

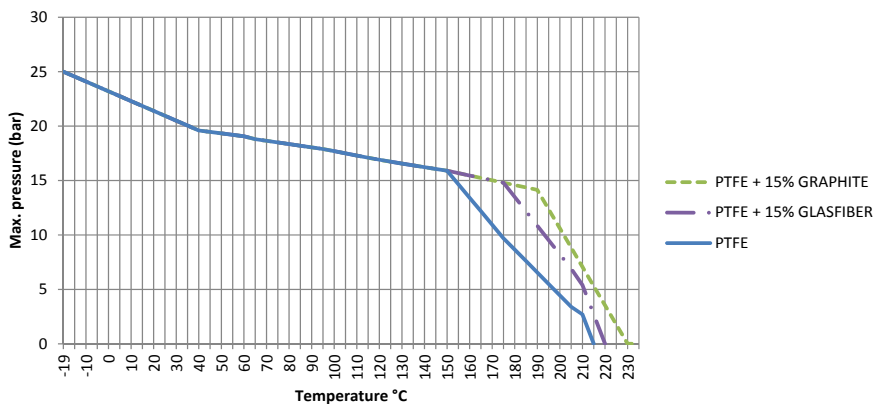
BV10-HP DN50-600

Double offset butterfly valves



TECHNICAL DESCRIPTION

- Double offset butterfly valve
- Design and manufacture acc. to EN 593- ASME B16.34- API 609
- Available pressure rates : PN10 - PN16 - PN25 - ANSI 150lbs
- Testing acc. to ISO 5208 - API 598
- Max. working pressure : DN50 to DN300 : 25 bar
DN350 to DN600 according to the requested rating
- Shell (body) test pressure : DN50 to DN300 : 37,5 bar
DN350 to DN600 according to the requested rating
- Seat test pressure : DN50 to DN300 27,5 bar
DN350 to DN600 according to the requested rating
- Max. temperature depending of the seat :
For PTFE see chart below. PTFE is standard, reinforced PTFE is optional
For Inconel 718 seat max. 450°C, please respect pressure/temperature rating in accordance with EN1092-1, see below chart
- Leakage rates for both directions :
PTFE seated acc. ANSI/FCI 70-2 class VI, tight shut off with zero leakage
Inconel 718 seat : DN50 to DN300 : acc. ANSI.FCI 70-2 class V
Inconel 718 seat : DN350 to DN600 : acc. ANSI.FCI 70-2 class IV
- Suitable for mounting between flanges, available connections :
EN 1092-1 PN10 - EN 1092-1 PN16 - EN 1092-1 PN25 - ASME B16.5 150lbs
- Face to face acc. EN 558-1 series 20/API 609 cat.A/B ISO5752 tab 20
- Bare shaft execution with ISO 5211 mounting platform and square stem



Consideration PTFE stabilisation at high temperature :
For the seat working at high temperature conditions consistently we recommend not to exceed following temperatures :

Max. temperature at prolonged use :

PTFE : 160°C

PTFE+15% glasfiber : 180°C

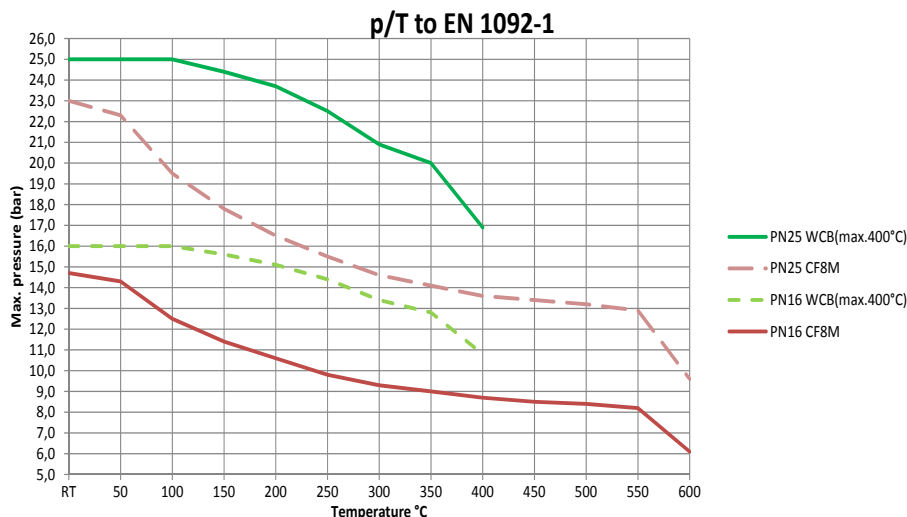
PTFE+15% graphite : 210°C

Important remarks :

