

ENGINEERING HVAC PROCESS PIPELINE VALVES

Supplying valves and ancillary products to the Irish engineering industry since 1975.

1

DAILY DELIVERIES TO DUBLIN AREA



SECTION INDEX



Section	Contents	Pages
1	Brass Ball Valves Threaded, Compression, 3-way, Gas, WRAS, Lockable	4 - 8
2	Process Ball Valves CS, SS, CI, DI, Threaded, Flanged, Wafer, Weld	9 - 14
3	Butterfly Valves Uniwat, Valsar, InterApp, Wras, Wafer, Lugged, Flanged	15 - 18
4	Gate & Globe Valves Brass, Bronze, SS, CS, CI, Threaded, Flanged	19 - 23
5	Check/Non Return Valves Swing, Spring, Ball, Single, Double, Wafer, WRAS	24 - 28
6	Strainers Brass, CS, SS, CI, WRAS, Threaded, Flanged, Compression	29 - 31
7	Cimberio Commissioning Valves Automatic, Static, PICV, DPCV, Monolink Units	32 - 34
8	Pressure Reducing & Overflow Valves Brass, Threaded, Union, Flanged, WRAS, High Temp	35 - 36
9	VYC Safety Valves Brass, Iron, CS, SS, Steam, Water, Air, Threaded, Flanged	37 - 40
10	Goetze Safety Valves Gunmetal, St. Steel, Hygenic, Atmospheric, WRAS	41
11	CSA Automatic Control Valves Reducing, Sustaining, Relief, Altitude, Level Control	42
12	CSA Air Valves Water, Sewage, Cast Iron, Stainless Steel, GRPP	43 - 44
13	Thermostatic Mixing Valves WRAS, TMV2, TMV3, Albion, Reliance, Altecnic	45
14	Float Valves Cast Iron, Stainless Steel, Brass, Equilibrium, WRAS	46
15	Foot Valves Threaded, Flanged, Brass, Carbon Steel, Stainless Steel	47
16	Needle Valves Brass, Carbon & Stainless Steel, High Pressure, Steam	48
17	Diaphragm Valves Threaded, Flanged, Weir, ST, Lined, ABS, PVC	49
18	Solenoid Valves Brass, SS, WRAS, Direct, Servo, Steam, Water, Oil	50 - 51



Section	Contents	Pages
19	Actuators Pneumatic, Electric, Modulating, Battery Back Up	52 - 59
20	Far & Albion Motorised Valves 2-Way, 3-Way, Mixing, Diverting, Modulating, Rotary Shoe	60 - 61
21	Hora Control Valves Threaded, Flanged, CI, CS, SS, Modulating	62
22	Zubi Knife Gate Valves Uni, Bi, Lugged, Pneumatic, ISO for Electric, Hydraulic	63 - 64
23	B-Meters Water, Heat, Energy, Electromagnetic, Smart Meters	65 - 68
24	Gas Products Solenoids, Filters, Meters, Governors, Detection	69 - 72
25	Rubber Bellows/Expansion Joints Rubber, Metallic, Copper, Tied, WRAS, Anchors, Guides	73- 75
26	Pressure & Temperature Gauges Glycerine, Dry, Capsule, Vacuum, Compound, Calibrated, Steam	76 - 79
27	Air & Dirt Separators Air, Dirt, Combined, Magnetic, Hydraulic	80 - 81
28	Automatic air Vents Brass, St Steel, GRPP, CI, High Temp	82
29	Reflex Expansion Vessels Hot Water, Cold Water, Potable, Flow Through	83
30	Reliance Products Tenant valve, Safety, TBV, Penny, RPZ, PRV	84
31	Hoses Hot & Cold Water, WRAS, GAS, Oil, Bespoke	85
32	VYC Steam Traps Float, Thermodymamic, Thermostatic, Bimetallic	86 - 87
33	Sight Glasses Threaded, Flanged, Brass, CI, CS, SS, Rotors	88 - 89
34	Miscellaneous & Accessories Dosing Pots, Oil Filters, Oil Meters, Water Hammer Arrestors, P/T Relief, Anti Vacuum, Steam Separator, Backflow Preventors, Test Points, Drain Cocks, Thermal Balancing, Flanges, Gaskets, Fasteners	90 - 94
35	ABS Valves, Pipes, Fittings, PVC Valves	95 - 97



no minimum order sizes or values

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PRICES	: As ruling at date of despatch and subject to change without notice and all prices subject to VAT
ORDER SIZE	: No minimum order value
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E & OE	

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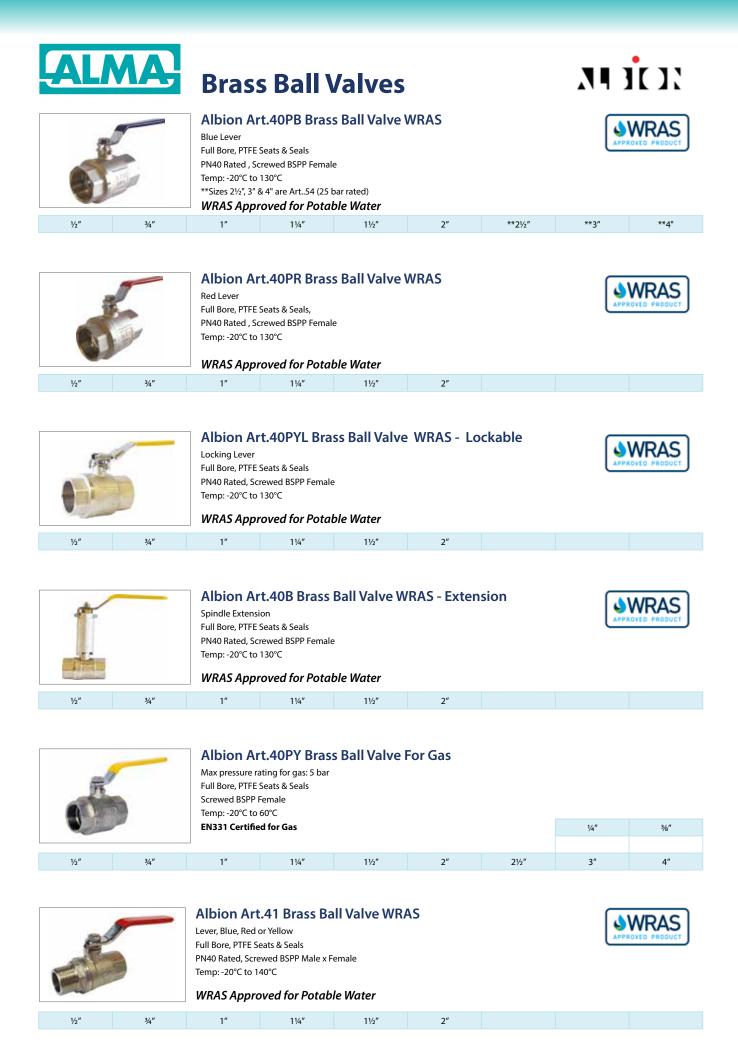
UNIT 13 VILLAGE MILL ENTERPRISE PARK RATHNEW, CO. WICKLOW, A67HX57 info@alma-valves.ie www.alma-valves.ie Tel: 0404 64353

CREDIT CARDS ACCEPTED





v



N4 (Bras	s Ball \	Valves				
		APPROVED PRODUCT						
		Metric Cop	per					
15mm	22mm	28mm	35mm	42mm	54mm			
0		Full Bore, PTFE PN16 Rated, Te Compression E Lever Operated	emp: 85°C Ends for Irish Coppe d Red or Blue Levers	r			APPROVED PRODUCT	
1/2″	3/4″	1″			Non WRAS	11⁄4"	11/2" 2"	
			APPROVED PRODUCT					
1⁄4"	3⁄8″	1⁄2″	3/4″	1″	1¼"	1½"	2"	
	Albion Art.59 DZR Brass Ball Valve Full Bore, PTFE Seats & Seals PN40 Rated Temp: -20C to 130C Metric Compression Ends							
15mm	22mm	28mm	35mm	42mm	54mm			
	6	Full Bore, PTFE ¼" to 1" 40 ba Temp: -20°C to	rt 160 Brass Seats & Seals r, 1¼" 32 bar, 1½" to 120°C, Screwed BS Mount for Actu	o 2½" 30 bar, 3" 25 P Female	-		APPROVED PRODUCT	
3/8″	1/2″	3⁄4″	1″	1¼″	11/2″	2″	21/2" 3"	



Far Temperature Gauge Holder Ball Valves



Misc Ball Valves



SWRA



Albion Art.18 Compression Isolation Valve

Full Bore, NBR O-Rings 10 bar Rated, Temp: -20°C to 110°C Compression Ends for Metric Copper

Metric Copper

15mm

22mm

Reliance BVAL Brass Ball Valve



22mm

15mm

Full Bore PTFE Seats 10 bar Rated, Temp: Max 85°C Compression Ends for Metric Copper Available with and without nickel plating



1/2″	3/4″

GE 3272E Brass 3-Way Ball Valve-L-Port

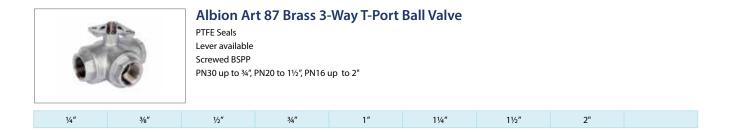


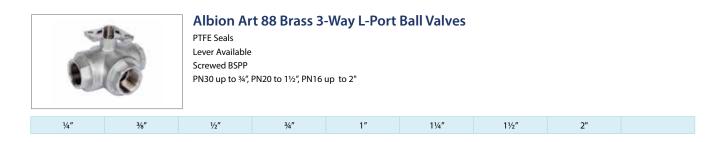
1″

GE 3282E Brass 3-Way Ball Valve - T - Port Full Bore, PTFE Seats & Seals PN25 Rated, Temp Range: -10°C to 90°C

Screwed BSP Female Lever Operated

1/2″	3⁄4″	1″			





GEN be water, be G		Bras	s Ball V	Valves				MA,	
R		Full Bore, PTFE Temp: -20°C to PN25 Rated					APP	WRAS ROVED PRODUCT	
V J LOV								3⁄8″	
]							
1/2″	3⁄4″	1″	1¼″	1½″	2″	21⁄2″	3″	4″	

		Full Bore, PTFE PN25 Rated, Te Screwed BSP Fe	Brass Ball Val Seats & Seals mp Range: -20°C to 9 emale, Lever Operate et, one open/ one w	90°C ed		
1⁄2″	3⁄4″	1″				





A REAL PROPERTY AND ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS

GE 3034 Brass Ball Valve Male x Female

Full Bore, PTFE Seats & Seals PN25 Rated, Temp Range: -20°C to 90°C Screwed BSP Male x Female Lever Operated

Male x Female Threads

		1⁄4″	3/8″	1⁄2"	3/4″	1"	1¼″	1½″	2″	
--	--	------	------	------	------	----	-----	-----	----	--

GE 3035 Brass Ball Valves (3037 Red Handle)

Full Bore, PTFE Seats & Seals PN25 Rated, Temp Range: -20°C to 90°C Screwed BSP Female Aluminium Butterfly Handle

1//" 3/"" 1/" 3/" 1"	
74 78 72 74 I	





Brass Ball Valves

GENEBRE be water, be Genebre



GE 3044 Boiler Discharge Ball Valve

Full Bore PTFE Seats PN25 Rated, Temp Range: -20°C to 90°C Male BSP x Hose Connection with safety cap

½" X 15mm



GE 3046 Brass Ball Valve

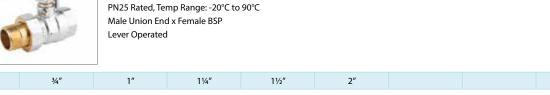
Full Bore, PTFE Seats & Seals PN25 Rated, Temp Range: -20°C to 90°C Male Union End x Female BSP Lever Operated

1/2″	3/4″	1″	1¼″			



GE 3048 Brass Ball Valve

Full Bore, PTFE Seats & Seals

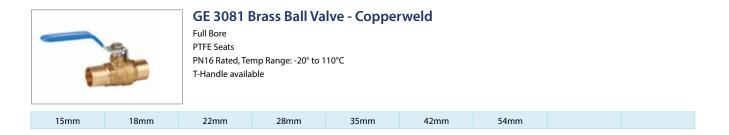




Effebi Hipress Brass Ball Valve

Reduced Bore, High Resistance Virgin PTFE PN210 Rated, Temp Range: -10°C to 80°C Anti Blow Out Stem Screwed BSP, T Handle

3⁄8″	1/2	3⁄4″	1″			









-	-	A351 CF8M Stair PTFE +15% GF So PN63 Rated, Tem				3SPP				
		Available with N						1⁄4″		
3⁄8″	1/2″	3/4″	³ /4" 1" 1 ¹ /4" 1 ¹ /2" 2" 2 ¹ /2" 3"							

A.		A351 CF8M Sta PTFE +15% GF	inless Steel Body, A Seats & Seals mp: -25°C to 180°C	ISI 316SS Ball, Full E	s - Screwed Bore	BSPP				
		Available with	NPT threads				1/4″	3⁄8″		
1⁄2″	3⁄4″	1″	11⁄4″	11⁄2″	2″	21⁄2″	3″	4″		

A REAL		A351 CF8M Sta PTFE +15% GF	inless Steel Body, A Seats & Seals mp: -25°C to 180°C	ISI 316SS Ball, Full E	s - Butt Weld	b		
							1⁄4″	3/8″
Tage .								
1/2″	3⁄4″	1″	1¼″	1½″	2″	21/2″	3″	4″

Ä		A351 CF8M Sta PTFE +15% GF	inless Steel Body, A Seats & Seals mp: -25°C to 180°C	ce Ball Valve NSI 316SS Ball, Full E		eld				
							1⁄4″	3⁄8″		
1⁄2″	3⁄4″	1″	1" 1½" 1½" 2" 2½" 3" 4							





9







GE 2040 316SS 3 Way L-Port Ball Valves

A351 CF8M SS Body & 316 Ball, ISO 5211 with Locking System PTFE +15% GF Seats & Seals Reduced Bore, L-Port PN63 Rated, Temp: -25°C to 180°C Available with NPT Threads

,"	3/8″	1⁄2″	3/4″	1″	11⁄4″	11⁄2″	2″	21⁄2″

GE 2041 316SS 3 Way T-Port Ball Valves

A351 CF8M SS Body & 316 Ball, ISO 5211 with Locking System PTFE +15% GF Seats & Seals Reduced Bore, T-Port PN63 Rated, Temp: -25°C to 180°C Available with NPT Threads

1⁄4″	3/8″	1/2″	3/4″	1″	11⁄4″	1½″	2″	21⁄2″



GE 2528 Stainless Steel Ball Valves PN16

A351 CF8M Stainless Steel Body PTFE +15% GF Seats & Seals Flanged PN16, Temp: -30°C to 180°C ISO 5211 with Locking System

1 -11					15mm	20mm	25mm
32mm 40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

GE 2528A Stainless Steel Ball Valves - ANSI 150 A351 CF8M Stainless Steel Body PTFE +15% GF Seats & Seals Flanged ANSI 150, Temp: -30°C to 180°C ISO 5211 with Locking System 1/2" 3⁄4" 1" 5" 8" 11⁄4" 11⁄2" 2" 3" 4" 6" 21/2"



0	316 Stair PTFE +1 16 bar R	18 316SS Wate nless Steel Body & Ball 5% GF Seats, Full Bore ated, Temp: -20°C to 180° PN16, Direct Mount ISO ! 2 Lever	c	l Valve			
15mm 20	mm 25mm	n 32mm	40mm	50mm	65mm	80mm	100mm





 GE 2007 Carbon Steel High Pressure Ball Valve

 A105 Carbon Steel Body

 AISI 304SS Ball & Stem, Full Bore

 PEEK Seats & Seals

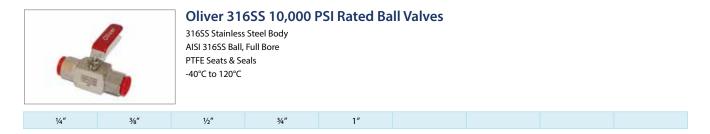
 PN255 Rated, Temp: -30°C to 250°C

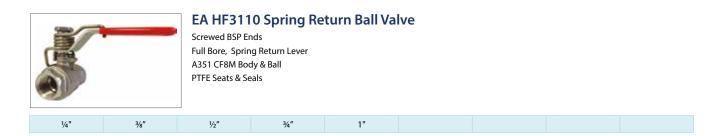
 Available with NPT Threads

















GE 2015 316SS 2-Piece Ball Valve - ISO Top

A351 CF8M Stainless Steel Body, AISI 316SS Ball, Full Bore PTFE +15% GF Seats, Locking System PN63 Rated, Temp: -25°C to 180°C Sizes ¼" to 2" Available with NPT Threads

1/4″ ³ /8″	1⁄2"	3⁄4″	1"	1¼″	11⁄2″	2″	
-----------------------	------	------	----	-----	-------	----	--

GE2933 St Steel Hygenic Ball Valve - Clamp Ends



316 Stainless Steel Body Construction **Clamp End Connections** Cavity Filled PTFE Seats 25 bar pressure rated Temp rating -25°C to +180°C

1⁄2"	3⁄4″	1"	1¼″	11⁄2″	2″	2 1⁄2"	3"	



GE 2013 316SS 2-Piece Ball Valve MxF BSP

A351 CF8M Stainless Steel Body, T-Handle AISI 316SS Ball, Full Bore PTFE +15% GF Seats & Seals PN63 Rated, Temp: -25°C to 180°C

1⁄4″	3/8″	1/2"	3/4″	1"		



GE2016 316SS Ball Valve - BSP x Camlock

A351 CF8M SS Body & 316 Ball, ISO 5211 with Locking System PTFE +15% GF Seats & Seals PN63 Rated, Temp: -25°C to 180°C Full Bore

1⁄2"	3⁄4″	1"	11⁄4″	11⁄2″	2″	2 1⁄2"	3"	
------	------	----	-------	-------	----	--------	----	--



GE2048 316SS Union Ball Valve - BSP

A351 CF8M Stainless Steel Body, AISI 316SS Ball, Full Bore PTFE +15% GF Seats & Seals PN63 Rated, Temp: -25°C to 180°C ISO 5211 with Locking System





www.genebre.com



Walpres Cast & St. Steel Ball Valves



Valpres 710063 3 Piece Ball Valve - For Steam ASTM WCB Carbon Steel Body, SS Ball & Stem Full Bore, Screwed BSP Female PTFE +25% Carbographite Seats & Seals From -20°C to 198°C								
dimental second	From -20°C to 198°C Available in butt weld & socket weld						1⁄4″	3/8″
1/2″	3/4″	1″	11⁄4″	11⁄2″	2″	21⁄2″	3″	4″

		Valpres 7	10060 3 Pie	ce Ball Valve	For Steam			
CF8M 316 Stainless Steel								
	Full Bore, Screwed BSP Female							
	PTFE +25% Carbographite Seats & Seals							
and the second s		From -20°C to 1	98°C					
4. mil		Austable	. h	a alva to used al			1⁄4″	3/8″
		Available II	n butt weld & s	οςκει weld				
1/2″	3⁄4″	1″	1¼″	11⁄2″	2″	21/2″	3″	4″

Valpres 760020 Carbon Steel Ball Valve For Steam A216-WCB CS Body, 316SS Ball, Carbographite Seats Full Bore, Temp. From -20°C to 180°C Flanged PN40 up to 50mm, PN16 above Available for ANSI 150 Flanging								
A R R	Anti-static & Firesafe					15mm	20mm	25mm
			armesure					
32mm	40mm	50mm	50mm 65mm 80mm 100mm 125mm 150mm 200m					200mm

-		Valpres 760011 Stainless Steel Ball Valve for Steam 316SS Body, 316SS Ball, Carbographite Seats Full Bore, Temp. From -20°C to 180°C Flanged PN40 up to 50mm, PN16 above Available for ANSI 150 Flanging						
						15mm	20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm



â		A351 CF8M Bo Full Bore, Temp Flanged PN16	21000 Stain dy, 316SS Ball, PTFE b. From -20°C to 160 N40/PN63/ANSI 150	Seats ℃	afer Ball Val	ve		
		Special Executi	ons available			15mm	20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm





Ň	
32mm	40mm

Valpres 68 Series Split Body Ball Valve

LF2, 316, F55, LCC, WCB, Supler Duplex Constructions
PTFE, GF PTFE, Metal Core, TFM, PEEK, Carbographite Seats
PN16, PN40, ANSI 150, ANSI 300
Firesafe EN ISO, API 607, SIL 3
For PN16 or ANSI 150 Flangng

65mm

50mm

	15mm	20mm	25mm
100mm	125mm	150mm	200mm

Valpres 76 Series Split Body Ball Valves Stainless Steel, Carbon Steel Construction PTFE, GF PTFE, Metal Core or Carbographite Seats PN6, PN16, PN40 PN63, ANSI 150, 300, 600 V-Ball Options available								
Jacketed						15mm	20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

80mm



Valpres 77 Series Wafer L-Port Ball Valve

316 Stainless Steel Body & Ball, PTFE Seats Reduced Port Temp: -20°C to 160°C Flanged PN16

15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm



Tuning 0944 Carbon Steel Ball Valve

A216 WCB Body, CF8M Ball, RTFE Seats Full Bore, Anti Blowout Stem, Antistatic Devices Firesafe API607, ISO Pad, Locking Device Temp:-29°C to 200°C Available BSP/Butt Weld/Socket Weld/NPT

1/1	2/11		2/1		a 1 / 11	41/1	0.1	
1/4	3/8"	1/2"	-9/4"	1"	1 1/4 "	1 1/2"	2"	







Uniwat[®] Uniwat Butterfly Valves



Ĩ		Ductile Iron Ep EPDM Seat, Oth Lever Operated	oxy Coated Body, N ner disc & liner mate	Vafer Butter lickel Plated Ductile erials on request mended for DN300				
25mm 32mm								40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

Uniwat VF701RGGE Wafer Butterfly Valve Ductile Iron Epoxy Coated Body, Nickel Plated Ductile Iron Disc EPDM Seat, Other disc & liner materials on request Gearbox Operated For PN10/16/ANSI 150 Flanging								
			5.5	50mm	65mm	80mm	100mm	125mm
150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm

1		Ductile Iron Ep EPDM Seat, Oth Lever Operated	F701PGIEW oxy Coated Body, A ner disc & liner mate I, * Lever not recom NSI 150 Flanging	ISI 316SS Disc erials on request	-			PRODUCT
						25mm	32mm	40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

1	Ø	Ductile Iron Ep EPDM Seat, Oth Gearbox Opera	ANSI 150 Flanging					PRODUCT
				50mm	65mm	80mm	100mm	125mm
150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm

1	5	Ductile Iron Ep PTFE Seat Lever Operated	•	16SS Disc	ly Valve			
Rated 10 bar, For PN10/16 Flanging Available up to DN600						50mm	65mm	
80mm	100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm

	Uniwat VF700PIIT Wafer Butterfly Valve								
dh.		Stainless Steel PTFE Liner	Body, 316SS Disc						
Lever Operated up to 100mm Rated 10 bar, For PN 10/16 Flanging Available up to DN600									
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	



Uniwat Butterfly Valves





Uniwat VF750PGE Fully Lugged Butterfly Valve

Cast Iron Epoxy Body, Nickel Plated Ductile Iron Disc EPDM Seat, Other disc & liner materials on request Lever Operated *Lever not recommeded for DN300

For PN16 Flanging

	For PN16 Flang	ing								
2	Dustilaluar	. Radias also a	vailable un te	1000	25mm	32mm 40mm				
	Ductile iron	i boaies aiso a	vailable up to	1000mm						
65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm			

Ductile Iron Bodies avail. up to 1000mm 50mm-65mm 80mm 100mm 125mm	Uniwat VF750RGE Fully Lugged Butterfly Valve Cast Iron Epoxy Coated Body, Nickel Plated Ductile Iron Disc EPDM Seat, Other disc & liner materials on request Gearbox Operated F or PN16 Flanging									
		1.	Dustila	. Da diaa awail			80mm	100mm	125mm	
	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	

		Cast Iron Epoxy EPDM Seat, Oth Lever Operated	Uniwat VF750PIE Fully Lugged Butterfly Valve Cast Iron Epoxy Coated Body, AISI 31655 Disc EPDM Seat, Other disc & liner materials on request Lever Operated *Lever not recommended for DN300 For PN16 Flanging					PRODUCT
	Carbon & St Steel Bodies available						32mm	40mm
50mm	65mm	80mm	100mm	200mm	250mm	300mm		

	Ø	Cast Iron Epoxy	y Coated Body, 3165 her disc & liner mate ited	SS Disc	utterfly Valv	e	APPROVED	PRODUCT
	Carbon & St Steel Bodies available				50mm-65mm	80mm	100mm	125mm
		Carbon & S	t Steel Boales					
150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm

5		Uniwat VF7UOPGIE U-Section Butterfly Valve Ductile Iron Epoxy Coated Body, 316SS Disc EPDM Seat, Other disc & liner materials on request Lever Operated up to DN250, Gear op from DN150 to DN120 Rated 16 bar, For PN16 Flanging					APPROVED	APPROVED PRODUCT	
					150mm	200mm	250mm	300mm	
		Available u	p to DN1200						
350mm	400mm	450mm	500mm	600mm	700mm	800mm	900mm	1000mm	

	Ductile Iron Ep EPDM Seat, Oth Gearbox Opera For PN16 Flang	oxy Coated Body, E ner materials on req ted		centric Butte	erfly Valve	APPROVED	PRODUCT
50mm 65m	m 80mm	100mm	125mm	150mm	200mm	250mm	300mm

Uniwa	nt Butt			MA				
ł	Uniwat VF791RGE Double Eccentric Butterfly Valve Ductile Iron Epoxy Coated Body, Ductile Iron Disc EPDM Seat, Other materials on request Gearbox Operated For PN16 Flanging						APPROVED	PRODUCT
	Const .	Available u	p to DN1200					
150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm

0	0	Wafer Pattern & Stainless Steel f EPDM Seat, Oth Lever Operated Various flanging	Fully Lugged* (Ma Body & Disc, (Cast S Ier disc & liner mate up to DN250	ux DN600) iteel available) erials on request	/afer Butterf	ly Valve	APPROVED	PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

5	Valsar VF733B Lugged Butterfly Valve for Gas									
-		Ductile Iron Rilsa	n Coated Body, Nit	rile Seats						
	316 Stainless Steel Disc									
-	Lever Operated, 10 position Notchplate, 200mm + with Gearboxes									
2	PN16 Flanging, ATEX certified EX II 2 G/D									
		Max 5 bar for gas	isolation					40mm		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm		

		Ductile Iron Ril Nickel Plated D	san Coated Body, N uctile Iron Disc I, 10 position Notch Lockable		Valve for Ga	S		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm











Valsar Butterfly Valves

High Performance - High Temperature (EFT) - CS - SS - DI - PN16 - PN40 - ANSI 150



