

Wafer Ball Valves

Series B70

GENERAL INFORMATION

Series B70 wafer ball valve is full bore and fire safe designed and suitable for shutoff of various medium without much dirt such as air, gas, water, oil and liquids. Wafer design makes the valve convenient for connection between flanges and save length in pipe line.

FEATURES

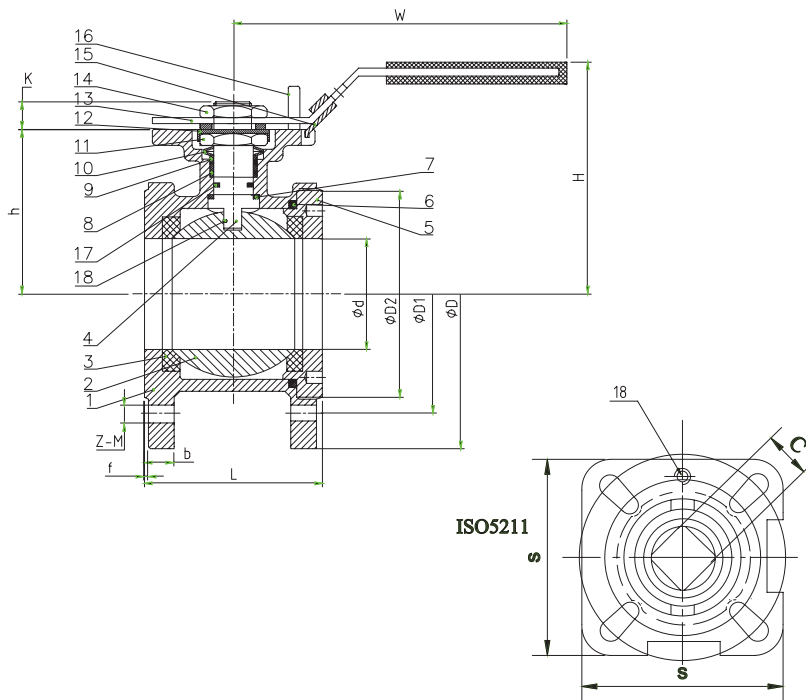
- Wafer compact one-piece body with double flange
- Full bore for better Kv/Cv
- Face to face dimensions according to EN558 GR.100
- Blow-out-proof stem
- Both pure PTFE and 25% carbon fiber reinforced RPTFE seat available
- Pressure relief hole in ball slot
- ISO5211 bracket for easy automation
- Anti-static devices for ball-stem-body

TECHNICAL DATA

Connection	Wafer flanged ends according to EN1092-1
Nominal diameter	1/2"-8"
Pressure rating	PN40
Face to face	EN558 Grade 100
Temperature range	-20°C to +200°C
Operation	Hand lever, pneumatic actuator, electric actuator

