

FREE-VALVE brand 2PC Ceramic Ball Valves are designed with engineering ceramics the engineering ceramics internal parts provide excellent wear resistance. The body of a two-piece ball valve is composed of a main body and a secondary body. After the ball, seat, and stem are installed in the main body, the secondary body is connected to the main body through nuts or bolts. The ceramic ball valves are widely used as an open and close function as well as a throttling control tasks in corrosive medium with abrasive solids content.



Features:

1. The 2pc ball valve consists of two separate pieces that can be easily taken apart for maintenance or repairs.
2. The hardness of the ceramic material can be higher than HRC80.
3. Engineering internal parts of ceramic ball valve provide superior protection from corrosive and abrasive medium.
4. Customized actuation types are installed on the ceramic ball valve, the manual lever or gear box, as well as with pneumatic, electric and hydraulic actuators.
5. Customized V type ceramic control valve is also available.



6. The valve has a floating ball design, the ball is floating, the ball has a defined clearance and is pressed against the downstream seat under the differential pressure to achieve sealing.

Technical Specification

Nominal Pressure PN10/PN16/Class150

Size Range: DN50~DN150, NPS2 ~NPS6

Connection type Flange

Working Temperature $\leq 200^{\circ}\text{C}$

Operating Type: Manual, Pneumatic and Electric

Seat: Engineering ceramic

Ball material: Zirconia ceramic

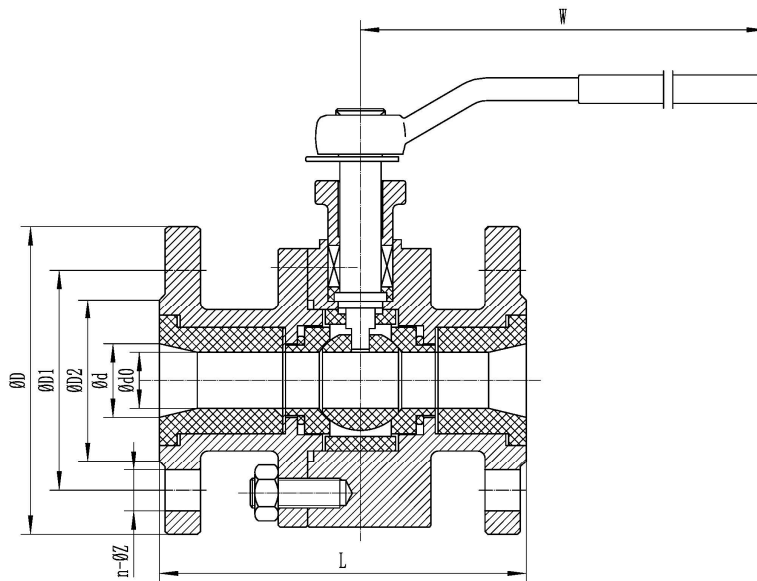
Flange Standards ASME B16.5, GB/T9113, Gost33259

Pressure test GB/T13927, API598

Face to Face GB/T12221, ASME B16.10



Main outline and connection dimensions



DN	PN	L		H1	H2	Remarks
DN25	PN10 PN16 PN25 Class150	127	140	72	226	
DN32		140	165	88	238	
DN40		165	165	110	260	
DN50		178	203	118	287	
DN65		190	222	131	300	
DN80		203	241	150	330	

DN100		229	305	175	358	
DN125		356			392	
DN150		394			430	

DN	d	PN	L1	L2	D	D1	D2	n-M/n-ø Z
DN25	20	PN10	12 7	140	115	85	68	4-M12/4-ø 14
DN32	25		14 0	165	140	100	78	4-M16/4-ø 18
DN40	32		16 5	165	150	110	88	4-M16/4-ø 18
DN50	40		17 8	203	160	125	99	4-M16/4-ø 18
DN65	50		19 0	222	180	145	118	4-M16/4-ø 18
DN80	65		20 3	241	200	160	132	8-M16/8-ø 18
DN100	80		22 9	305	220	180	156	8-M16/8-ø 18
DN125	100		356		250	210	186	8-M16/8-ø 18
DN150	125		394		285	240	210	8-M20/8-ø 22



Note: Our company also produces other pressure grade products, flange connection size according to customer requirements according to GB/T9113 ,ASME B16.5,Gost33259 or JIS B2220.

Application

FREE-VALVE 2PC Ceramic Ball Valves are suitable for Silicon Powder, Alumina Powder, Dry Coal Powder, Limestone Slurry, Gypsum Slurry, Plaster, Fly Ash, Mining Ore, Coal Powder Injection, Metallurgical dust, Thermal Power plant FGD , LiCoO₂ powder equipment.

Model: FRQ341TC

Origin:China

Brand:FREE-VALVE

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