InterApp Butterfly Valves InterApp



125mm

600mm



InterApp Desponia D1 Butterfly Valve

de	2	EPDM Seat, Suit	buctile for Body & table for PN6/10/16 l up to 200mm Gea		and above							
		Various materia	Various material options available for body, discs and seats 25-32mm 40-50mm 65mm 80mm									
100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm				

InterApp Desponia D3 Fully Lugged Butterfly Valve Rilsan Coated Ductile Iron Body & Disc Gearbox from 250mm and above EPDM Seat, Other materials on request For PN16 Flanging Lever Operated up to 200mm Also available for ANSI 150 Flanging 25-32mm 40-50mm 65mm 80mm 100mm 125mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm



InterApp Desponia D1Wafer Butterfly Valve - SS Disc

Rilsan coated Ductile Iron Body & 316SS Disc EPDM Seat, Suitable for PN6/10/16, ANSI 150

Lever Operated up to 200mm, Gearbox from 250mm and above

Various material options available for body discs and seats

25-32mm 40-50mm 65mm 80mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm

InterApp Desponia D3 Fully Lugged Butterfly Valve - SS Disc Rilsan Coated Ductile Iron Body & 316 SS Disc EPDM Seat, Other materials on request Gearbox from 250mm and above, For PN16 Flanging Lever Operated up to 200mm Also available for ANSI 150 Flanging 25-32mm 40-50mm 65mm 80mm 100mm 250mm 300mm 500mm 150mm 200mm 350mm 400mm 450mm





PTFE Lined Valves







Cimberio 70BS Brass Gate Valve Screwed Female BSP

BS 5154-B/B Type PN20 9 bar@ 180°C 20 bar @ 100°C

		_						
1/2″	3/4″	1″	11⁄4″	11⁄2″	2″	21/2″	3″	4″

		Cimberio Screwed Femal BS5154-B/B Typ 9 bar @ 180°C 20 bar@ 100°C	e BSP ve PN20	s Lockshield	Valve			
1⁄2″	3⁄4″	1″	1¼″	11⁄2″	2″	21⁄2″	3″	

	3	Albion 96 CF8M Stainless PTFE Seal Screwed BSP Fe Max pressure 10 Temp range: -2	Steel emale 6 bar	Steel Gate V	alve - Screw	ed BSP			
1⁄4"	3⁄8″	" ½" ¾" 1" 1¼" 1½" 2"							

V		A105N Body 13 Bolted Bonnet, Temp: -29°C ~ 4	% Cr. HFS (No. 8) T OS&Y 25°C 3SP, NPT and Socke		ılve - Class	800	
1/2″	3⁄4″	1″	11⁄4″	11⁄2"	2"		

A		CIM 72 Bi Flanged PN6/1 Bronze Body Max Temp 170		/alve				
							15mm	20mm
25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm



Albion Bronze, DZR Brass, WRAS Gate Valves & Lockshield Valves

	AA	Uniwat 5 Ductile Iron Bo Resiliant Seat, 5 Flanged PN16, DIN/BS5150	At/Un 04C Ductile dy & Bonnet, Hand SS Stem, EPDM Enca Max Pressure: 16 ba	Iron Gate V wheel Operated apsulated Wedge	Gate V alve - DIN	alves		wat [®] RAS PRODUCT
50mm	65mm	80mm	100m	125mm	150mm	200mm	250mm	300mm
7	6	Ductile Iron Bo Resiliant Seat, S Flanged PN16, To BS5163	04C Ductile dy & Bonnet, Hand SS Stem, EPDM Enca Max Pressure: 16 ba	wheel Operated apsulated Wedge	alve - BS516	3	APPROVED	PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
	5	Flanged PN16 Body & Bonnet Trim 8: Wedge: Stem: A182 F6a	Cast Steel 1.0619+ 1:0619+N+Cr13, Se 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N	lve - PN16			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
	5	Flanged PN25 Body & Bonnet Trim 8: Wedge: Stem: A182 F6a	20AO Cast St : Cast Steel 1.0619+ 1.0619+N+Cr13, Se a p to DN600	N	lve - PN25			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
1		Flanged PN40 Body & Bonnet	20AO Cast St : Cast Steel 1.0619+ 1.0619+N+Cr13, Se	N	lve - PN40			

47	di-	Stem: A182 F6a	I					
		Available u	p to DN600					
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

e	Uniwat 507E Ductile Iron Gate Valve									
Ductile Iron Body & Bonnet,										
5	2	Wedge, EPDM	Wedge, EPDM Coated (NBR available)							
	Stem in Stainless Steel 420, Flanged PN16									
16	14	Rated 16 bar, I	Max Temp 90°C							
		A	DNA50			50mm	65mm	80mm		
	Available up to DN450									
100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm		

Flang	ed Gat		AL	MA				
		Albion 21 Cast Iron Body Bronze Trim, SS conforms to BS Flanged BS10 T Temp: -10°C to	Stem 3463 able E	Gate Valve -	Flanged Tal	ble E	APPROVED	PRODUCT
2"	21⁄2"	3"	4"	5"	6"	8"	10"	12"

4		SF156 Cast Iron Gate Valve - Flanged PN16								
	Ductile Iron Body, Wedge & Bonnet Rising Stainless Steel Stem & Brass Seat									
2										
	Flanged PN16									
	-(0)	Rated 16 bar &	120°C							
		Max Temp 120	°C					40mm		
50mm	50mm 65mm 80mm 100m 125mm 150mm 200mm 250mm							300mm		

	D	TT Flow E	S5163 Duct	ile Iron Gate	e Valve - Han	ndwheel			
		To BS5163:2004 & EN1171:2002							
4		Epoxy Coated Ductile Iron Body							
		Metal Seat, Clockwise Closing or AC closing							
		Flanged PN16: Handwheel Operated							
		WRAS listed components							
Available in larger sizes									
50mm 65mm 80mm 100mm 125mm 150mm 200mm 250mm						250mm	300mm		

		To BS5163:200 Epoxy Coated I Metal Seat, Clo Flanged PN16 WRAS listed co	4 & EN1171:2002 Ductile Iron Body ckwise Closing or A		e Valve - Iso 1	Гор	
80mm	100mm	125mm	150mm	200mm	250mm	300mm	

Å		% Cr, HFS (No. 5) Tr OS&Y 50RF	el Gate Valve	- Class 150			
1/2" 3/4"	³ / ₄ " !" 11/4" 11/2" 2"						

-	Uniflow S90 Cast Steel Gate Valves - ANSI 150											
		Design & manuf	acture to: API 6d-03	398 10434:2004								
	Body & Bonnet ASTM A216 WCB											
6	SeatA105 + 13% Cr, Trim #8											
	74	Temp:-29°C ~ 42	୬°C ~ 425°C									
(J)		Available up to 2	0", in ANSI 300 & Al	NSI 600 and in stair	less steel							
2"	2" 2½" 3" 4" 5" 6" 8" 10" 12"							12"				
2	2/2	5	5 4 5 0 8 10 12									





	STATES I	Cimberio	81 Bronze C	Globe Valve								
	T. C.	PTFE Disc										
	Screwed BSP											
	7 bar @ 180°C											
		20 bar @100°C										
	J.	Suitable fo	r Steam									
1/5″	3/4″	1″	1¼″	1½″	2″							

6		Albion 961 Stainless Steel Globe Valve							
	L	CF8M Stainless Steel Construction							
2	ALC: NO	PTFE Seal							
		Screwed BSP Female							
	22.00	Max pressure 1	Max pressure 16 bar						
		Temp range: -2	5°C to +180°C						
Suitable for Steam									
1⁄4"	3⁄8″	1/2″	3/4″	1"	1¼″	1½″	2"		



VYC 248 Bellow Sealed Globe Valve -NI

		Nodular Iron Bo 304SS Bellow, C Rated 10 bar @ Flanged PN16	2					
Suitable for Steam						15mm	20mm	25mm
32mm	32mm 40mm 50mm 65mm 80mm 100mm				125mm	150mm	200mm	



VYC 248 Bellow Sealed Globe Valve - CS

Cast Steel Body, SS Internals 304SS Bellow, Graphite Packing Rated 23 bar @ 400°C, 40 bar@ 50°C, Min temp -20°C Flanged PN40

	107	Suitable for Steam				15mm	20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm



-	100	Cimberio	82 Bronze C	Globe Valve					
		PTFE Disc							
		Flanged PN6/10/16							
		7 bar @ 170°C							
	100 m	16 bar @ 100°C							
Suitable for Steam									
15mm	20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm							100mm	





	Ó.	Cast Iron Body Flanged PN16 Available with	cast iron, cast steel, ed PN10, PN16, JIS !	bronze bodies	es			
	H F					15mm	20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

FB 01-396 Screw Down Non Return Valve

	D.		cast iron, cast steel, ed PN10, PN16, JIS					
						15mm	20mm	25mm
-								
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

		Cast Iron Body Flanged PN16 Available with	5 5		wn Non Reti	urn Valves				
						15mm	20mm	25mm		
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm		

. .

Fire Valves Available with bronze, gunmetal bodies Available flanged PN10, PN16, JIS 5K, 10K, 16K etc								
Longing	town						20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

	>	Storm Va	lves					
			bronze, gunmetal b ed PN10, PN16, JIS					
						15mm	20mm	25mm
7						131111	201111	2311111
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

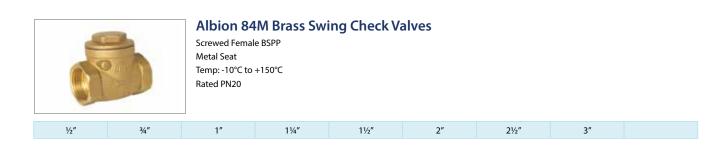


MARINE VALVES - BRONZE VALVES - JIS VALVES - QUICK CLOSING VALVES



ALMA Brass/Bronze Check Valves

	Pro Contraction	Albion 38 Screwed BSPT Max. 20 bar Temp: -10°C to To BS5154 (BS B	+232℃	ving Check V	/alve	APPROVED PRODUCT
1⁄2″	3⁄4″	1″	1¼″	11⁄2″	2″	



		Europa Bra Screwed Female Stainless Steel Pl Nitrile/Brass Seal Temp: -20°C to +	BSP ate & Spring	lon Return V	/alve			3/8″
1⁄2″	3/4″	1″	11⁄4″	11⁄2″	2″	21⁄2″	3″	4″
		Altecnic S Screwed BSP Max pressure: 1 Max temp 85°C		(Valves			APPROVED	PRODUCT



			Bonnet, Teflon disc °C @14 bar 2 bar @ 100°C emale	Horizontal L	ift Check Val	ves	
1/2″	3/4″	1″	11⁄4″	11⁄2″	2″		

Check/Non-Return Valves





		CIM 32 Br Screwed BSP M Temp: -10°C to Rated PN16	ale x Female	oaded Cheo	:k Valve MX	F	
1/2″	3⁄4″	1″	1¼″	11⁄2″	2″		

6	HI .	Albion 96 Screwed BSP Fo Max Temp: 200 Max. pressure:	°C	wing Check	Valve			
1/4″	3/8″	1/2″	3⁄4″	1″	1¼″	11⁄2″	2″	





Ó			200°C					
1⁄2"	3⁄4"	1"	1¼"	1½"	2"	21/2"	3"	4"



ALMA Check/Non Return Valves

		Cast Iron Body	& Disc ilable with EPDM S ed PN16	ng Check Val	ves			
40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm	

		To BS5153:1974	4 (BS EN 12334:200 ⁻ Ductile Iron Body	Swing Check	Valve		APPROVED PRODUCT
50mm	80mm	100mm	150mm	200mm	250mm	300mm	

	T	To BS5153:197		-	Valve with	Lever & Weig	ght	PRODUCT
50-65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm

50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	



		Uni-Chec	k 3240N Cas	t Iron Ball C	heck Valve			
		Cast Iron Epoxy Aluminium Nit	/ Coated Body & Cov rile Coated Ball	ver				
	4		e 10 bar, Flanged PN Ind above (PN16 ava inless steel	•	nds)			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

Flanged/Wafer Check/Non Return Valves



	Nº.	Epoxy Coated I EPDM Lined Stu Max 130°C, Rat		-	alve			PRODUCT
					50-65mm	80mm	100mm	125mm
		Available u	p to DN600					
150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm

		Uniwat C	H2263 Dual	Plate Check	Valve			
		Cast Iron Body AISI 304SS Spri EPDM Seat, Ma PN10/16/ANSI	ngs & Stem x 130°C					
	Y	Fully stainless s	teel version availab p to DN600	le				
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

			16/ANSI 150 Flanging ole in larger sizes					
50mm 65mm 80mm 100mm 125mm 150mm 200mm 250mm 3	50mm	65mm 80m	m 100mm	125mm	150mm	200mm	250mm	300mm

Î		AISI 316 Stainles Viton Seals Suitable for PN1	ss Steel Body & Disc 0-16-25 Flanging		ng Check Va	lve		
Rated 16 bar, Max Temp. 180°C Available up to DN900							40mm	
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



		Ductile Iron Bo Flanged PN16 Nitrile 70 Shore Rated 16 bar, W	t.236 Doubl dy, Epoxy Coated e Seals & Gaskets /orking Temp. 0°C to d as non return valv	o 23℃	ve		APPROVED PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm



VYC Check Valves





VYC 170/172 Disc Check Valve

	Max Temp: 250 Also available ii	iction, Cast Iron ava °C, Max pressure: 16 n Carbon Steel & St etween flanges DIN	Suita	ble for Steam			
C		5	15mm	20mm	25mm	32mm	40mm
65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

 WYC 179 Brass Piston Check Valve

 Brass Construction

 Max temp: 200°C

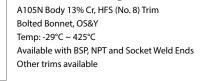
 Max pressure: 200 bar

 Screwed BSP, NPT or Socket Weld

 Suitable for Steam/Gases/Liquids



Uniflow S35 Forged Steel Piston Check Valve - Class 800



1/2" 3/4" 1" 11/4" 11/2" 2"	



Uniflow S39 Forged Steel Swing Check Valve - Class 800

A105N body 13% Cr, HFS (No 8) Trim Bolted Bonnet, OS&Y Temp: -29°C ~ 425°C Available with BSP, NPT and Socket Weld Ends Other trims available

1¼″

1″



1½″

2″

2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"



Threaded Strainers



	S a	CIM 74AC HNBR Gasket, S Stainless Steel Temp: -20°C to Max 20 bar	Filter (0.65mm)				
1⁄2″	3⁄4″	1″	1¼″	1½″	2″		

	ł	Stainless Steel I	Brass-Y Strai Filter, Screwed BSP ; 0.47mm 1¼" & 1½ ℃				RADUCT
1⁄2″	3/4″	1″	11⁄4″	11⁄2″	2″		

	Altecnic Brass Y-Strainer - Compression Ends Metric Compression Ends Stainless Steel Filter 0.10mm for 15mm, 0.40mm for 22 & 28mm PN16 rating up to 30°C PN6 rating up to 110°C						APPROVED	PRODUCT
15mm	22mm	28mm						

	F	A105 Carbon St Screwed BSP (a Mesh 0.8mm w	rbon Steel Y teel Body, 316SS Sc Iso available in NPT ith draining cap, 38 bar, Temp: -29% r Steam	reen 「and Socket Weld)				
1/4″	3⁄8″	1⁄2″	3⁄4″	1″	11⁄4″	11⁄2″	2″	

		VYC 191 9	Stainless Ste	eel Y-Straine	r - Screwed	BSP			
1000		316 Stainless Steel Body & Cover							
		AISI 316SS Screen, PTFE Gasket							
-C	1000	Rated 40 bar, Temp: -20°C to 180°C							
	1	Screwed BSP, 1mm perforations							
			r Steam						
1/4″	3⁄8″	1/2″	3⁄4″	1″	11⁄4″	1½″	2″		

9	3	GE2460 S Screwed BSP For PTFE Seat Max Temp: 240 Max pressure: 4	emale °C	el Y-Strainei				
1⁄4″	3/8″	1/2″	3⁄4″	1″	11⁄4″	1½″	2″	



MAY Strainers

R		Ductile Iron Bo AISI 304SS Scre	30WEG Duc dy & Cover Epoxy C een, EPDM Gasket lax Temp 120°C		PRODUCT			
	13							40mm
	0							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

Uniwat 630WOG Ductile Iron Y-Strainers - Flanged PN16

R		Ductile Iron Bo			trainers - ria	inged Fivio		
	23							40mm
	61 T							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



VYC 090 Nodular Iron Y-Strainers - Flanged PN16

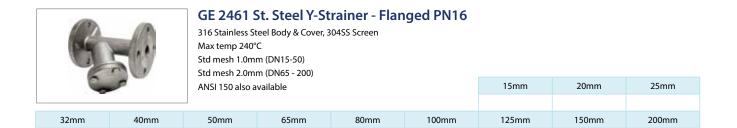
			on Body & Cover RA en, Graphite + SS G ax Temp 350°C		5			
2						15mm	20mm	25mm
		Suitable for Steam						
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

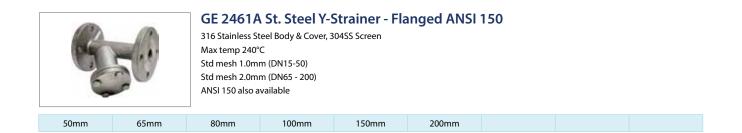


VYC 090 Carbon Steel Y-Strainers - Flanged PN40

Carbon Steel Body & Cover	
AISI 304SS Screen, Graphite + SS Gasket	
Rated 40 bar, Max Temp 400°C	
Flanged PN40	

29						15mm	20mm	25mm
		Suitable fo	r Steam					
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm









0		Body ASTM A2 F304 SS Screen	/lesh DN50 1mm, DN65-80 1.25mm, DN100-300 1.6mm									
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm				

0	Uniflow FOA Cast Steel Y-Strainer - ANSI 150RF Body ASTM A216 WCB F304 SS Screen Mesh DN50 1mm, DN65-80 1.25mm, DN100-300 1.6mm Available up to 24" and in ANSI 300							
2"	2 1/2″	3"	4"	5"	6"	8"	10"	12"

Ą	Ì	Uniwat ST101F Basket Strainer - Flanged PN16 Ductile Iron Body & Cover Epoxy Coated F304 SS Screen, EPDM Gasket Rated 16 bar, Max temp 120°C Flanged PN16						
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

6	1 15	Simplex Basket Strainer									
	-	Cast Iron, Bronz	e, Carbon and Stair	nless Steel							
3.	Contraction of the second	Threaded BSP c	Threaded BSP or NPT								
1	ALL LAN	Flanged PN16 a	Flanged PN16 and ANSI 150								
10		316SS Screens, Various mesh sizes available									
	20	Various seal materials available 20mm 25mm									
	100										
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm			

		Cast Iron, Bronz Threaded BSP c Flanged PN16 a		nless Steel				
			terials available				20mm	25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm



Self Cleaning Strainers - Temporary Strainers



ALMA CIM Commissioning Valves



	P	Corrosion Resis Screwed Femal Nominal Pressu From -10°C to 1	ire PN25	nternals, Brass Test		APPROVED	PRODUCT	
1⁄2″ L	1⁄2″ ML	1/2"	3⁄4"	1"	11⁄4"	11/2"	2"	



CIM727 Double Regulating Valve

Corrosion Resistant Brass Body & Internals Screwed Female BSP Nominal Pressure PN20 From -10°C to 120°C CIM 727L coupled with a CIM721 UL, L or ML for FODRV low flows

1/5"	1/5"	3//"	1″	11/4″	11/5″	2″	
72 L	/2	/4		174	172	-	

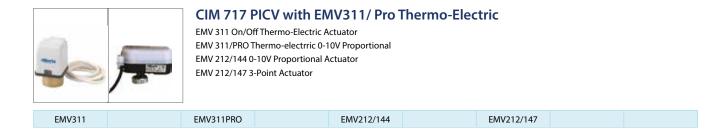
	Ê	CIM721 N Brass Flow Mea Male x Female Nominal Pressu From -10°C to 1	BSP Ire PN20	tion				
********	cun	CIM 727L coupled with a CIM721 UL, L or ML for FODRV low flows						
1⁄2″ UL	1⁄2″ L	1⁄2″ ML	1/2″	3⁄4″	1"	1¼″	1½″	2"

CIM3739B Variable Orifice Double Regulating Valve Cast Iron Body, Flanged PN16 Nominal Pressure PN16 From -10°C to 120°C Supplied with 2 test points Also supplied under brand name Duyar 65mm 80mm 100mm 125mm 150mm 200mm 250mm 300mm

	J	For PN16 Flang Nominal Pressu From -10°C to 1	re PN16					
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

2			gauge & insulation & Internals le BSP	ancing Valve			APPROVED	PRODUCT
Valve	1/2″	3⁄4″	1"		Insulation	1/2″	3⁄4″	1"

cimberio technological solutions	lves	MA.				
		g Valve - Lov & Internals e BSP	ependent C v & High Flo			
1/2" DN10 LF 3/4" DN15 LF	1⁄2" DN10 HF	34" DN 15 HF	1" DN20 HF	1¼″ DN25 HF		



		CIM 776 Pressure Independent Control Balancing Valve CR Brass Body & Internals Screwed Female BSP EMV 212/148 0-10V Proportional Actuator EMV 212/150 3-Point Actuator							
1½″ "HF 2"HF			EVV211/148		EMV212/150				

CIM3776B Pressure Independent Control Bala Cast Iron Body & Bonnet From -20°C to 120°C Max pressure: 16 bar Operating range 30/50 kPa to 400 kPa						ancing Valv	e - 24V 0-10	V Actuator
65mm	80mm	100mm	125mm	150mm		Gearbox		



	141	CIM 3767 Differential Pressure Control Valve							
		CR Brass Construction, Screwed BSP Female From -10°C to 120°C To be used in conjunction with CIM 3787 with Capillary Tube - Price shown for full kit							
	V								
65mm	80mm	100mm	125mm	150mm					



CIM Monolink Units





CIM 731 Monolink Terminal Units Connection System

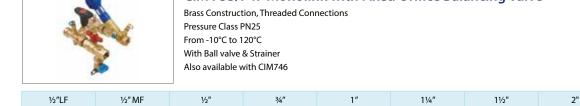
Brass Construction
Threaded Connections
Pressure Class PN25
From -10°C to 120°C
Bespoke models available, extra ball valves, strainers etc

3⁄4"	1"	1¼″	11⁄2″	2″			
------	----	-----	-------	----	--	--	--

CIM 733/746 Monolink with Fixed Orifice Balancing Valve

		Brass Construction, Threaded Connections Pressure Class PN25 From -10°C to 120° With Ball valve & Strainer							
1⁄2″LF	1⁄2″ MF	1⁄2"	3⁄4″	1″	1¼″	1½"	2"		

CIM 733/747 Monolink with Fixed Orifice Balancing Valve

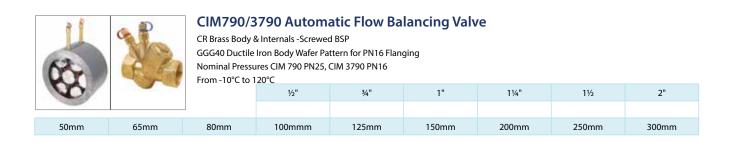


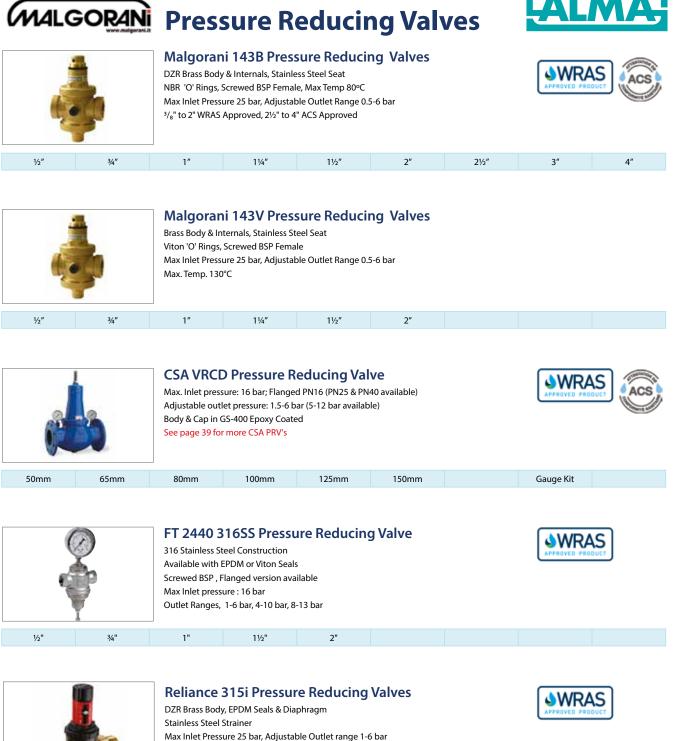


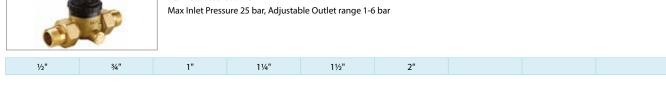
CIM 733/717 Pressure Independent Control Balancing Valve Brass Contruction, Threaded Connection

Pressure Class PN25 From -10°C to 120°C Prices shown with modulating 0-10V electric actuator Also available on/off, 3 point...











