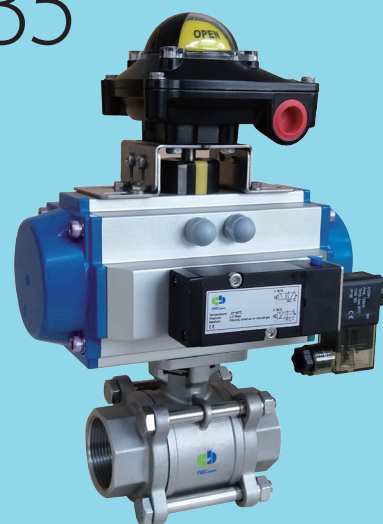


ISO Top 3pc Ball Valves

Series B35



GENERAL INFORMATION

Series B35 ISO top 3pc ball valve is full bore designed and suitable for shutoff of various medium without much dirt such as air, gas, water, oil and liquids. 3PC design makes the maintenance convenient without caps uninstalled. Both butt-weld ends and threaded ends popular for this valve.

FEATURES

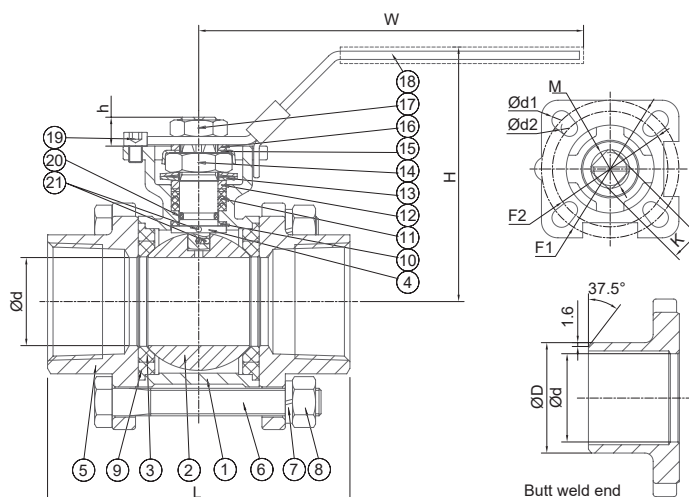
- 3 piece compact design for convenient field maintenance
- Full bore for better Kv/Cv
- Investment stainless steel casting with meticulous surface
- Blow-out-proof stem
- Both pure PTFE and 25% carbon fiber reinforced RPTFE seat available
- Pressure relief hole in ball slot
- ISO5211 direct mounting pad for easy automation
- Anti-static devices for ball-stem-body

TECHNICAL DATA

Connection	Threaded BSPP-ISO228/1, Butt weld ends-ISO1127		
Nominal diameter	1/2"-4"		
Pressure rating	PN63 for 1/2"-2", PN40 for 2 1/2"-4"		
Face to face	DIN3202 M3		
Temperature range	-20°C to +200°C		
Operation	Hand lever, pneumatic actuator, electric actuator		