Disc edge must be hard chrome plated when equipped with PTFE+graphite or PTFE+glasfiber seat.

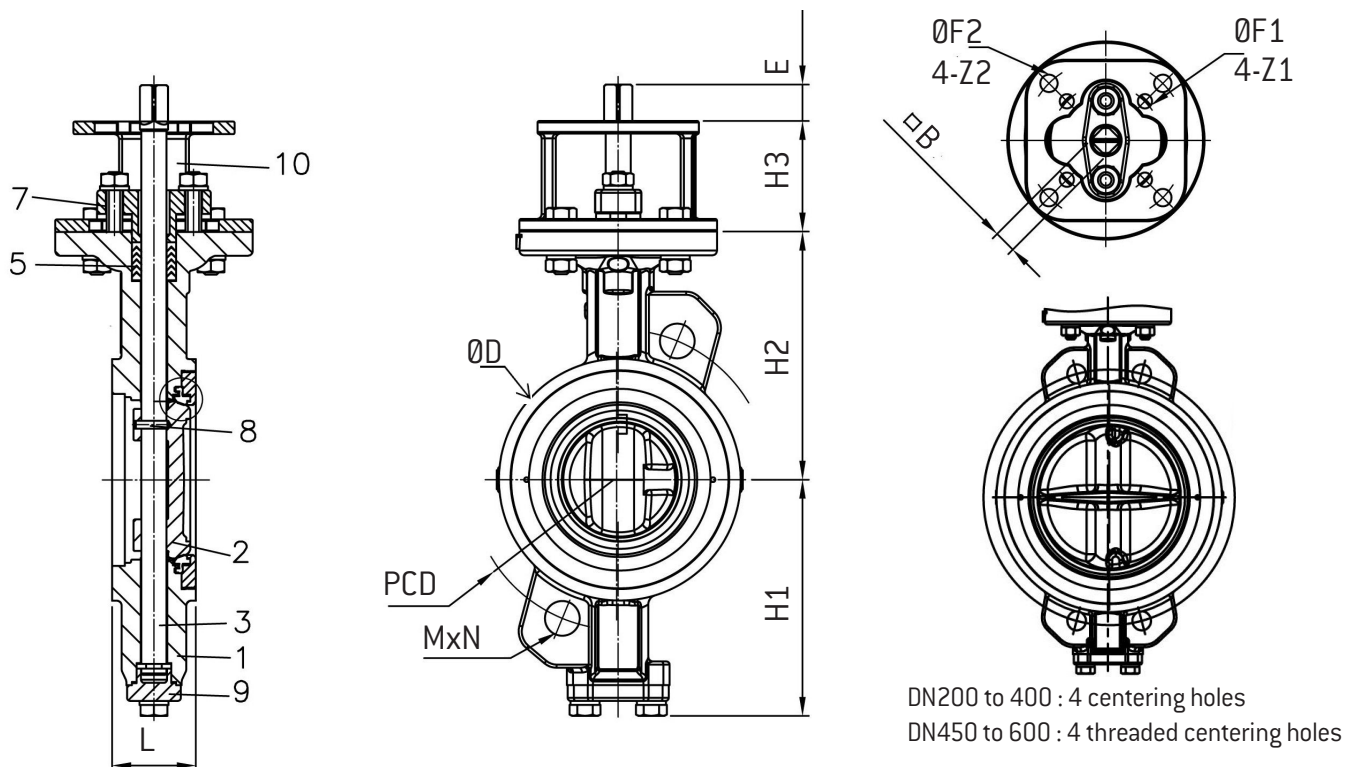
Standard packing for soft seated valves is PTFE, with pressure/temperature limitations as above mentioned. Please use PTFE+15% graphite packing when using PTFE+graphite or PTFE+glasfiber seat.

