



22 Sarum Complex,
Salisbury Road,
Uxbridge,
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UB8 2RZ

ISO9001 & ISO15000



VALVES, SWITCHES, INSTRUMENTATION
AND SYSTEMS FOR
PRESSURE FLOW AND
TEMPERATURE APPLICATIONS

Tel: 01895 200015 Fax: 01895 252205
E-Mail: info@tamo.co.uk Website: www.tamo.co.uk



Manual & Automated Ball Valves

Fire Safe Valves

Metal Seated Valves

Three Way Valves

Automated Valves





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Standard Service Three Piece Ball Valves

Product Matrix for Marwin Valves				
Model	4600 Series	8700 Series	KF8900 Series	4700 Series
Key Features	Brass 3-piece 600 WOG ball valve, swing-out design, cost effective valve for common fluid control applications	3-piece 1000 WOG carbon or stainless steel ball valve, ISO 5211 direct mount actuator pad, locking handle, tongue & groove body seal, live loaded packing, in-line maintainable	Cavity filled 3-piece 1000 WOG, stainless steel ball valve, locking handle, ISO 5211 actuator mounting pad, 25 Ra polished internal wetted surfaces, swing-out design	3-piece 2000 WOG carbon or stainless steel ball valve, API 607 fire tested (std), ISO 5211 direct mount actuator pad, locking handle, tongue & groove body seal, spring loaded packing, in-line maintainable
Sizes	1-1/4" – 3" S.P. (DN32 – 80) 1/4" – 2-1/2" F.P. (DN8 – 65)	1/2" – 2" (DN15 – 50)	1/2" – 4" (DN15 – 100)	1/2" – 4" (DN15 – 100)
Port	Standard and Full Port	Full Port	Full Port	Full Port
Maximum Pressure	Up to 600 psi (Up to 40 bar)	Up to 1000 psi (Up to 69 bar)	Up to 1000 psi (Up to 69 bar)	Up to 2000 psi (Up to 138 bar)
Temperature Range	-20° to +325°F (-29° to +163°C)	-20° to +450°F (-29° to +232°C)	-20° to +400°F (-29° to +204°C)	-20° to +450°F (-29° to +232°C)
Steam Pressure	Up to 125 psi (Up to 8,6 bar)	Up to 225 psi (Up to 15,5 bar) (RPTFE seats)	Up to 75 psig (Up to 5,2 bar)	Up to 200 psi (13,8 bar) (RPTFE Seats) Up to 275 psi (20,0 bar) (CRPTFE Seats)
Body Materials	Brass	Carbon and Stainless Steel	Stainless Steel	Carbon and Stainless Steel
Trim Materials	Chrome Plated Brass, Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Seat Materials	PTFE	RPTFE (Std), PTFE, CRPTFE, 50% SSPTFE	PTFE	RPTFE, PTFE, CRPTFE, 50% SSPTFE
End Connections	NPT, Solder	NPT, SWE	Clamp (Std), NPT	NPT, SWE
Options		Seat and packing materials, special service preparation, upstream vented ball, fusible link, gear operator, automation	Upstream vented ball, limit switches, automation	Seat & packing materials, special service preparation, upstream vented ball, fusible link, gear operator, automation








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High Performance Three Piece Ball Valves

