



JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR P.O.:
APPROVAL:	REPRESENTATIVE:

N500S

LEVER OPERATED WAFER BUTTERFLY VALVE WITH CF8M STAINLESS STEEL DISC WITH EPDM SEAT
1-1/2" TO 12"

SPECIFICATIONS

Bonomi North America series N500S, ductile iron (EN-GJS 400-15) wafer style, epoxy coated, resilient seat butterfly valves in sizes 1-1/2" -12", with EPDM seat are NSF/ANSI 61.372 certified. These series shall offer a dual stem design and ISO 5211/DIN 3337 direct mounting for high cycle automation capabilities.

In addition, the N500S series feature a dovetail booted seat design which offers a 250 CWP maximum pressure rating, dead-end service to 100 PSI without end piping and 232 PSI with end piping, and conforms to ANSI B16.1 and ANSI B16.5.

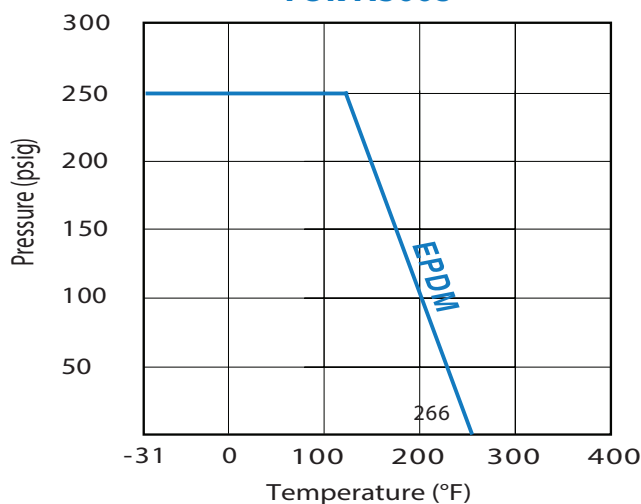


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VALVE FEATURES

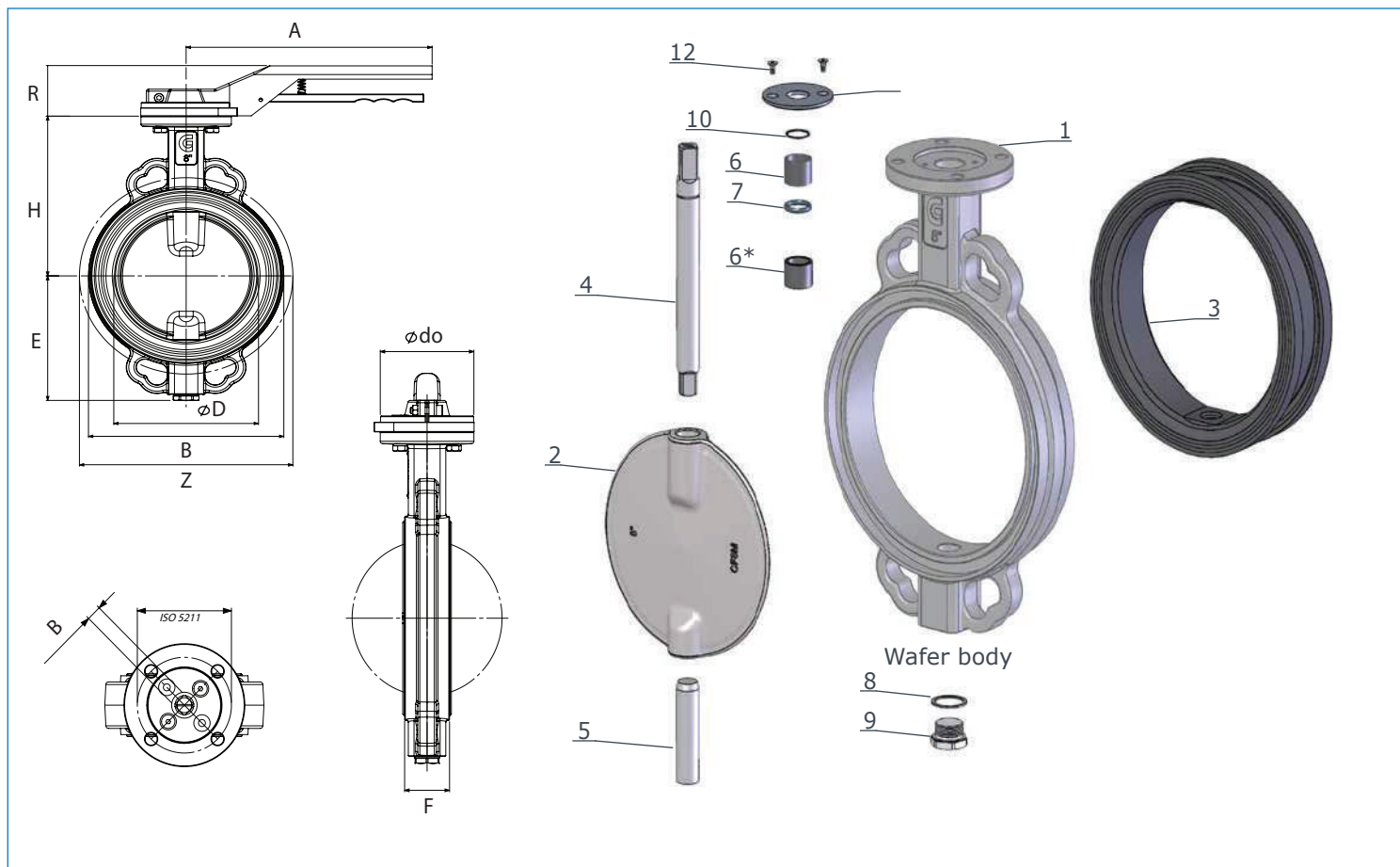
- Epoxy coated ductile iron (EN-GJS 400-15) wafer body
- N501S - Sizes 1-1/2" to 12"
- ISO 5211 direct mounting pad/square stem
- Food EPDM resilient seat -31°F to 266°F
- API 609 face to face flange
- Floating dual shaft disc design
- Pressure rating: 250 psi water (40°F to 80°F)
- MSS SP 67 compliant
- No pins in disc prevent potential leak points
- NSF certified for drinking water service

