

3-Way Multi-Port Ceramic-Lined Ball Valves

Ceresist's line of 3-way multi-port ceramic-lined ball valves have been developed to offer end-users a dependable and robust valve with an extremely long-term maintenance-free service life. Our alumina lining is 8x more wear-resistant than carbon and stainless steel, whereas our high-purity sintered silicon carbide is 16 times more wear resistant.

Features

- Solid ceramic protects the valve from erosive wear throughout all flow paths
- Available in high-purity alumina or high-purity sintered silicon carbide ceramics
- Optional chrome carbide hard facing on the ball exterior surface resists wear and assures leak-proof performance
- Standard seats are RPTFE; UHMWPE, tungsten carbide coated SS316, and high-purity sintered silicon carbide are also available
- Stainless steel housing is standard; carbon steel available as an option
- Trunnion ball design
- Automation mounting in compliance with ISO 5211
- Optional cavity fillers prevent media build-up and solids entrapment within body cavity. Available in solid ceramic, refractory, or epoxy

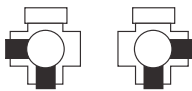


Sizes and Standards

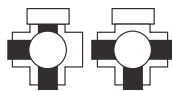
- 1½" to 12" sizes
- ANSI 150 lb & ANSI 300 lb
- Round-ported ball configuration
- L or T flow path options
- Material and test certificates available upon request

Flow Patterns

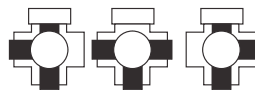
L-Port
90° Rotation



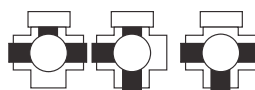
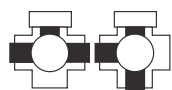
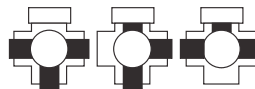
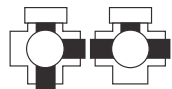
T-Port
90° Rotation



T-Port
180° Rotation



L-Port
180° Rotation



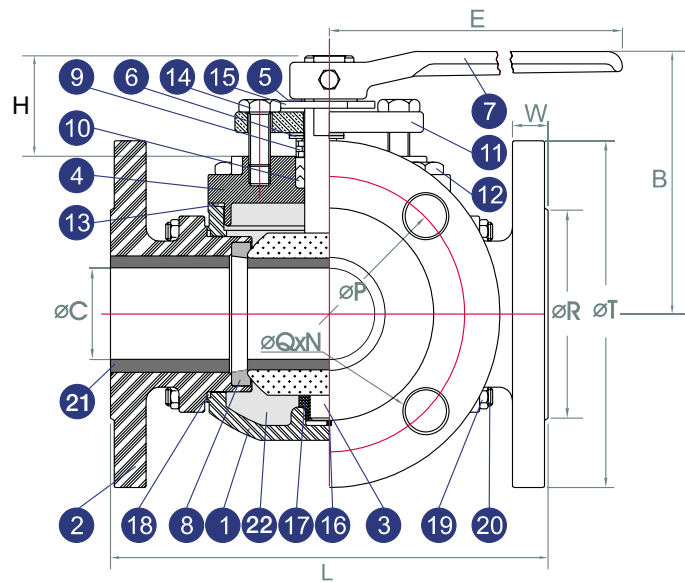
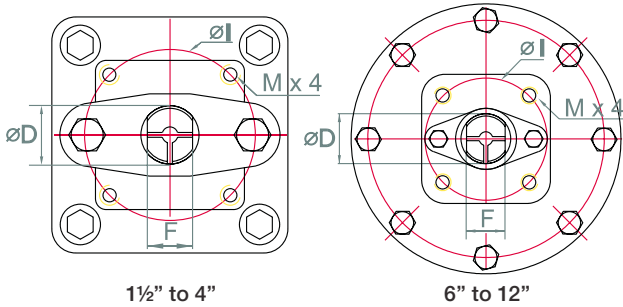
High-Purity
Alumina Lining