				
3000 Series	10000 Series	CV3000 Series	MS3000 Series	MS10000 Series
High pressure valve with encapsulated seats (up to 4000 WOG), triple stem seal, dual body seals and individually bolted end caps, API 607 fire tested	Super high pressure valve with encapsulated seats (up to Class 2500/6000 WOG), triple stem seal, dual body seals, and individually bolted end caps	Control valve with interchangeable upstream characterized plate, encapsulated seats, triple stem seal and dual body seals	Carbon or Metal seated valve for high temperature and wear applications, extended bonnet, enhanced packing and dual body seals	Metal seated valve for high temperature, pressure and wear applications, welded bonnet, enhanced packing and dual body seals
1/2" – 4" S.P. (DN15 – 100) 1/4" – 3" F.P. (DN8 – 80)	1/4" – 2", 3" x 2" (DN8 – 50, DN80 x 50)	1/2" – 4" S.P. (DN15 – 100) 1/4" – 3" F.P. (DN8 – 80)	1/4" – 2" (DN8 – 50)	1/4" – 2", 3" x 2" (DN8 – 50, DN80 x 50)
Standard and Full Port	Sch. 160 pipe diameter	Standard and Full Port	Sch. 160 pipe diameter	Sch. 160 pipe diameter
Up to 4000 psi (Up to 275 bar)	Up to 6000 psi (Up to 415 bar)	Up to 4000 psi (Up to 275 bar)	Up to 990 psi (Up to 69 bar)	Up to 3700 psi (Up to 255 bar)
-20° to +600°F (-29° to +316°C)	-20° to +600°F (-29° to +316°C)	-20° to +550°F (-29°C to +288°C)	-20° to 1000°F (-29° to +538°C)	-20° to +1000°F (-29° to +538°C)
Up to 450 psi (Up to 31 bar) (CPEEK Seats)	Up to 450 psi (Up to 31 bar) (CPEEK Seats)	Up to 450 psi (Up to 31 bar) (CPEEK Seats)	Up to 600 psi (Up to 41 bar) (Marwear W4 & W6 Seats)	Up to 1500 psi (Up to 103 bar) (Marwear W4 & W6 Seats)
WCB/A105, CF8M / 316SS, CF3M / 316L, Alloy 20, Bronze, Duplex, Hastelloy B and C, Monel, 254SMO, Titanium and other alloys			WCB / A105 CF8M / 316SS	
316SS, 316L SS, 17-4PH SS, Hastelloy C, Monel, or to match body alloy			316SS, 17-4PH SS	
PTFE, Glass-filled PTFE, Carbon-filled PTFE, UHMWPE, Kel-F, PFA, Delrin, PEEK, Carbon-filled PEEK, or to customer specification			316/Chrome Carbide, 316/Chrome Oxide, 316/Tungsten Carbide	
NPT, BSPT, Extended SWE or BWE, Tube Ends, Clamp Ends, Grooved Ends, Inverted Tube Nut, SAE O-Ring Boss, Flanged (ANSI or DIN) (Raised Face, Ring Type Joint, Smooth Facing)				
Assemble dry, chlorine prep., anhydrous ammonia service, extended bonnet, locking device, limit switch, NACE service, oxygen prep, fusible link, gear op., automation	Assemble dry, chlorine prep., NACE service, oxygen prep., extended bonnet, locking device, limit switch, gear op., automation	Characterized inserts available: round full flow; slotted linear control; 30°, 60°, 90°; V-slot and custom control slots, locking device, gear op., automation	Class IV, VI shut-off, double packing, locking device, automation	Class IV, VI shut-off, limit switches, gear op., automation






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Two Piece Ball Valves

Product Matrix for Marwin Valves				
Model	600 Series	DM600 Series	9000 Series	DM9000 Series
Key Features	2-piece 600 WOG brass ball valve; cost effective valve for common fluid control applications	2-piece direct mount 600 WOG brass ball valve, with O-ring energized Teflon seats for low torque, ISO 5211 direct mount actuator pad	2-piece 1000 WOG carbon and stainless steel ball valve; cost effective valve for common fluid control applications	2-piece direct mount 900 WOG stainless steel ball valve, with O-ring energized Teflon seats for low torque, ISO 5211 direct mount actuator pad
Sizes	1/2" – 2" S.P. (DN15 – 500) 1/4" – 4" F.P. (DN8 – 100)	1/4" – 4" (DN8 – 100)	1/2" – 2" S.P. (DN15 – 50) 1/4" – 3" F.P. (DN8 – 80)	1/2" – 2" (DN15 – 50)
Port	Standard and Full Port	Full Port	Standard and Full Port	Full Port
Maximum Pressure	Up to 600 psi (Up to 40 bar)	Up to 600 psi (Up to 40 bar)	Up to 1000 psi (Up to 69 bar)	Up to 900 psi (Up to 62 bar)
Temperature Range	-20° to +325°F (-29° to +163°C)	-20° to +325°F (-29° to +163°C)	-20° to +400°F (-29° to +204°C)	-20° to +325°F (-29° to +163°C)
Steam Pressure	Up to 125 psi (Up to 8,6 bar)	—	Up to 125 psig (Up to 8,6 bar)	—
Body Materials	Brass	Brass	Carbon and Stainless Steel	Stainless Steel
Trim Materials	Chrome Plated Brass (std), Stainless Steel	Chrome Plated Brass	Stainless Steel	Stainless Steel
Seat Materials	PTFE	PTFE	RPTFE	PTFE
End Connections	NPT, Solder	NPT	NPT	NPT,
Options	Stem & ball material, 3" extension stem, locking handle, safety vent	Automation	Limit switch, 3" extension stem	Automation