20mm

25mm

15mm

Goetze Series 481/482/681/682 Pressure Reducing Valves

40mm

50mm

65mm

Gunmetal or Stainless Steel Construction BSP Female, BSP Union Male Flanged PN16 or PN40 Connections Max Temp: -10°C to 95°C depending on version (SS not steam) Inlet pressure: Up to 40 bar, Outlet pressure range: 0.5 to 15 bar

32mm

WRAS

www.alma-valves.ie 35

100mm

80mm



Pressure Reducing & Overflow Valves

1		
	F	

VYC 513 Pressure Reducing Valve

Body: Nodular Iron, Carbon Steel or Stainless Steel Stainless Steel Internals, Screwed BSP Female Max Inlet pressure: 17 bar, Max temp. 230°C Outlet range 0.14 to 8.6 bar (3 springs)

Suitable for Steam/Gases/Liquids

1⁄2" - N.Iron	³ ⁄4″ -N.Iron	1" - N.Iron	1⁄2″ - CS	³⁄4″ − CS	1″-CS	1⁄2″ - SS	³⁄4″ - SS	1″-SS



VYC 514 Pressure Reducing Valve

Body: Nodular Iron, Carbon Steel or Stainless Steel Stainless Steel Internals, Flanged PN25 Max Inlet pressure: 17 bar, Max temp. 230°C Outlet range 0.14 to 8.6 bar (3 springs)

Suitable for Steam/Gases/Liquids

15mm - N. Iron 20mm - N. Iron 25mm - N. Iron 15mm - CS	20mm - CS 25mm - CS	15mm -SS 20mm - SS	25mm - SS
--	---------------------	--------------------	-----------



VYC 614 Pressure Reducing Valve

Body: Carbon Steel Stainless Steel Internals, Flanged PN16 Max pressure: 16 bar Outlet range 0.14 to 8.6 bar (3 springs)

Suitable for Steam/Gases

|--|



GE2274/2275 Pressure Reducing Valve

Body: Carbon Steel Pilot Operated Max pressure: 25 bar, (17 bar for steam) Outlet range 0.50 to 12 bar Max Temp: 260°C **Suitable for Steam/Gases**

5		Suitable for	r Steam/Gases			1/2″	3/4″	1"
11⁄4"	11⁄2″	2"	15mm	20mm	25mm	32mm	40mm	50mm



GE 2281 SS Pressure Reducing Valve

CF8 Stainless Steel BSP Female BSP Max Temp: 200°C Set pressure ranges: 2 to 8 bar, 1 to 3 bar

1"

4	44	Gunmetal Cons BSP Female or I Max Temp: -100	eries 630/61 struction 3SP Union Male Cor to 95°C depending nge: 0.5 to 10 bar	nnections (Flanged	631)	ontrol Valve	¢٩	GŒTZE
1/2″	3⁄4″	1"	1¼"	1½″	2"			



VYC Safety Valves





VYC Model 095-ES Bronze/Brass Safety Valve

Proportional Lift, Closed Cap BSP Male Inlet/Female Outlet Max Temp: 260°C, Max. Set pressure: 25 bar (mixed construction over 16 bar) Prices include certificates

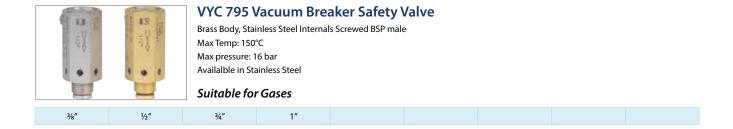
le	1	1⁄4″	3⁄8″					
7	3/4″	1″	1¼″	1½″	2″	21/2"	3″	4″

ſ	VYC Model 095-AP Bronze/Brass Safety Valve Proportional Lift, Closed Cap with lever BSP Male Inlet/Female Outlet Max Temp: 260°C, Max. Set pressure: 25 bar (Mixed Construction over 16 bar) Prices include certificates									
	Suitable for Steam/Gases/Liquids							3⁄8″		
				, =: q=:===						
1/2″	3⁄4″	1″	11⁄4″	11⁄2″	2″	2½″	3″	4″		

Suitable for Gases/Liquids			Proportional Li Closed Cap wit	ft, BSP Male inlet/Fo h or without lever °C, Max. Set pressu		/alve			
		Suitable for Gases/Liquids							
	1⁄2″	3/4″	1″	11⁄4″	1½″	2″	21⁄2″	3″	4″
1/2" ³ /4" 1" 11/4" 11/2" 2" 21/2" 3" 4"									

I.	Proportional Li BSP Male inlet/	ft, Closed Cap with Female Outlet °C, Max. Set pressu		Valve			
1	1⁄4″	3⁄8″					
1/2" 3/4"	1″	11⁄4″	11⁄2″	2″	21⁄2″	3″	4″

<u> </u>	2									
1	20	Flanged PN16 Inlet/Female Outlet								
E	Max. Set pressure: 25 bar - Max Temp: 260°C, Prices include certificates									
1	Suitable for Steam/Gases/Liquids							10 x 3⁄8		
15 x ½″	20 x ¾″	25 x 1″	32 x 1¼″	40 x 1½″	50 x 2″	65 x 2½"	80 x 3″	100 x 4″		





VYC Safety Valves



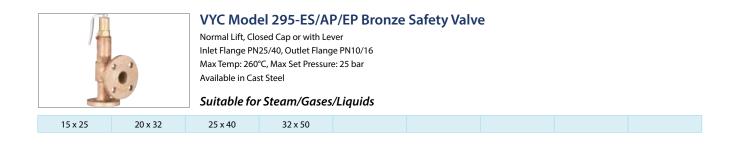


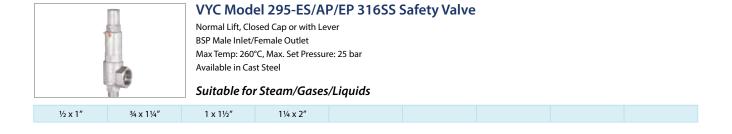
VYC Model 295-ES/AP/EP Bronze Safety Valve Normal Lift, Closed Cap or with Lever

BSP Male Inlet/Female Outlet Max Temp: 260°C, Max Set Pressure: 25 bar Available in Cast Steel

Suitable for Steam/Gases/Liquids

¹/₂ x 1" ³/₄ x 1¹/₄" 1 x 1¹/₂" 1¹/₄ x 2"

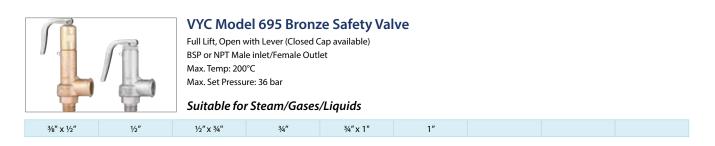






VYC Model 295-ES/AP/EP 316SS Safety Valve Normal Lift, Closed Cap or with lever Inlet Flange PN25/40, Outlet Flange PN10/16 Max Temp: 260°C, Max. Set Pressure: 25 bar Available in Cast Steel Suitable for Steam/Gases/Liquids

225 20 x 32 25 x 40 32 x 50







VYC Safety Valves





VYC Model 496 Safety Valve EN

Full Lift Cast Iron Construction

Also available in Nodular Iron/Cast & Stainless Steel Flanged & Rated PN16 & PN40, Max Temp: from -60°C to 450°C

	Suitable for Steam/Gases/Liquids							25 x 40
32 x 50	40 x 65	50 x 80	65 x 100	80 x 125	100 x 150	125 x 200	150 x 250	200 x 300



VYC Model 486 Safety Valve ASME

Full Lift Carbon Steel Construction Also available in Stainless Steel, Flanged & Rated ANSI 150 & 300lb Max Temp: From -20°F to 842°F - Max set pressure: 580 psi

1" x 2″	1½ x 2″	1½ x 2½″	1½ x 3″	2″x 3"	3″x 4"	4″ x 6"	6″ x 8"	8″ x 10"
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VYC Model 495 Safety Valve EN

Full Lift Cast Iron Construction Also available in Nodular Iron/Cast & Stainless Steel Female Thread BSP (495) or NPT (485), Max set pressure: 40 bar/580 psi Max Temp: from -60°C to 450°C / -20°F to 842°F

Suitable for Steam/Gases/Liquids 1"x1½



VYC Model 494 Safety Valve

Full Lift Cast Iron Construction Also available in Nodular Iron/Cast & Stainless Steel Max Temp: from -60°C to 450°C, Std mesh 2.0mm (DN40-200)

32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm



VYC Model 596 Safety Valve - Max 62 Bar

Full Lift Carbon Steel Construction Also available in Stainless Steel Max Temp: from -60°C to 450°C,

		Suitable for	r Steam/Gases	/Liquids	25 x 32	25 x 40	32 x 50	40 x 65	
		Suitable ibi	Steam/Gases	/Liquius					
50 x 80	65 x 100	80 x 125	100 x 150	125 x 200	150 x 250	200 x 300	250 x 350	300 x 400	



VYC Model 696 Safety Valve - Max 95 Bar

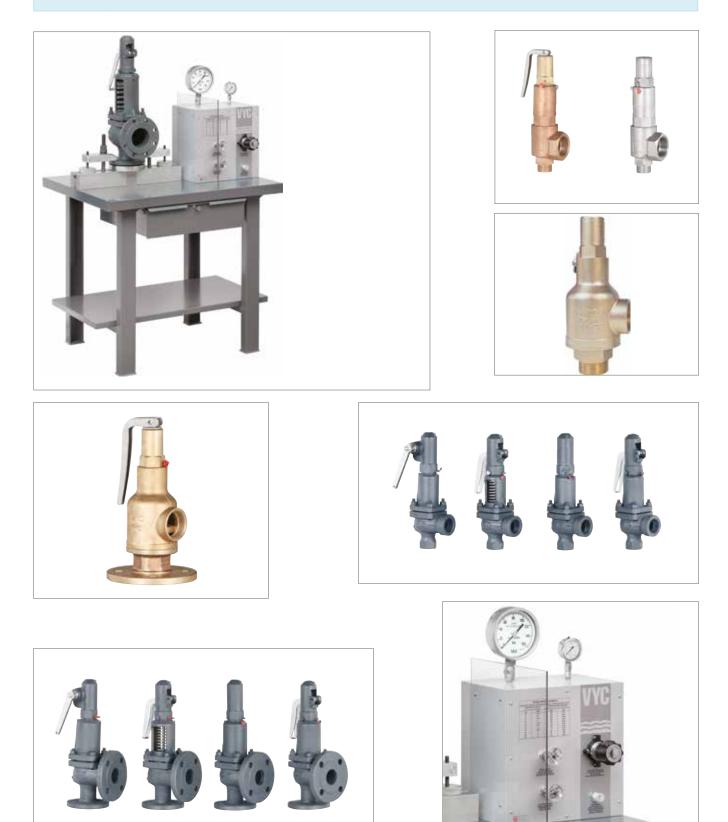
Full Lift Carbon Steel Construction Also available in Stainless Steel Max Temp: from -60°C to 450°C

		Suitable for	Steam/Gases	/Liquids		25 x 40	32 x 50	40 x 65	
50 x 80	65 x 100	80 x 125	100 x 150	125 x 200	150 x 250	200 x 300	250 x 350	300 x 400	

25mm

ALMA VYC In House Test Rig Facility

We have the facilities to set VYC Safety Valves at specific set pressures



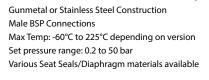
Price Dependent on Valve Size, Type and Spring Range



		Stainless Steel I Female BSP Cor Max Temp: -50° Set pressure rat	eries 645 Sa Inlet Gunmetal Out nnections ? to 205°C dependir nge: 0.5 to 16 bar als/diaphragm mat	let ng on version			PRODUCT
1⁄2"	3⁄4"	1"	11⁄4"	1½"	2"		



Goetze Series 810/410 Atmospheric Safety Valve



1/4" ³/8" ¹/2" ³/4" 1"



Goetze Series 812/412 Atmospheric Safety Valve

Gunmetal or Stainless Steel Construction Male BSP Connections Max Temp: -60°C to 225°C depending on version Set pressure range: 0,2 to 50 bar Various Seat Seals/Diaphragm materials available

1/2" 3/4" 1" 11/4" 11/2" 2"



Goetze Hygenic Series Valves



DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	
------	------	------	------	------	------	------	-------	--











Other Goetze Valve Series



(Max. Inlet press Adjustable outl Body & Cap in C Model VRCD-M	ure: 16 bar, Flange		40 Available)	ACS	APPROVED PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm		Gauge Kit

<i>i</i>	6	Max. Inlet press Body & Cap in C	Pressure Re sure: 40 bar, Flanger 55-400 Epoxy Coate iskets, Spring 55iCr	d PN16 ed	ing Valve	ACS	APPROVED	PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm		Gauge Kit	



CSA XLC410 Pressure Reducing Valve

Body & Cover in GS 400-15 Epoxy Coated
Flanged PN16, Stainless steel internal parts & pipes
Also options for stabilizing, two set points, pressure management
solenoid controlled, flow rate & reducing

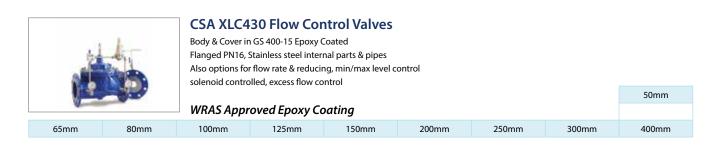
	Solchold controlled, now rate a readeing							
	WRAS Approved Epoxy Coating							
65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	400mm



CSA XLC420 Pressure Relief/Sustaining Valve

Body & Cover in GS 400-15 Epoxy Coated Flanged PN16, Stainless steel internal parts & pipes Also options for upstream relief, upstream sustaining surge anticipating, differential sustaining

								50mm		
4		WRAS Appr	WRAS Approved Epoxy Coating							
65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	400mm		

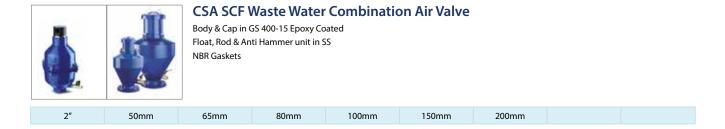




C	SA	CSA	Air Va				
	j	Body, Cap & Mo Solid Polypropy Pressure range	BF Combinat obile flanges in GJS ylene float, SS Seat : 10-16-25-40 bar, M maximum 60°C, hig & RFP versions	450-10, Epoxy Coa 1inimum working: (ted		APPROVED PRODUCT
1″	2″	50mm	80mm	100mm	150mm	200mm	250mm

2	B	Body in GJS 450 Solid Polypropy Pressure range: Minimum work	BF-HP Comb 0-15 Epoxy Coated ylene Float, SS Seat : 10-16-25-40 bar sing pressure: 0.2 ba naximum 60°C, hig	ar	/alve		APPROVED PRODUCT
2″	50mm	65mm	80mm	100mm	150mm	200mm	









CSA Argo Combination Air Valve

Body & Cap in Glass Reinforced Polypropelene (GRPP) BSP or NPT Threads Treated water maximum 60°C Max pressure 40 bar Min pressure 0.3 bar





CSA Air Valves



CSA Fox 3F-AS-HR Surge Arrestors

PN16

Anti-shock air valve for high rise buildings and pumping stations Max temperature: Treated Water 60°C Max Pressure: 40 bar Min Pressure: 0.2 bar



-	CSA Ventolo Air Release Valve
ALC: NO.	Body & Cap in GJS 450-10 Epoxy Coated
and the second second	Float & internals stainless steel
	Pressure range: 10-16-25-40 bar
	Minimum working pressure: 0.2 bar
and the second se	Treated water maximum 60°C

PN10

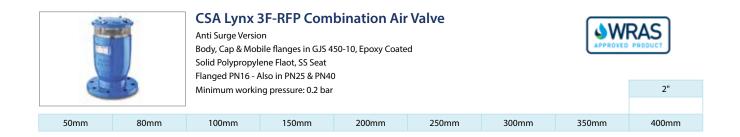
1″	PN16	PN25	PN40		

PN25

PN40

	Ĵ	Body, Cap & Mok solid Polypropyle flanged PN16-als	3F Combina bile flanges in GJS 4 ene Float, SS Seat so in PN25 & PN40 ng pressure: 0.2 bar	50-10, Epoxy Coate				PRODUCT
e	3	Treated water maximum 60°C						
50mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm

	Ì	Anti-Water Ham Body, Cap & Mol Solid Polypropyl	3F-AS Comb mer Version bile flanges in GJS 4 ene Float, SS Seat also in PN25 & PN40	50-10, Epoxy Coate				PRODUCT
0	1		ng presure: 0.2 bar					2"
50mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm



		Body & Cap in 3	16 Stainless Steel, F im, Flanged PN16 - aximum 60°C & RFP versions	ation Air Valv loat in solid PP Also iin PN25 & PN4			
1″	2″	50mm	80mm	100mm	150mm	200mm	

Therm	nostati	c Mixi	i <mark>ng V</mark> a	lves				MA
		DZR Brass Body Metric Compre Art. 33 - 2 in 1 v Art. 33SV 4 in 1		lves es	-		APPROVE	PRODUCT
2 in 1	15mm	22mm	4 in 1	15mm	22mm	BSP	1/2"	3⁄4"
		Dellara	۸		linin n Malua			

a fa		DZR Brass Bod Metric Compre Dual TMV2-3	y & Internals ssion Ends t isolating valves	ermostatic M	lixing Valve		APPROVED PRODUCT
2 in 1	15mm	22mm		4 in 1	15mm	22mm	

COL DT.		Reliance DZR Brass Body Metric Compre Dual TMV2-3 2 in 1 without i 4 in 1 with isola	ssion Ends solating valves	Dual Thermo	ostatic Mixir	ıg Valve	APPROVED PRODUCT
2 in 1	15mm	22mm		4 in 1	15mm	22mm	

eo leo		Altecnic 5 DZR Brass Body Metric Compre Dual TMV2-3 2 in 1 prices shi Art 5219 - TMV	ssion Ends own	hermostatic	Mixing Valv	/e	APPROVED PRODUCT
No valves	15mm	22mm	With valves	15mm	22mm	No Valves	28mm

an fe			5231 Thermo Brass Body & Interr	ng Valve	APPROVED PRODUCT
1"	11⁄4"	1½"	2"		



Group Mixers - Tempering Valves



		Balanced Single Body & Cap in G	Seat 5-400 Epoxy Coatec Stainless Steel & Bro		Valve		APPROVED	PRODUCT
	CE ST		nti-freezing kit at ex	ktra cost				40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

M	r	Body, Cover: Ca Valve Disc: EPD Flanged PN16, I	Equilibrium st Iron M bonded to steel Rated for 10 bar in Rilsan coated ste			PRODUCT		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

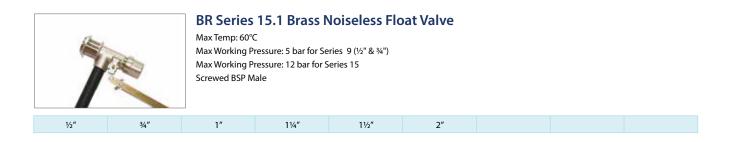


VYC Model 151 Stainless Steel Float Valve

316SS Stainless Steel Max Temp: 200°C Max. Set pressure: 16 bar Screwed BSP Male Price does not include float/buoy

3⁄8″	1/2″	3⁄4″	1″	11⁄4″	1½″	2"	21⁄2″	

VYC Model 152 Stainless Steel Buoy 316SS Stainless Steel Temperature and pressure ratings depend on size and shape of buoy 60mm 90mm 110mm 150mm 200mm 300mm



		BR Series Rubber Floats a	20.2 Coppe available	r Float			
120 - ½″	120 - ¾″	180 - 1″	200 - 1¼″	220 - 1½″	250 - 2″		





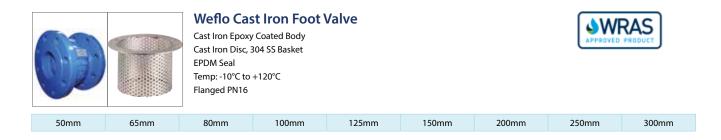
	GE
Change 1	GG25
(a) and (a)	NBR s
Contraction of the second	Temp
- Section -	

E 2452 Foot Valve with Strainer

GG25 Cast Iron Body NBR seals, Flanged PN16 Temperature rating -10°C to 100°C

50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	

		GE 2448	oot Valve w	ith Strainer						
		Viton Seat, PTF Flanged PN16	Manual Emptying System							
50mm	65mm	80mm	100mm	200mm						



		GE 2447 S Screwed Male E All parts 316SS Sieve: ½" to 2" Sieve: 2½" to 4"	mm	el Filters				
1⁄2″	3⁄4″	1″	1¼"	11⁄2″	2″	21⁄2″	3″	4″

		GE 3160 Screwed Male Nylon Thread, Available with	SS Strainer	eel Filters				
1/2″	3⁄4″	1″	1¼″	11⁄2″	2″	21⁄2″	3″	4″

C		GE 2451 Strainer Zinc Plated Steel Available with PN10 & PN16 Drilling Stainless steel available						
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	



Needle Valves





GE 2221 3000 LBS Needle Valve

A105 Carbon Steel Body Screwed Female Working Temp. -20°C to 250°C

Available to order with NPT Thread

	3⁄8″	1/2″	3⁄4″	1″				
--	------	------	------	----	--	--	--	--

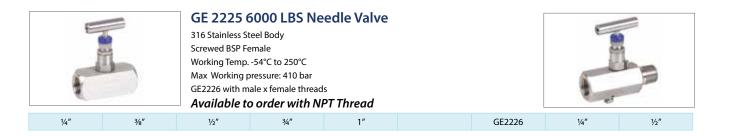


GE 2223 3000 LBS Needle Valve

316 Stainless Steel Body Screwed Female Working Temp. -20°C to 250°C

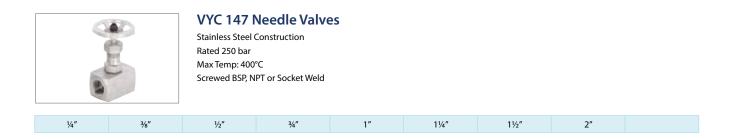
Available to order with NPT Thread

	3/.//		2/11	 a 1 / 11	a 1 / 11	0//	
1/A"	3/0"	1/2"	3/4"	 1 1/4 "	11/2")"	
/-	/0	/2	/-	 1/4	1/2	-	



VYC 147 Needle Valves Brass Construction Rated 200 bar Max Temp: 200°C Screwed BSP, NPT or Socket Weld

0 0		Carbon Steel C Rated 250 bar, Max Temp: 400						
1⁄4"	3⁄8″	1/2″	3⁄4″	1″	11⁄4″	11⁄2″	2″	





Diaval Diaphragm Valves





Weir Type Diaphragm Valve

GGG40 Ductile Iron Body & Bonnet Screwed BSP Female EPDM Diaphragm, Others on request Handwheel Operated

3/8″	1/2″	3/4″	1″	1¼″	1½″	2″	2½"	3″

	5	GGG40 Ductile Flanged PN16,	ANSI 150 available Diaphragm, Other	t, Lined Bodies avai	lable			
				15mm	20mm	25mm	32mm	40mm
50mm	50mm 65mm 80mm 100mm			125mm	150mm	200mm	250mm	300mm



Straight Through Type Diaphragm Valve





Straight Through Type Diaphragm Valve

GGG40 Ductile Iron Body & Bonnet, Lined Bodies available Flanged PN16, ANSI 150 available Natural Rubber Diaphragm, Others on request Handwheel Operated

				15mm	20mm	25mm	32mm	40mm
mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



Spare Diaphragms

Weir type, straight through type

Compatible with SAUNDERS DIAPHRAGM VALVES



Natural Rubber, White Rubber, EPDM, Butyl, Nitrile, Neoprene, Hypalon Viton, PTFE/EPDM, PTFE/Butyl, PTFE/Viton









Normally Open Pneumatic, Normally Closed Pneumatic, Handwheel Coatings - Hard Rubber - Soft Rubber, Butyl, ECTFE-HALAR, ETFE, PVDF, FEF, PP, Hypalon



		2/2 Way, Norm Brass Body, EPE 24V ac/dc, 110 Media Tempera	DM Seals			5	APPROVED PRODUCT
3/6"	1/5"	3/4"	1"	11/4"	11/2	2"	

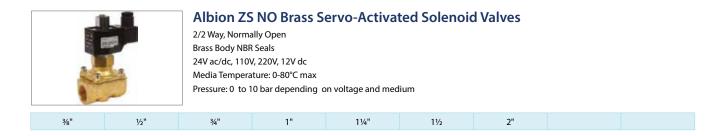
		2/2 Way, Norma Brass Body, EPD 24V ac/dc, 110\ Media Tempera	ally Open DM Seals /, 220V, 12V dc ture: 0-120°C max	Pilot OP Sole		5	PRODUCT
3/8"	1/2"	3/4"	1"	11⁄4"	1½	2"	

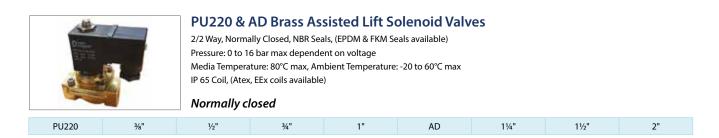


Albion ZS NC Brass Servo-Activated Solenoid Valves

2/2 Way, Normally Closed Brass Body, NBR Seals 24V ac/dc, 110V, 220V, 12V dc Media Temperature: 0-80°C max Pressure: 0 to 10 bar depending on voltage and medium

1/4" 3/6"	1/5"	3/4"	1"	11/4"	11/2	2"	
/4 /8	/2	/4		174	172	2	





		2/2 Way, Norm Pressure: 0 to 1 Media Temper	R Brass Direc hally Closed, NBR Sec 16 bar max depende ature: 80°C max, An x, EEx coils available closed	als, (EPDM & FKM Se ent on voltage etc nbient Temperature	eals available)		
1⁄8"	1⁄4"	3⁄8"					

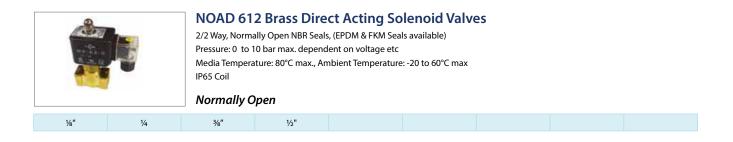
Solenoid Valves

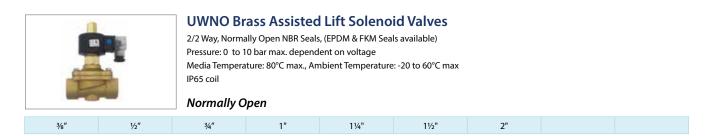


		Albion ZS NC St Steel Servo-Activated Solenoid Valves							
		2/2 Way, Norma							
		302SS Body NBR Seals 24V ac/dc, 110V, 220V, 12V dc							
		Media Tempera	iture: 0-80°C max	n voltage and medi	um				
3⁄8″	1⁄2"	3/4″	1"	11⁄4"	11⁄2"	2"			

	-	1	Albion ZS	S NO St Stee	Servo-Activ	vated Solen	oid Valves			
			302SS Body, NBR seals 24V ac/dc, 110V, 220V, 12V dc							
				ature: 0-80° max 0 bar depending or	n voltage and medi	um				
	3⁄8″	1⁄2″	3/4″	1"	1¼"	1½"	2"			

S		2/2 Way, Norm Pressure: 0 to ⁻ Media Tempera IP65 coil	tainless Stee ally Closed, NBR Sea 10 bar max. Normal ature: 100°C max., A Iormally Open	als, (EPDM & FKM Se ly Open available mbient Temperatur		/es	
3/8″	1/2″	3⁄4″	1"	1¼"	11⁄2"	2"	





		2/2 Way, Norma Pressure: 0 to 1 Media Tempera	ally Closed, PTFE & (0 bar max. Iture: 180°C max., A EEx coils available)	mbient Temperatur	llves	
1⁄2″	3/4″	1″				



HP Pneumatic Actuators



HP Double Acting Pneumatic Actuator

Available in 90° spring return/double acting. 180° double acting & 180° spring return 3-position fail to mid (RPC) ATEX certified and CE marked All components have high corrosion resistance

we high corrosi	on resistance				
		HP50D	HP63D	HP66D	HP75D
HP125D	HP145D	HP160D	HP180D	HP200D	HP212D