PARTS LIST AND MATERIAL SPECIFICATION

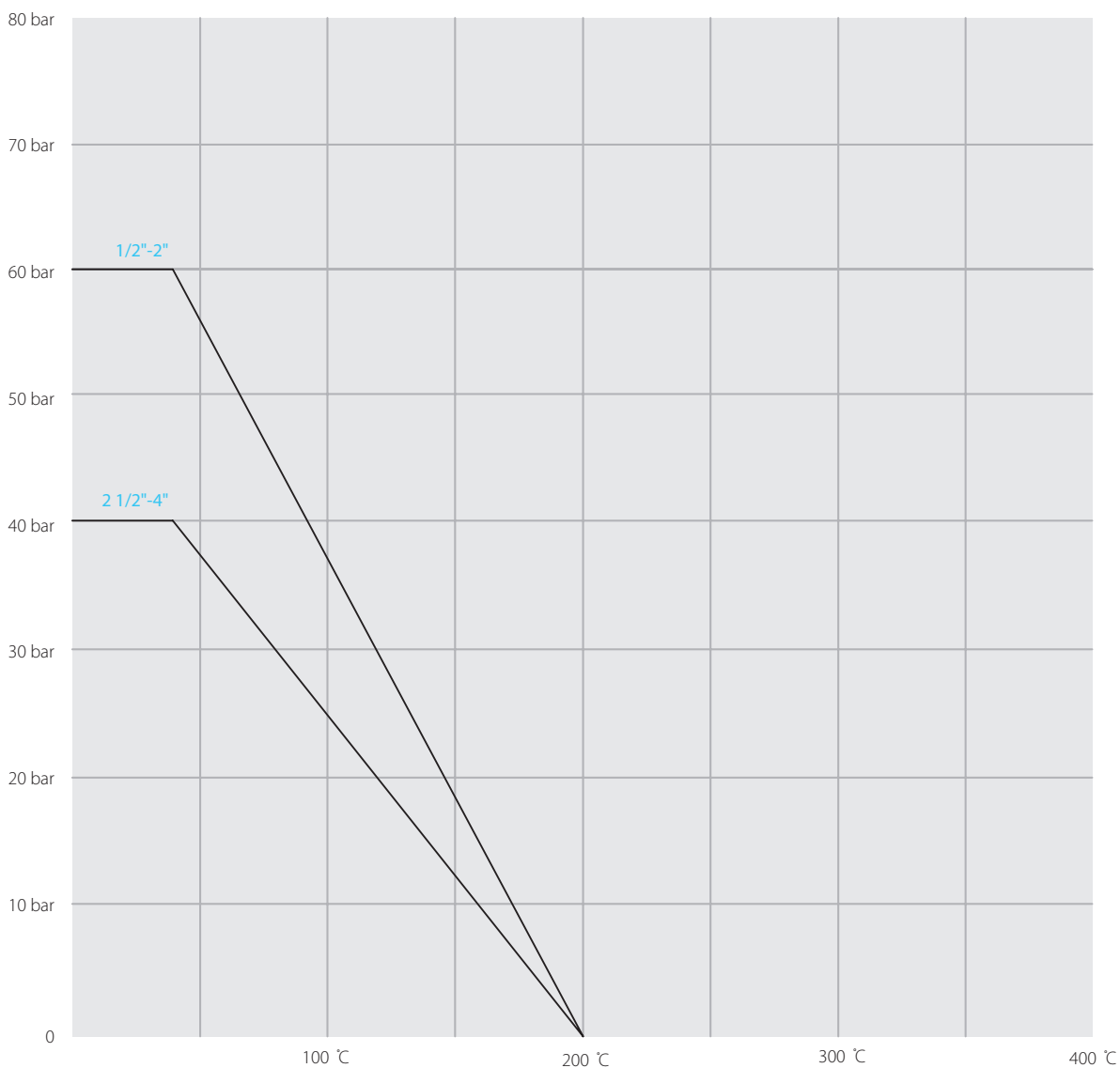
No.	Part name	Material		
1	Body	CF8M	CF8	WCB
2	Ball	SS316L	SS304	SS304
3	Seat	PTFE,RPTFE		
4	Stem	SS316L	SS304	SS304
5	Cap	CF8M	CF8	WCB
6	Bolt	SS304		
7	Washer	SS304		
8	Nut	SS304		
9	Body gasket	PTFE		
10	Thrust washer	PTFE,RPTFE		
11	V-ring packing	PTFE,RPTFE		
12	Gland	SS304		
13	Belleville washer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



DIMENSIONS (mm)

SIZE		d	D	H	L	W	Mounting flange					Stem			WT (kg)
DN	INCH						ISO5211	F1	d1	F2	d2	K	h	M	
15	1/2"	15	21.6	77	75	120	F03+F04	36	3	42	3	9	10	M12	0.6
20	3/4"	20	27.2	82	80	120	F03+F04	36	3	42	3	9	10	M12	0.7
25	1"	25	34.0	90	90	140	F04+F05	42	3	50	3.5	11	12	M14	1.1
32	1 1/4"	32	42.8	95	110	140	F04+F05	42	3	50	3.5	11	12	M14	1.6
40	1 1/2"	38	48.6	104	120	190	F05+F07	50	3.5	70	4.5	14	15	M18	2.5
50	2"	49	60.5	112	140	190	F05+F07	50	3.5	70	4.5	14	15	M18	3.7
65	2 1/2"	64	76.3	120	185	230	F05+F07	50	3.5	70	4.5	14	15	M18	7
80	3"	76	90.0	132	205	260	F07+F10	70	4.5	102	5.5	17	18	M22	10
100	4"	100	116.0	160	240	300	F07+F10	70	4.5	102	5.5	17	18	M22	19

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	14	34	60	100	150	210	275	480	850
Valve torque	NM	8	11	14	20	30	40	70	118	170
Pneumatic actuator sizing- 6bar air	Double acting	32	40	40	50	65	65	75	95	125
	Spring return	50 S12	65 S10	65 S10	75 S12	85 S12	95 S12	110 S12	125 S12	140 S12