

2pc Flanged Ball Valves

Series B50

GENERAL INFORMATION

Series B50 2pc flanged ball valve is full bore designed and suitable for shutoff of various medium without much dirt such as air, gas, water, oil and liquids.

FEATURES

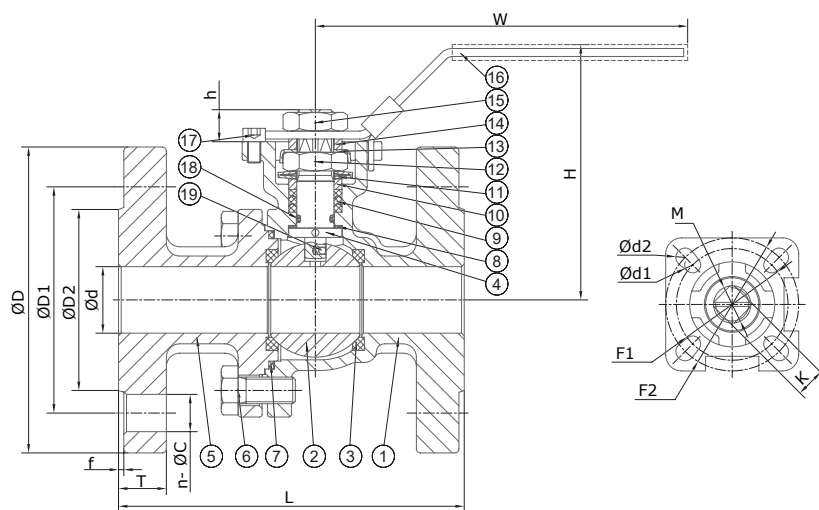
- 2 piece compact design of body
- Full bore for better Kv/Cv
- Investment casting with meticulous surface
- Blow-out-proof stem
- Both pure PTFE and 25% carbon fiber reinforced RPTFE seat available
- Pressure relief hole in ball slot
- ISO5211 direct mounting pad for easy automation
- Anti-static devices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

TECHNICAL DATA

Connection	Flanged ends according to EN1092-1
Nominal diameter	1/2"-4"
Pressure rating	PN40 for DN15-DN50, PN16 for DN65-DN100
Face to face	DIN3202 F4
Temperature range	-20°C to +200°C
Operation	Hand lever, pneumatic actuator, electric actuator