	-	Available in 90 & 180° spring r ATEX certified a	g Return Pne ° spring return/doul eturn 3-position fail and CE marked ts have high corrosi	ble acting. 180° doi I to mid (RPC)				
					HP50S	HP63S	HP66S	HP75S
HP88S	HP100S	HP115S	HP125S	HP145S	HP160S	HP180S	HP200S	HP212S



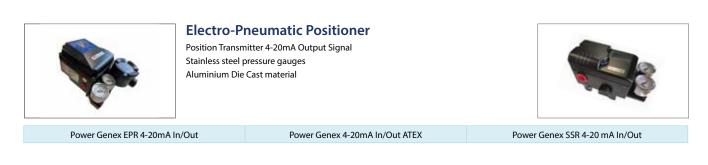
Asco 551 Solenoid Valve

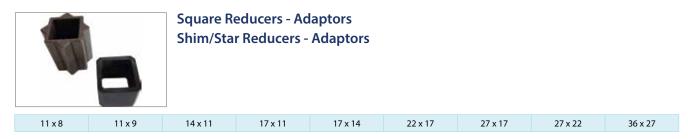
HP115D

3-5/2 Namur Mounted Solenoid Valves Temp: -25°C to +60°C IP65 rated, WP:2 to 10 bar Manifold valves also available LED coils available

		220V		110V		24V AC		24V DC	
--	--	------	--	------	--	--------	--	--------	--







HQ & Auma Electric Actuators





HQ004/HQ006 Electric Actuator - On/Off

220V, 24V & 110V. IP67 rated Manual Override, Position Indicator, Limit Switches Heater, all standard features, ISO 5211 Connections ISO 5211 Connections

Available Ex & IP68 rated

HQ004	24V	110V	220V	HQ006	24V	110V	220V

		HQ005 El	ectric Actua	itor				
100		5	24V C, 110V, 220V					
20	0	IP67 rated, Neu	5					
	55			or, Heater, All Stand	ard features			
1			vith PCU Modulatin	5				
			vith RPB = Battery-I	Васк-Ор				
		Neutral Swi	itching					
On/Off	24V AC/DC	110-230V	PCU	24V AC/DC	110-230V	RBP	24V AC/DC	110-230V

Ê		220V, 24V, 110V IP67 rated, 75%						
	M		ard features, ISO 52 (& IP68 rated	11 Connections				HQ008
		Available Ex	a 1968 ratea					
HQ015	HQ020	HQ030	HQ050	HQ060	HQ080	HQ120	HQ200	HQ300

	1	220V, 24V & 110 IP67 rated, 4-20 Manual Overric		d pr	U Modulatin	g Control		HQ005
HQ006	HQ008	HQ015	HQ020	HQ030	HQ050	HQ060	HQ080	HQ120





TCR Electric Actuators	AUMA Electric Actuators
On/Off - Quick Acting - Fail Safe	SA Multi Turn - SG Quarter Turn



Electric Actuated Valves

Brass Ball Valve - Albion Art.160 c/w HQ Electric Actuator

Available in 220V, 110V. 24V AC or DC Full Bore Screwed BSP PTFE Seats & Seals Also available with HQ003

1⁄2" HQ005	34" HQ005	1" HQ005	1¼" HQ005	11⁄2" HQ005	2" HQ005	21⁄2" HQ005	3" HQ005	

		Available in 220 Full Bore Screw PTFE Seats & Se)V, 110V. 24V AC or ed BSP	DC	5 c/w HQ Ele	ectric Actuat	tor	
1⁄2" HQ005	34" HQ005	1" HQ005	1¼" HQ005	11⁄2" HQ005	2" HQ005	21⁄2" HQ005	3" HQ008	4" HQ015

	Wafer Butterfly Valve - Uniwat VF701PGGE c/w HQ Electric Ac Available in 220V, 110V. 24V AC or DC Wafer Pattern - Nickel Plated Ductile Iron Disc EPDM Liner - other materials available Available in larger sizes							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

	.	Available in 220 Wafer Pattern - EPDM Liner - of	0V, 110V. 24V AC or		701PGIE c/v	v HQ Electri	c Actuator	
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



		Available in 220 Fully Lugged P. EPDM Liner - or	ged Butterfl DV, 110V. 24V AC or attern - 316SS Disc ther materials availa on larger sizes	DC	iwat VF750F	PIE c/w HQ E	lectric Actu	ator
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

Electric - Actuated Valves

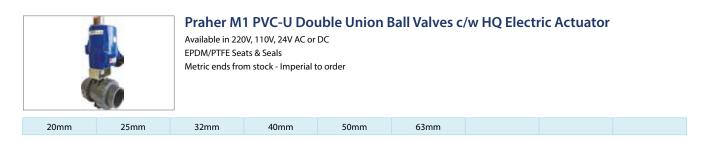


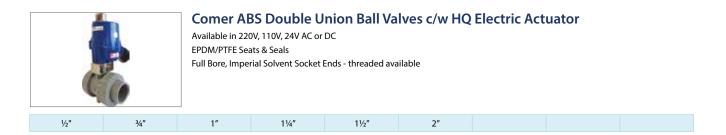
	0	Available in 220 316SS Ball, PTF Flanged PN16, From -30°C to 1	Full Bore		c/w HQ Elect	ric Actuator	r	
15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm

		Available in 220 316SS Ball, PTF Full Bore, Flang From -30°C to 1	ed PN16		E 2528 c/w	HQ Electric /	Actuator	
15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm

		Available in 220 316SS Ball, PTF Full Bore, Flang From -30°C to 1	0V, 110V, 24V AC or E Seats & Seals led PN16 (ANSI 150	DC	E 2528A c/w	v HQ Electric	Actuator	
15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm

	6	Carbon S Available in 22 316SS Ball, PTF Full Bore, Flang From -30°C to 1	v HQ Electric	Actuator				
25m	n 32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm







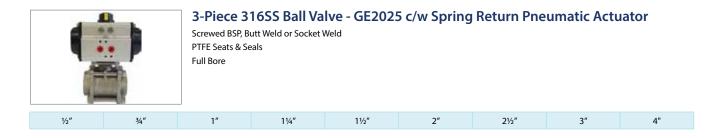


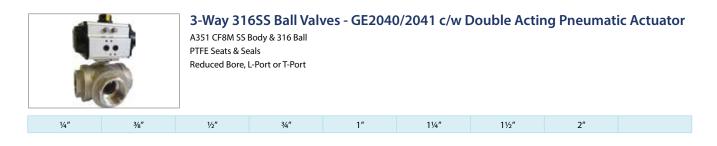
Brass Ball Valve - Albion Art.160 c/w Double Acting Pneumatic Actuator Screwed BSP Full Bore PTFE Seats & Seals

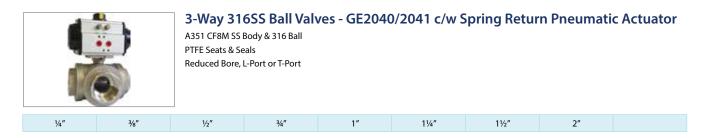
1⁄2″	3⁄4″	1″	1¼″	11⁄2″	2″	21⁄2″	3″	
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		Brass Ball Valve - Albion Art.160 c/w Spring Return Pneumatic Actuator Screwed BSP Full Bore PTFE Seats & Seals							
1⁄2″	3⁄4″	1″	11⁄4″	1½″	2″	21⁄2″	3″		

			utt Weld or Socket		5 c/w Doubl	e Acting Pne	eumatic Act	uator
1/2″	3/4″	1″	11⁄4″	11⁄2″	2″	21/2"	3″	4"











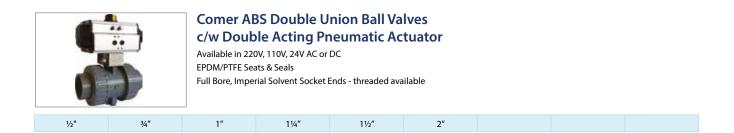
Praher M1 PVC-U Double Union Ball Valve

c/w Double Acting Pneumatic Actuator Available in 220V, 110V 24V AC or DC EPDM/PTFE Seats & Seals Full Bore Socket Ends - threaded available Metric ends from stock - Imperial to order

		c/w Sprin Available in 220 EPDM/PTFE Sea Full Bore Socke	g Return Pn 0V, 110V 24V AV or	vailable			
20mm	25mm	32mm	40mm	50mm	63mm		

		Praher 3-Way PVC-U Double Union Ball Valve c/w Double Acting Pneumatic Actuator Available in 220V, 110V, 24V AC or DC EPDM/PTFE Seats & Seals Full Bore, Imperial Solvent Socket Ends - threaded available						
20mm	25mm	32mm	40mm	50mm	63mm			

Praher 3-Way PVC-U Double Union Ball Valve c/w Spring Return Preumatic Actuator Available in 220V, 110V, 24V AC or DC EPDM/PTFE Seats & Seals Full Bore, Imperial Solvent Socket Ends - threaded available 20mm 25mm 32mm 40mm 50mm 63mm 63mm



	5	c/w Sprin Available in 220 EPDM/PTFE Sea	g Return Pn DV, 110V, 24V AC or ats & Seals	nion Ball Va neumatic Act DC Ends - threaded ava	uator		
1/2"	3/4"	1″	1¼″	11/2″	2″		





Wafer Butterfly Valve - Uniwat VF701PGGE

c/w Double Acting Pneumatic Actuator

Ductile Iron Body, PN10/16/ANSI 150 Flanging

Nickel Plated Ductile Iron Disc, EPDM Liner, other materials available

Available up to 1000mm

50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

	Wafer Butterfly Valve - Uniwat VF701PGGE c/w Spring Return Pneumatic Actuator									
-000	ł	Nickel Plated D	dy, PN10/16/ANSI 1 Ductile Iron Disc, EPE I P to 1000mm	5 5	erials available					
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm		

		c/w Doub Ductile Iron Boo 316 Stainless St	dy, PN10/16/ANSI 1	- Uniwat VF neumatic Ac 50 Flanging er, other materials a	tuator			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

•		c/w Sprin Ductile Iron Bo 316 Stainless St	g Return Pn dy, PN10/16/ANSI 1	- Uniwat VF eumatic Act 50 Flanging er, other materials a	uator			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

		c/w Doub Cast Iron Body, Nickel Plated D	DIE Acting Pr PN10/16/ANSI 150	neumatic Ac		GE		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

		c/w Sprin Cast Iron Body, Nickel Plated D	g Return Pn PN10/16/ANSI 150	eumatic Act		GE		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm





Fully Lugged Butterfly Valve - Uniwat VF750PIE

c/w Double Acting Pneumatic Actuator

Cast Iron Body, PN10/16/ANSI 150 Flanging

316 Stainless Steel Disc, EPDM Liner, other materials available

Available up to 600mm

50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

	5	c/w Sprin Cast Iron Body, 316 Stainless S	ged Butterfl g Return Pn PN10/16/ANSI 150 teel Disc, EPDM Lind p to 600mm	eumatic Act	uator	ΊΕ		
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

	54	c/w Doub 316 SS Ball, PTF Flanged PN16,	on Ball Valve ble Acting Pr E Seats & Seals Full Bore, From -30° p to 200mm	neumatic Ac	tuator			
15mm	20mm	25mm 32mm 40mm 50mm 65mm 80mm 100mm						

	C/W 316 SS Flange	tile Iron Ball Val Spring Return P Ball, PTFE Seats & Seals d PN16, Full Bore, From -3 Cable up to 200mm	neumatic Ac	tuator			
15mm	20mm 25n	im 32mm	40mm	50mm	65mm	80mm	100mm



		c/w Sprin 316 SS Ball, PTF Flanged PN16,	g Return Pn E Seats & Seals	all Valve - GE eumatic Act	tuator			
15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm



Far Motorised Valves





FAR 2-Way Zone Control Valve

1¼″

1″

Brass Body & Ball, PTFE Seats, EPDM O-Rings Available in 230V & 24V AC With manual release lever Protection Level IP54 Available with Male/Male, Male/Female, Female/Female connections



FAR 3-Way Diverter Zone Control Valve

Brass Body & Ball, PTFE Seats, EPDM O-Rings Available in 230V & 24V AC With manual release lever Protection Level IP54 Available with Male/Male, Male/Female, Female/Female connections

	1⁄2″	3/4″	1″	1¼″					
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FAR 2-Way Zone Control Valve

Brass Body & Ball, PTFE Seats, EPDM O-Rings Available in 230V & 24V AC With manual release lever and automatic reset Protection Level IP65 Available with Male/Male, Male/Female, Female/Female connections



FAR 3-Way Diverter Zone Control Valve

Brass Body & Ball, PTFE Seats, EPDM O-Rings Available in 230V & 24V AC With manual release lever and automatic reset Protection Level IP65 Available with Male/Male, Male/Female, Female/Female connections



FAR 3005-3006 3-Point Actuator

230V or 24V 3 Point actuator with manual release With Auxilliary Microswitch Cable length 1m Rotation time 40 seconds (8 sec available) IP54 Protection Level

230V

FAR 3039-3040 3 Point Actuator

230V or 24V 3 point actuator with manual release ISO 5211 Connection Double Cable Gland PG11 Opening/Closing time 30-80 seconds IP65 Protection Level

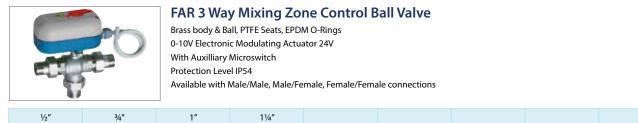
24V

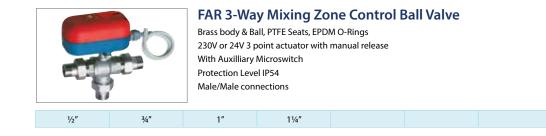
24V



Far Motorised Valves

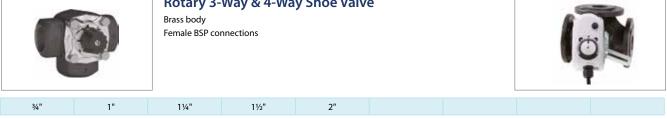


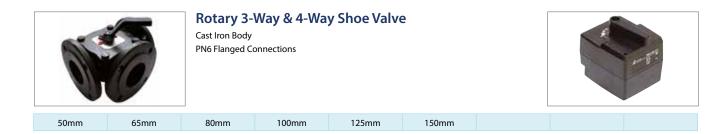






24V 3012 24V Rotary 3-Way & 4-Way Shoe Valve







Other Brands Available - Sauter - Siemens - Danfoss



Hora Control Valves





Hora BR216RA Two Way Valve

Bronze Construction, Screwed BSP External Thread with Unions Power supply 24 V AC or 230 V AC, 50-60 Hz Input and Output signal Y 0....10V DC, Alternatively Y 2....10V DC/4-20mA or 3 Point Temp: -15°C to 150°C, PN16 Rated, Max 90°C for drinking water

1/2″	3⁄4″	1″	1¼"	1½"	2"		



Hora BR316RA Three Way Valve

Bronze Construction, Screwed BSP External Thread with Unions Power supply 24 V AC or 230 V AC, 50-60 Hz Input and Output signal Y 0....10V DC, Alternatively Y 2.....10V DC/4-20mA or 3 Point Temp: -15°C to 150°C, PN16 Rated, Max 90°C for drinking water

1/2″	3/4″	1″	1¼"	11⁄2"	2"			
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Hora Two Way Control Valve - Electric

Cast Iron, SG Iron, Cast Steel, Stainless Steel Flanges PN16/25/40, up to 250 mm Power supply 24 V AC or 230 V AC, 50-60 Hz Input and Output signal Y 0....10V DC, Alternatively Y 2.....10V DC/4-20mA or 3 Point

15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm



Hora Three Way Control Valve - Electric

Cast Iron, SG Iron, Cast Steel, Stainless Steel Flanged PN16/25/40, up to 250mm Power supply 24 V AC or 230 V AC, 50-60 Hz Input and Output signal Y 0....10V DC, Alternatively Y 2.....10V DC/4-20mA or 3 Point

15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100







Zubi Knife Gate Valves Unidirectional



T200EV Cast Iron Knife Gate Valve - Manual Unidirectional, AISI 304 SS Gate, EPDM Seat PN10 Flanging - Please add 10% for PN16, ANSI 150 Handwheel Operated Available up to DN1200 80mm 50mm 65mm 125mm 150mm 250mm 100mm 200mm 300mm 350mm 400mm 450mm

ĺ		Unidirectional, PN10 Flanging	AISI 304 SS Gate, Ef - Please add 10% fo Pneumatic Cylinde	PDM Seat or PN16, ANSI 150	Gate Valve -	DA Pneuma	atic	
							65mm	80mm
100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm

Į.	T200E Ca Unidirectional, PN10 Flanging Available up to Non Rising Ster	- ISO Top					
					50mm	65mm	80mm
**							
100mm 125mm	n 150mm	200mm	250mm	300mm	350mm	400mm	450mm

		AISI 316 SS Boo	dy & Gate, EPDM Se - Please add 10% f erated		e Valve - Mai	nual		
						50mm	65mm	80mm
~								
100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm



	Ļ	Unidirectional,	AISI 304 SS Gate, EF N10 Flanging - Plea erated	Dife Gate Val PDM Seat se add 10% for PN1		gged		
X	A.					50mm	65mm	80mm
	rg.							
100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm

		Bidirectional, Al PN10 Flanging Handwheel Ope	ISI 304 SS Gate, NBI - Please add 10% fo	fe Gate Valve R Seats or PN16			(ZUBI
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
ļ	natic							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
		Bidirectional, Al PN10 Flanging Handwheel Ope	SI 316 SS Body & G - Please add 10% fo	Gate, NBR Seat or PN16, ANSI 150	Marida			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
			t. Steel Knif	o Gato Valvo	Various			
		PN10 Flanging - Rising stem or N	arious Body, gate au - Please add 10% fc Non Rising Stem atic, ISO Hydraulic	nd seal materials ava or PN16				
50mm	65mm	PN10 Flanging - Rising stem or N	- Please add 10% fo	nd seal materials ava or PN16		200mm	250mm	300mm
50mm	65mm	PN10 Flanging - Rising stem or N Manual, Pneum	Please add 10% fo Non Rising Stem latic, ISO Hydraulic 100mm	nd seal materials ava or PN16 125mm	ailable. 150mm	200mm	250mm	300mm
50mm	65mm	PN10 Flanging - Rising stem or N Manual, Pneum	Please add 10% fo Non Rising Stem latic, ISO Hydraulic 100mm	nd seal materials ava or PN16	ailable. 150mm	200mm	250mm	300mm
50mm	65mm	PN10 Flanging - Rising stem or N Manual, Pneum	Please add 10% fo Non Rising Stem latic, ISO Hydraulic 100mm	nd seal materials ava or PN16 125mm	ailable. 150mm	200mm	250mm	300mm

B METERS metering solutions	B-Meter Water Meters GSD8-I Cold Water Meter c/w Unions Single Jet Super Dry Dial 8 Rolls Max temp 50 deg C 360 deg rotating dial MID R100 Available to order prepared for remote reading Available to order with pulse transmitters and modules		ALMAA WRAS PPROVED PRODUCT
1/2" 3/4"	With pulse transmitter	1/2″	3⁄4″ IMP001
	GSD8-I Hot Water Meter c/w Unions Single jet Super Dry Dial 8 Rolls Max temp 90 deg C 360 deg rotating dial MID R100 Available to order prepared for remote reading Available to order with pulse transmitters and modules		APPROVED PRODUCT
1/2" 3/4"	With Pulse transmitter	1/2″	3⁄4" IMP001
	GMDM-I Cold Water Meter c/w Unions Multijet super dry Dial Max temp 50 deg C, 360 deg rotating lid up to DN32 IWM-PL3 module preset at 1 Pulse per 10 litres (Adjustable) Add cost of IWM-PL3 for Pulse Output Mbus modules also available		APPROVED PRODUCT
1/2" 3/4"	1″ 1½″ 1½″ 2″	50mm	Pulse IWM-PL3
	GMDM-I Hot Water Meter c/w Unions Multijet super dry dial Max temp 90 deg C, 360 deg rotating lid up to DN32 IWM-PL3 module preset at 1 Pulse per 10 litres (Adjustable) Add cost of IWM-PL3 for Pulse Output Mbus modules also available		APPROVED PRODUCT
1/2" 3/4"	1" 1½" 1½" 2"	50mm	Pulse IWM-PL3
(WDE-K50 Woltmann Cold Water Meter Max temp 50 deg C, 360 deg rotating dial Add cost of IWM-PL4 for Pulse Output Conform to ISO4064, Class B as standard Flanged PN16 Mbus modules also available		APPROVED PRODUCT
50mm 65mm	80mm 100mm 125mm 150mm	200mm	Pulse IWM-PL4
	WDE-K50 Woltmann Hot Water Meter Max temp 90 deg C, 360 deg rotating dial Add cost of IWM-PL4 for Pulse Output Conform to ISO4064, Class B as standard Elanged PN16		APPROVED PRODUCT

50mm 65mm 80mm 100mm 125mm 150mm 200mm Pulse IWM-PL4

Flanged PN16

Mbus modules also available



B-Meter Heat Meters





Hydrocal M4 Thermal Energy Meter

Compact Type, Single Jet Max temp 105 deg C, Screwed BSP Male Also available additional integrated and external modules for remote reading (MBUS, Wireless MBUS & Pulse output) Qp - Nominal flow rate shown beside sizes

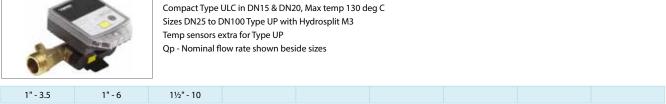
1⁄2″ - 0.6 1⁄2″ - 1.5

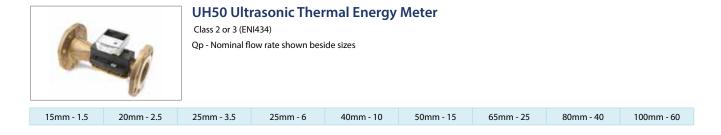
3⁄4″ - 2.5

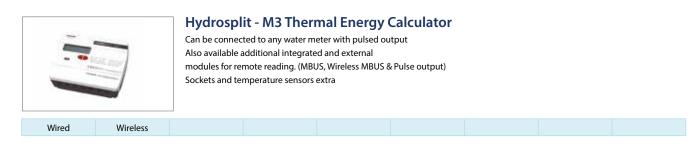
		Compact Type I Max temp 105 o PT 500 (1.5m)	JLC	asonic Therm	ial Energy N	leters		
Radio WM Bus	1⁄2"- 0.6	1⁄2" - 1.5	³ ⁄4" - 2.5	Wired M-Bus	1⁄2" - 0.6	1⁄2" - 1.5	³ ⁄4" - 2.5	

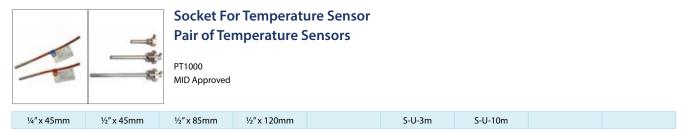


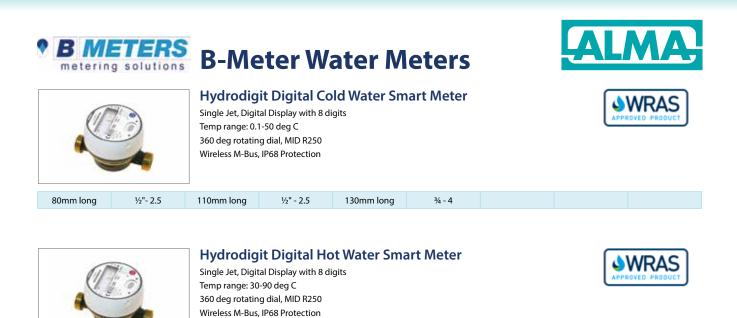
Hydrosonis UP Ultrasonic Thermal Energy Meter











80mm long	1⁄2"- 2.5	110mm long	1⁄2" - 2.5	130mm long	³ ⁄4 - 4		

		Multijet, Dry D Up to 120 deg Can be combir Antimagnetic f	ot Water Me ial, Direct Reading, C, To EN 1434 ned with Hydrosplit fraud protection, Ar flow rate shown be	Pulse Output thermal energy ca nti-condensation d		
1″-3.5	1¼″-6	11⁄2″ - 10				

	Z	Multijet Dry Dia Flanged PN16, Can be combin	ot Water Me al, Direct Reading, F Up to 130 deg C, Ta ed with Hydrosplit ow rate shown bes	Pulsed Output o EN 1434 thermal energy calo	culator			
50mm - 15	65mm - 25	80mm - 40	100mm - 60	125mm - 100	150mm - 150	200mm - 250	250mm - 400	300mm - 600





GSD8-RFM Hot Water Meter C/W Unions

Single Jet Super Dry Dial 8 Rolls Max temp 90 deg C 360 deg rotating dial, MID R100 Prepared for remote reading

APPROVED PRODUCT



LMA B-Meter Water Meters



Pulse Adder

		Tangential Wate Dry Dial Conform to ISO Cold Water 0°C			er
50mm	65mm	80mm	100mm	125mm	

150mm

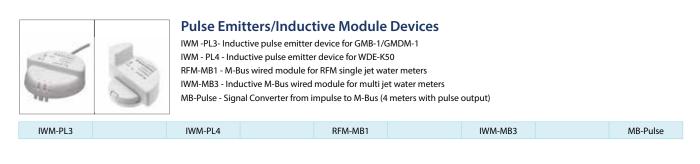
200mm

		Dry Dial, Rotati Conform to ISC	tman Water Meters ng ring 360° 94064, Class A 10°C, Flanged PN16		AP	PROVED PRODUCT
250mm	300mm	400mm	500mm			Pulse Adder

MAG-C Electromagnetic Flow Meter



		IP68 Protection Flanged PN16 Low pressure o Cold water 0.16	•		ter		APPROVED PRODUCT
50mm	65mm	80mm	100mm	125mm	150mm	200mm	Pulse Adder



Ale .		IMP004 - for GM IMP005 - WDE- IMP007 - WDE	SD, GMDX, GMDM - MB-RP, CPR-RP - IMP	IMP002 with Anti F 1003 with Anti Frauc (40 (DN200) - IMP0(0 only)	l Signal	Signal		
IMP001	IMP002	IMP003	IMP004	IMP005	IMP006	IMP007	IMP008	IMP009



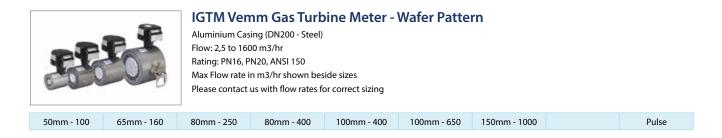


	and the second s	Metrix Ga	as Meter - Di	aphragm Ty	pe		
A Common Tan	CTRACT 2	Flow: 0.04 to 40) m3/hr				
No. of Concession, Name	THE REAL PROPERTY OF	BSP Unions					
	The second second	Complete with	Pulse Output				
	- t	Please contact	us with flow rates fo	or correct sizing			
		Other sizes/ran	ges available to orc	ler			
3⁄4" UG G4	1" 2UG G6	1¼" UG G10	1¼" UG G16	2" UG G25			

