



MARWINVALVE

# *Manual & Automated Ball Valves*

*Fire Safe Valves*





*Metal Seated Valves*

*Three Way Valves*


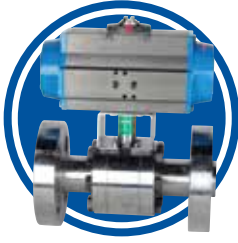



*Automated Valves*







## Standard Service Three Piece Ball Valves

Product Matrix for Marwin Valves				
Model	9000 Series	DM9000 Series	8700 Series	4700 Series
Key Features	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	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	3-piece 2000 WOG carbon or SS 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	1/2" – 2" R.P. (DN15 – 50) 1/4" – 3" F.P. (DN8 – 80)	1/2" – 2" (DN15 – 50)	1/2" – 2" (DN15 – 50)	1/2" – 4" (DN15 – 100)
Port	Reduced and Full Port	Full Port	Full Port	Full Port
Maximum Pressure	Up to 1000 psi (Up to 69 bar)	Up to 900 psi (Up to 62 bar)	Up to 1000 psi (Up to 69 bar)	Up to 2000 psi (1/2"-2") Up to 1000 psi (2-1/2"-4")
Temperature Range	-20° to +400°F (-29° to +204°C)	-20° to +325°F (-29° to +163°C)	-20° to +450°F (-29° to +232°C)	-20° to +450°F (-29° to +232°C)
Steam Pressure	Up to 125 psig (Up to 8,6 bar)	—	Up to 175 psi (Up to 12,1 bar) (RPTFE seats)	Up to 150 psi (10,3 bar) (RPTFE Seats) Up to 250 psi (17,2 bar) (CRPTFE Seats)
Body Materials	Carbon and Stainless Steel	Stainless Steel	Carbon and Stainless Steel	Carbon and Stainless Steel
Trim Materials	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Seat Materials	RPTFE	PTFE	RPTFE (Std.), PTFE, CRPTFE	RPTFE (Std.), PTFE, CRPTFE
End Connections	NPT	NPT	NPT, Socket Weld	NPT, Socket Weld
Options	—	Automation	Seat and packing materials, special service preparation, upstream vented ball, fusible link, gear operator, automation	Seat & packing materials, special service preparation, upstream vented ball, fusible link, gear operator, automation






## High Performance Three Piece Ball Valves

				
3000 Series	10000 Series	CV3000 Series	MS3000 Series	MS11000 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, Class V Shutoff	Metal seated valve for high temperature, pressure and wear applications, enhanced packing, and dual body seals
1/2" – 4" R.P. (DN15 – 100) 1/4" – 3" F.P. (DN8 – 80)	1/4" – 2", 3" x 2" (DN8 – 50, DN80 x 50)	1/2" – 4" R.P. (DN15 – 100) 1/4" – 3" F.P. (DN8 – 80)	1/4" – 2" (DN8 – 50)	1/2"-2" (DN 15 - 50)*  *Other sizes by request
Reduced and Full Port	Sch. 160 pipe I.D.	Reduced and Full Port	Sch. 160 pipe I.D.	Sch. 160 pipe I.D.
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 4500 class (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 W5 Seats)	
WCB/A105, CF8M / 316SS, CF3M / 316L, Alloy 20, Duplex, Hastelloy B and C, Monel, 254SMO, Titanium and other alloys			WCB / A105 CF8M / 316SS	A105, F11, F22, F91, 316SS, Alloys
316SS, 316L SS, 17-4PH SS, Hastelloy C, Monel, or to match body alloy			17-4PH SS	Inconel 718
PTFE, Glass-filled PTFE, Carbon-filled PTFE, UHMWPE, Kel-F, PFA, Delrin, PEEK, Carbon-filled PEEK, or to customer specification			Chrome Carbide coated 316SS	Cr Carbide coated 410SS or Inconel 718
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	Double packing, locking device, automation	Class V, VI shut-off, limit switches, gear op., automation