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Three Way Ball Valves

				
3LT/2Q33 Series	3L/T2SS Series	3T3100/3L3201 Series	3T3300/3L3400 Series	3T3700/3L3800 Series
3-way L or T port ball valve, 4 seated, bolted-on end caps anti-static stem, ISO 5211 actuator mounting pad, locking handle	3-way L or T port, trun-nion ball valve, 4 seated, bolted-on end caps, anti-static stem, ISO 5211 actuator mounting pad, locking handle	3-way brass bottom entry ball valve, 2 seated, T port transflow mixing valve (3T3100) or L Port non-transflow diverting valve (3L3201), threaded in end cap	3-way brass ball valve, 4 seated T port (3T3300) or L (3L3400), threaded-in end caps, ISO 5211 direct mount actuator pad, locking handle	3-way standard port stainless steel ball valve, 4 seated T port (3T3700) or L port (3L3800), threaded-in end caps, ISO 5211 actuator mounting pad, locking handle
3/8" – 1-1/2" (DN10 – 40)	2" – 6" (DN50 – 150)	1/4" – 3" (DN8 – 80)	1/4" – 2" (DN8 – 50)	1/4" – 2" (DN8 – 50)
Full Port	Full Port	Full Port	Standard Port	Standard Port
Up to 1000 psi (Up to 70 bar)	Up to 720 psi (Up to 50 bar)	Up to 300 psi (Up to 20 bar)	Up to 400 psi (Up to 28 bar)	Up to 800 psi (Up to 55 bar)
-20° to +400°F (-29° to +205°C)	-20° to +400°F (-29° to +205°C)	-20° to +400°F (-29°C to +205°C)	-20° to 400°F (-29° to +205°C)	-20° to +450°F (-29° to +235°C)
—	—	—	—	—
Stainless Steel (Q) Carbon Steel (P)	Stainless Steel (S) Carbon Steel (R)	Brass	Brass	Stainless Steel
Stainless Steel	Stainless Steel	Brass	Brass	Stainless Steel
RPTFE	RPTFE	PTFE	PTFE	RPTFE
NPT (std), ANSI Class 150FE, ANSI Class 300FE	ANSI Class 150FE (std), ANSI Calss 300FE, 2" NPT	NPT	NPT	NPT
L or T Port, automation	L or T Port, automation	L or T Port, automation (consult factory)	L or T Port, automation	L or T Port, automation