For working pressures above 16 bar please use SS630 (A564 Gr.630) stem.



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DN	SIZE	L	H1	H2	H3	E	□BxØ	ØF1/ ØF2	ISO	4-Z1/Z2 (F25 8 holes)	Torque*(Nm) PTFE seat	Torque*(Nm) Inconel seat	weight (kg)
50	2"	43	99	118	60	18	11x11	50/70	F05/F07	4-07/Ø10	20	65	3.9
65	2 1/2"	46	110	125	60	18	11x11	50/70	F05/F07	4-07/Ø10	36	103	4.5
80	3"	46	128	140	70	23	14x14	70/102	F07/F10	4-010/Ø12	45	118	7
100	4"	52	150	157	70	23	14x14	70/102	F07/F10	4-010/Ø12	61	157	9
125	5"	56	163	170	70	23	17x17	70/102	F07/F10	4-010/Ø12	89	183	12
150	6"	56	176	185	70	23	17x17	70/102	F07/F10	4-010/Ø12	118	233	14
200	8"	60	206	220	80	28	19x19	102/125	F10/F12	4-012/Ø14	182	334	22
250	10"	68	238	260	80	28	22x22	102/125	F10/F12	4-012/Ø14	314	471	32
300	12"	78	269	290	100	37	27x27	125/140	F12/F14	4-014/Ø18	540	736	48
350	14"	78	306	326	100	37	27x27	125/140	F12/F14	4-014/Ø18	981	1021	66
400	16"	102	342	370	120	47	36x36	140/165	F14/F16	4-018/Ø22	1178	1492	107
450	18"	114	370	395	120	47	36x36	140/165	F14/F16	4-018/Ø22	1472	1806	130
500	20"	127	399	430	120	56	46x46	140/165	F14/F16	4-018/Ø22	2061	2355	163
600	24"	154	455	490	150	56	46x46	254/-	F25	8-Ø18	2659	2943	278

*approx shut-off torque for water of 20°C at 15 bar Δp, 30% safety factor already included

DN	SIZE	ØD	PN10		PN16		PN25		A 150 lbs	
			PCD	M x N	PCD	M x N	PCD	M x N	PCD	M x N
50	2"	92	125	18 x 2	125	18 x 2	125	18 x 2	121	19 x 2
65	2 1/2"	108	145	18 x 2	145	18 x 2	145	18 x 2	139,7	19 x 2
80	3"	126	160	18 x 2	160	18 x 2	160	18 x 2	152,4	19 x 2
100	4"	153	180	18 x 2	180	18 x 2	190	22 x 2	190,5	19 x 2
125	5"	184	210	18 x 2	210	18 x 2	220	26 x 2	215,9	23 x 2
150	6"	212	240	22 x 2	240	22 x 2	250	26 x 2	241,3	23 x 2
200	8"	268	295	22 x 4	295	22 x 4	310	26 x 4	298,5	23 x 4
250	10"	326	350	22 x 4	355	26 x 4	370	30 x 4	362	25 x 4
300	12"	375	400	22 x 4	410	26 x 4	430	30 x 4	431,8	25 x 4
350	14"	416	460	22 x 4	470	26 x 4	490	33 x 4	476	29 x 4
400	16"	476	515	26 x 4	525	30 x 4	550	36 x 4	540	29 x 4
450	18"	534	565	M24 x 4	585	M27 x 4	600	M33 x 4	578	1 1/8"-8UNx4
500	20"	588	620	M24 x 4	650	M30 x 4	660	M33 x 4	635	1 1/8"-8UN x4
600	24"	692	725	M27 x 4	770	M33 x 4	770	M36 x 4	749	1 1/4"-8UN x4