		Flow: 0.04 to 40 BSP Unions Complete with) m3/hr	cer - Diaphra	gm Type		
20mm G4P	25mm G6P	30mm G10P	50mm G16P	50mm G25P			

			Screwed BSP Co c/w Pulse Outp Flow: 1.6 to 100 Max Flow rate i	ut	side sizes				
QA 1 - 10 1 - 23 1 - 40 1 /2 - 65 1 BA 1 /4 - 30 1 /2 - 30 Z - 100	QA	1″-16	1" - 25	1" - 40	11⁄2" - 65	TBX	1¼" - 30	1½" - 30	2" - 100

		Screwed BSP Co c/w Pulse Outp Flow: 1.6 to 100 Max Flow rate i	onnections ut		eter			
1" G16/25	1" G25/40	1¼" G16/25	1¼" G25/40	1½"G40/65	1½" G65/100	2" G40/65	2" G65/100	



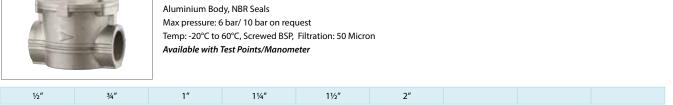
Flow: 6 to 1000 m3/hr Please contact us with flow rates for correct sizing	
50mm 65mm 80mm 100mm 150mm 200mm	Pulse Plug

	MA,	Gas S	Solenc	g	9009					
		Auto Reset, pr Aluminium Boo Temp range: -2	De AV Autom hax 360 mbar, IP65 (dy, Screwed BSP/Fla 0°C -60°C, Approva 2: 230V, 110V 24V D							
Available slow opening and normally open							1⁄2"	3⁄4"		
1"	1¼″	11⁄2″	2″	65mm	80mm	100mm	125mm	150mm		

		Manual Reset, J Brass Body, Scr Approval EN16	omax 550 bar, IP65	(available pmax 6 b PN10, Temp range I second		S		
1⁄2″	3/4″	1″	11⁄4″	11⁄2″	2″	65mm	80mm	100mm



Geca Gas Filters

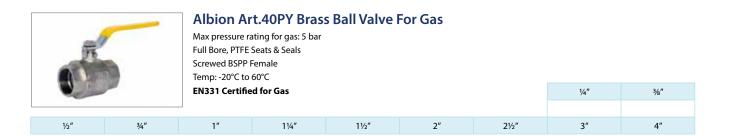




Geca Gas Filters

Aluminium Body, NBR Seals Max Pressure: 6 bar/ 10 bar on request up to 100mm Temp: -20°C to 60°C, Flanged PN16, Filtration: 50 Micron Available with Test Points/Manometer

		25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm
--	--	------	------	------	------	------	------	-------	-------	-------



		Ductile Iron Rilsa Zinc Plated Duct	an Coated Body, Nit tile Iron Disc 10 position Notchp	rile Seats	Valve for Gas n Gearboxes			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



Gas Governors



Geca Gas Governors - Screwed BSP

Die-Cast Aluminium Body, NBR Seals Inlet: Max. 500 mbar Setting Outlet: 10-130mbar Std Spring 10 -27 mbar others on request, Temp : -20°C to 60°C

Available with filter, test point

1/2″	3⁄4″	1″	11⁄4″	11⁄2″	2″		

r		Geca Gas	Governors -	- Flanged Pl	116				
		Die-Cast Alumi	nium Body, NBR Sea	als					
5 mil	No.	Inlet: Max. 500 mbar							
A NO	and the	Setting Outlet:	10 - 130mbar						
	De De	Std spring 10 - 2	27 mbar other on re	equest, Temp: -20°0	to 60°C				
N.K.	3.58	Available w	ith filter, test p	point					
65mm	80mm	100mm							



Geca Gas Governors - Screwed BSP

Die-Cast Aluminium Body, NBR Seals Inlet: Max 1 bar Setting Outlet: 10 - 130mbar Std spring 10 - 27 mbar others on request, Temp: -20°C to 60°C

Available with filter, test point

1/2″	3/4″	1″	1¼″	11⁄2″	2″		



Geca Gas Governors - Flanged PN16

Die-Cast Aluminium Body, NBR Seals **Inlet: Max 1bar** Setting Outlet: 10 - 130mbar Std spring 10 - 27 mbar others on request, Temp: -20°C to 60°C

Available with filter, test point

65mm 80mm

100mm



Geca Gas Governors - Screwed BSP

Die-Cast Aluminium Body, NBR Seals Inlet: Max 2 bar Setting Outlet: 10 - 130mbar Std spring 10 - 27mbar others on request, Temp: -20°C to 60°C

Available with filter, test point

/2 /4 I I/4 I/2 Z

		Geca Gas	Governors	-Flanged PN	16				
		Die Cast Alumi	nium Body, NBR Sea	als					
S-1	A NIL	Inlet: Max 2 ba	r						
A NO	and Sa	Setting Outlet:	Setting Outlet: 10 - 130mbar						
	LE DE	Std spring 10 - 27mbar others on request, Temp: - 20°C to 60°C							
N.K.	₹ ₩ ₩	Available w	vith filter, test p	point					
65mm	80mm	100mm							







GECA CTM21/SE128K Central Unit for One Remote Sensor

IP65, Power Supply: 230V AC 50-60Hz, 12-24Vcc Wall Installation, Test & Reset Function Alarm Level 10% LEL - 20% LEL, Measuring Range 0÷20% LEL Sensors Methane LPG, Output No. 3 relays: Capacity 230V 3A SPDT

Gas Detection

SE128K



GECA CTP26 Central Unit For Four Remote Sensors

IP65, Power Supply: 110÷240Vac (-15/+10%) 50÷60Hz, 10VA Auxiliary power supply: 24VDC (-10/+15%) /12W Standard Range 0÷20% LIE/LEL, -0÷100% LIE/LEL +300 ppm CO Sensors Methane LPG CO2 Output No. 3 relays: Capacity 230V 3A SPDT

SE194K

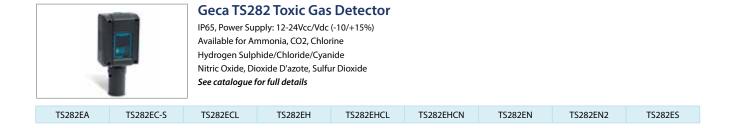


GECA ST441/SE192 Gas Detector

IP44 Rated Powered by Control Unit Range: 0-20% LEL

Sensor for Methane & LPG

SE192KM	SE192KG				









Toraflex Rubber Bellows





Toraflex S30-E EPDM Rubber Bellows

Twin Sphere, Galv. Unions, Screwed BSP Max pressure: 16 bar, Max temp: 110°C See O&M for installation guidelines

A	lso availab	le in Nitrile	e Buna Rubber	(NBR)
---	-------------	---------------	---------------	-------

		3/4″	1″	11⁄4″	1½″	2″	21/2″	3″	
--	--	------	----	-------	-----	----	-------	----	--

		Single Sphere, I Max Temp 110° Length: 130mm		able				
10	17					25mm	32mm	40mm
-	•							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

		Single Sphere, Max Temp 90°C Length: 130mn	Mild Steel Flanges, , Max Pressure 16 b n, Larger sizes availa for movements	Flanged PN16 (ANS par @ 20°C				
10		See O&M for in	stallation guideline	s		25mm	32mm	40mm
	-							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

		Tie Rods S Limiting Tie Rods Also available for		Bellows				40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



G	Ó		Aild Steel Flange bar	Rubber Bel	lows - PN6		
32mm	40mm	50mm	65mm	80mm	100mm		



Metallic Expansion Joints



Toraflex S250 Metal Compensators

AISI 321SS Bellows & Inner Sleeve Butt Weld Ends in Carbon Steel See data sheet for movements See O&M for installation guidelines

See data sheet	for movements					
See O&M for in	stallation guidelines	5				
			20mm	25mm	32mm	40mm
80mm	100mm	125mm	150mm	200mm	250mm	300mm

2"

21⁄2"

		AISI 321SS Bell PN16 Flanged I See data sheet	5500 Metal C ows & Inner Sleeve Ends in Carbon Stee for movements stallation guideline:	-	rs			
							32mm	40mm
5.0 S	0							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

	Į,	Membrane: 310 Inner: 316 stair Ends: 316 stain See data sheet	wed Axial Ex 5 stainless steel hless steel flow sleev less steel BSPT make for movements stallation guideline	ves e ends	nts
1⁄2"	3⁄4"	1"	1¼"	1½"	



		Membrane: 316 Inner: 316 stain Ends: Mild Stee	5 stainless steel less steel flow sleev	ves vinless Steel availabl			APPROVED	PRODUCT
1.3		See O&M for in	stallation guideline	s			32mm	40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm





Elafle	x, Anc	hors &	Guide	es				MA.
		Single Sphere, Max Temp 90°C Max Pressure 1	Mild Steel Flanges, C, Temporarily up to 6 bar @ 20°C	EPDM Bello Flanged PN16 (ANS > 120°C als for special of	il 150 on request)		APPROVED	RAS
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm
				Band Nitrile				

		Single Sphere, Max Temp 90°C	Mild Steel Flanges, , Max Pressure 16 b n other materia	Flanged PN16 (ANS oar @20°C	l 150 on request)			
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

		Single Sphere, Max Temp 100 Max Pressure 1	Mild Steel Flanges, °C, Temporarily up 6 bar@ 20°C	nd EPDM Be Flanged PN16 (ANS to 120°C als for special o	l 150 on request)	S	APPROVED	PRODUCT
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm



Type SS/SSN Double Sliding Guide Set

For steel, copper or stainless steel pipework SSM for DN80-100 **Pipe Clips not included**

	ALL REAL		B Cleated An inless steel pipewor		t		
20mm	25mm	32mm	40mm	50mm			

	A MARTINE	Rubber lined	BN Cleated A	nchor Brack	ket		
15mm	22mm	28mm	35mm	42mm	54mm	67mm	



Pressure Gauges

B401 HVAC Industry 100mm Pressure Gauges

Bottom & Entry, Black Steel Case, 304SS Bezel Thread Standard %" BSP or optional ½" BSP Accuracy: Class 1.6± 1.6% to EN 837-1 Other pressure ranges available

Bottom 0-1 bar 0-4 bar 0-7 bar 0-11 bar Back 0-7 bar 0-11 bar

B422 Calibrated and B462 Steam -100mm Pressure Gauges



Bottom Entry, Stock ranges listed, Back Entry also available Thread Standard $\frac{1}{2}$ " BSP or $\frac{3}{8}$ " BSP to order Accuracy: Class 1.6 \pm 1.6% to EN 837-1 Other pressure ranges available

Calibrated	0-11 bar	0-16 bar	0-20 bar	0-28 bar	Steam	0-7 bar	0-11 bar	0-16 bar

	GE 3822 63mm SS Case Pressure Gauges							
	1⁄4" BSP Thread, Accuracy: Class Bottom Entry	AISI 304 Case, Bras , Glycerine Filled s 1.6± 1.6% to EN 83 e ranges available	s Bourdon Pipe & Co 37-1	onnector				
0-2.5 bar 0-6 bar	0-10 bar	0-16 bar	0-25 bar	0-40 bar	0-60 bar	0-100 bar		

		GE 3829	63mm SS Ca	se Pressure	Gauges			
C	G	¼" BSP Thread Accurancy: Cla Back Entry	AISI 304 Case, Brass , Glycerine Filled ss 1.6± 1.6% to EN & ranges available	: Bourdon Pipe & Co 337-1	onnector			
0-2.5 bar	0-6 bar	0-10 bar	0-16 bar	0-25 bar	0-40 bar	0-60 bar	0-100 bar	



F		GE 3824	100mm Staiı	nless Steel P	ressure Gau	ges				
1.20	2	Stainless Steel	AISI 304 Case, Boud	on Pipe & Connecto	or					
	F -1.1	1/2" BSP Thread, Bottom Connection								
		Glycerine Filled								
			5 1.6 ± 1.6% to EN 83	37-1						
	183	Other pressure	ranges available							
	MEN'S									
0-2.5 bar	0-4 bar	0-6 bar	0-10 bar	0-16 bar	0-25 bar	0-40 bar	0-60 bar	0-100 bar		

Pressure Gauges

³∕8"CS

½"CS

3∕8"SS

1⁄2"SS



	in the second se	Stainless Steel	00mm Stair AISI 304 Case, Brass Back Connection			ges	
		Glycerine Fillec Accuracy: Class		37-1			
-1/+1	0-1.6 bar	0-2.5 bar	0-4 bar	0-6 bar	0-10 bar	0-16 bar	

	SF 1635 Capsule Pressure Gauges 100mm Dial, Low Pressure Stainless Steel AISI 304 Case ½2" BSP Thread, Bottom Connection Accuracy: Acc to EN837-3-IP31
0-6 mbar 0-100 mbar	0-250 mbar 0-400 mbar 0-600 mbar

10 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -)	Bottom Entry, C 63mm dial with 80mm Dial with 100mm Dial wi	S Pressure G Grey Steel Case, Bran 1 ¹ /4" connection 1 ¹ /6" connection 1 10/250/400/600 r	ss Connection		
63mm		80mm		100mm		







Thermometers

e

Thermometers - HVAC Industry Bimetallic

Black Steel Case, 304SS Bezel 100mm Dial: Dual Scale °C (outer) & °F (inner) Vertical Bottom Entry, ½" BSP, Accuracy: ± 1.6% FSD Standard ranges: -30/+60°, 0/120° Also stocked in 0/160°C & 0/250°

100mm Dial - 30/+60°, 50mm pocket

100mm dial 0/+120°, 50mm pocket

100mm Dial 0/+120°, 100mm pocket



Thermometers - HVAC Industry Bimetallic

Black Steel Case, 304SS Bezel 100mm Dial: Dual Scale °C (outer) & °F (inner) Back Entry, $\frac{1}{2}$ " BSP, Accuracy: \pm 1.6% FSD Standard ranges: -30/+60°, 0/120° Also stocked in 0/160° & 0/250°

100mm Dial - 30/+60°, 50mm pocket	100mm dial 0/+120°, 50mm pocket	100mm Dial 0/+120°, 100mm pocket
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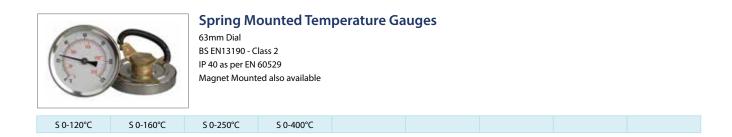


GE 8032 - GE 8034 Thermometers

Zinced Steel Case, Brass Probe & Pocket 63mm Dial: dual scale °C (outer) & °F (inner) Back, ½" BSP, Accuracy: ± 2.5% FSD 8032 - 50mm Pocket Length 8034 - 100mm Pocket Length

50mm	BK -30/+60°	BK 0/+60°	BK 0/+120°	100mm	BM -30/+60°	BM 0/+60°	BM 0/+120°

13	The	GE 8033 -	GE 8035 Th	ermometer	5						
4		Zinced Steel Case, Brass Probe & Pocket									
1	and the second se	63mm Dial: dua	3mm Dial: dual scale °C (outer) & °F (inner)								
	101	Bottom Entry, 3	Bottom Entry, ½" BSP, Accuracy: ± 2.5% FSD								
	1	8033 - 50mm P	8033 - 50mm Pocket Length								
		8035 - 100mm	8035 - 100mm Pocket Length								
50mm	BK -30/+60°	BK 0/+60°	BK 0/+120°		100mm	BM -30/+60°	BM 0/+60°	BM 0/+120°			





High Temp/Pressure - Hydrometer - Electrical Contacts - Industrial Meters



Thermometers

			1⁄2" BSP	ers				
M -30/+50°	0/+120°	0/+160°	0/+200°		Thermowell	Brass	St. Steel	

6		SF 1681 T	hermomete	ers						
G		All Stainless Steel, 304SS Bezel								
0	-3/	100mm Dial, Cl	ass 2, IP31							
	Bottom Entry, ½" BSP									
1	100mm Probe									
	1	Add thermow	ell price							
M -30/+50°	0/+120°	0/+160°	0/+200°		Thermowell	Brass	St. Steel			

alle a	-	All Stainless Ste 100mm dial, Cla Back Entry, ½" E 77mm probe Add thermowe	ass 2, IP31 3SP				
M -30/+50°	0/+120°	0/+160°	0/+200°	Thermowell	Brass	St. Steel	

-	SF 1686 T All Stainless Ste 100mm Dial, Cla Back Entry, ½" E 100mm Probe Add thermowe	ss 2, IP31 SP	rs			
M -30/+50° 0/+120°	0/+160°	0/+200°	Thermowell	Brass	St. Steel	







Brass Thermowells For SF Thermometers

½" BSP for 10mm probes For 63mm probe - 65mm insertion For 100mm probe - 86mm insertion

63mm	100mm				



Air & Dirt Separators

50mm 65mm

Vira SC-F Air & Dirt Separator

Carbon Steel Body & Internals Max. Pressure: 10 bar, Max Temp: 110°C Flanged PN16, also Weld or Grooved available to order Available up to 600mm

0-	1 mar							
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm



Vira SCX-M-F Magnetic Hydraulic Separator								
l l			10 bar, Max temp:1 also Weld or Groove		r			
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

FAR 2164 Hydraulic Separator Painted Steel Body Max. Pressure: 10 bar Max Temp: 100°C With anti-condensation insulation Including auto air vent with shut-off valve and drain cock







Air & Dirt Separators



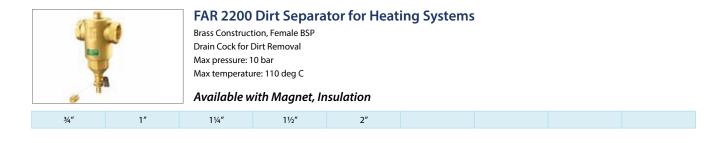


FAR 2220 Air & Dirt Separator

Brass Construction, Female BSP Swiveling Air Vent Valve, Drain Cock for Dirt Removal Max pressure: 10 bar Max temperature: 110 deg C

Available with Magnet, Insulation





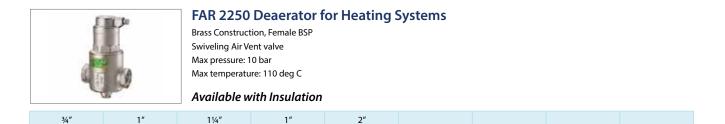


FAR 2205 Dirt Separator with Magnet

Brass Construction, Female BSP Drain Cock for Dirt Removal Max pressure: 10 bar Max temperauture: 110 deg C

Available with Insulation

3⁄4″	1″	1¼″	1½″	2″		







Automatic Air Vents



Brownall Automatic Air Eliminator

Bronze Body & Dome ½" Male BSP Inlet Max Temperature: 93 deg C (Higher on request) Max Pressure: 10 bar (Higher on request) Min pressure: 0.15 bar

	AE-A	AE-B	AE-C	AE-D	AE-MPHW-015	AE-MPHW-F	AE-MPHW-H	AE-MPHW-016	AE-MPHW-150
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FAR 2055 Automatic Air Vents - Angle Pattern

Brass Housing Max Temperature: 110°C Max Pressure: 10 bar



Microvent Stainless Steel Automatic Air Vent Stainless Steel Body EPDM Seal, PE Rubber Float Max Temperature: 110°C

Max Temperature: 110°C Max pressure: 10 bar



CSA Ventolo Air Release Valve Body & Cap in GS 400-15 Epoxy Coated Float in stainless steel, NBR Gasket CSA Argo Combination Air Valve Body & Cap in Glass Reinforced Polypropelene (GRPP) Max pressure 16 bar, Min pressure 0.3 bar

PN25



Argo



Flamco Flexvent

PN16

Minimum/Maximum operating temperature: -10°C/90°C (peak load:120°C) Minimum/Maximum operating pressure: 0.2/6.0 bar (peak load: 10.0 bar) Brass housing material

PN40



Reflex Expansion Vessels



	þ	Expansio Carbon Steel 10 bar Rated Te Synthetic Rubb		^r Heating				
8 litre	12 litre	18 litre	25 litre	35 litre	50 litre	80 litre	100 litre	140 litre

	-)	Expansio Carbon Steel 10 bar Rated, Te Synthetic Rubb		Heating				
200 litre	300 litre	400 litre	500 litre	600 litre	800 litre	1000 litre	1500 litre	3000 litre

		Expansio Some sizes ava Carbon Steel 10 bar Rated, To Synthetic Rubb	emp: Max 70°C	r Potable Wa	ater		APPROVED	PRODUCT
8 litre	12 litre	18 litre	25 litre	33 litre	50 litre	80 litre	100 litre	140 litre

		Expansio	n Vessels Fo	r Potable Wa		WRAS					
	-	Some sizes ava	Some sizes available with legs								
		Carbon Steel	Carbon Steel								
		10 bar rated, Te	10 bar rated, Temp: Max 70°C								
		Synthetic Rubb	er Diaphragm								
		Horizontal avai	lable								
L.											
200 litre	300 litre	400 litre	500 litre	600 litre	800 litre	1000 litre	1500 litre				

		Flow Through Expansion Vessels Carbon Steel 10 bar Rated Temp: Max 70°C Synthetic Rubber Diaphragm							
8 litre	12 litre	18 litre	25 litre	35 litre	60 litre	80 litre	100 litre	200 Litre	

		Flow Three Carbon Steel 10 bar Rated Te Synthetic Rubb	emp: Max 70°C	sion Vessels			
300 litre	400 litre	500 litre	600 litre		Flow jet	3⁄4"	



Reliance Water Control Products

Reliance Tenant Valve Plus



SWRA



A one piece WRAS approved control manifold incorporating an extended lever isolating ball valve WRAS approved as a stop cock a cartridge type pressure reducing valve, a pressure gauge, a water meter connection point and double check valve





& Pressure Reducing Valve This all in one design reduces leak potential and saves

Combined Thermal Balancing Valve



3⁄4" x 1"

1⁄2" x 3⁄4"

installation time & cost



1¼" x 1½"

1" x 1¼"



2/2" 34"

Reliance Thermal Balancing Valve DZR Brass Body, Female BSP Temperature range: 35°C - 60°C Max Temperature: 100°C, pressure rating: PN10 Incl disinfection module and gauge Pre-insulated







Reliance BVAL Brass Ball Valve Full Bore, PTFE Seats 10 bar Rated, Temp: Max 85°C Compression Ends for Metric Copper



1½" x 2"

2" x 2½"



1" x 600

Fixaflex Braided Hoses

		SS Braided EPDM Flexible Hose - Male X Female									
		Superflex Inox	25, Braided Stainles	s Steel AISI 304							
		Swivel Female X Male BSPT									
-	0.11	Temperature R	ange - 20°C to +95°	с							
-		Selection of stock hoses priced									
		Made to order - any length - any fitting combination									
All Assemblies come with a 10 Year Guarantee											
½" x 300	3⁄4" x 300	1" x 300	½" x 450	¾" x 450	1" x 450	½" x 600	³⁄4" x 600	1" x 600			

	7 FIXAFLEX	Insulated SS Braided EPDM Flexible Hose - Male X Male							
	Ma harvestering	Insulated Superflex Inox 25, Braided Stainless Steel AISI 304							
		Male BSPT x Male BSPT							
		Temperature Range -20°C to 95°C							
APT	all a	Selection of stock hoses priced							
		Made to order - any length - any fitting combination							
		All Assemblies come with a 10 Year Guarantee							
1⁄2" x 300	³⁄4" x 300	1" x 300	½" x 450	³⁄4" x 450	1" x 450	1¼" x 450	1½" x 450		



SS Braided EPDM Flexible Hose - Male X Comp.



