



Three way ball valve

Three way ball valves

The three way ball valve is a valve with a round disc. It is the fraction of the valve which controls the flow right through it. The sphere has a hole, or port, right through the center so that when the port is aligned with both ends of the valve, flow will take place. The three way ball valve has been especially designed to permit a 90° connection between two alike pipes. The special construction of the valves is such as to allow a smooth flow of fluids with minimum pressure drop and allow the pig to pass through the pipe without any stoppage of the seal between the pig and the pipe.



Size: 1/2"-8"
 Class: 150-300lb
 The Monolithic & Two Pieces Cast Body
 Floating Ball, Full Bore
 Blow-out Proof Stem
 Design: API 6D/ASME B16.34
 End Flange: ASME B16.5

A three way ball valve is regulated by the position of a free-floating ball that moves in response to fluid or mechanical pressure. The use of common bolted on ends and four seated design offers the ability to interchange port configurations and allow every port to be an inlet and/or a blocked flow port. When the three way ball valve is stopped, the hole is perpendicular to the ends of the valve, and flow is blocked. The handle or lever will be inline with the port location letting you "see" the valve's arrangement. The ball valve, alongside with the butterfly valve and plug valve, are part of the family of quarter turn valves.

Advances in ball valve design and materials have drastically increased their popularity. The three way ball valve can be used for section of systems, regulation of some types of low flow and backflow prevention, but only with a swing check section. A three way ball valve is predominantly useful for flows moving in many directions. This type of valve can handle high pressure and a great volume of fluids, gases and suspended solids.

The 3 way ball valve is durable and works to achieve perfect shutoff even after years of disuse. They are consequently an excellent choice for shutoff applications. They do not offer the fine control that may be needed in throttling applications but are sometimes used for this purpose.

The three-way ball valves is used widely in the industry because they are very adaptable, supporting pressures up to 700 bars and temperatures up to 200°C. Sizes usually range from 0.5 cm to 30 cm. They are easy to restore and operate. The body of the valve may be made from metal, plastic or metal with a ceramic center. The ball is often chrome plated to make it more long-lasting.

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The three way ball valve allows for the middle part of the valve containing the ball, stem & seats to be easily detached from the pipeline . This facilitates proficient cleaning of deposited sediments, replacement of seats and gland packing, polishing out of small scratches on the ball, and all this without removing the pipes from the body of the valve. The aimed concept of a three way ball valve is therefore, for it to be easily repairable.

Some additional features may include:

Union Design:

This makes these valves very easy to preserve by allowing for easy removal from a piping system without breaking down the piping connections. Just remove the three assembly nuts and lift the valve body out of the line.

Easy to Actuate:

A manual valve can be simply automated. Just get rid of the handle and install the optional actuator mounting kit. The mounting load is integrally molded into the valve body. For hard actuator mounting, the valve incorporates a distinctive design whereby the mounting bracket mounts directly to the valve body. This assures proper alignment of the actuator to the valve without creating any harmful side loads to cause premature stem seal failure.

Three way ball valve material specifications

No.	Part	Material
1	Ball	A351-CF8, CF8M, CF3, CF3M, Duplex
2	Body	A216-WCB, A352-LCB, A351-CF8, CF8M, CF3, CF3M, Duplex
3	Stem	ASTMA105+ENP, A182-F6, F316, F316L, F304L, 17-4PH, F51
4	Thrust Washer	PTFE
5	Packing	PTFE Graphite
6	Screw	ASTMA193-B7, B8
7	Gland Flange	A216-WCB, A351-CF8
8	Lever	A216-WCB
9	Limited Plate	1015+Cr. Carbon Steel+Cr.
10	Retainer	Carbon Steel
11	Seat	PTFE, RTPFE, PEEK, PPL
12	Gasket	Stainless Steel+Graphite, S.S.316+Graphite
13	Bonnet	A216-WCB, A352-LCB, A351-CF8, CF8M, CF3, CF3M, Duplex
14	Stud	ASTMA193-B7, B7M, B8, B8M
15	Nut	ASTMA194-2H, 2HM, 8, 8M

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If you have Three way ball valve any enquiry about quotation or cooperation, please feel free to email us at sale@dfcvalve.com or use the following enquiry form. WINDMILL sales representative will contact you within 24 hours. Thank you for your interest in our Three way ball valve products.

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