PARTS LIST AND MATERIAL SPECIFICATION

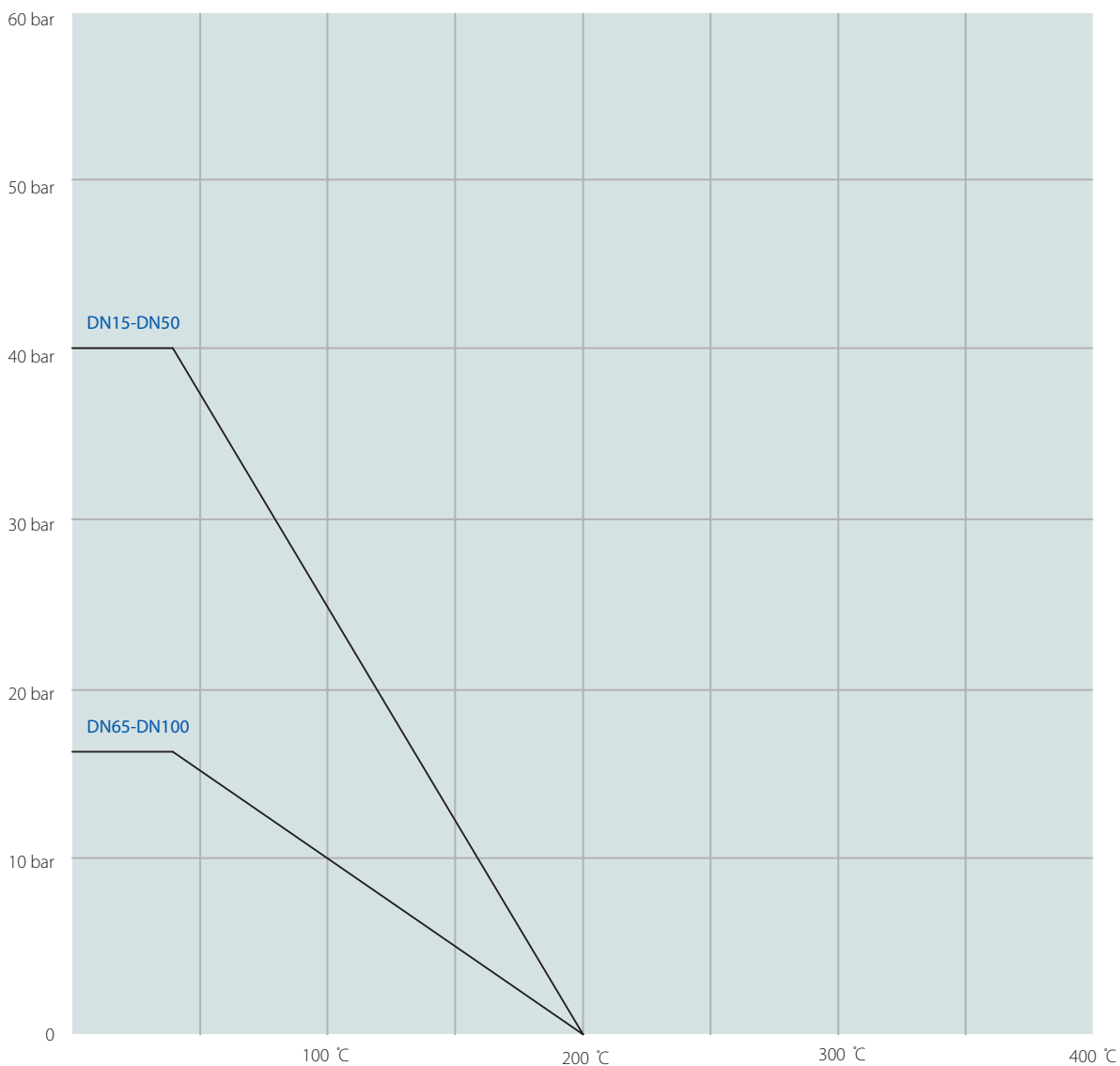
No.	Part name	Material		
1	Body	CF8M	CF8	WCB
2	Ball	SS316L	SS304	SS304
3	Seat	PTFE,RPTFE		
4	Stem	SS316L	SS304	SS304
5	Cap	CF8M	CF8	WCB
6	Bolt	A193 B8M	A193 B8	A193 B7
7	Body gasket	PTFE		
8	Thrust washer	PTFE,RPTFE		
9	V-ring packing	PTFE,RPTFE		
10	Gland	SS304		
11	Belleville washer	SS304		
12	Nut	SS304		
13	Stop lock cap	SS304		
14	Washer	SS304		
15	Nut	SS304		
16	Handlever	SS304		
17	Stop bolt	SS304		
18	O ring	FPM		
19	Anti-static device	SS304		



DIMENSIONS (mm)

SIZE		d	N	C	D	D1	D2	f	T	H	L	W	Mounting flange					Stem			WT (kg)
DN	INCH												ISO5211	F1	d1	F2	d2	K	h	M	
15	1/2"	15	4	14	95	65	45	2	16	75	115	110	F03+F04	36	3	42	3	9	10	M12	2.3
20	3/4"	20	4	14	105	75	58	2	18	83	120	110	F03+F04	36	3	42	3	9	10	M12	3
25	1"	25	4	14	115	85	68	2	18	90	125	150	F04+F05	42	3	50	3.5	11	12	M14	4
32	1 1/4"	32	4	18	140	100	78	2	18	102	130	150	F04+F05	42	3	50	3.5	11	12	M14	6
40	1 1/2"	38	4	18	150	110	88	3	18	114	140	190	F05+F07	50	3.5	70	4.5	14	15	M18	8
50	2"	49	4	18	165	125	102	3	18	122	150	190	F05+F07	50	3.5	70	4.5	14	15	M18	10
65	2 1/2"	64	4	18	185	145	122	3	18	168	170	300	F05+F07	50	3.5	70	4.5	14	15	M18	15
80	3"	76	8	18	200	160	138	3	20	179	180	300	F07+F10	70	4.5	102	5.5	17	18	M22	21
100	4"	100	8	18	220	180	158	3	20	197	190	300	F07+F10	70	4.5	102	5.5	17	18	M22	28
125	5"	125	8	18	250	210	188	2	20	/	356	/	F10+F12	102	11	125	13	22	22	/	32
150	6"	150	8	22	285	240	212	2	20	/	394	/	F12+F14	125	13	140	17	27	27	/	52
200	8"	200	12	22	340	295	268	2	22	/	457	/	F12+F14	125	13	140	17	36	36	/	75

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	10	27	48	70	100	205	270	495	870
Valve torque	NM	7	9	13	19	29	38	68	112	160
Pneumatic actuator sizing- 6bar air	Double acting	32	40	40	50	65	65	75	95	125
	Spring return	50 S12	50 S12	65 S10	75 S12	85 S12	95 S12	110 S12	125 S12	140 S12