PRESSURE TEMPERATURE CHART FOR N500S



Cv FLOW CHART (DEGREE OPEN VS. % FULL CV)

Valve Size	10°	20°	30°	40°	50°	60°	70°	80°	90°
1-1/2"	-	1	7	17	25	62	107	133	135
2"	-	1	7	17	25	62	107	133	135
2-1/2"	-	3	13	31	59	104	187	259	298
3"	-	6	24	57	106	181	328	530	589
4"	-	11	45	102	184	312	565	945	1073
5"	-	17	80	172	304	503	891	1512	1731
6"	-	27	130	265	457	744	1273	2159	2515
8"	-	128	245	470	788	1259	2074	3530	4452
10"	24	181	360	686	1146	1846	3149	5531	5812
12"	57	325	442	861	1452	2388	4343	7924	10710



N POS	PART NAME	MATERIAL	N PCS
1	BODY	DUCTILE IRON GS400	1
2	DISC	ASTM A351 CF8M (A316)	1
3	BODY SEAT	EPDM (-31°F TO 266°F)	1
4	UPPER SHAFT	SS 430	1
5	LOWER SHAFT	SS 430	1
6	BUSH	BRONZE	1
7	SHAFT PACKING	NBR	1
8	PLUG PACKING	ALUMINUM	1
9	THREADED PLUG	ZINC PLATED STEEL	1
10	STOP RING	STEEL	1
11	UPPER FLANGE	IXEF (1 1/2"-6") / ALUMINUM (8"-12")	1
12	SCREW	ZINC PLATED STEEL	2

Size	ISO 5211	B	A	B	ØD	E	H	R	Ødo	Z	F	Weight Lbs	SEAT TORQUE		Cv (GPM @ 1psi)	
													145 psi	242 psi	50% OP	100% OP
1-1/2"	F07	11mm	8.66	-	1.93	2.87	5.12	2.64	3.66	3.87	1.30	8.82	115	124	24	135
2"	F07	11mm	8.66	-	2.17	3.15	5.43	2.64	3.66	4.75	1.69	10.14	115	133	24	135
2 1/2"	F07	11mm	8.66	-	2.68	3.86	5.67	2.64	3.66	5.50	1.81	12.13	142	159	44	298
3"	F07	11mm	8.66	-	3.19	4.25	6.22	2.64	3.66	6.00	1.81	12.79	319	354	79	589
4"	F07	11mm	8.66	6.38	3.98	5.00	6.81	2.64	3.66	7.50	2.05	17.20	398	425	140	1073
5"	F07	14mm	10.83	7.48	4.96	5.47	7.32	2.64	3.66	8.50	2.20	20.51	460	620	231	1731
6"	F07	14mm	10.83	8.58	5.90	6.06	7.95	2.64	3.66	9.50	2.20	24.69	744	797	352	2515
8"	F10	17mm	13.39	10.63	7.87	7.36	9.45	2.99	4.92	11.75	2.36	33.07	1593	1858	613	4452
10"	F10	22mm	13.39	12.80	9.84	8.66	10.63	2.99	4.92	14.25	2.68	50.71	1947	2832	898	5812
12"	F10	22mm	13.39	14.76	11.73	9.72	11.81	2.99	4.92	17.00	3.07	72.75	2832	3452	1145	10710