PARTS LIST AND MATERIAL SPECIFICATION

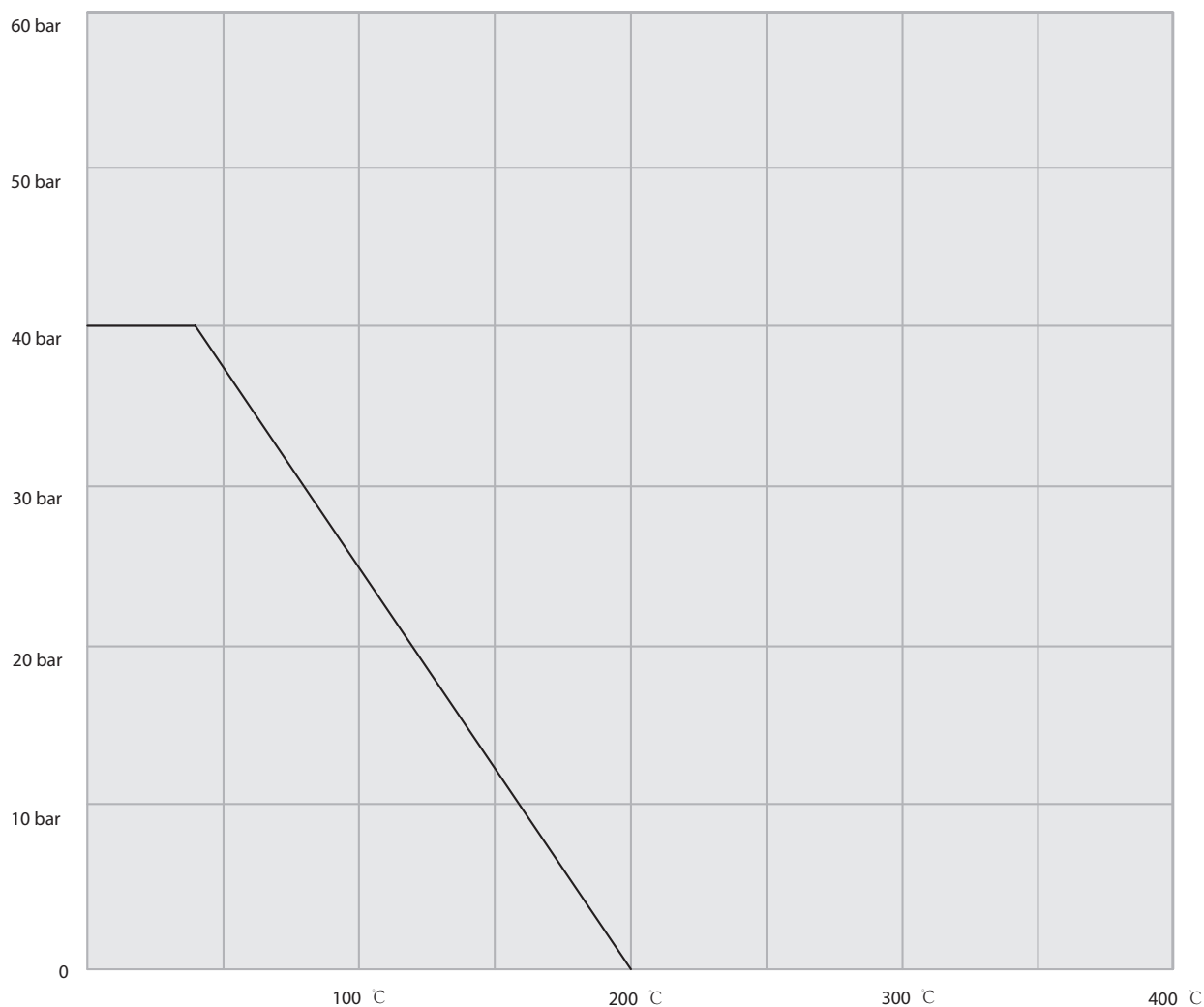
No.	Part name	Material
1	Body	CF8M CF8 WCB
2	Ball	SS316L SS304 SS304
3	Seat	PTFE,RPTFE
4	Stem	SS316L SS304 SS304
5	Cap	SS316L SS304 SS304
6	Body gasket	PTFE
7	Thrust washer	PTFE,RPTFE
8	V-ring packing	PTFE,RPTFE
9	Gland	SS304
10	Belleville washer	SS304
11	Nut	SS304
12	Stop lock cap	SS304
13	Handlever	SS304
14	Nut	SS304
15	Lever lock	SS304
16	Stop bolt	SS304
17	O ring	FPM
18	Anti-static device	SS304



DIMENSIONS (mm)

SIZE	PN	d	L	D	D1	D2	b	f	H	W	C	ISO5211	Z-M	h	s	K	N.m
DN INCH																	
15 1/2"	10~40	15	36	95	65	45	11	2	89	117	9	F03/F04	4-M12	55.3	42.6	9.5	5
20 3/4"	10~40	20	38	105	75	58	11	2	94	117	9	F03/F04	4-M12	60.3	42.6	9.5	8
25 1"	10~40	25	50	115	85	68	12	2	90	164	11	F04/F05	4-M12	58.5	50.5	10	10
32 1-1/4"	10~40	32	53	140	100	78	14	2	100	164	11	F04/F05	4-M16	70.5	50.5	12.5	14
40 1-1/2"	10~40	40	65	150	110	88	15	3	105	203	14	F05/F07	4-M16	76.5	64.5	14.5	18
50 2"	10~40	50	78	165	125	102	16	3	125	203	14	F05/F07	4-M16	84.5	65.5	14	25
65 2-1/2"	10/16 25/40	65	98	185	145	122	16 22	3	140 160	255	17	F07/F010	4-M16 8-M16	94.5 111.5	93.6	17 18	48
80 3"	10/16 25/40	76	118	200	160	138	18 24	3	145 168	255	17	F07/F010	8-M16	110.5 119	94.2 93.6	16 18.5	75
100 4"	10/16 25/40	94	140	220 235	180 190	158 162	18 24	3	175 192	302	17	F07/F010	8-M16 8-M20	122.5 142	94.2 93.6	19 19	110
125 5"	10/16	125	195	250	210	188	22	3	228	600	22	F10/F012	8-M16	155	114	27	200
150 6"	10/16	150	225	285	240	212	22	3	246	600	22	F10/F012	8-M20	172.5	114	27	300
200 8"	16	200	275	340	295	268	24	3	310	800	27	F10/F014	12-M20	217	131	37.5	400

TEMPERATURE-PRESSURE DIAGRAM



Kv AND VALVE SIZING

SIZE	DN	15	20	25	32	40	50	65	80	100
	INCH	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Kv	m ³ /h at 1bar ΔP	13	29	48	73	108	215	270	495	870
Pneumatic actuator sizing-6bar air	Double acting	40	50	50	65	75	75	75	95	125
	Spring return	65 S10	65 S10	75 S12	85 S12	95 S12	95 S12	110 S12	125 S12	140 S12