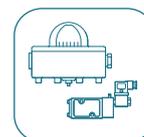
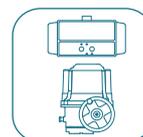
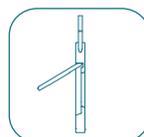
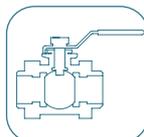
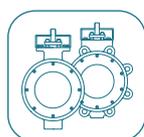
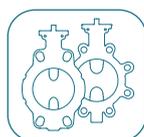


Ball valve with ceramic ball and insert

 Fig. 15H



www.coreline.dk



Coreline Fig 15H ball valves with ceramic ball and insert are used for:

- Strong acids
- Strong alkalies
- Powder
- Ash
- Slurry

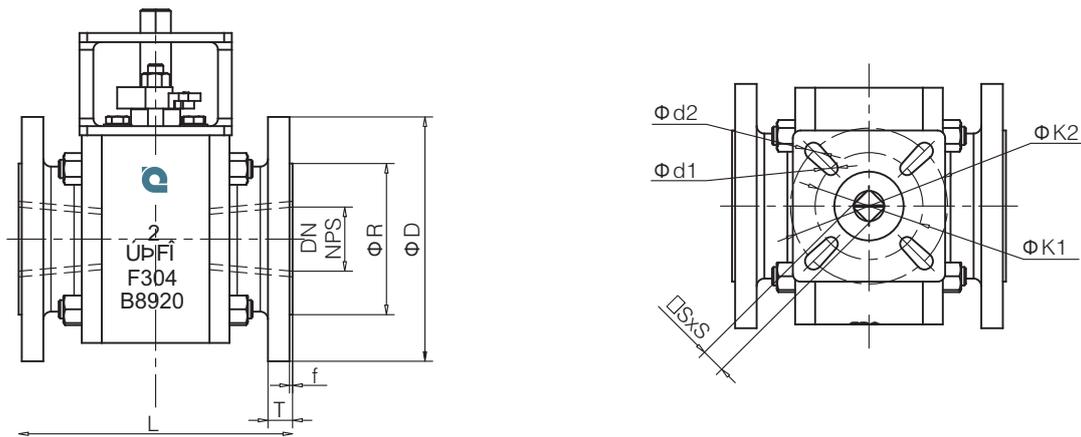
Precisely designed and polished parts secures that valves will operate without leaks and with ANSI/FCI 70-2 leakrate (considered as Zero leakage).
Surface roughness is Ra 0,1 to 0,2.

Mechanical properties of ceramics are much different to metal materials.
High pressure resistance, but lower tensile and flexural strength makes some sensitivity to mechanical shock.

Ball valves with ceramic internals are often used for

- Flue gas installations
- Pneumatic conveying of ash, Kaolin, pulverized coal injection, lime stone powder and resins.

Check with us for possible uses.



DIN PN16							
Dimension (DN)	Face to Face (FTF)	ØD	ØC	N-M	ØR	T	f
15	115	95	65	4 M12	45	16	2
20	120	105	75	4 M12	58	18	2
25	125	115	85	4 M12	68	18	2
32	130	140	100	4 M16	78	18	2
40	140	150	110	4 M16	88	18	3
50	150	165	125	4 M16	102	18	3
65	170	185	145	8 M16	122	20	3
80	180	200	160	8 M16	138	22	3
100	190	220	180	8 M16	158	24	3
125	200	250	210	8 M16	188	24	3
150	210	285	240	8 M20	212	26	3
200	230	340	295	12 M20	268	29	3
250	250	405	355	12 M24	320	30	3
300	270	460	410	12 M24	378	32	3

Actuation assembly dimensions														
Size (DN)	15	20	25	32	40	50	65	80	100	125	150	200	250	300
ISO 5211	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07/F10	F07/F10	F07/F10	F10/F12	F10/F12	F10/F12	F14	F14	F14
Ø K1	50	50	50	50	50	70	70	70	102	102	102	140	140	140
n-Ød1	4 Ø8	4 Ø10	4 Ø10	4 Ø10	4 Ø12	4 Ø12	4 Ø12	4 Ø18	4 Ø18	4 Ø18				
Ø K2	70	70	70	70	70	102	102	102	125	125	125	—	—	—
n-Ød1	4 Ø10	4 Ø12	4 Ø12	4 Ø12	4 Ø14	4 Ø14	4 Ø14	—	—	—				
45° □ SXS	9X9	9X9	9X9	11X11	11X11	14X14	17X17	17X17	22X22	27X27	27X27	36X36	36X36	36X36
H1	90	94	94	103	108	135	146	160	196	213	235	270	330	350
H2	12	12	12	14	15	15	18	20	27	27	27	40	40	50
Torque NM	19	25	25	30	50	70	110	160	250	300	400	750	1200	1200

Torques are including 30 % safety factor - Torque values not to be exceeded, as too high torque can damage ceramics

Kv values for ceramic ball valves

Kv values		
DN	O-port	V-port
15	13	7
20	29	15
25	39	18
32	54	30
40	98	75
50	196	105
65	273	151
80	416	207
100	699	350
125	984	419
150	1642	527
200	2030	—
250	3343	—
300	4493	—



Kv curve for V-port ceramic ball valves

