borne on the price.
- 4.2 All prices are strictly nett and not subject to any discounts unless otherwise agreed to in writing by the Company.
- 4.3 The purchase price does not include Value Added Tax which shall be paid by the Purchaser in addition to the purchase price.
- 4.4 The purchase price does not include the cost of delivery of the Products to the Purchaser, which shall be for the Purchaser's account, unless otherwise agreed to in writing between the parties.
- 4.5 Unless otherwise agreed to in writing by the Company, the purchase price of the Products shall be paid in full according to the agreed payment terms granted by the Company.
- 4.6 Should the Purchaser fail to make payment that is due and owing within the agreed payment terms then all amounts outstanding by the Purchaser to the Company from whatsoever cause, whether or not the date of payments has arrived, will immediately become due and payable by the Purchaser to the Company.
- 4.7 Unless otherwise agreed to in writing by the Company the Purchaser shall not be entitled to set off against any monies due to the company under the Contract any sums claimed by or due to the Purchaser from the Company under the Contractor or any other Contract between the Company and the Purchaser.
- 4.8 Permitted Discount approved by the company will be forfeited if payment in full is not made on the due date.
- 4.9 In the event of a delay in the total or partial payment by the customer, the full outstanding amount shall accrue, as from the payment due date, late-payment interest consisting of the prime interest rate increased by 2 percentage points (2%), on a cumulative basis.
- 5. QUOTATIONS**
- Quotations submitted by the Supplier to the Purchaser upon request by the Purchaser will not constitute acceptance of any offer to bring into existence a contract unless otherwise expressly provided in such quotation and will remain valid for a period of 30 (thirty) days only from the date of such submission to the Purchaser unless otherwise stated in writing.

### 1. RETENTION OF OWNERSHIP

- 6.1 Ownership of the Products sold in terms of the Contract shall remain with the Company and shall not pass to the Purchaser until the price is paid in full. Until such payments has been made the Products shall not in any way be hypothecated or pledged. Where the products are stored at leased premises the Purchaser hereby undertakes to promptly inform the lessor that the Company has retained the right of ownership over all Products that are the subject matter of this Contract. Furthermore, the Purchaser shall, on request, provide the Company with full information of its landlord including all contact details.

- 6.2 Nothing in these conditions shall transfer any right upon the Purchaser to return the products or to refuse delivery, or delay payment therefore. The remedies conferred to the Company are in addition to and shall not in any way restrict or prejudice any right and remedies of the Company under the Contract.

### 2. DELIVERY

- 7.1 Delivery to the Purchaser shall be from the Company's premises unless otherwise agreed to in writing.
- 7.2 When the Purchaser collects goods from the Company's premises using its own or its agent's transport, then such collection shall be entirely at the Purchaser's risk and the Purchaser shall be liable for all damages of whatsoever nature caused as a result of or during such collection. The Purchaser shall be liable for loading the Product onto its transport provided that the Company may, if so, requested assist the Purchaser with such loading but only at the sole risk of the Purchaser.
- 7.3 In the Event that the Company agrees to effect delivery by its own vehicles to the Purchaser at its place of business, then offloading shall be affected by the Purchaser's own employees at the sole risk of the Purchaser, who shall be responsible for all damages of whatever nature caused by or as a result of such offloading. The Company's employees may, if so requested assistance with such offloading but only at the sole risk of the Purchaser.
- 7.4 While the Company will use its best endeavours to comply with any delivery date, it will not be responsible for any loss or damage whatsoever caused by late delivery.
- 7.5 If the company effects delivery in instalments or late delivery, it will not entitle the Purchaser to reject any other instalment of delivery under the same Contract, nor shall payment terms be affected.
- 7.6 If the Purchaser fails to take delivery at the time required by the Contract, the Company shall be entitled without prejudice to any other rights it may have, to cancel the Contract and to resell the Products or to invoice the full outstanding amount for the Product in which event payment in full shall be come due in accordance with the provision of clause 4. In this case the Company shall be entitled to charge the Purchaser for the handling and storage of the Products from the date of invoice to the date of eventual delivery.

### 3. RISK

- The risk in the Products to be sold by the Company to the Purchaser will pass to the purchaser when the Products are delivered to the Purchaser or received by the Purchaser.

### 4. LIMITATION OF LIABILITY AND RETURNS

- 9.1 The Company must be notified in writing of short deliveries or any damages to or loss of Products (whether wholly or in part) within 48 hours of receipt by the Purchaser. Failing such written notice, goods will be deemed delivered complete and Purchaser will be deemed to have accepted them in performance of the Contract.
- 9.2 Where it is established to the satisfaction of the Company that the Products delivered by the Company may contain at the time of receipt by the Purchaser have some defect in quality and it is agreed to in writing by the Company (not being a defect caused by or neglect of the Purchaser or third party) and within 14 days of delivery to the Purchaser, the Products are either:
- Returned to the Company at the Purchaser's expense or;
  - The Company will at its own cost repair or replace them (the choice being the Company's option)
- 9.3 The company will take all reasonable care to ensure that the goods sold are of good quality and workmanship, but the Company does not guarantee the suitability of such goods for any particular purpose and the Purchaser must satisfy him/herself as to the suitability of the goods for the purpose of which the Purchaser requires them.
- 9.4 Same as aforesaid the Company will not be liable to the Purchaser for any loss or damage whatsoever, nor shall the Company be liable in any way for loss of profits or consequential damages suffered as a result of defect in quality or defective installation or the fact that the Products are not fit for a particular purpose and without prejudice to the generality of the foregoing any implied term, condition or warranty statutory or otherwise as the quality of the Products sold or their fitness

for any particular purpose or to their correspondence with any description or samples are hereby excluded.