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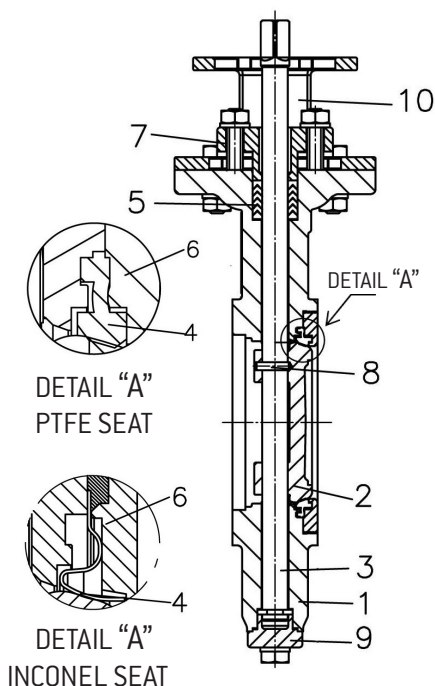
We keep the right to change the mentioned dimensions, weights, values and materials at any time without prior or direct notice.



COMPANY APPROVED

BV10-HP DN50-600

Double offset butterfly valves



ITEM	NAME	4463T*	4463M*	4466T	4466M	6666T	6666M
1	BODY	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M
2	DISC	A351 CF8	A351 CF8	A351 CF8M	A351 CF8M	A351 CF8M	A351 CF8M
3	STEM	A182 F304	A182 F304	A182 F316	A182 F316	A182 F316	A182 F316
4	SEAT	PTFE	INCONEL 718	PTFE	INCONEL 718	PTFE	INCONEL 718
5	GLAND PACKING	PTFE	GRAPHITE	PTFE	GRAPHITE	PTFE	GRAPHITE
6	RETAINER	A351 CF8	A351 CF8	A351 CF8M	A351 CF8M	A351 CF8M	A351 CF8M
7	GLAND	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8M	A351 CF8M
8	PIN	A182 F316	A182 F316	A182 F316	A182 F316	A182 F316	A182 F316
9	BOTTOM COVER	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M
	BOTTOM COVER SEAL	PTFE	GRAPHITE	PTFE	GRAPHITE	PTFE	GRAPHITE
10	YOKE	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M

All bolts, nuts and studs are made of stainless steel 304 (A193 Gr. B8/A194 Gr.8)

* DN50 is not available in 4463, please select 4466

KV-VALUES

DN	SIZE	KV-VALUE AT 10°----->90° VALVE OPENING								
		10°	20°	30°	40°	50°	60°	70°	80°	90°
50	2"	0,9	1,7	5,2	10,3	17,2	27,5	43	53	57
65	2 1/2"	0,9	9,5	23	34,4	51,6	71,4	91	115	120
80	3"	1,7	17,2	43	63	95	132	172	215	224
100	4"	3,4	27,5	69	103	155	215	275	344	361
125	5"	6,0	47,3	121	172	258	370	473	585	619
150	6"	9,5	77,4	198	292	439	611	783	980	1032
200	8"	17,2	129	335	482	731	1023	1307	1634	1720
250	10"	25,8	206	516	748	1127	1582	2030	2528	2666
300	12"	34,4	310	791	1144	1720	2408	3096	3870	4085
350	14"	47,3	387	972	1410	2150	3010	3870	4730	5031
400	16"	64,5	559	1376	1978	3010	4214	5418	6751	7138
450	18"	81,7	688	1720	2494	3784	5246	6794	8514	8944
500	20"	107,5	860	2322	3354	5074	7052	9030	11180	11868
600	24"	172	1462	3784	5418	8170	11438	14620	18318	19350

OPERATING OPTIONS

GEARBOX : aluminium gearbox or special gearbox upon request
 AUTOMATED : pneumatic actuator (double or single acting), electric actuator (single phase or 3-phase)
 ACCESSORIES : stem extensions, visual indicators, solenoid valves, limit switches, positioners, manual override ...

OTHER OPTIONS

Higher pressure classes upon request
 Lug type, double flanged type, welded connections
 Other body, disc, stem and seat material, internal polished execution
 High temperature executions : 210°C to 500°C
 Low temperature executions : -100°C to -50°C
 Emission Test

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