



PM Series Automated True Union Ball Valves

1/2" TO 2" PVC AND CPVC

VALVE FEATURES

- PVC and CPVC
- FPM or EPDM Seals
- PTFE Seats
- Full Port Design
- Fully Serviceable
- Double O-Ring Stem Seals

ACTUATOR FEATURES

- Corrosion-Resistant Thermoplastic Housing
- Permanently Lubricated Gear Train
- Manual Override
- Two-Piston Rack and Pinion Design
- Namur-Style Mounting
- Position Indicator
- Lightweight
- Air-to-Air (Double Acting) or Spring Return

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

SPECIFICATIONS

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2" – 2" (DN15 – DN50)	PVC or CPVC	Socket and Threaded	FPM or EPDM	250 PSI @ 70°F Non-Shock

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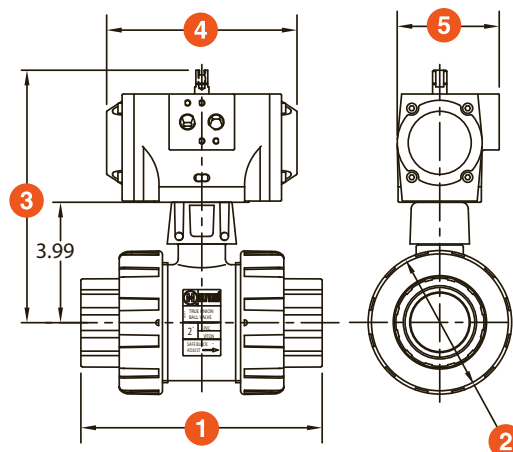
1/2" TO 2" PVC AND CPVC

TECHNICAL INFORMATION, CONTINUED

DIMENSIONS

SIZE in/DN	1 in/mm	2 in/mm	3 in/mm	4 in/mm	5 in/mm
SPRING RETURN (PMS)					
1/2/15	4.63/118	2.25/57	6.67/169	6.30/160	3.39/86
3/4/20	4.75/121	2.63/67	6.86/174	6.30/160	3.39/86
1/25	5.25/133	3.00/76	7.36/187	6.30/160	3.39/86
1-1/4/32	6.30/160	4.00/102	7.76/197	6.30/160	3.39/86
1-1/2/40	6.75/171	4.00/102	7.76/197	6.30/160	3.39/86
2/50	8.00/203	4.75/121	8.36/212	6.30/160	3.39/86
DOUBLE ACTING (PMD)					
1/2/15	4.63/118	2.25/57	5.88/149	4.69/119	2.64/67
3/4/20	4.75/121	2.63/67	6.07/154	4.69/119	2.64/67
1/25	5.25/133	3.00/76	6.57/167	4.69/119	2.64/67
1-1/4/32	6.30/160	4.00/102	6.97/177	4.69/119	2.64/67
1-1/2/40	6.75/171	4.00/102	6.97/177	4.69/119	2.64/67
2/50	8.00/203	4.75/121	7.57/192	4.69/119	2.64/67

Dimensions are subject to change without notice – consult factory for installation information



ACTUATOR SPECIFICATIONS

MODEL	PMD10	MODEL	PMS15
Torque Output (in-lbs) @ 80 PSI	125	Torque Output (in-lbs) @ 80 PSI	107
Enclosure Material	Polyamide	Enclosure Material	Polyamide
Output Shaft	Stainless Steel	Output Shaft	Stainless Steel
Air Port Connections	1/4" NPT	Air Port Connections	1/4" NPT
Air Consumption (cu. in.)	13.5	Air Consumption (cu. in.)	10.8
Air Transfer	Internal	Air Transfer	Internal
Stroke Time (seconds)	.5	Stroke Time (seconds)	.5
Cycle Time	1/2 Second	Cycle Time	1/2 Second
Minimum Air Pressure	80 PSI	Minimum Air Pressure	80 PSI
Maximum Air Pressure	120 PSI	Maximum Air Pressure	120 PSI
Operation	Rack and Pinion	Operation	Rack and Pinion
Weight (lbs/kg)	1.3/6	Weight (lbs/kg)	3.1/1.4

Cv VALUES

SIZE in/DN	Cv VALUES	SIZE in/DN	Cv VALUES
1/2/15	8.0	1-1/4/32	75.0
3/4/20	15.0	1-1/2/40	90.0
1/25	29.0	2/50	140.0

PRESSURE LOSS CALCULATION FORMULA

$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop
 Q = Flow in GPM
 C_v = Flow Coefficient



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