Insulated SS Braided EPDM Flexible Hose - Male X Female

Insulated Superflex Inox 25, Braided Stainless Steel AISI 304 Connections as required Temperature Range - 20°C to +95°C Made to order - any length - any fitting combination

All Assemblies come with a 10 Year Guarantee

½" x 300 ¾" x 300 1" x 300 ½" x 450 ¾" x 450 1" x 450 ½" x 600 ¾" x 600	0 1" x 600
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	Quality Hoses For Drinking Water - HVAC - Cooling - Industry - Gas										
EPDM	SILICONE	OXYTIGHT	NITRILE	GAS	ST STEEL	POLYAMIDE	GALV STEEL	WRAS			









VYC 041 Thermodynamic Steam Trap

Stainless Steel Body & Cover Stainless Steel Disc & Seat PMA, 63 bar, PMS. 42 bar, PmS. 0.25 bar, TMA. 400°C Screwed BSP, NPT or Socket Weld

Suitable for Steam

1″



VYC 042 Thermodynamic Steam Trap

Stainless Steel Body & Cover Stainless Steel Disc & Seat PMA. 63 bar, PMS. 42 bar PmS. 0,25 bar, TMA. 400°C Flanged PN40

Suitable for Steam

15mm	20mm	25mm			



VYC 043 Thermodynamic Steam Trap

Stainless Steel Body & Cover Stainless Steel Strainer, Disc & Seat PMA. 63 bar, PMS 42 bar, PmS. 0.25 bar, TMA. 400°C Screwed BSP, NPTY or Socket Weld

Suitable for Steam

1⁄2″	3⁄4″	1″			



VYC 044 Thermodynamic Steam Trap

Stainless Steel Body & Cover Stainless Steel Strainer, Disc & Seat PMA. 63 bar, PMS. 42 bar, PmS. 0,25 bar, TMA. 400°C Flanged PN40

Suitable for Steam

15mm 20mm

25mm







VYC Steam Traps





VYC 241 Float & Thermostatic Steam Trap

Cast Iron Body & Cap Max Temp: 220°C Max. pressure: PMS 14 bar Screwed BSP or NPT

Suitable for Steam

1″

VYC 243 Float & Thermostatic Steam Trap Cast Steel Body & Cap Max Temp: 220°C Max.pressure: PMS 14 bar Screwed BSP, NPT or Socket Weld Suitable for Steam 1″ 1⁄2″ 3⁄4″ 11⁄2″ 2″

R		Cast Steel Body Max Temp: 220 Max. pressure:	y & Cap J°C PMS 14 bar ANSI 150 or ANSI 3	mostatic Ste	eam Trap		
15mm	20mm	25mm	40mm	50mm			



VYC 443 Thermostatic Steam Trap

Stainless Steel Construction, Max Temp: 250°C Max pressure: PMS 22 bar Screwed BSP, NPT or Socket Weld Angular version also available

Suitable for Steam

1/4″	3/8″	1/2″	3/4″	1″		



VYC 444 Thermostatic Steam Trap

Stainless Steel Construction Max Temp: 250°C Max. pressure: PMS 22 bar For placing between flanges

Suitable for Steam

25mm



VYC 343 Inverted Bucket Steam Trap

Cast Iron Body & Cap Max Temp: 220°C Max. pressure: 16 bar Screwed BSP or NPT

Suitable for Steam

www.alma-valves.ie 87

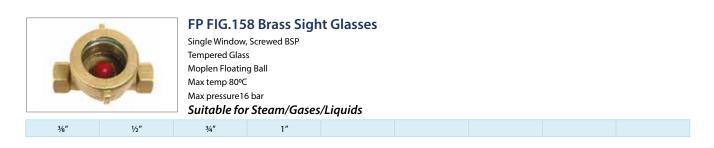


		FP Fig.16	1 Brass Sigh	t Glasses - w	vith Ball				
	-	Body & Cover Brass							
		Tempered Glas	s						
		Double Window	N						
		Screwed BSP							
		Max 80°C with	standard ball						
69-	10								
1/2"	3/4″	1″	11⁄4″	11⁄2″	2″				









	Ĩ	FP FIG. 16 Double Window Flanged PN16 Integral Flappe	v	ight Glasses				
15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm



VYC Sight Glasses



VYC 265 Sight Glasses - Single Window

Cast Steel Construction Max temp: 280°C Max pressure: 40 bar Screwed BSP, NPT or Socket Weld

Suitable for Steam/Gases/Liquids

1/2" 3/4" 1"

VYC 265 Sight Glasses - Single Window

14 63	-	Stainless Steel	Construction			
		Max temp: 280	°C			
2	3	Max pressure: 4	10 bar			
64		Screwed BSP, N	IPT or Socket Weld			
-		Suitable for	r Steam/Gases	/Liquids		
1/2″	3⁄4″	1″				

	and a	5 R	Cast Steel Cons Max temp: 280 Max pressure: 4 Screwed BSP, N	etruction ℃	s - Double V /Liquids	Vindow		
1	′2″	3⁄4″	1″	11⁄4″	11⁄2″	2″		

0	30	Stainless Steel Max temp: 280 Max pressure: 4 Screwed BSP, N	°C		Vindow		
1⁄2″	3⁄4″	1″	1¼″	1½″	2″		

VYC 366 Sight Glasses - Double Window Cast Steel Construction Max temp: 280°C Max pressure: 40 bar Flanged PN16, PN40 or ANSI 15mm 20mm 25mm Suitable for Steam/Gases/Liquids 32mm 40mm 50mm 65mm 80mm 100mm 125mm 150mm 200mm

		VYC 366 9	Sight Glasse	s - Double V	Vindow						
. m. et	-	Stainless Steel	Construction								
		Max temp: 280°C									
201		Max pressure: 40 bar									
. The		Flanged PN16,	PN40 or ANSI								
		Suitable for	r Steam/Gases	liquida			15mm	20mm			
25mm	32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm			



	Flanged PN16					
m 100mm	150mm	200mm	250mm	300mm		
	m 100mm					

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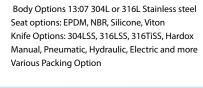
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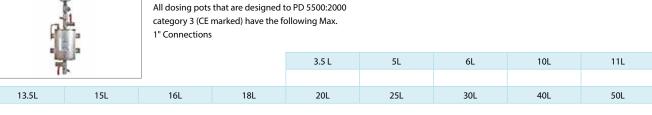


Zubi Square Knife Gate Valve



200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm	







RPZ Backflow Preventors

Various brands available Flanged Threaded Pressure rating PN10 Max. temperature: 100°C



Reliance - Caleffi - Socla - Honeywell



SPR40 Steam Separator

Carbon Steel Body Flanged PN40 For Steam & Compressed Air

15mm	20mm	25mm	32mm	40mm	50mm	65mm	80mm	100mm



|--|

Albion Drain Cocks

Art.10 - Brass BSPP BS 28798/2 Type A (Max Temp: 90°C) Art.310 - Bronze BSPT BS 28798/2 Type A Art. 311 - Bronze BSPT BS 28798/2 Type A Lockshield Rated 16 bar, Temp range: -20°C to 120°C



ART.10 ½" ¾" Art.310 ½" ¾" Art.311 ½" ¾

		Watts Wa Copper Body, E Temp Range: 0 Max Pressure 1	.5°C to 82°C	[•] Arrestor		
1⁄2"	3⁄4"	1"				



FAR 2008 Pressure/Temp. Relief Valve

DZR Brass Body, Stainless Steel Spring Set Temperature: 92°C Valve opens between 89°C & 95°C Set Pressures from 2 to 10 bar

1⁄2"	3⁄4"				

-			OT Pressure y, Viton Seat re: 12.5 bar C emp. 75°C	& Temp Rel	ief Valve		
1	省		r Steam				
DN15-¾"	DN20-1"	DN25-1¼"	DN32-11/2"	DN40-2"	DN50-21/2"		



	P	P	Test Poin CIM 723 (Sold i Standard Binde Extended Bind	n packs of two) er Points					
CIM	723	1⁄4"	BINDER	1⁄4"	1⁄2"	1⁄4" EX	1⁄2"EX	GAUGE	PROBE

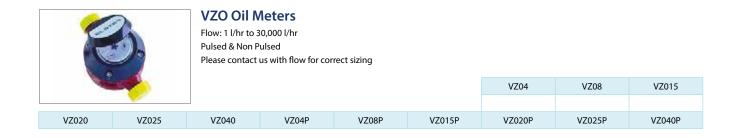


Geca Oil Filters

with Screy Temp Max

with Water Drain Valve Screwed BSP Temperature range: -20°C to 60°C Max Pressure 2 bar

1⁄2"	3⁄4"	1"	1¼"	1½"	2"		



0	5	VYC Mod Cast Steel Cons Flanged and Ra Max Temp 250	struction ated PN40	owdown Va	lve		
	25mm	32mm	40mm	50mm			

1	800 600	VYC Mod Cast Steel Cons Flanged and Ra Max Temp 250	struction ated PN40	lowdown Va	lve		
25mm	32mm	40mm	50mm				





VYC Model 560 DRM-1 Samples Water Cooler

Stainless Steel Construction Max Pressure 140 bar Max Temp 250°C





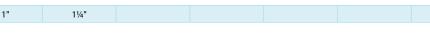
GE-SAFE 73070 Magnetic Filter for Boilers

PA66 Construction 800 micron 304SS Filter EPDM Perox Hydraulic Seal Max 3 bar pressure Max Temp: 90°C



GE-SAFE 73219 Multifunction Magnetic Filter PA66 Construction 800 micron 304SS Filter EPDM Perox Hydraulic Seal

Max 4 bar pressure Max Temp: 90°C





HOmatic Series 10/20 40 Pinch Valves





	de la	Isolating, Regu Lever or Screw	ondervalve lating, Filter Option: driver Operated etric Compression C			APPROVED PRODUCT
1⁄2"	3⁄4"		15mm	20mm		





M16 HT Zinc Plated Bolts M20 HT Zinc Plated Bolts HT Zinc Plated Set Screws

	5				M16 x 40	M16 x 50	M20 x 40	M20 x 50
M16 x 60	M16 x 65	M16 x 70	M16 x 90	M16 x 120	M20 x 70	M20 x 80	M20 x 90	M20 x 120

0	O	Hex Wash	- Zinc Plated ers - Zinc Plated lable on request				
Nuts	M12	M16	M20	Washers	M12	M16	M20

\cap	0	EPDM x 3mm For water servi BS2494	1 6 Ring Gas ce up to 90°C 15mm to 300mm	kets				PRODUCT
		5			20mm	25mm	32mm	40mm
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm

		Novus Supra x BS7531 WRC For steam, oil a	Ipra PN16 Ri 1.5mm and gas services a 15mm to 300mm	ng Gaskets				PRODUCT
			d max temperature	400°C		25mm	32mm	40mm
50mm	65mm	80mm	80mm 100mm 125mm 150mm			200mm	250mm	300mm

O		EPDM x 3mm For water servi BS2494	V16 Full Face ces up to 90°C 15mm to 300mm	e Gaskets				PRODUCT
		_						25mm
32mm	40mm	50mm	65mm	80mm	100mm	125mm	150mm	200mm

	Ó		PN16 Scr	o on Plate Fla ewed Flange wed Flanges	25			8
40mr	ı	50mm	65mm	80mm	100mm	125mm	150mm	







ABS Diaphragm Valve

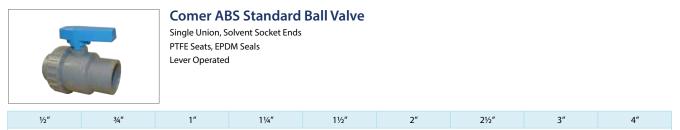
Solvent Spigot Ends EPDM Diaphragm Available with PTFE/EPDM Diaphragm

1⁄2″	3/4″	1″	1¼″	1½"	2″	21⁄2″	3″	4″
		Please	Request Copy of Al	ma/Epco/Comer Pri	ce List for ABS Valv	e Prices		

½" ¾" 1" 1¼" 1½" 2" 2½" 3" 4"	Ċ	E.	Double Union, PTFE Seats, EPE Lever Operated		s				
	1⁄2"	3⁄4″	1″	1¼″	1½″	2″	21⁄2″	3″	4″

Please Request Copy of Alma/Epco/Comer Price List for ABS Valve Prices
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Please Request Copy of Alma/Epco/Comer Price List for ABS Valve Prices

	Ð	Comer Al Double Union, Solvent Socket	EPDM Seals	Non Return	Valve			
1/2″	3⁄4″	1″	11⁄4″	11⁄2″	2″	21⁄2″	3″	4″

Please Request Copy of Alma/Epco/Comer Price List for ABS Valve Prices

Ő		ABS Disc EPDM or FPM S	ieal Dperated for PN10/1	-				
50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm
		Please	Request Copy of Al	ma/Epco/Comer Pr	ce List for ABS Valv	e Prices		





		5	Double Union So PTFE Seats, EPDI Lockable Lever C			e			PRODUCT
		E Contraction	Available in CPV						16mm
L									
	20mm	25mm	32mm	40mm	50mm	63mm	75mm	90mm	110mm

-		Praher T4 Solvent Socket EPDM Diaphrag Lockable Hand Available in CP	Union Ends gm wheel	ohragm Valv	e		
20mm	25mm	32mm	40mm	50mm	63mm	75mm	

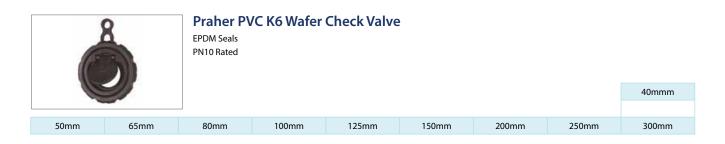
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Praher S4 PVC-U 3-Way Ball Valve



		Double Union, P EPDM Seals	C Foot-Aera P Strainer Ends or other on re	-				
								16mm
20mm	25mm	32mm	40mm	50mm	63mm	75mm	90mm	110mm





COMER	ABS Pip	e, Valves & Fit	tings	LMA
	9	P	6	
	Class C Pipe - cla	ss E Pipe - Sockets - 90 Elbows - 45 Elbows -	Red Bushes	
		Full ABS Price List on Request		
			-	P
	45 Ell	bows - Unions - Caps - Crosses Tees - Y - Tees	5	
		Full ABS Price List on Request		
~				
	LR90 Bends - Plain Ho	setails - P/T Sockets - P/T Barrel Nipples - Th	readed Hosetails	
		Full ABS Price List on Request		
		þ		
	FP/MT Adaptors -	MP/FT Adaptors - P/T Tees - Reinforced Ada Full ABS Price List on Request	ptors Sockets	
	0		•	-
	Tank Connectors - Ba	cknuts - Threaded Plugs - Threaded Caps - T	hreaded Sockets	
0		Full ABS Price List on Request	0	0
	Full Face Flanges	- Blank Flanges - Stub Flanges - Backing Rir Full ABS Price List on Request	igs - Gaskets	
		i dii Abs i nee List on nequest		
	Economy & Indu	strial Ball Valves - Non Return Valves - Diaph	ragm Valves	
		Full ABS Price List on Request		
	Ceme	ent - Cleaner - Pipe Clips - Composite Union	5	
		Full ABS Price List on Request		



Chemical resistance of common metals used in valves.

The information in these tables is offered as a general guide only to the chemical resistance of commonly used materials in the construction of METAL valves.

These tables are *not* to be used as an absolute recommendation as there are too many factors that can influence the corrosion resistance, such as temperature, temperature fluctuations, concentrations and solutions, velocity and abrasion. J+J therefore accept no responsibility for any problems arising from use of these tables.

We recommend that if any doubt exists as to the resistance of a material to a specific chemical, that tests be carried out to verify the compatibility.

What the ratings mean:

Ratings are based on media at ambient/ room temperature unless otherwise stated.

A = EXCELLENT RESISTANCE

- B = GOOD OR ACCEPTABLE RESISTANCE
- C = POOR RESISTANCE
- D = DO NOT USE, NO RESISTANCE



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Acetaldehyde Acetamine Acetate Solvents Acetic Acid, Aerated Acetic Acid, Air Free	B A B B	C B B F B	C B A D D	C B D D	A B A A	А	A	A A A	A A A A	DADCC	A D D D	В	С DCD	A A	A A A A
Acetic Acid, crude Acetic Acid Glacial Acetic Acid, pure Acetic Acid 10% Acetic Acid 80%	с ссс	0 000	с псс	C DCC	A A A	A A A A A	A A A	B D B B	A A A A A		D D B D	B B C		A A A A A	A A A A
Acetic Acid Vapors Acetic Anhydride Acetone Other Ketones Acetyl Chloride	B A A D	D D A A	D A A	D A C	D B A A C	D A A	B A A	C B A A B	A A A A A		C A A D			A A A	A A A A
Acetylene Acid Fumes Acrylonite Air Alcohol, Amyl	A B A B	B D A B	A D A B	A D C A C	A B A A A	А	A B A B	A A B	A A B	B C D A C	A D D A A	A D A A	A C A B	А	A A A A
Alcohol, Butyl Alcohol, Diacetone Alcohol, Ethyl Alcohol, Fatty Alcohol, Isopropyl	B A B B B	Б А В В	B A B B B	C A B B B	A A B A B		A A A A A	A B B B	A A A B	B D A B C	A A A A A	C B A A	A D A	A A A A A	A A A A
Alcohol, Methyl Alcohol, Propyl Alumunia Aluminum Acetate Aluminum Chloride Dry	B A C B	B A D B	B B C	B B D D	A A C	в	A A B D	A A C B	A A B B	B A D B	A A D A	A A A A	C A D A	A A A	A A A A
Aluminum Chloride Solution Aluminum Fluoride Aluminum Hydroxide Aluminum Nitrate Aluminum Oxalate	C C A D B	A D	D D	D D D	DCAC	С В	B B A	ВВВСВ	B A B	B A B	псср	A A B	A A D	А	A A A A
Aluminum (Aluminum Potassium Sulfate) Alum (Aluminum Sulfate) Amines Ammonia Alum Ammonia, Anhydrous Liquid	D C B C A	D C B D	D B A	D D C B	B B A A A	C A A	B A A A	С С В В	A B A A	B A D B B		A C B	B A D D	A A A	A A A A
Ammonia, Aqueous Ammonia, Gas, hot Ammonia Liquor Ammonia Solutions Ammonium Acetate	B A B B	C B B F B	C B A D D	C B B D D	A B A A A	А	A A	A A A	A A A A A		A D D D	В	С ПСП	A A	A A A A
Ammonium Bicarbonate Ammonium Bromide 5% Ammonium Carbonate Ammonium Chloride Ammonikum Hydroxide 28%	B D B D C	B D D	C B D C	B D C	BBBCB	C A	B B B A	BBBF	B	B C B B	A A D C D	A A B	A B A A	А	A A A A
Ratings: A=Excellent B=Good		C=P	оог	116	D=Do	not i	use	E	Blank	=No	Inforr	natior	ו		



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Ammonium Hydroxide Concentrated Ammonium Monosulfate Ammonium Nitrate Ammonium Oxalate 5% Ammonium Persulfate	C D B A C	D D C	C D	C D	A B A A	A	A B A A	C B D B D	B B B	C A D	D D A D	A A B	A A B	A	A A A A
Ammonium Phosphate Ammonium Phosphate Di-basic Ammonium Phosphate Tri-basic Ammonium Sulfate Ammonium Sulfate	СВССС	DCCCD			B B B B B	в	B B B B B	СССВВ	A A A A	C A B A	C A B A	A A A	A A B D	A	A A A A
Ammonium Sulfite Amyl Acetate Amyl Chloride Aniline Aniline Dyes	СВОСС	C B D C	с с с	ССВСС	A B A B A	А	B A A A	D B B A	A B B	B D D D C	A A D A	B D C C	A D D C B	А	A A A A
Apple Juice Aqua Regia (Strong Acid) Aromatic Solvents Arsenic Acid Asphalt Emulsion	B D A D C	C D A D A	D D C D B	D D B D B	B A B A		A B A B A	A B D A	B A	A D D A D	A D A D A	B D D B D	A D A A	D A	A A A A
Asphalt Liquid Barium Carbonate Barium Chloride Barium Cyanide Barium Hydrate	00000	A B B C D	B C	B B C C	A B B A	в	A B C B A	A B D B	A A	C B A B	A A A A	D A B	A A B		A A A A
Barium Hydroxide Barium Nitrate Barium Sulfate Barium Sulfide Beer	D B D D A	C C D B	C C C D	B C D D	B A B A	A A	A A B A	B C A		A A B	A A A A A	B A B	A A A		A A A A A
Beet Sugar Liquors Benzaldehyde Benzene (Benzol) Benzoic Acid Berryllium Sulfate	А А В В В	A B B B	B A D	BCBDB	A A B B B	B A	A A B A	А Б А Б	B B A	A D D C B	A A C A A	B A D B	A D B B B	А	A A A A A
Bleaching Powder Wet Blood (meat juices) Borax (Sodium Borate) Bordeaux Mixture Borax Liquors	в с с	B D A	c c	D C C	C A A B	А	B A A	A A B	D B B	D A A A	B A A	B A A	B A A		A A A A A
Boric Acid Brake Fluid Brines, Saturated Bromine, Dry Bunker Oils (Fuel)	B B C C A	C B B B B B	D D D B	D B C D B	B B D A	А	B B A	6 6 8 4 4	A A A	B D A D B	A B A D A	B A D	A D A B A	A B	A A A A A
Butadiene Butane Butter Buttermilk Butyl Acetate	B A A B	C A D B	B B D	B B D B	A A A B		A A A A	C B D B	B A B	C B B A D	A A A B	C D B D	B A D		D A A A
Ratings: A=Excellent B=Good		C=Po	oor	117	D=Do	not i	use	В	lank	=No	Inform	natior	ı		



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Butylene Butyric Acid Calcium Bisulfite Calcium Carbonate Calcium Chlorate	A B C B	A C C C D	A D D D	A D D D C	A B B B B		A B B B	A B D B B	A B B	D A A B	A A D A D	D C D B B	D C A B	в	A A A A
Calcium Chloride Calcium Hydroxide Calcium Nitrate Calcium Phosphate Calcium Silicate		B C C C	с с	с с с с	B B B B B	В	B B B B	B A	A A	A A B B B	A A C B A	B A B B B	A A B		A A A A
Calcium Sulfate Caliche Liquor Camphor Cane Sugar Liquors Carbonated Beverages	B C A B	C C B B	С В D	C C B B	B A B A B	B B	B A C A B	B C B C	В	A B B B B B	A A A A A	B B B B	A B B B	А	A A A A A
Carbonated Water Carbon Bisulfide Carbon Dioxide, Dry Carbonic Acid Carbon Monoxide	A A A A A A	B C A D A	B A D	A B B D B	A B A B A	B A B A	A B A A	B A B A	A	A D C B B	A A A A	A D B B B	A B A B	A A A	A A A A
Carbon Tetrachloride, dry Carbon Tetrachloride, wet Casein Caster Oil Caustic Potash	B C A	C D C A	B D B	C D C B	A B A A	А	A B A A	A B C A B	A B A	D D B A B	A B A D	D D B B	B B A	A A	A A A A
Caustic Soda Cellulose Acetate China Wood Oil (Tung) Chlorinated Solvents Chlorinated Water	D B A D C	B C C	B C C	B B C C	A B A C	D	A A A	A B A B D	B A D	C D A D B		B D D	B D A C A	Б	A A A A
Chlorine Gas, Dry Chlorobenzene, dry Chloroform, dry Chlorophyll, dry Chlorosulfonic Acid, dry	6 6 D 6 6	СВВВС	В В В В	ВВСВВ	B A B B	С В	A A A B	A B A B B	A B B A	СООВО	D B A D	D D D B D	B A B B D	А	A A A A A
Chrome Alum Chromic Acid<50% Chromic Acid>50% Chromium Sulfate Cider	ССДВВ	СБСС	B D D	СОСО	A C C B A	CD	A B C B	B C D B A	B B	B D D B	B D D C A	B C C B	B C C B		A A A A
Citric Acid Citrus Juices Coca Cola Syrup Coconut Oil Coffee	B C B A	C B A	D D C		B A B A	с	A A A A	B A B B	A	B A B A	A A A A	B A A	A A B A A	A	A A A B
Coffee Extracts, hot Coke Oven Gas Cooking Oil Copper Acetate Copper Carbonate	A A B D D	B C B D	СВВД	C B D D	A A A A		A A A A	A B A C	в	C A C	A D A D A	D D B	B A D		A A A A
Ratings: A=Excellent B=Good		C=Po	1 Dor	18	D=Do	not i	use	В	lank	=No	Inform	nation	1		



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Copper Cyanide Copper Nitrate Copper Sulfate Corn Oil Cottonseed Oil	D D B B	D D B B	DDCC	D D D C C	A B B B B	в	A B B B B	СDСББ	A	A A A A	A A A A	B A C C	Б А А В	А	A A A A
Cresol Creosote Oil Cresylic Acid Crude Oil, sour Crude Oil, sweet	B C B A	B C B	ВСВВ	B D C B	B B A A	В	B A B A	B B A	в	D C D A A	D D A A	D D D D	D A B A A		A A A A
Cupric Nitrate Cutting Oils, Water Emulsions Cyanide Plating Solution Cyclohexane Cyclohexanone	D A D A B	A D A B	B A	B D A	A A B A		A B A	D D B B	B	A B C D	D A D A A	B D	A B A		A A A A
Detergents, Synthetic Dextrin Dichloroethane Dichloroethyl Ether Diesel Oil Fuels	B B A	B B A		B C B A	B C B A		A B B A	B B A		B D D A	A A D A	B D D D	A B D A		A A A A
Diethylamine Diethyl Benzene Diethylene Glycol Diethul Sulfate Dimethyl Formamide	B B B B	B B B	A A	B A B B	A B A B A		A B A B A	B B B B		B D A C B	A C A A A	C D A C D	D B B D		A A A A
Dimethyl Phthalate Dioxane Dipentane (Pinene) Disodium phosphate Dowtherm	B A B A	B A A	в	B A B	B A B A		B A B A	B C A		B D B D D	C C A A A	C D D	D D B A	A	A A A A A
Drilling Mud Dry Cleaning Fluids Drying Oil Enamel Epsom Salts (MgSo4)	B A C A	B C C A B	В В С С	B B C	A A B		A A B	A A B		B B B	A D A B A	A A A A	A B A		A A A A A
Ethane Ethers Ethyl Acetate Ethyl Acrylate Ethyl Benzene	A A C	B B C B	C A B C	C B C C	B A B A	B A	B A A A	6 6 6	B A A	A D D D C	A C C B A	DCCCD	A C D D		A A A A A
Ethyl Bromide Ethyl Chloride, dry Ethyl Chloride, wet Ethylene Chloride Ethylene Dichloride	B B D C	A B C	B C	B B D	B A B A B	А	C A B A A	6 6 6 6 6 6	B B B	BCCDD	A A A C	B C B D	B B D D	А	А В А А
Ethylene Glycol Ethylene Oxide Ethyl Ether Ethyl Silicate Ethyl Sulfate	A C B A	B C B B	B B	B C B	B A B B	А	A B A B B	B A B	A A B	A D B B	A A A A A	A D D B C	A D D B A		A A A A
Ratings: A=Excellent	B=Good	C=P	oor	119	D=Do	not	use	В	lank	=No	Inform	natior	n		



Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
B D B	C D D	D D D	D D D	A A B B	B B	A A A B	B A D D	A B	B A A	A A A A	D A A	A A A	A	A A A A
D C C B C	B B C C B	D D C B B	D D C B B	D B A B A		D B A B A	D B B B A	D B B	A C B A	A A A	A A B D	A A B A	A A	A A A A A
C B D A B	B A B	D A D	B D B D	A B B A C	А	A A B A B	B A B	B B B	C A C B B	C D C A A	D C B	C C D		A A A A A
D D B A	B B B B A	D D B	D D B C B	B A A A	B D A	А В А А А	B A B B B	A B B B B B B	DDCCB	D D A A A	CCA	B A C D D	A A A A A	A A A
B A D B	B A B D B	D	CBCDD	A A C A	в	A A B A	B B B B	B B B B B	D D B B A	A A A A A	D D C B A		A A A A	A A
A A B	B A C B	B A D B	B D B	A A B B	в	A A B B	B B A	B B	A B D B A	A A A A	D C C	A D A A		A A A A
B A A A	B A A A	B A A A	B B A B	A B A A	А	B A A A	A B A B A	A A A	A B C C C	A A A A	D	A A A A	A A A	A A A A
A A A A A	B A A A	B B A D B	B B D B	A A A A A		A A A A A	B C A B A	A A A	CCCAA	A A A A A	D D A A	A A A A A	A A A	A A A A A
A A C A B	B B D B B B	A C C	B B B C	B A B B B	A A	A A A	B A B B	A A D	A C A B B	AACCA	B A D A B	A B D A B	A A	A A A
B A A A	C B A B A	A B B A	A B B A	A A A A		A A A A	B B B A	A A A	A B A A	A A A A	D B D D D	А В А В		A A A A A
	B D D B D C C B C C B D A B D D B B A A A A B B A A A A A A	B C D D D D D D D D D D D C B C D D D C B C C B D C B B D B B A B A B A B A B A C B B A B A C B A A B A C B A A B B A A B B C B B B B B B B B B B B B B B	B C D D D D D D D D D D D D D D C B D D C B D D C B D D C B D D B B D D B B D D B B D B B A D B B A D B B B A B B B B A A C B B A A C B A A A A A B B A A B B A A A A B A A A B B C C B B <	BCDDDDDDDDDDDDDDDCBDCBDDCBDDCBBDDBBDDBBDDBBDDBBDDBBDBBBCBBBCDBBCBBBCDBBBBACBBBBBAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAABAAABAAABABABABABBCBCBABABABABCBABABABABC <t< td=""><td>BCDADDDADDDDBBDDDDBBDDDCBDDDCBCCABCBDDCBDDBCBDDBBBDDBAAAABBDDBBBDDAAAAABBCCAAAAAAAAABBBAAABBCBBBAAAAAAAAAAAAAA<!--</td--><td>BCDAADDDDDABDDDDDDBBDDDDDDBACBDDDBAABCBDDBACBDDDBABBDDBAAAABAABBDDBBAAABABBDDABBBBBBBBBAAAAAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBAAAAAAAAAAAAAAABAAAABAAAAAAAAAAAAAAAAAA<</td><td>B C D D A A A D D D D D D D A A D D D D D D D B B A D D D D D D D B B A C B D D D D B A A C B B D D D B A A D B B D D D B A A D B B D D B B A A D B B D D D B A A B B B D D D B A A D D B B B B A A A B B B B B B A A</td></td></t<> <td>B C D D A A A B D D D D D C B A A D D D D D D D B B A A D D D D D D D B B A A D C B D D D D B B B A B B B B A B B B A B B B B B B B B B B B B B A B B B A B B B B A B B B A B B B A A B B B A A B B B A B B B A A B B B B A A B B B B</td> <td>BCDDAABADDDDDCBBADDDDDDDDBBAAABDDDDDDBBADDDCBDDDDBAABBCCCCCAAABBCCBBAABABBDBDDBAAABBBBDDBAAABBBBDDBAAABBBBDDDBAAABBBDDDAAABBBBDDDAAABBBBBAAABBBAAAABAABBBBBBBAAABBBBBBAAABBBBBBAAAAAAAABAAA<</td> <td>B C D D A A A A A B A B A A B A A B A A B A A B A B A A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B B A A B B A A B B A A B B A A B B A A B B A A B B B A A B B B B A A A B</td> <td>B C D D A A A B A B A A D D D D D C B A D B A</td> <td>B C D D A</td> <td>B C D D A A A B A</td> <td>B C D D A A A A B A</td>	BCDADDDADDDDBBDDDDBBDDDCBDDDCBCCABCBDDCBDDBCBDDBBBDDBAAAABBDDBBBDDAAAAABBCCAAAAAAAAABBBAAABBCBBBAAAAAAAAAAAAAA </td <td>BCDAADDDDDABDDDDDDBBDDDDDDBACBDDDBAABCBDDBACBDDDBABBDDBAAAABAABBDDBBAAABABBDDABBBBBBBBBAAAAAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBAAAAAAAAAAAAAAABAAAABAAAAAAAAAAAAAAAAAA<</td> <td>B C D D A A A D D D D D D D A A D D D D D D D B B A D D D D D D D B B A C B D D D D B A A C B B D D D B A A D B B D D D B A A D B B D D B B A A D B B D D D B A A B B B D D D B A A D D B B B B A A A B B B B B B A A</td>	BCDAADDDDDABDDDDDDBBDDDDDDBACBDDDBAABCBDDBACBDDDBABBDDBAAAABAABBDDBBAAABABBDDABBBBBBBBBAAAAAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBAAAAAAAAAAAAAAABAAAABAAAAAAAAAAAAAAAAAA<	B C D D A A A D D D D D D D A A D D D D D D D B B A D D D D D D D B B A C B D D D D B A A C B B D D D B A A D B B D D D B A A D B B D D B B A A D B B D D D B A A B B B D D D B A A D D B B B B A A A B B B B B B A A	B C D D A A A B D D D D D C B A A D D D D D D D B B A A D D D D D D D B B A A D C B D D D D B B B A B B B B A B B B A B B B B B B B B B B B B B A B B B A B B B B A B B B A B B B A A B B B A A B B B A B B B A A B B B B A A B B B B	BCDDAABADDDDDCBBADDDDDDDDBBAAABDDDDDDBBADDDCBDDDDBAABBCCCCCAAABBCCBBAABABBDBDDBAAABBBBDDBAAABBBBDDBAAABBBBDDDBAAABBBDDDAAABBBBDDDAAABBBBBAAABBBAAAABAABBBBBBBAAABBBBBBAAABBBBBBAAAAAAAABAAA<	B C D D A A A A A B A B A A B A A B A A B A A B A B A A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B B A A B B A A B B A A B B A A B B A A B B A A B B B A A B B B B A A A B	B C D D A A A B A B A A D D D D D C B A D B A	B C D D A	B C D D A A A B A	B C D D A A A A B A



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Hydraulic Oilm Petroleum Base Hydrazine Hydrocyanic Acid Hydrofluosilicic Acid Hydrogen Gas, cold	A C A D A	B D D A B	A D D B	B D C D B	A B A C A		A B A C A	A D C B A	в	A C B B B	A D D A A	D B B B B	A D A A	А	A A A A
Hydrogen Gas, hot Hydrogen Peroxide, Concentrated Hydrogen Peroxide, Dilute Hydrogen Sulfide, Dry Hydrogen Sulfide, Wet	С А А В		B D B C	D D B D	B B A B	в	A B B B B B	D D B C	A D B D	B D A C C	A D D C C	B B A B	B A A	A A	A A A A
Hypo (Sodium Thiosulfate) Illuminating Gas Ink-Newsprint Iodoform Iso-Butane	B A C C	CACC	D A D B	D A D C	B A A B		B A A B	B A B C		C A A B	A A A A	A D B D	A A A		A A A A
Iso-Octane Isopropyl Acetate Isopropyl Ether JP-4 Fuel JP-5 Fuel	A B A A	A A A	A A A	B B A	A B A A		B A B	A A A	A D C A B	A D C A B	A A A A	D D D	A D A A	A A	A A A A
JP-6 Fuel Kerosene Ketchup Ketones Laquer (and Solvent)	4 A D A A	A D A A	A B D A C	A B D A C	A A A A A		A A A A	А А В А А	A A	A A D D	A A A A	D D D	A A A D D	А	A A A A
Lactic Acid Concentrated cold Lactic Acid Concentrated hot Lactic Acid Dilute cold Lactic Acid Dilute hot Lactose	C C B B	D D D B			A B A B	D D B D	A A A B	D D C D B	A B A B	B C B C B	D D D A	B B B	A B A D B	A A A	
Lard Lard Oil Lead Acetate Lead Sulfate Lecithin	A B D C	B B C C C	C D	ACDDC	A B B B B		A A B B B	B B B		B A B D	A A A A	C B B D	A B B		
Linoleic Acid Linseed Oil Lithium Chloride LPG Lubricating Oil Petroleum Base	A A D A A	B B A B	B A B A	B A B A	A A B A		A A B A	8 8 8 8 8		B A B A A	A A A A	D D D D D	В А В А		
Ludox Magnesium Bisulfate Magnesium Bisulfade Magnesium Carbonate Magnesium Chloride	D B C B C	D B D A B	B C	B D D D D	B A B A B	с	B A B A B	8 8 8 8 8	A	B B B A	B A A A	B B B A	B B B A		
Magnesium Hydroxide Magnesium Hydroxide Hot Magnesium Nitrate Magnesium Sulfate Maleic Acid	D D B B	B D B B	B B B B	B B C	A A A B	A A A	A A A B	B A B B B	B B A A	A B A B	A A A A	A A D	А А А А		A A A A
Ratings: A=Excellent B=Goo	d	C=Poor D=Do not use Blank =No Information													



Chemicals		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced	
Maleic Anhydride Malic Acid Malt Beverages Managanese Carbonate Manganese Sulfate		B B B	B B B	D	B D D	B A B A		B B A A	B A B	В	D A B B	C A A A A	D B B	B A A B	А	A A A A	
Mayonnaise Meat Juices Melamine Resins Methanol Mercuric Chloride		D B D	D D B D	D D	D D B D	A A C A B		А А С А В	B B D	в	A B B A	A A A C A	D A	A B A		A A A A A	
Mercuric Cyanide Mercurous Nitrate Mercury Methane Methyl Acetate		D D A A	D D A A	D A B B	D A B B	A A A A		A A A A A	C D B B B B	B A A	A A D	A A A B	A A B	A B A D		A A A A A	
Methyl Acetone Methylamine Methyl Bromide 100% Methyl Cellosolve Metyl Cellulose		A A C A	A D C A	A B B	A B D B	A A B A		A A A A A	A C B B	B B B	D D B C D	В А А А А	A B D B			A A A A	
Methyl Chloride Methyl Ethyl Ketone Methylene Chloride Methyl Formate Methyl Isobutyle ketone		D A C C	B A A	B A B C	B A B C	A A B A		A A A A A	B A B B	B B B		A A A A A	D B D B	BDCD	A A	A A A A A	
Mik & Milk Products Mineral Oils Mineral Spirits Mixed Acids (cold) Molasses, crude		A A D B	B B D A	D B B C A	D B B C A	A A B A		А А В В А	B A B C A		A A D A	A A D A	A D D	A A A B A		A A A A A	
Molasses, Edible Molybdic Acid Monochloro Benzene Dry Morphine Mustard		A B B	A B A	С В	C B B	A A B A		А А В А А	A B B A		A D D A	A A C A A	в	A D A	А	A A A A A	
Naptha Napthalene Natural Gas, Sour Nickel Ammonium Sulfate Nickel Chloride		A B D D	B B D D	B B B D D	B B D D	B A A B		В А А А	B B D C B	A B A A	B D A A A	A A A C D	D D B B	A A A D A	А	A A A A A	
Nickel Nitrate Nickel Sulfate Nicotinic Acid Nitric Acid 10% Nitric Acid 30%			D D A D D	D D B D D		B A A A	A D	A A A A A	B A D D	в	A A D C C	сссрр	A B D B	A A B A A	A A B	A A A A A	
Nitric Acid 80% Nitric Acid 100% Nitric Acid Anhydrous Nitrobenzene Nitrogen		B B C A	D D D A	D D B A	D D C B A	C A A A	D D D	В А А А	D D B A	в	D D D A	D D B A	B D C B	B A C A	B B B	A A A A A	
Ratings: A=Excellent	B=Good	100									lank =No Information						



Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Nitrus Acid 10% Nitrous Gases Nitrous Oxide Oils & Fats Oils, Animal	D B C B A	D D B A	D B B	D C C A	B A B A A		B A B A A	D D D B	B	C B A	B A A A	D B	A A B		A A A A
Oils, Petroleum Oils, Petroleum Sour Oils, Water Mixture Olaic Acid Oleic Acid	А А В В	B C A B	A B B C	A C B C	А А В В		А А В А	A A B	A A B	A A A B	A B A D B	A A A C C	D D D	А	A A A A
Oleum Oleum Spirits Olive Oil Oxalic Acid Oxygen	B D C A	C D C B A	B D B	D D B D B	B A B A		B A IB AA	C D A B A	B	D C A C B	D D A C D	D D B A	C A A A A	A	A A A A
Ozone, Dry Ozone, Wet Paints & Solvents Palmitic Acid Palm Oil	А В А В А	A B B B	A C A C C	A C A C C C	A A B B		A A B A	A A B A	A A	D D B B	C C A A A	A B D B D	B B A A		A A A A
Paper Pulp Paraffin Paraformaldehyde Paraldehyde Pentane	D A B A	B A B A	B B B	B B B	А А В А		А А В А	B A B B	А	B B B A	A A A A A	B D D D D	B A A	А	A A A
Perchlorethylene, Dry Petrolatum (Vaseline Petroleum Jelly) Phenol Phosphate Ester 10% Phosphate Acid 10%	B A D D	C B B D D	B C D A D	B D A D	A B A D		A BA A BB	B A A D	B A	D A D B	B A C A D	D D A B	A A B A	А	A A A A
Phosphoric Acid 50% Cold Phosphoric Acid 50% Hot Phosphoric Acid 85% Cold Phosphoric Acid 85% Hot Phosphoric Anhydride	D D D A		D D B C	D D B C	B D A B A		118 118 118 118 118 A	C C A		B C C D	D D D B	B B	A A B	A A A A	A A A A
Phophorous Trichloride Phthalic Acid Phthalic Anhydride Picric Acid Pineapple Juice	D B B C A	B B C C	вссрс	ссоро	A B B A		A B B B A	A A D A	B A B	DCCCA	D B A D A	B B	B A A B A	А	A A A A A
Pine Oil Pitch (Bitumen) Polysulfide Polyvinyl Acetate Polyvinyl Chloride	B D B B	B D B B	В	B B B	A A B B B		A A B B	B B B B		A C B	A D A A	D D B B B	A B		A A A A
Potassium Bicarbonate Potassium Bichromate Potassium Bisulfate Potassium Bisulfate Potassium Bromide	A A B C C	c c	D D	D	А А В А		A A B (B	B A D B		B B A A	А В А А	B B	B A A		A A A A
Ratings: A=Excellent B=Good	1	C=F	oor	123	D=D	o not	use	Blank =No Information							

Chemical compatibility



Doc: ChemComp/01 Jun 2007

Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Potassium Carbonate Potassium Chlorate Potassium Chloride Potassium Chromate Potassium Cyanide	D C D B D	B C B D	B B C B	B B B B B	B B B B B	A B B	B A B B	ВСВВ	B	A A B A	A A A A	B A B A	А А В А		A A A A
Potassium Dichromate Potassium Ferricyanide Potassium Ferrocyanide Potassium Hydroxide Dilute Cold Potassium Hydroxide to 70%, Cold	A B D D	D D D D	C C C C A B	C C C A B	B A B B B	B B C	A B B B B	B A A A		A A A B	A A D D	B B B	A A D D		A A A* A*
Potassium Hydroxide Dilute Hot Potassium Hydroxide to 70%, Hot Potassium Iodide Potassium Nitrate Potassium Oxalate	DDDAC	D D B	B A C B	B B C B	B B B A	C D B B	B B B A	A A C B	в	B C A A	D A A A	A B B	A A		А* А* А А
Potassium Permanganate Potassium Phosphate Potassium Phosphate Di-basic Potassium Phosphate Tri-basic Potassium Sulfate	B D B D A	B C B	B A B	B C A A C	B A B A	B	B A B A	8 8 8 8 8 8	B B B	A A B A	A A A	B A B A	A A A		A A A A
Potassium Sulfide Potassium Sulfite Producer Gas Propane Gas Propyl Bromide	B B B A B	B B A B	B B B B	B B B B B B	A B B B	A A	A A B A A	ССАВВ	A B A	A B A B	A A A A A	B A D B	В А А В		A A A
Propylene Glycol Pyridine Pyrolgalic Acid Quench Oil Quinine, sulfate, dry	A B B A	B B B	B B B	B B B B	B B A A	B B	В А А А	B B B		A D A A	C D A A A	В	A D A A		A A A A
Resins & Rosins Resorcinol Road Tar Roof Pitch Rosin Emulsion	A A A	A A B	C A A C	C A A C	A B A A	В	A B A A A	A A A A		C B D	A A A	D	A A B		A A A A
R P-1 Fuel Rubber Latex Emulsions Rubber solvents Salad Oil Salicylic Acid	A A B C	A A B C	A B A C D	A B A C D	A A B A		A A A B	A A B B		B D A A	A A C A A	B B	A A D A A		A A A A
Salt (NaCI) Salt Brine Sauerkraut Brine Sea Water Sewage	B B C C	B B C C	C D C		B B B B B B B	A	A B B B B	A B A B		A A A	A A C A B	B A B	А В А В		A A A A
Shellac Silicone Fluids Silver Bromide Silver Cyanide Silver Nitrate	A B D D D	A B D D	A D	B B D D	A B A A	с	A B A A	A B D		A B B C	A D D A	A	B B A		A A A A
Ratings: A=Excellent B=Good * Not with reinforced or polyfill		C=P	oor	124	1D=D	o not	use	E	Blank	: =No	Infor	matio	n		

Chemical compatibility



Doc: ChemComp/01 Jun 2007

Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Silver Plating sol. Soap Solutions (Stearates) Sodium Acetate Sodium Aluminate Sodium Benzoate	B C D B	A B B	A C C	B C C	A A B A B		A B B B	A B B	B B	A B A	D A A B	A B B	A A A		A A A A
Sodium Bicarbonate Sodium Bichromate Sodium Bisulfate 10% Sodium Bisulfite 10% Sodium Borate	B A D B	B B B	C D D C	C D D C	B A A B		A B A B B	B B B B	в	A D A A	B A D A	A B B B	A A A		A A A A
Sodium Bromide 10% Sodium Carbonate (Soda Ash) Sodium Chlorate Sodium Chloride Sodium Chromate	B D C B D	B B B B C	СВССВ	DBCCB	B A B A		B A B A B	В В С А В	6 6 6	A A A A A	A A A A A	B B B B B B	A A A A A	B A	A A A A A
Sodium Citrate Sodium cyanide Sodium Ferricyanide Sodium Fluoride Sodium Hydroxide 20% Cold	D D A C D	D C A	B D A	B D A	B A B A	B B A	B A A B	B B B A		A A A	A A A D	B B B	A A B	А	A A A A*
Sodium Hydroxide 20% Hot Sodium Hydroxide 50% Cold Sodium Hydroxide 50% Hot Sodium Hydroxide 70% Cold Sodium Hydroxide 70% Hot		A A A B	B A B A B	B B A B	A A A A	С В С В С В С	A A B B	А А В А В		B A B D		B B B B	00000	A A A A A	A* A* A* A*
Sodium Hypochlorite (Bleach) Sodium Hyposulfite Sodium Lactate Sodium Metaphosphate Sodium Metasilicate Cold	D B D A B	D C B	D B C	D C C	D B A B A	D B	C B A B A	D B B	A A	A B	D A B A	в	A B	А	A A A
Sodium Metasillicate Hot Sodium Nitrate Sodium Nitrite Sodium Perborate Sodium Peroxide	B A B C	B B D	D B B C	D B B C	A A B B B	B B B	A A B B	A B C B B	A B B B B B	0000	А А В А А	B A A	А В А		A A A A
Sodium Phosphate Sodium Phosphate Di-basic Sodium Phosphate Tri-basic Sodium Polyphosphate Sodium Salicylate	D D D	с с с	ССС	ссс	B B B A	В	B B B A	6 6 6 6	6 6 6 6	B A B B	B A A	A A A A	A A A		A A A A
Sodium Silicate Sodium Silicate, Hot Sodium Sulfate Sodium Sulfide Sodium Sulfite	B C B C B	B C B D C	B C B B	B C B A	B A B A	B A A	B A B A	B A B B	Б	A A A	A A A A	B A B B	A A B		A A A A
Sodium Tetraborate Sodium Thosulfate Soybean Oil Starch Steam (212°F)	B B A	B B A	B C C A	A C C C A	A B A B A	A	A B A A A	B A B		A A A D	A A B A D	B A B C B	A A C	А	A A A A
Ratings: A=Excellent B=Good * Not with reinforced or polyfill		C=P	oor	125	D=D	o not	use	E	Blank	=No	Infor	matio	n		

Chemical compatibility



Doc: ChemComp/01 Jun 2007

Chemicals	Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316 Stainless Steel	17-4PH	Alloy20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Flexible Graphite	Teflon-Reinforced
Stearic Acid Styrene Sugar Liquids Sugar, Syrups & Jam Sulfate, Black Liquor	A A B C	C A B C	C A B C	C B B C C	B A A B	A A	B A A B	B A B	A A	A D A C	A A A C	B D B B	A B A C	А	A A A A
Sulfate, Green Liquor Sulfate, White Liquor Sulfur Sulfur Chlorides Sulfur Dioxide, dry	B A D A	C C D B B	СССДВ	C C C D B	B B D A	A B A	B D A B	B C B B B B	А	ССБББ	A D A A A	B C A	C C B A A	A A	A A A A
Sulfur Dioxide, wet Sulfur Hexafluoride Sulfur, Molten Sulfur Trioxide Sulfur Trioxide, dry	C A A	D B D B B	C B B	B B B	A A B B B	C B B	B A B B	A D B	B B B B	D D D D	D A D A A	B B B	B B A	A D D	A A A A
Sulfuric Acid 0 to 77% Sulfuric Acid 100% Sulfurous Acid Tall Oil Tannic Acid (Tannin)	СБССС	C C D B B	D C D B C	D B D B C	C A B B B	В	B A B B B	B D B B	B A B	B D C B B	D D C A A	ССДВ	A B A A	A D A	A A A A*
Tanning Liquors Tar & Tar Oils Tartaric Acid Tetraethyl Lead Toluol (Toluene)	A B B A	A B A	A D C A	A D C A	В А А В А	A A	B A B A	A B A	B	B C C D	DAAAC	D B D	A A B		A* A* A* A*
Tomato Juice Transformer Oil Tributyl Phosphate Trichlorethylene Trichloroacetic Acid	A A A D	C B A B B	C A B	C B A C D	A A B D	А	A A B B	B A B B	A A	A A D D C	A A A D	B D	A A D B D	A	A A A A
Triethanolamine Triethylamine Trisodium Phosphate Tung Oil Turpentine	B D B B	B B B	B B	B B	B B A B	А	B B A B	B C D	A A A A	C B A B	A C A A A	B D D	B A A		A A A A
Urea Uric Acid Varnish Vegetable Oils Vinegar	B D A C	B A B B	C C B D	C C B D	В А А А		В А А А	B A B B	A A A A A	C C A D	А В А В	B D A	D B A D		A A A A
Vinyl Acetate Water, Distilled Water, Fresh Water, Acid Mine Waxes	B A D A	B A D A	D C D A	B D C D A	B A B A	A A B	B A A	B A D A	A A A C A	C C B A	D A A A	A B B A C	A A D A	A A	A A A A
Whiskey & Wines Xylene (Xylol), Dry Zinc Bromide Zinc Hydrosulfite Zinc Sulfate	D A D D D	B A B C B	D B A D	D B D B D	A B A B		A A B A	A A B B B	A A A A	B D A A	A A A A A	A D B A A	A B A A	A	A A A A
Ratings: A=Excellent B=Good	_	C=F	'oor	126	D=D(o not	use	E	Blank	=No	Infor	matio	n	_	_

FLANGE TABLES

1⁄2'''	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	80	55	4	M10	11	40	2
PN10	95	65	4	M12	14	45	2
PN16	95	65	4	M12	14	45	2
PN25	95	65	4	M12	14	45	2
PN40	95	65	4	M12	14	45	2
PN64	105	75	4	M12	14	45	2
ANSI 150	89	60	4	1⁄2 (13)	16	35	1.6
ANSI 300	95	67	4	1⁄2 (13)	16	35	1.6
Table D	95	67	4	1⁄2 (13)	14	-	-
Table E	95	67	4	1⁄2 (13)	14	-	-
Table F	95	67	4	1⁄2 (13)	14	-	-
Table G	114	83	4	% (16)	17	57	2

1"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	100	75	4	M10	11	60	2
PN10	115	85	4	M12	14	68	2
PN16	115	85	4	M12	14	68	2
PN25	115	85	4	M12	14	68	2
PN40	115	85	4	M12	14	68	2
PN64	140	100	4	M16	18	68	2
ANSI 150	114	79	4	1⁄2 (13)	16	51	1.6
ANSI 300	124	89	4	1⁄2 (16)	19	51	1.6
Table D	114	83	4	1⁄2 (13)	14	-	-
Table E	114	83	4	1⁄2 (13)	14	-	-
Table F	121	87	4	% (16)	17	-	-
Table G	121	87	4	% (16)	17	64	2

1½"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	130	100	4	M12	14	80	3
PN10	150	110	4	M16	18	88	3
PN16	150	110	4	M16	18	88	3
PN25	150	110	4	M16	18	88	3
PN40	150	110	4	M16	18	88	3
PN64	170	125	4	M20	22	1.6	3
ANSI 150	127	98	4	1⁄2 (13)	16	1.6	1.6
ANSI 300	156	114	4	³ ⁄4 (19)	22	73	1.6
Table D	133	98	4	1⁄2 (13)	14	-	-
Table E	133	98	4	1⁄2 (13)	14	-	-
Table F	140	105	4	% (16)	17	-	-
Table G	140	105	4	% (16)	17	83	2

2 ½"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	160	130	4	M12	14	110	3
PN10	185	145	4	M16	18	122	3
PN16	185	145	4	M16	18	122	3
PN25	185	145	8	M16	18	122	3
PN40	185	145	8	M16	18	122	3
PN64	205	160	8	M20	22	122	3
ANSI 150	178	140	4	% (16)	19	105	1.6
ANSI 300	191	149	8	³⁄4 (19)	22	105	1.6
Table D	165	127	4	% (16)	17	-	-
Table E	165	127	4	% (16)	17	-	-
Table F	184	146	8	% (16)	17	-	-
Table G	184	146	8	% (16)	17	114	2

3⁄4"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	90	65	4	M10	11	50	2
PN10	105	75	4	M12	14	58	2
PN16	105	75	4	M12	14	58	2
PN25	105	75	4	M12	14	58	2
PN40	105	75	4	M12	14	58	2
PN64	130	90	4	M16	18	58	2
ANSI 150	98	70	4	1⁄2 (13)	16	43	1.6
ANSI 300	117	83	4	% (16)	19	43	1.6
Table D	102	73	4	1⁄2 (13)	14	-	-
Table E	102	73	4	1⁄2 (13)	14	-	-
Table F	102	73	4	1⁄2 (13)	14	-	-
Table G	114	83	4	% (16)	17	57	2

1¼"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	120	90	4	M12	14	70	2
PN10	140	100	4	M16	18	78	2
PN16	140	100	4	M16	18	78	2
PN25	140	100	4	M16	18	78	2
PN40	140	100	4	M16	18	78	2
PN64	155	110	4	M20	22	78	2
ANSI 150	117	89	4	1⁄2 (13)	16	64	1.6
ANSI 300	133	98	4	% (16)	19	64	1.6
Table D	121	87	4	1⁄2 (13)	14	-	-
Table E	121	87	4	1⁄2 (13)	14	-	-
Table F	133	98	4	% (16)	17	-	-
Table G	133	98	4	% (16)	17	76	2

2"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	140	110	4	M12	14	90	3
PN10	165	125	4	M16	18	102	3
PN16	165	125	4	M16	18	102	3
PN25	165	125	4	M16	18	102	3
PN40	165	125	4	M16	18	102	3
PN64	180	135	4	M20	22	102	3
ANSI 150	152	121	4	% (16)	19	92	1.6
ANSI 300	165	127	8	% (16)	19	92	1.6
Table D	152	114	4	% (16)	17	-	-
Table E	152	114	4	% (16)	17	-	-
Table F	165	127	4	% (16)	17	-	-
Table G	165	127	4	% (16)	17	102	2

3"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	190	150	4	M16	18	128	3
PN10	200	160	8	M16	18	138	3
PN16	200	160	8	M16	18	138	3
PN25	200	160	8	M16	18	138	3
PN40	200	160	8	M16	18	138	3
PN64	215	170	8	M20	22	138	3
ANSI 150	191	152	4	% (16)	19	127	1.6
ANSI 300	210	168	8	³ ⁄4 (19)	22	127	1.6
Table D	184	146	4	% (16)	17	-	-
Table E	184	146	4	% (16)	17	-	-
Table F	203	165	8	% (16)	17	-	-
Table G	203	165	8	% (16)	17	127	2

