

Thin Ceramic Scum Slurry Valve

■ Characteristics

This valve is applicable as an on-off for media containing high-hardness grains, such as cinder water, or for pipelines with both soft grains and corrosive media. Its nominal pressure is 1.0MPa, and applicable temperature $\leq 150^{\circ}\text{C}$, the sealing surface adopts hard seal, and all medium contacting parts are made of structural ceramic with extremely high chemical stability and hardness. Therefore, it has extremely strong resistance to abrasion, corrosion and erosion, good heat insulation and small thermal expansion. Its feed inlet is fully through without any blocks, and it has strong abrasion resistance, a good seal ability and a small starting load, with little ash seizure or accumulation. It adopts a high-grade toughened structural ceramic seal, featuring high mechanical strength, strong abrasion resistance, a long service life and a compact structure, which can be installed at any angle.

■ Material for main parts

NO	Name	Material	NO	Name	Material
1	Body	WCB	9	Stem	2Cr13
2	Seat	engineering ceramic	10	Bracket	WCB
3	Plate	engineering ceramic	11	Stem nut	T
4	Packing	PTFE	12	Bearing	
5	Stud	35	13	Handwheel	HT200
6	Gasket	10	14	Bearing gland	35
7	Nut	25	15	Handwheel lock nut	Q235A
8	Packing gland	WCB			