High-Purity Sintered
Silicon Carbide Lining

Technical Data

Dimensions



Bill of Materials

Part No.	Part Name	Material (Stainless Housing)	Material (Carbon Steel Housing)	Qty
1	Body	ASTM A351 Gr. CF8M	ASTM A216 Gr. WCB	1
2	Flange Cap	ASTM A351 Gr. CF8M	ASTM A216 Gr. WCB	1
3	Ball & Stem	SUS 316	SUS 304	1
4	Top Cover	ASTM A351 Gr. CF8M	ASTM A216 Gr. WCB	1
5	C Retaining Ring	SUS 301		1
6	Belleville Washer	SUS 301	50CrV	2
7	Handle	Cast Iron		1
8	Seat	RPTFE / UHMWPE / WC+SS316 / Hexoloy® SiC		3
9	Gland	SUS 304		1
10	V-Packing	PTFE		3
11	Bonnet	ASTM A351 Gr. CF8M	ASTM A216 Gr. WCB	1
12	Bolt	ASTM A193 Gr. B8	S45C	†
13	Cover Joint Gasket	PTFE		2
14	Bonnet Cap Bolt	ASTM A193 Gr. B8	S45C	2
15	Stopper	SUS 304		1
16	Spring	SUS 304		1
17	Bushing	50% stainless steel powder filled PTFE		3
18	Cap Joint Gasket	SUS 304	S45C	3
19	Nut	SUS 304	S45C	P
20	Stud	SUS 304	S45C	P
21	Ceramic Lining	Hexoloy® SiC or 99.8% Al ₂ O ₃		4
22	Cavity Filler	Al ₂ O ₃ / Refractory / Epoxy		1

† - 1 1/2" to 4" - 4 ea; 6" to 10" - 8 ea
 P - 1 1/2" to 4" - 12 ea; 6" to 10" - 24 ea

Size	B	ØC*	ØD	E	F	H	ØI	L	±L	M	N	±N	ØP	±ØP	ØQ	±ØQ	ØR	ØT	±ØT	W	±W	ISO 5211
1 1/2"	4.53	1.32	0.87	11.50	0.67	1.93	1.97	7.13	7.40	3/8"	4	4	3.88	4.50	0.62	0.88	2.88	5.00	6.14	0.56	0.81	F05
2"	4.80	1.72	0.87	11.50	0.67	1.85	2.76	8.66	9.37	3/8"	4	8	4.75	5.00	0.75	0.75	3.62	6.00	6.14	0.63	0.88	F07
2 1/2"	6.42	2.35	1.16	15.16	0.67	2.68	2.76	11.14	11.10	7/16"	4	8	5.50	5.88	0.75	0.88	4.12	7.00	7.50	0.69	1.00	F07
3"	6.89	2.74	1.16	15.16	0.67	2.24	2.76 4.02	11.30	11.85	7/16"	4	8	6.00	6.62	0.75	0.88	5.00	7.50	8.25	0.75	1.13	F07 F10
4"	8.46	3.73	1.34	20.87	0.91	2.60	4.92	13.11	15.12	1/2"	8	8	7.50	7.88	0.75	0.88	6.19	9.00	10.00	0.94	1.25	F12
6"	10.08	5.69	1.77	31.50	1.38	2.87	4.92	16.85	18.43	1/2"	8	12	9.50	10.63	0.88	0.88	8.50	11.00	12.50	1.00	1.44	F12
8"	11.93	7.66	2.36	39.37	1.77	3.43	6.50	20.87	20.94	5/8"	8	12	11.75	13.00	0.88	1.00	10.62	13.50	15.00	1.13	1.63	F16
10"	13.00	9.59	2.36	39.37	1.77	3.62	6.50	27.68	27.68	5/8"	12	16	14.25	15.25	1.00	1.12	12.75	16.00	17.50	1.19	1.88	F16
12"	14.57	11.56	2.76	39.37	2.17	2.76	6.50	29.92	29.92	5/8"	12	16	17.00	17.75	1.00	1.25	15.00	19.00	20.50	1.25	2.00	F16

*Standard ceramic wall thickness is 1/8". Heavier wall thicknesses are available at the expense of a smaller bore.
 † - Dimensions for ANSI 300 lb valve

Ceresist

176 East 7th Street, Paterson, New Jersey 07524-1609
 Telephone: (800) 219-4945 • (973) 345-3231 • Fax: (973) 345-3066
 E-mail: info@ceresist.com • www.ceresist.com