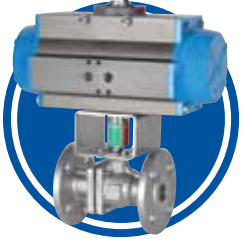

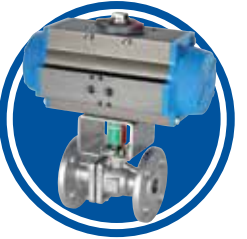
## Two Piece Ball Valves

Product Matrix for Marwin Valves				
Model	600 Series	DM600 Series	4600 Series	CF8901 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	Brass 3-piece 600 WOG ball valve, swing-out design, cost effective valve for common fluid control applications	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
Sizes	1/2" – 2" S.P. (DN15 – 500) 1/4" – 4" F.P. (DN8 – 100)	1/4" – 4" (DN8 – 100)	1/4" – 2-1/2" (DN8 – 65)	1/2" – 4" (DN15 – 100)
Port	Reduced and Full Port	Full Port	Full Port	Full Port
Maximum Pressure	Up to 600 psi (Up to 40 bar)	Up to 600 psi (Up to 40 bar)	Up to 600 psi (Up to 40 bar)	Up to 1000 psi (Up to 69 bar)
Temperature Range	-20° to +325°F (-29° to +163°C)	-20° to +325°F (-29° to +163°C)	-20° to +325°F (-29° to +163°C)	-20° to +400°F (-29° to +204°C)
Steam Pressure	Up to 125 psi (Up to 8,6 bar)	—	Up to 125 psi (Up to 8,6 bar)	Up to 75 psig (Up to 5,2 bar)
Body Materials	Brass	Brass	Brass	Stainless Steel
Trim Materials	Chrome Plated Brass (std), Stainless Steel	Chrome Plated Brass	Chrome Plated Brass, Stainless Steel	Stainless Steel
Seat Materials	PTFE	PTFE	PTFE	PTFE
End Connections	NPT, Solder	NPT	NPT, Solder	Clamp (Std), NPT
Options	—	Automation	—	Upstream vented ball, limit switches, automation

## Three Way Ball Valves

				
3-L/T-2100 Series	3T-3100/3L-3201 Series	3T-3300/3L-3400 Series	3T-3700/3L-3800 Series	KC Series Trunnion
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 brass bottom entry ball valve, 2 seated, T port transflow mixing valve (3T-3100) or L Port non-transflow diverting valve (3L-3201), threaded-in end cap, ISO 5211 direct mount 1/4" - 2"	3-way brass ball valve, 4 seated T port (3T-3300) or L (3L-3400), threaded-in end caps, ISO 5211 direct mount actuator pad, locking handle	3-way reduced port stainless steel ball valve, 4 seated T port (3T-3700) or L port (3L-3800), threaded-in end caps, ISO 5211 actuator mounting pad, locking handle	API 6D, Class 150-2500 Trunnion type
3/8" – 6" (DN10 – 150)	1/4" – 3" (DN8 – 80)	1/4" – 2" (DN8 – 50)	1/4" – 2" (DN8 – 50)	1/2" -56" (DN15-1400)
Full Port	Full Port	Reduced Port	Reduced Port	Full and Reduced Port
Up to 1000 psi (Up to 70 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)	Up to 6000 psi (Up to 414 bar)
-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)	-49° to +500°F (-45° to +260°C)
—	—	—	—	—
Stainless Steel Carbon Steel	Brass	Brass	Stainless Steel	Stainless Steel Carbon Steel
Stainless Steel	Brass	Brass	Stainless Steel	Stainless Steel
RPTFE	PTFE	PTFE	RPTFE	RPTFE, Nylon, Peek
NPT, ANSI Class 150FE	Threaded	NPT	NPT	Any
L or T Port, automation	L or T Port, automation (consult factory)	L or T Port, automation	L or T Port, automation	—

## Flanged Ball Valves

Product Matrix for Marwin Valves			
Model	2000 Series	5000/6000 Series	5801/6801 Series
Key Features	Cost effective Class 150 flanged end ball valves, uni-body design & split body design 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, available in special alloys and designs only	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 1" – 4" S.P. (DN25 – 100) 1/2" – 6" F.P. (DN15 – 150)	1/2" – 10" R.P. (DN15 – 250) 1/2" – 8" F.P. (DN15 – 200)	1/2" – 10" R.P. 5801 Series (DN15 – 250) 1/2" – 8" F.P. 5801/6801 Series (DN15 – 200)
Port	Reduced and Full Port	Reduced and Full Port	Reduced and Full Port
Maximum Pressure	Up to 285 psi (CL 150) (Up to 19,6 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 150 psi (10,3 bar) (RPTFE seats)	Up to 200 psi (13,8 bar) (RPTFE Seats) Up to 300 psi (21 bar) (CRPTFE Seats)
Steam Pressure Class 300	N/A	Up to 150 psi (10,3 bar) (RPTFE Seats) Up to 300 psi (21 bar) (50% SSPTFE Seats)	Up to 150 psi (10,3 bar) (RPTFE Seats) Up to 300 psi (21 bar) (50% SSPTFE 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 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



### *UT Series Pneumatic Actuators*

- Double Acting & Spring Return
- 15 sizes – torque to 44,900 in-lb (DA) & 16,500 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 solenoid valve mounting
- VDI/VDE top accessory mounting



### *ER Series Electric Actuators*

- 14 sizes – torque to 27,000 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 Feedback and Switches*

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



### *Valve Positioners*

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



To learn more about Marwin Valve products and to find  
the name of a local representative visit:

[www.marwinvalve.com](http://www.marwinvalve.com)



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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.