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Flanged Ball Valves

Product Matrix for Marwin Valves			
Model	2000 Series	5000/6000 Series	5801/6801 Series
Key Features	Cost effective Class 150 and 300 flanged end ball valves, uni-body design (Class 150 standard port), split body design (Class 150 & 300 full port), anti-static stem, ISO 5211 actuator mounting pad, locking handle	High performance API 607 fire safe, Class 150 and 300 flanged end ball valves, uni-body design (standard port), split body design (full port), anti-static stem, actuator mounting pad, <i>available in special alloys and designs only</i>	API 607 fire safe, Class 150 and 300 flanged end ball valves, split body design, anti-static stem, live loaded packing, ISO 5211 actuator mounting pad
Sizes	Class 150 (-F1) 1" – 4" S.P. (DN25 – 100) 1/2" – 6" F.P. (DN15 – 150) Class 300 (-F3) 1" – 6" F.P. (DN25 – 150)	1/2" – 10" S.P. (DN15 – 250) 1/2" – 8" F.P. (DN15 – 200)	1/2" – 10" S.P. (DN15 – 250) 1/2" – 8" F.P. (DN15 – 200)
Port	Standard and Full Port	Standard and Full Port	Standard and Full Port
Maximum Pressure	Up to 285 psi (CL 150) (Up to 19,6 bar) Up to 740 psi (CL 300) (Up to 51 bar)	Up to 285 psi (CL 150) (Up to 19,6 bar) Up to 740 psi (CL 300) (Up to 51 bar)	Up to 285 psi (CL 150) (Up to 19,6 bar) Up to 740 psi (CL 300) (Up to 51 bar)
Temperature Range	-20° to +400°F (RPTFE Seats) (-29° to +204°C)	-20° to +475°F (CRPTFE Seats) (-29° to +246°C)	-20° to +475°F (CRPTFE Seats) (-29° to +246°C)
Steam Pressure Class 150	Up to 175 psi (Up to 12,1 bar) (RPTFE Seats)	Up to 200 psi (Up to 13,8 bar) (RPTFE seats)	Up to 200 psi (17,2 bar) (RPTFE Seats) Up to 300 psi (21 bar) (CRPTFE Seats)
Steam Pressure Class 300	Up to 225 psi (15,5 bar) (RPTFE Seats) Up to 275 psi (19 bar) CRPTFE Seats	Up to 250 psi (17,2 bar) (RPTFE Seats) Up to 300 psi (21 bar) (CRPTFE Seats)	Up to 250 psi (17,2 bar) (RPTFE Seats) Up to 300 psi (21 bar) (CRPTFE Seats)
Body Materials	Carbon and Stainless Steel	WCB/A105, CF8M/316SS, CF3M/316L, Alloy 20, Bronze, Duplex, Hastelloy B & C, Monel, 254 SMO, Titanium & other alloys	Carbon and Stainless Steel
Trim Materials	Stainless Steel	316SS, 316L SS, 17-4PH SS, Hastelloy C, Monel, or match body alloy	Stainless Steel
Seat Materials	RPTFE (std.), PTFE, CRPTFE, UHMWPE	RPTFE (std.), PTFE, CRPTFE, UHMWPE, Kel-F (uni-body design), PEEK (uni-body design)	RPTFE (std.), PTFE, CRPTFE, UHMWPE
End Connections	Class 150 RF & Class 300 RF	Class 150 RF & Class 300 RF special facings	Class 150 RF & Class 300 RF
Options	Seat & packing materials, special service preparation, vented ball, steam jacket, limit switches, gear operator, automation	Seat & packing materials, flange facings, alloys, NACE, vented ball, special service preparation, locking device, limit switches, fusible link, gear operator, automation	Seat & packing materials, NACE, vented ball, drain tap, special service preparation, locking device, steam jacket, limit switches, fusible link, gear operator, automation



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Automation Accessories

UT Series Pneumatic Actuators

- Double Acting & Spring Return
- 12 sizes – torque to 36,600 in-lb (DA) & 16,700 in-lb (SR) @ 80 psi air supply
- Center located externally adjustable stops
- -4° to +185°F operating temperature standard, lower and higher temperature versions available
- Rack and pinion design
- ISO 5211 valve mounting
- NAMUR accessory mounting



ER Series Electric Actuators

- 13 sizes – torque to 14000 in-lb
- All common currents/voltages
- NEMA 4 & 7 enclosures
- Permanently lubricated reversing SPC motors controlled by cam-adjusted limit switches
- Heavy duty gears
- All common options available



Fusible Link Spring Return Units

- Compound linkage
- Valve handle functional
- 5 link yield temperatures – 135, 165, 212, 280, & 380°F
- Heavy duty spring assemblies
- 4 styles depending upon valve size and torque
- for fire-tested valves



Solenoid Valves

- NAMUR or nipple mount
- 3-way or 4-way
- NEMA 4 or 7
- All common currents/voltages
- High Cv



Valve Positioners

- Pneumatic or electro-pneumatic
- Used on pneumatic actuators
- Compares and adjusts valve position to input control signal



Valve Feedback and Switches

- NEMA 4 or 7
- NAMUR mount
- Many switch options
- Sealed aluminum housing
- Visual indicator





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Key markets include: water resources, oil & gas, refining, petrochemical, chemical and power. Other sectors include: paper products, tire and rubber, machinery and electrical equipment, transportation equipment and power generation.