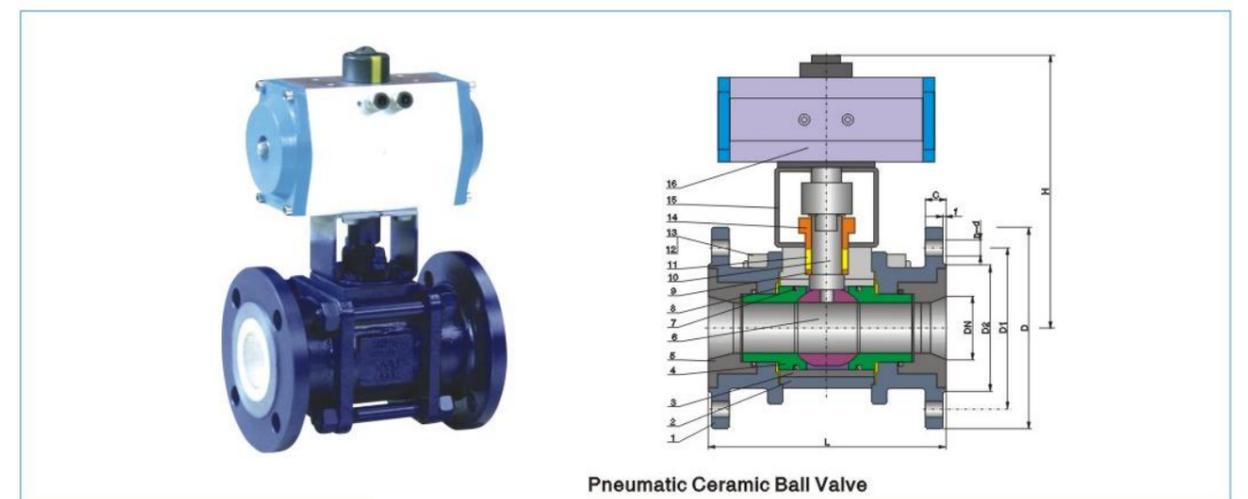
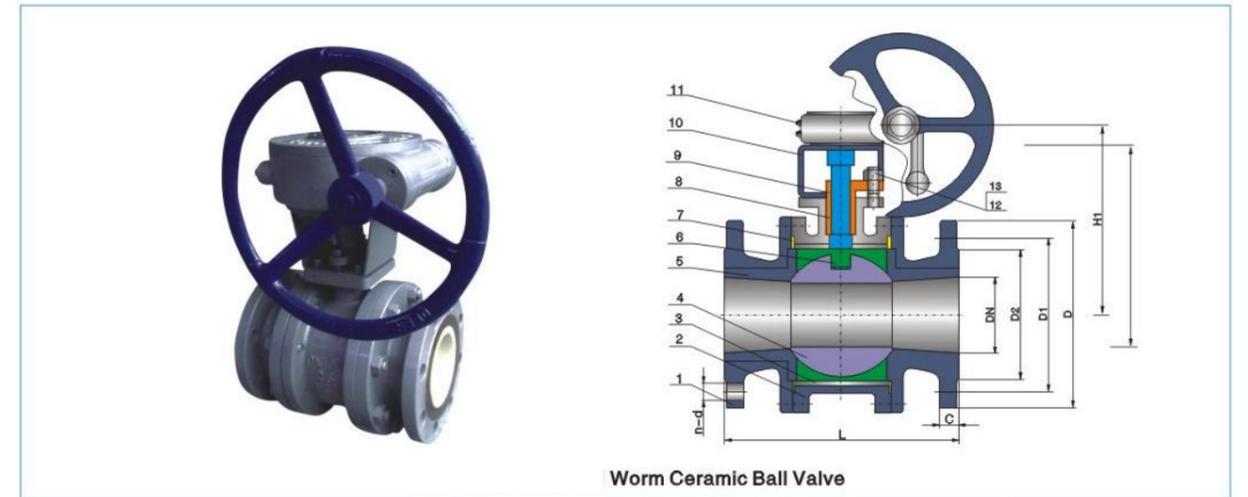
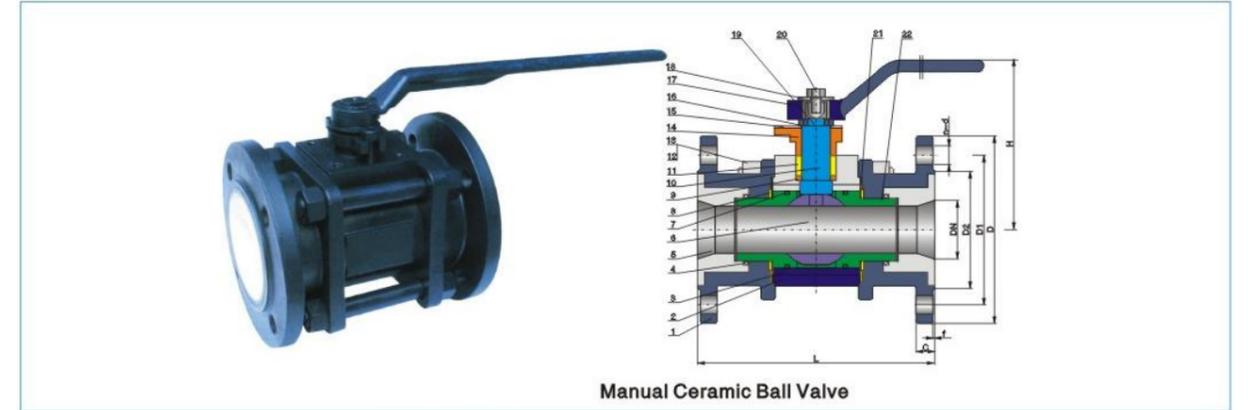
■ Application specification

Design and manufacture		JB/T 8691
Connection end dimension	Structure length	GB/T 15188.2
	Flange dimension	GB/T 9113.1
Inspection and test		GB/T JB/T8691
Material	Carbon steel	GB/T 12229
Mark		GB/T 12220
Supply		GB/T 12252

■ The main external and connection dimensions

DN	PN(10)	L	D	D1	D2	H	N-M	D0	b
50	10	43	165	125	100	285	4-M16	180	12
65		46	185	145	120	295	4M16	180	12
80		46	200	160	135	315	8-M16	220	12
100		52	220	180	155	365	8-M16	220	12
125		56	250	210	185	400	8-M16	230	12
150		56	285	240	210	475	8-M20	280	14
200		60	340	295	265	540	12-M20	360	14
250		68	405	355	320	630	12-M24	360	16
300		78	460	410	375	780	12-M24	400	16
350		78	520	470	435	885	16-M24	400	18
400		102	580	525	485	990	16-M27	400	18
450		114	640	585	545	1100	20-M27	530	18
500	127	715	650	608	1200	20-M30	530	18	
600	154	840	770	718	1450	20-M33	600	20	

