

MP Series Compact Ball Valves

Submittal Data Sheet



Job or Customer:

Engineer:

Contractor:

Submitted by: Date

Approved by: Date

Order No: Date

Specification:

< STANDARDS >



ASTM D1784
ASTM D2464
ASTM D2466
ASTM D2467
ASTM F1498



ANSI B1.20.1

IPEX MP Compact Ball Valves are ideally suited to all kinds of plumbing and industrial applications where a compact, inexpensive on/off valve is required. The simple one piece PVC body with integral end connections eliminates potential problems caused by improper adjustment of the ball seating. MP Compact Ball Valves are part of our complete systems of pipe, valves, and fittings, engineered and manufactured to our strict quality, performance, and dimensional standards.

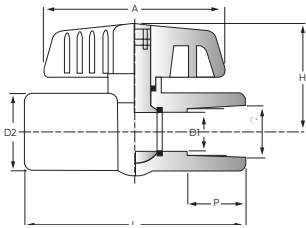
VALVE AVAILABILITY

Body Material:	PVC
Size Range:	1/2" through 2"
Pressure:	150 psi
Seats:	Teflon® (PTFE)
Seals:	EPDM
End Connections:	Socket (IPS), Threaded (FNPT)

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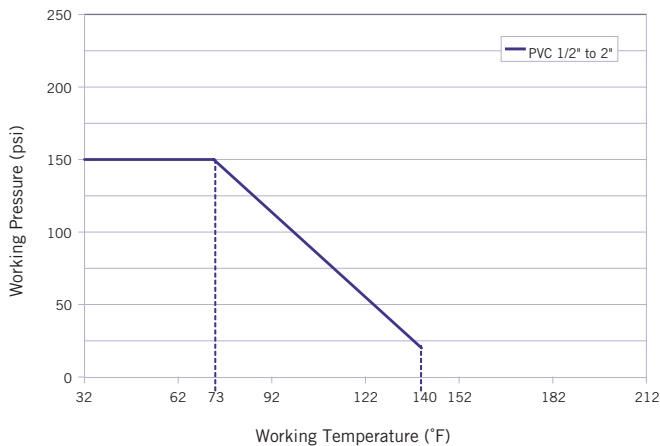
Dimensions



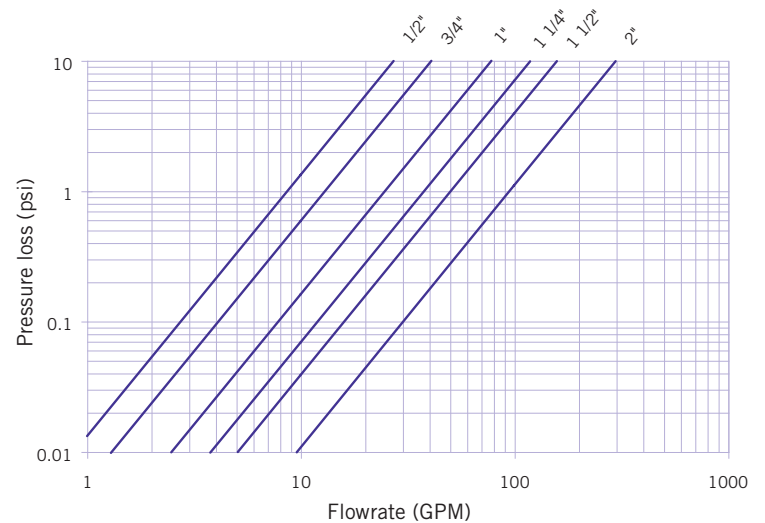
Dimension (inches)

Size	D1	d Socket	d Threaded	P	L	D2	H	A	W (lbs)
1/2	0.59	0.84	1/2 NPT	0.88	3.11	1.38	1.85	2.76	0.24
3/4	0.79	1.05	3/4 NPT	1.00	3.54	1.58	2.24	3.03	0.35
1	0.98	1.32	1 NPT	1.13	4.13	1.89	2.40	3.50	0.52
1-1/4	1.26	1.66	1-1/4 NPT	1.25	4.76	2.13	2.60	3.50	0.74
1-1/2	1.54	1.90	1-1/2 NPT	1.38	5.00	2.44	2.91	4.37	1.06
2	1.97	2.38	2 NPT	1.50	5.87	2.95	3.15	5.47	1.72