4"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	210	170	4	M16	18	148	3
PN10	220	180	8	M16	18	158	3
PN16	220	180	8	M16	18	158	3
PN25	235	190	8	M20	22	162	3
PN40	235	190	8	M20	22	162	3
PN64	250	200	8	M24	26	162	3
ANSI 150	229	191	8	5⁄4 (16)	19	157	1.6
ANSI 300	254	200	8	³ ⁄ ₄ (19)	22	157	1.6
Table D	216	178	4	% (16)	17	-	-
Table E	216	178	8	5⁄8 (16)	17	-	-
Table F	229	191	8	% (16)	17	-	-
Table G	229	191	8	% (16)	17	152	2

5"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	240	200	8	M16	18	178	3
PN10	250	210	8	M16	18	188	3
PN16	250	210	8	M16	18	188	3
PN25	270	220	8	M24	26	188	3
PN40	270	220	8	M24	26	188	3
PN64	295	240	8	M27	30	188	3
ANSI 150	254	216	8	³⁄₄ (19)	22	186	1.6
ANSI 300	279	235	8	³⁄₄ (19)	22	186	1.6
Table D	254	210	8	% (16)	17	-	-
Table E	254	210	8	% (16)	17	-	-
Table F	279	235	8	³ ⁄ ₄ (19)	22	-	-
Table G	279	235	8	³⁄₄ (19)	22	178	2

6"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	265	225	8	M16	18	202	3
PN10	285	240	8	M20	22	212	3
PN16	285	240	8	M20	22	212	3
PN25	300	250	8	M24	26	218	3
PN40	300	250	8	M24	26	218	3
PN64	345	280	8	M30	33	218	3
ANSI 150	279	241	8	³∕₄ (19)	22	216	1.6
ANSI 300	318	270	12	³⁄4 (19)	22	216	1.6
Table D	279	235	8	% (16)	17	-	-
Table E	279	235	8	³ ⁄ ₄ (19)	22	-	-
Table F	305	260	12	³⁄₄ (19)	22	-	-
Table G	305	260	12	³⁄4 (19)	22	210	2

8"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	320	280	8	M16	18	258	3
PN10	340	295	8	M20	22	268	3
PN16	340	295	12	M20	22	268	3
PN25	360	310	12	M24	26	278	3
PN40	375	320	12	M27	30	285	3
PN64	415	345	12	M33	36	285	3
ANSI 150	343	298	8	³⁄₄ (19)	22	270	1.6
ANSI 300	381	330	12	% (22)	25	270	1.6
Table D	337	292	8	% (16)	17	-	-
Table E	337	292	8	³ ⁄ ₄ (19)	22	-	-
Table F	368	324	12	³⁄₄ (19)	22	-	-
Table G	368	324	12	³⁄₄ (19)	22	260	2

10"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	375	335	12	M16	18	312	3
PN10	395	350	12	M20	22	320	3
PN16	405	355	12	M24	26	320	3
PN25	425	370	12	M27	30	335	3
PN40	450	385	12	M30	33	345	3
PN64	470	400	12	M33	36	345	3
ANSI 150	406	362	12	% (22)	25	324	1.6
ANSI 300	445	387	16	1 (25)	29	324	1.6
Table D	406	356	8	³ ⁄ ₄ (19)	22	-	-
Table E	406	356	12	³ ⁄ ₄ (19)	22	-	-
Table F	432	381	12	% (22)	25	-	-
Table G	432	381	12	% (22)	25	311	2

12"	Dia. of flange	PCD	Number of bolts	Dia. of Bolts	Dia of holes	Dia. of RF	Height of RF
PN6	440	395	12	M20	22	365	4
PN10	445	400	12	M20	22	370	4
PN16	460	410	12	M24	26	378	4
PN25	485	430	16	M27	30	395	4
PN40	515	450	16	M30	33	410	4
PN64	530	460	16	M33	36	375	4
ANSI 150	483	432	12	% (22)	25	381	1.6
ANSI 300	521	451	16	11⁄8 (28)	32	381	1.6
Table D	457	406	12	³ ⁄ ₄ (19)	22	-	-
Table E	457	406	12	³ ⁄ ₄ (19)	22	-	-
Table F	489	438	16	% (22)	25	-	-
Table G	489	438	16	% (22)	25	311	2





Equipamientos/Assembling Set/Ensemble d'installation Válvulas de mariposa/Butterfly valves/Vannes à papillon UNI VF700 (wafer) PN10

	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Stay bol	Espárrago con Tuercas Stay bolts with nuts Tige filetée avec écrous					
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número				
40	4	M16x85	-	-	2				
50	4	M16x100	-	-	2				
65	4	M16x110	-	-	2				
80	8	M16x110	-	-	2				
100	8	M16x110	-	-	2				
125	8	M16x120	-	-	2				
150	8	M20x125	-	-	2				
200	8	M20x140	-	-	2				
250	12	M20x150	-	-	2				
300	12	M20x160	-	-	2				
350	16	M20x160	-	-	2				
400	16	M24x200	-	-	2				
450	20	M24x220	-	-	2				
500	20	M24x230	-	-	2				
600	20	M27x270	-	-	2				
700	8	M27x70	20/40	M27x310	2				
800	8	M30x80	20/40	M30x340	2				
900	8	M30x80	24/48	M30x360	2				
1000	8	M33x80	24/48	M33x380	2				

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN10 (DIN2632)

Equipamientos/Assembling Set/Ensemble d'installation
Válvulas de mariposa/Butterfly valves/Vannes à papillon
LINI VE700 (wafer) PN16

	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Stay bo	Espárrago con Tuercas Stay bolts with nuts Tige filetée avec écrous		
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	
40	4	M16x90	-	-	2	
50	4	M16x100	-	-	2	
65	4	M16x110	-	-	2	
80	8	M16x110	-	-	2	
100	8	M16x120	-	-	2	
125	8	M16x130	-	-	2	
150	8	M20x140	-	-	2	
200	12	M20x140	-	-	2	
250	12	M24x160	-	-	2	
300	12	M24x180	-	-	2	
350	16	M24x180	-	-	2	
400	16	M27x220	-	-	2	
450	20	M27x230	-	-	2	
500	20	M30x250	-	-	2	
600	20	M33x300	-	-	2	
700	8	M33x90	20/40	M33x340	2	
800	8	M36x90	20/40	M36x370	2	
900	8	M36x90	24/48	M36x390	2	
1000	8	M39x100	24/48	M39x420	2	

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN16 (DIN2633)



Equipamientos/Assembling Set/Ensemble d'installation Válvulas de mariposa/Butterfly valves/Vannes à papillon UNI VF750 (lug) PN10_____

	Torr Bo	Bridas Flanges/Brides	
	Bou		PN10*
	Número	Dimensión	Número
DN	Quantity	Size	Quantity
	Número	Dimension	Número
25	8	M12x30	2
32	8	M16x30	2
40	8	M16x30	2
50	8	M16x35	2
65	8	M16x40	2
80	16	M16x40	2
100	16	M16x40	2
125	16	M16x45	2
150	16	M20x45	2
200	16	M20x50	2
250	24	M20x55	2
300	24	M20x60	2
350	32	M20x60	2
400	32	M24x70	2
450	40	M24x70	2
500	40	M24x80	2
600	40	M27x80	2

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN10 (DIN2632)

Equipamientos/Assembling Set/Ensemble d'installation Válvulas de mariposa/Butterfly valves/Vannes à papillon UNI VF750 (lug) PN16

	Torn Bo Boul	Bridas Flanges/Brides PN16*						
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número					
25	8	M12x30	2					
32	8	M16x30	2					
40	8	M16x30	2					
50	8	M16x35	2					
65	16	M16x40	2					
80	16	M16x40	2					
100	16	M16x40	2					
125	16	M16x45	2					
150		M20x45	2					
200	24	M20x50	2					
250	24	M24x55	2					
300	24	M24x60	2					
350	32	M24x60	2					
400	32	M27x75	2					
450	40	M27x80	2					
500	40	M30x90	2					
600	40	M33x90	2					

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN16 (DIN2633)



Equipamientos/Assembling Set/Ensemble d'installation Válvulas y filtros bridados PN10 Flanged Valves and Strainers PN10 Vannes et filtres à brides PN10

	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Bridas Flanges/Brides PN10*	Juntas Gaskets Joints				
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Número Quantity Número				
15	8	M12x45	2	2				
20	8	M12x50	2	2				
25	8	M12x50	2	2				
32	8	M16x55	2	2				
40	8	M16x55	2	2				
50	8	M16x60	2	2				
65	8	M16x60	2	2				
80	16	M16x65	2	2				
100	16	M16x65	2	2				
125	16	M16x70	2	2				
150	16	M20x75	2	2				
200	16	M20x80	2	2				
250	24	M20x80	2	2				
300	24	M20x80	2	2				
350	32	M20x90	2	2				
400	32	M24x90	2	2				
450	40	M24x100	2	2				
500	40	M24x100	2	2				

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN10 (DIN2632)

Equipamientos/Assembling Set/Ensemble d'installation Válvulas y filtros bridados PN25 Flanged Valves and Strainers PN25 Vannes et filtres à brides PN25

	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Bridas Flanges/Brides PN25*	Juntas Gaskets Joints					
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Número Quantity Número					
15	8	M12x50	2	2					
20	8	M12x55	2	2					
25	8	M12x55	2	2					
32	8	M16x55	2	2					
40	8	M16x55	2	2					
50	8	M16x60	2	2					
65	16	M16x65	2	2					
80	16	M16x70	2	2					
100	16	M20x70	2	2					
125	16	M24x80	2	2					
150	16	M24x90	2	2					
200	24	M24x90	2	2					
250	24	M27x100	2	2					
300	32	M27x100	2	2					
350	32	M30x110	2	2					
400	32	M33x120	2	2					
450	40	M33x130	2	2					
500	40	M33x130	2	2					
600	40	M36x150	2	2					

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN

Equipamientos/Assembling Set/Ensemble d'installation Válvulas y filtros bridados PN16 Flanged Valves and Strainers PN16 Vannes et filtres à brides PN16

Vannes et filtres à brides PN16						
	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Bridas Flanges/Brides PN16*	Juntas Gaskets Joints		
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Número Quantity Número		
15	8	M12x45	2	2		
20	8	M12x50	2	2		
25	8	M12x50	2	2		
32	8	M16x55	2	2		
40	8	M16x55	2	2		
50	8	M16x60	2	2		
65	8	M16x60	2	2		
80	16	M16x65	2	2		
100	16	M16x65	2	2		
125	16	M16x70	2	2		
150	16	M20x80	2	2		
200	24	M20x80	2	2		
250	24	M24x90	2	2		
300	24	M24x90	2	2		
350	32	M24x100	2	2		
400	32	M27x100	2	2		
450	40	M27x100	2	2		
500	40	M30x110	2	2		
600	40	M33x140	2	2		

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN16(DIN2633)

Equipamientos/Assembling Set/Ensemble d'installation Válvulas y filtros bridados PN40 Flanged Valves and Strainers PN40 Vannes et filtres à brides PN40

	-			
	Tornillos con Tuercas Bolts with nuts Boulons avec écrous		Bridas Flanges/Brides PN40*	Juntas Gaskets Joints
DN	Número Quantity Número	Dimensión Size Dimension	Número Quantity Número	Número Quantity Número
15	8	M12x50	2	2
20	8	M12x55	2	2
25	8	M12x55	2	2
32	8	M16x55	2	2
40	8	M16x55	2	2
50	8	M16x60	2	2
65	16	M16x65	2	2
80	16	M16x70	2	2
100	16	M20x70	2	2
125	16	M24x80	2	2
150	16	M24x90	2	2
200	24	M27x100	2	2
250	24	M30x110	2	2
300	32	M30x120	2	2
350	32	M33x130	2	2
400	32	M36x140	2	2
450	40	M36x150	2	2
500	40	M39x150	2	2
600	40	M45x190	2	2

*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN40 (DIN2635)

Apéndice Técnico * Technical Annex * Annexe Technique

	Manguitos/Rubber Joints/Manchons PN10						
	Tornillos o Bolts v Boulons a	Bridas Flanges Brides PN10*					
DN	Número Dimensión Quantity Size DN Número Dimension		Número Quantity Número				
25	8	M12x50	2				
32	8	M16x50	2				
40	8	M16x50	2				
50	8	M16x60	2				
65	8	M16x60	2				
80	16	M16x65	2				
100	16	M16x70	2				
125	16	M16x70	2				
150	16	M20x80	2				
200	16	M20x80	2				
250	24	M20x80	2				
300	24	M20x80	2				
350	32	M20x90	2				
400	32	M24x100	2				
450	40	M24x100	2				
500	40	M24x100	2				
600	40	M27x110	2				

Equipamientos/Assembling Set/Ensemble d'installation



*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN10 (DIN2632)

Si se utilizan tirantes tener en cuenta el espesor de la placa If limits rods are used consider additional thickness Considerez l'épaisseur des plaques de tiroirs en cas d'utilisation

Equipamientos/Assembling Set/Ensemble d'installation Válvulas retención doble clapeta/Dual plate Check Valves Clapets de non retour à double battants UNICHECK CH2222 (wafer)

	UNICHECK CH2222 (wafer)					
	Tornillos co Bolts w Boulons av	Bridas Flanges/Brides PN10*				
DN	Número Dimensión Quantity Size DN Número Dimension		Número Quantity Número			
50	4	M16x100	2			
65	4	M16x110	2			
80	8	M16x130	2			
100	8	M16x130	2			
125	8	M16x140	2			
150	8	M20x160	2			
200	8	M20x180	2			
250	12	M20x200	2			
300	12	M20x200	2			



*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN10 (DIN2632)

Equipamientos/Assembling Set/Ensemble d'installation Válvulas de Clapeta Oscilante/Swing Check Valves Clapets Simple Battant

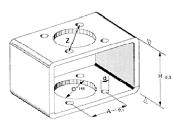
UNICHECK CV (water)					
	Tornillos Bolts Boulons	Bridas Flanges/Brides PN16*			
DN	Número Dimensión Quantity Size DN Número Dimension		Número Quantity Número		
32	4	M16x75	2		
40	4	M16x75	2		
50	4	M16x80	2		
65	4	M16x80	2		
80	8	M16x80	2		
100	8	M16x85	2		
125	8	M16x85	2		
150	8	M20x90	2		
200	12	M20x100	2		
250	12	M24x110	2		
300	12	M24x120	2		

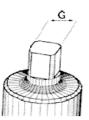


*Bridas con cuello para soldar/Welding neck flanges/Brides à souder à collerette EN1092-1 11 PN16 (DIN2633)

Extract from ISO:5211 & DIN:3337

ISO:5211 defines the actuator mounting dimensions and drive square size DIN:3337 defines a 45 deg orientation of the actuators' square drive shaft





	ØD	A (±0.1)	Ød (±0.1)	ØZ (±0.1)	No. of bolts	Bolt Ø	H (±0.5)	G
F03	25	25.5	5.5	36	4	M5	50	9
F04	30	29.7	5.5	42	4	M5	50	11
F05	35	35.4	6.5	50	4	M6	60	14
F07	55	49.5	8.5	70	4	M8	60	17
F10	70	72.1	10.5	102	4	M10	80	22
F12	85	88.4	12.5	125	4	M12	80	27
F14	100	99	17	140	4	M16	90	36
F16	130	116.7	21	165	4	M20	120	46
F25	200	254	17	254	8	M16	180	55

Extract from IEC:60529 (IP Code)

IEC:60529 describes a system for classifying the degrees of protection provided by the enclosures of electrical equipment. The system uses a 2 number code, the combination of which indicates the degree of protection

1st code Number	Level of protection against the ingress of solid foreign bodies	2nd code Number	Level of protection against water
0	No protection	0	No protection
1	≥ 50mm diameter	1	Vertical dripping
2	≥ 12.5mm diameter	2	Angled (15deg) dripping
3	≥ 2.5mm diameter	3	Spraying (light water splashes)
4	≥ 1mm diameter	4	Spraying (water splashes)
5	Dust protected	5	Jetting (water squirts)
6	Dust tight	6	Powerful jetting
		7	Temporary immersion
		8	Continuous immersion

Further details for most common codes

2nd code Number	Test means	Water flow Litres/min	Duration of test
5	Water jet hose nozzle. Nozzle 6.3mmØ Distance 2.5 to 3m	12.5 ±5%	1 minute per m2 for at least 3 minutes
6	Water jet hose nozzle. Nozzle 12.5mmØ Distance 2.5 to 3m	100 ±5%	2 minute per m2 for at least 3 minutes
7	Immersion tank. Water level on enclosure 0.15m above the top, 1m above the bottom	N/A	30 minutes
8	Immersion Tank. Water level on agreement	N/A	By agreement



Terms And Conditions Of Sale And Delivery

Alma Engineering Supplies Ltd Unit 13, Village Mill Enterprise Park Rathnew, Co. Wicklow Tel: 0404 64353 E-mail: info@alma-valves.ie

1. Introduction;

"Contract" means the contract between ALMA and You the Buyer for the supply of Goods in accordance with these Terms;

"Goods" means the goods supplied by ALMA to You, the Buyer as set out in the Order;

"ALMA" or "Company" means Alma Engineering Supplies Limited;

"Order" means the method by which You communicate Your order for the Goods You require from ALMA from time to time;

"You","Your" or "the Buyer" means the person or firm who purchases Goods from ALMA.

These Terms apply to the Contract to the exclusion of any other terms that You seek to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

No variation, and no additional terms and conditions to this Order, will be valid unless accepted in writing and signed by ALMA .

2. Delivery;

(a) All obligations to supply materials are entered into by ALMA. upon the express condition that the Company has the right to suspend deliveries without involving any responsibility upon the Company during any period of prevention or delay attributed to the following causes: War, fire, strikes, lockouts, combinations of workmen, fog, weather conditions, shipping delays, road transport delays, unavailability of materials, or any accident or other cause beyond the Company and/or its suppliers.

(b) ALMA will use all reasonable endeavours to meet any delivery dates specified by You, but any date for delivery named by the Company is an estimate only and in no circumstances shall the failure of the Company to deliver on or before the names date either entitle the Buyer to rescind or terminate the contract or make the Company liable in any way for the consequences of any delay. Material from stock is offered subject to being unsold upon receipt of order.

(c) PLEASE NOTE: Any claim relating to goods delivered under this contract shall be notified to the Company in writing within 3 working days from the date on which the said goods are received by the Buyer or his agent. The Buyer shall afford the Company reasonable facilities for examining the goods before they have been disposed of, or treated, or in any way altered. All goods damaged in transit and accepted in that condition by the Buyer shall not be subject of any claim hereunder.

(d) The signature of any employee or agent or ostensible agent of the Buyer acknowledging receipt of the goods shall be conclusive evidence of receipt of the goods specified on the relevant Delivery Docket.

Your obligations. You will;

3.

Ensure the details of the Order and any information provided regarding a specification are complete and accurate.

Ensure that any specification requested by You or proposed by ALMA is sufficient to ensure that the end product of the Goods is fit for the purpose required by You.

Provide ALMA with such information as it may reasonably require in order to supply the Goods.

Notify ALMA within 3 days of delivery where a defect is discovered in the Goods upon delivery.

4. Specification and performance;

ALMA will provide the Goods to You, the Buyer, in accordance in all material respects with any specification You have supplied and that has been referenced in the Order Acceptance.

Where You have supplied a specification to ALMA, You shall indemnify ALMA against all liabilities, costs, expenses, damages and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties and legal and other reasonable professional costs and expenses) suffered or incurred by ALMA in connection with any claim made against ALMA for actual or alleged infringement of a third party's intellectual property rights arising out of or in connection with ALMA's use of the specification. This shall survive termination of the Contract.

Where the Goods are manufactured in accordance with information or drawings supplied by You or to Your design or specification or where standard Goods are altered in accordance with Your instructions, no guarantee or warranty is given by ALMA as to the practicability, efficiency, safety or otherwise of the Goods (this being without prejudice to any of the other Terms).



Where no specification has been supplied by You: ALMA will provide the Goods based on the information You have supplied and use all reasonable endeavours to ensure the Goods meet the purpose for which they are required.

ALMA will not be liable if the Goods do not meet the particular level of performance that they are required for. Where ALMA provides advice on specification, You remain responsible for ensuring that the specification is adequate for the purposes You require. No variation in the specification or design of any Goods, which in the reasonable opinion of ALMA does not affect the suitability of the Goods for the purpose for which they are supplied, will constitute a breach of Contract or impose upon ALMA any liability whatsoever.

5. Order / Quotations and Payment;

All quotations are subject to prices ruling at date of despatch (notwithstanding prices quoted). The prices quoted are exclusive of VAT which will be added to the invoice at the rate then current and appropriate to the transaction.

Accounts must be settled within SIXTY days from date of invoice / E.O.M as per terms agreed. Otherwise overdue accounts will be put on hold until payment. Interest shall be charged by the Company at the current rate of interest on all amounts remaining due and owing after the credit period referred to in the Application for Credit Facilities form has expired and such interest shall accrue on a daily basis. If no Credit Application Form has been completed and signed then payments must be made in THIRTY days (EU Directive 2000/35/EC). Alma is currently covered by Credit Insurance therefore failure to pay within the terms agreed may result in debts being passed on for collection by the Insurance Company.

The company reserves the right to cancel or refuse to accept any order for goods quoted, without any reason therefore. Cancellation or refusal shall be communicated in writing to the buyer's last known address. Any cancellation of order received by the company must be in writing, otherwise the order stands.

Orders are accepted only on the strict understanding that the Company's responsibility for any claim connected with materials supplied by the Company shall be limited to the replacement of such materials and shall exclude all consequential claims. Any recommendation made by the Company relating to the use of the goods is given in good faith, but it is for the Buyer to satisfy himself as to the suitability of the goods for his own particular purpose and the Company gives no warranty as to the fitness of goods for any particular purpose.

6. Warranty;

ALMA warrants that the Goods will be free from any defects in material or workmanship for a period of one year after the date of delivery to You, the buyer.

As ALMA is not the manufacturer of the Goods ALMA will use reasonable endeavours to transfer to You the benefit of any warranty or guarantee given by the manufacturer.

7. Title and Risk;

The risk in the Goods shall pass to You on completion of delivery.

Title to the Goods shall not pass to You until ALMA has received payment in full (in cash or cleared funds) for the Goods.

Ownership of goods shall be governed by the 'Reservation of Title' as agreed and signed by your company. Until title to the Goods has passed to You, You shall:

(a) hold the Goods on a fiduciary basis as ALMA's bailee;

(b) store the Goods separately from all other Goods and any other stock held by You so that they remain readily identifiable as ALMA's property;

(c) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

(d) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery; and

(e) notify ALMA immediately if You become subject to any of the events listed in Clause 9 but You may resell or use the Goods in the ordinary course of Your business.

If, before title to the Goods passes to You, You become subject to any of the events listed in clause 9, or ALMA reasonably believes that any such event is about to happen and notifies You accordingly, then, provided that the Goods have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy

Alma Engineering Supplies Ltd Terms and Conditions



ALMA may have, ALMA may at any time require You to deliver up the Goods and, if You fail to do so promptly, enter Your premises or those of any third party where the Goods are stored in order to recover them.

LIEN on Goods;

ALMA shall have a lien on all of the goods of the Buyer from time to time in the possession of the Company whether pursuant to this Contract of sale or Otherwise for all amounts due to the Company hereunder or otherwise. If the Buyer does not discharge the lien within thirty days of it being imposed, by payment of all amounts due, the Company shall have the rights to sell the goods, the subject of the lien and to deduct from the net proceeds of sale all amounts due to the Company.

If the Buyer, being an individual, or where the buyer is a firm, any partner in it, shall at any time become bankrupt or shall have a receiving order or administration order made against him or shall make any composition or arrangement with or for the benefit of his creditors or if the Buyer being a company shall pass a resolution or a court shall make an order that it be wound up (not being a Members of Voluntary winding up for the purpose of reconstruction or amalgamation) or if a receiver or manager on behalf of a creditor shall be appointed or if circumstances arise which entitle the court to make a winding-up order or if the Buyer becomes insolvent then the company shall be entitled forthwith on notice to the Buyer to terminate the contact without compensation to the buyer but without prejudice to any rights of the company hereunder.

8. Liability

Except as set out in these Terms, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

Nothing in these Terms excludes or limits ALMA's liability for death or personal injury caused by negligence, or for fraud or fraudulent misrepresentation.

ALMA will not be liable to You, whether in Contract, tort (including negligence), breach of statutory duty, or otherwise for any loss of profit, or an indirect or consequential loss arising under or in connection with the Contract.

ALMA shall have no liability for defective Goods unless the relevant Goods are returned to ALMA for inspection within 28 days of the discovery of any defect. ALMA shall use all reasonable endeavours to rectify defects in the Goods, provided that the defective Goods are made available to ALMA in the same condition as they were supplied i.e. are not damaged or altered. This Clause shall survive termination of the Contract.

9. General;

All notices, etc, to be served hereunder shall be deemed duly served or delivered within two days of posting or within twenty-four hours of faxing same to the receiving party.

(i) This contract is governed by Irish Law

(ii) Any dispute under the contract shall be referred to an Arbitrator or Arbitrators to be appointed by the parties, or in default of agreement, by the President of the Law Society of Ireland for the time being and his discretion shall be binding on both parties, and this shall be a submission to Arbitration within the Arbitration Act, 1954 or any statutory amendment thereof for the time being in force.

(iii) In this clause 'dispute' does not include a claim for the price of goods sold by the Company to be Buyer.

The above terms are accepted as overriding any terms or conditions that may be included in any request document or subsequent order from the Buyer.

No variation of these terms shall be entertained unless in writing and signed on behalf of the Company.

10. DATA PROTECTION

ALMA ENGINEERING SUPPLIES LTD are legally obliged to inform you that we currently hold the following details on our secure accounting software / server. This information is purely for maintaining our trading relationship and general communication purposes. Your information is backup for security purposes by a trusted 3rd party.

We do not share the information with any 3rd parties, other than limited courier companies for delivery purposes and our approved and compliant Merchant Service supplier if you avail of our Credit Card facility. If you visit our Website we only gather anonymous 3rd. party data.

Terms and Conditions are subject to change and up to date T&C will always be available to view on our website.

Alma Engineering Supplies Ltd Terms and Conditions



The information retained is all or part of the following;

- 1. Company name
- 2. Contact name/ /Trading name for buyers, sales, accounts and management
- 3. Trade References (if given at time of account setup).
- 4. Head office / Invoicing address including various possible 3rd party site location delivery addresses.
- 5. Contact numbers and fax numbers as supplied by yourselves
- 6. Email addresses as supplied by yourselves
- 7. Invoice and Product Acquisition/Quoting Activity.
- 8. Vat No. / Company Registered No.
- 9. Bank account details
- 10. Euler Hermes Credit Rating (if applicable)

If you object to any of the data listed above being held on you, please contact us directly and we will remove any of the information. By law were are required to keep a record of financial transactions for a period of 7 years, thereafter, we delete the details of these transactions. By continuing to communicate with, supply or order from Alma, you will have indicated your acceptance of our GDPR policy.

Please find our Privacy Statement on our website should you need it.

Alma Engineering Supplies Ltd Terms and Conditions



NOTES

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0404 64353

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