Ceramic Ball Valve



Application specification

Design and manufacture		GB/T 12224
Connection end dimension	Structure length	GB/T 12221
	Flange dimension	GB/T 9113.1
Inspection and test		GB/T 9092
Material	Carbon steel	GB/T 12229
	Stainless steel	GB/T 12230
Mark		GB/T 12220
Supply		GB/T 12252

Material for main parts

NO	Name	Material	NO	Name	Material
1	Side valve cover	WCB	12	Hex nut	
2	Middle body	WCB	13	Equal length stud	Outsourcing
3	Middle body sleeve	engineering ceramlc	14	Packing gland	WCB
4	O-ring	Fluorine rubber	15	specer	white zho plating
5	FLANGE SLEEVE	engineering ceramlc	16	Circlip for shaft	65Mn
6	Bal	engneering ceramlc	17	Handle	Outsourcing
7	O-ring	Fluorine rubber	18	Gasket	Q235
8	Dish spring	50CrVA	19	Socket head cap screw	353#
9	Washer	304	20	Hex bolts	B7
10	Stem	2Cr13	21	Big weaher	PTFE
11	Packing	PTFE	22	Seat	

Characteristics

This valve is applicable as an on-off or pipelines with high hardness grains or with both soft grains and corrosive media. Its nominal pressure is 1.6MPa, and applicable temperature $\leq 200^{\circ}\text{C}$. All medium-contacting parts are made of structural ceramic, featuring extremely high chemical stability and hardness (Rock well Hardness HRC90), only next to diamond. Therefore, this valve has extremely strong resistance to abrasion, corrosion and erosion, good heat insulation and small thermal expansion. The ball body is made with advanced grinding equipment and process, with high-precision ball roundness and good surface quality, and after facing-up with the valve seat, a good seal ability can be obtained by means of self-lubrication of ZrO₂ ceramic, thanks to the ceramic's strong resistance to abrasion, this valve is durable and extremely reliable, with a long service life being 2-4 times of that of Ti alloy and Monel valves.

The main external and connection dimensions

DN	L	D	D1	D2	C	f	H	n-d
15	130	95	65	46	14	2	86	4-Φ14
20	130	105	75	56	16	2	95	4-Φ14
25	140	115	85	65	16	2	108	4-Φ14
32	165	140	100	76	18	2	115	4-Φ18
40	165	150	110	84	18	2	115	4-Φ18
50	203	165	125	99	20	2	115	4-Φ18
65	222	185	145	118	20	2	115	4-Φ18
80	241	200	160	132	20	2	145	8-Φ18
100	305	220	180	156	22	2	188	8-Φ18
125	356	250	210	184	22	2	210	8-Φ18
150	394	285	240	211	24	2	260	8-Φ22
200	457	340	295	266	24	2	320	8-Φ22
250	533	395	350	319	26	2	365	12-Φ22

Chief Features

Through Spindle Single Disc
 Seat And Body With One Piece Inside Lining
 High Cv Value, Flow Capacity Strong
 Suitable For Adjust Flow Condition
 Structure Improve On Api
 Double Seal Zero Leakage
 Wafer Type And Flanged Ends



Product Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Marking	Supply
	GB/T 12238	GB/T 12221	GB/T9113JB/T 79	JB/T13927	GB/T 12220	JB/T 7928

Main Part Material

Part Name	阀体材料 Body Material Code		
Body/Bonnet	HT200	QT400-15	WCB
Plsc	WCB+ENP	QT400-18+ENP	35
Stem	1Cr13	2Cr13	2Cr13
Seat	NB, NBR, FPM, EPDM, SI		
Suitable Temp	$\leq 150^{\circ}\text{C}$		
Suitable Medium	Water,sewages Salt Water, Steam, Gas Food,medicine,oil,acid And Alkali Etc		