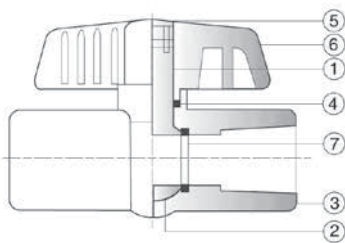
Pressure – Temperature Ratings



Pressure Loss Chart



Component



#	Component	Material	Qty
1	stem	PVC	1
2	ball	PVC	1
3	body	PVC (white) / PVC (grey)	1
4	stem o-ring	EPDM	1
5	cap	ABS	1
6	handle	ABS	1
7	seat	PTFE	2

Flow Coefficients

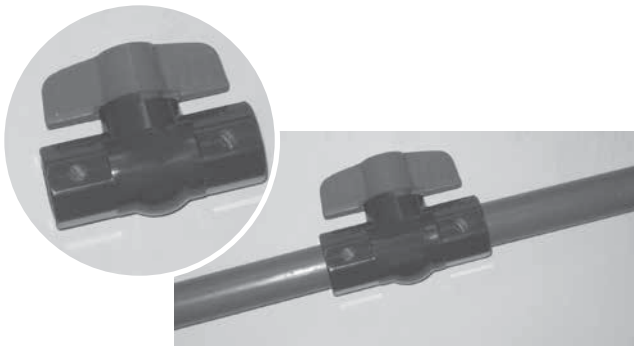
Size	C _v
1/2	8.80
3/4	13.2
1	25.2
1-1/4	38.5
1-1/2	51.3
2	96.7

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Assembly

1. Please refer to the appropriate connection style sub-section:
 - a. For socket style, solvent cement each pipe end into the body of the valve. For correct joining procedure, please refer to the section entitled, "Joining Methods – Solvent Cementing" in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems". Be sure to allow sufficient cure time before pressurizing the system.
 - b. For threaded style, thread each pipe end into the body of the valve. For correct joining procedure, please refer to the section entitled, "Joining Methods – Threading" in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems".



Disassembly

1. If removing the valve from an operating system, isolate the valve from the rest of the system. Be sure to depressurize and drain the isolated branch and valve before continuing.
2. Please refer to the appropriate connection style sub-section:
 - a. For socket style, cut the pipe as close to the ends of the valve body as possible. The valve can now be replaced.
 - b. For threaded style, unthread the pipe ends from the valve body. The valve can now be reused and/or replaced.

Note: The MP Compact Ball Valve is a molded-in-place valve. It cannot be disassembled.

Testing & Operating

The purpose of system testing is to assess the quality of all joints and fittings to ensure that they will withstand the design working pressure, plus a safety margin, without loss of pressure or fluid. Typically, the system will be tested and assessed in sub-sections as this allows for improved isolation and remediation of potential problems. With this in mind, the testing of a specific installed valve is achieved while carrying out a test of the overall system.

An onsite pressure test procedure is outlined in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems" under the section entitled, "Testing". The use of this procedure should be sufficient to assess the quality of a valve installation. In any test or operating condition, it is important to never exceed the pressure rating of the lowest rated appurtenance in the system.

Important points:

- Never test thermoplastic piping systems with compressed air or other gases including air-over-water boosters.
- When testing, do not exceed the rated maximum operating pressure of the valve.
- Avoid the rapid closure of valves to eliminate the possibility of water hammer which may cause damage to the pipeline or the valve.
- For safety reasons, please contact IPEX customer service and technical support when using volatile liquids such as hydrogen peroxide (H₂O₂) and sodium hypochlorite (NaClO). These liquids may vaporize causing a potentially dangerous pressure increase in the dead space between the ball and the valve body.

Please contact IPEX customer service and technical support with regard to any concern not addressed in this data sheet or the technical manual.

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.