9.5 No warranty nor representation given by or on behalf of the Company, including but without prejudice to the generality of the foregoing and advice as to the installation, quantities, use or performance of Products supplied by the Company, shall be binding upon the Company unless specifically stated in writing by the Company to be incorporated in the Contract.

9.6 A 15% handling fee will apply to all goods that are authorised to be returned for credit.

#### 10. CONSEQUENTIAL LOSS

Without prejudice to the generality of the foregoing provisions the Company shall not in any event be liable to the Purchaser for any indirect or consequential loss, damage or expense.

#### 11. INSOLVENCY/LIQUIDATION, BUSINESS RESCUE AND BREACH OF CONTRACT.

11.1 The Company shall have the option (without prejudice to any of its other rights against the Purchaser) by notice in writing to the Purchaser to rescind the Contract or to suspend delivery in the following events:

- (a) Should any sum owing by the Purchaser to the Company be overdue.
- (b) Should the Purchaser be in breach of any term of the contract with the Company.
- (c) Should the Purchaser enter into any composition or arrangement with or to the benefit of its creditors or commit any act of Insolvency or be placed under Business Rescue or should it go into liquidation either voluntary or compulsory under Judicial Management or have a receiver appointed over all or any part of its assets, or if any order is made against the Purchaser for the preservation, safeguarding or regulating the use of the Purchaser's property or assets.

#### 12. INTELLECTUAL PROPERTY RIGHTS

12.1 The Company is the proprietor of trademark and trade names, copyright or other intellectual property rights relating to the Products and the Company reserves all such rights to itself and no authorization or licence is granted to the Purchaser by the Company otherwise than for the purpose provided.

12.2 The Purchaser hereby indemnifies the Company at all times and hold it harmless against ALL damages, demands, penalties, cost, claims, expenses and any other liabilities that may arise from any infringement of copyright, which result from compliance with and/or execution of the Purchaser's instruction, whether express or implied.

#### 13. FORCE MAJEURE

The Company in its sole discretion shall have the right to postpone or suspend delivery of all or part of the Product to the extent and for as long as such delay is caused by or attributable to, circumstances beyond the reasonable control of the Company. The Company shall further have the right to, if any or the aforesaid circumstances persist to 90 days or longer to forthwith cancel the Contract of sale by written notice to the Purchaser in respect of those Products not delivered at the time of cancellation. The Company shall not be liable to the Purchaser for damages as a result of such postponement, suspension or cancelling, but the Purchaser shall remain liable for the price of all Products delivered in terms of the contract of sale.

#### 14. NOTICE

14.1 Any written notice in respect of the Contract, shall be delivered by prepaid registered post, hand delivered or by electronic mail.

14.2 All correspondence by electronic mail shall call for written confirmation of receipt.

#### 15. WHOLE AGREEMENT

15.1 This Contract constitutes the whole of the agreement between the parties hereto relating to subject matter hereof and save as otherwise provided herein no amendments, alteration or consensual cancellation shall have force or effect unless reduced to in writing and signed by the parties hereto or their duly authorised representative.

15.2 The parties agree that no other terms or conditions whether verbal or written and whether express or implied will apply hereto.

#### 16. WAIVER

No waiver of any of the terms and conditions of this Contract shall be binding or effectual for any purpose unless expressed in writing and signed by the parties hereto given the same and any such waiver shall be effective only in the specific instance and for the purpose given. No failure or delay on the part of either party hereto in exercising any right, power or privilege hereunder shall serve as a waiver thereof, nor shall any single or partial exercise of any right, power or privilege preclude any other further exercise thereof nor the exercise of any other right power or privilege.

#### 17. ASSIGNMENT

17.1 The Company may at any time, without the Purchasers' consent, cede, assign or transfer and make, overall rights, title and interest in and arising out of any sale of Products at any time.

17.2 The Purchaser shall not be entitled to cede or assign any of its rights or obligations in terms of the Contract of sale without prior written consent of the Company.

#### 18. JURISDICTION COST

18.1 In terms of section 45 of the Magistrate Court Act 23 of 1944 the Purchaser hereby consents to the jurisdiction of the Magistrates Court having jurisdiction in terms of Section 28 & 29 of the said Act in respect of any action to be instituted against the Purchaser by the Company in terms of the Contract. It shall nevertheless be entirely within the discretion of the Company whether to proceed against the Purchaser in such Magistrates court or any other court having jurisdiction.

18.2 The Company shall be entitled to recover all charges of whatsoever nature which may be incurred by the company in enforcing any of the provisions of the Contract including, but without limitation, by the virtue of the forgoing, all legal costs including costs such as between attorney and client collection, commission and tracing agent fees.

#### 19. SEVERABILITY OF CLAUSES

Each clause of this agreement is severable the one from the other and if any clause is found to be defective or unenforceable for any reason by any competent court, remaining clause shall be of full force and effect and shall continue to be in full force and effect.

#### 20. DATA PROTECTION

20.1 In compliance with personal data protection legislation, the customer is informed that the personal data (the "Data") that has been provided to the Company and such data as may be obtained in the future has been and will be included on filing systems controlled by the Company in compliance with the POPI Act.

20.2 The purpose of processing the data shall be for the Company to deliver the product or provide the service and for the maintenance, management and control of the professional relationship entered into under the Agreement.

## OUR KEY SUPPLIERS





“Driven by quality; Delivered by experience!”





## NOTES