

BUTTERFLY VALVES

RESILIENT SEATED PHENOLIC BACKUP BUTTERFLY VALVE

Series 9RC



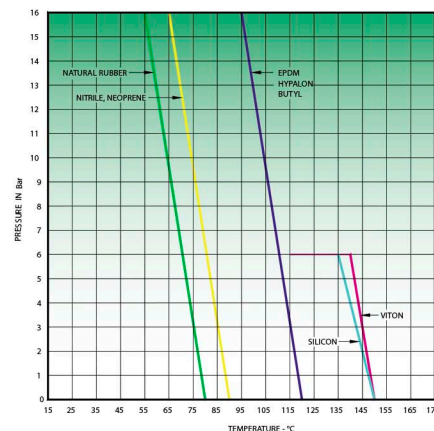
FEATURES

- **THREE LOW FRICTION BUSHINGS TOTALLY ISOLATE THE SHAFT FROM THE BODY:** Eliminates shaft seizing in the body due to condensation and eliminates side loading on actuators for automated valves. Provides lower torque and longer life
- **ONE PIECE THROUGH SHAFT:** Supplies rigid disc support for constant loading
- **PRIMARY & SECONDARY SHAFT SEALS AT DISC FLAT & SHAFT BORE AREAS OF THE SEAT:** Eliminates chance of shaft leakage at maximum shut-off pressure or unexpected pressure surges
- **DISC FLAT ARE PRECISION MACHINED & FITTED TO CLOSE TOLERANCES:** Guarantees the integrity of the primary seal. Provides/maintains a dry shaft design
- **THE DISC SEATING EDGE IS MACHINED TO A HALF BALL PROFILE & POLISHED TO A SMOOTH FINISH:** Provides a precise disc-to-seat relationship, thereby achieving repeatable low torques
- **THE SEAT FEATURES A CARTRIDGE STYLE DESIGN WITH AN ELASTOMER BONDED TO A STATE OF THE ART SUPER STRENGTH STABILIZING RING:** Stabilizes & eliminates any elastomer movement, extending seat life by reducing tearing or fatiguing due to elastomer bunching. Control disc-to-seat interface resulting in low shut-off torques. Allows minimum thickness of elastomer, which in turn controls seat swell
- **UNIBODY**
- **WAFER SEMI LUG FOR EASY MOUNTING**
- **WORKING PRESSURE:** 150 PSI
- **TEMPERATURE LIMITATIONS FOR SEAT:**
 - NBR: -30° TO 90°C
 - NEOPRENE: -20° TO 90°C
 - EPDM: -40° TO 120°C
 - HYPALON: -32° TO 120°C
 - VITON: -23° TO 150°C
 - PTFE/NBR: 5° TO 204°C

MATERIAL LIST

Part No.	Part Name	AVAILABLE MATERIALS
1	Body	Cl, Cl-Nylon 11, WCB, SS316, Aluminum
2	Disc	Bronze, Bronze-Aluminum, DI+Nylon 11, SS304, SS316, Aluminum, DI + Epoxy Coating
3	Body Seat	NBR, EPDM, Viton, Hypalon, PTFE, Neoprene
4	Shaft	SS410, SS304, SS316
5	Taper Pin	SS316
6	End Cover	Cl, Cl-Nylon 11, WCB, SS316, Aluminum
7	Bushing	PTFE
8	Stem packing	EPDM

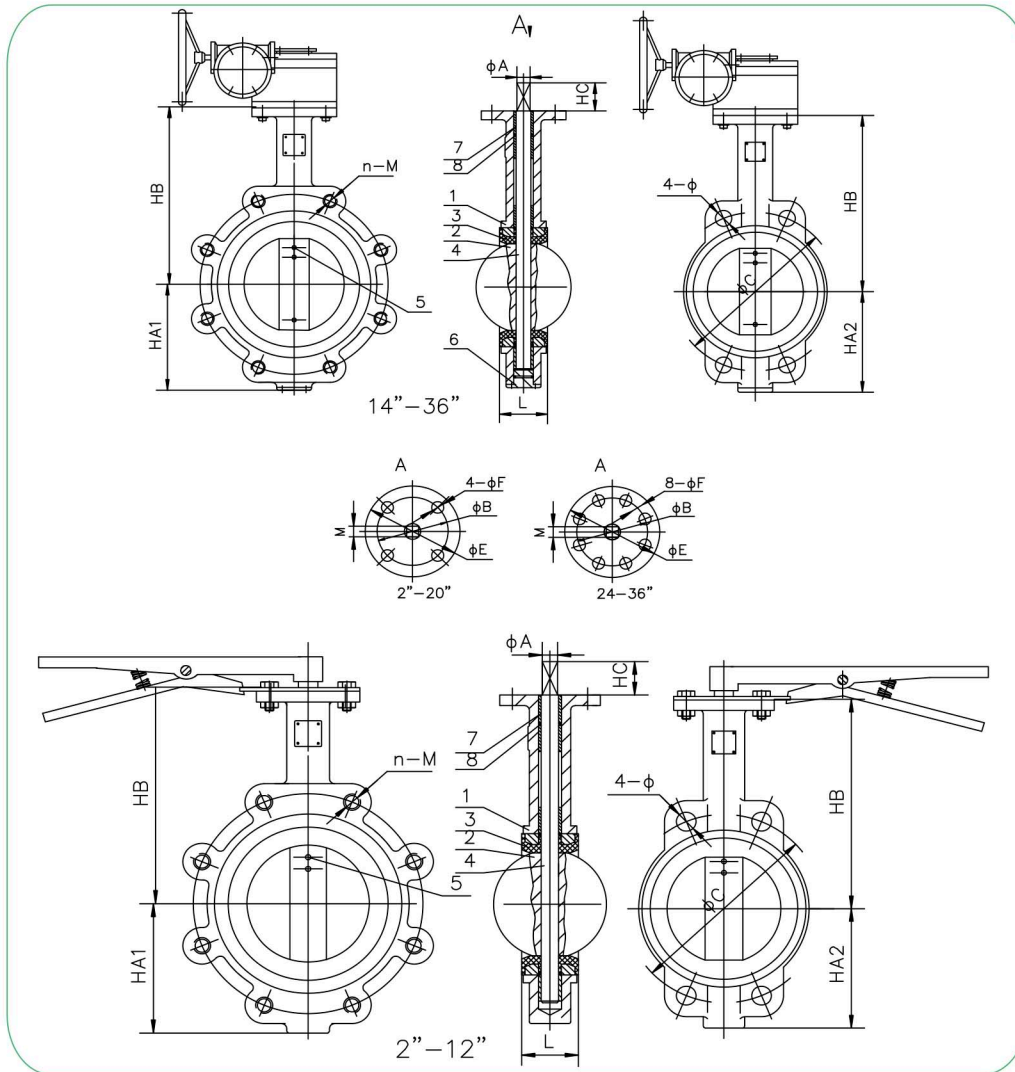
PRESSURE-TEMPERATURE CHART





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DIMENSION (INCHES)

Size	HA1	HA2	HB	HC	L	4 - Ø	N-M	ØA	Ø C	WEIGHT (LB)		TORQUE (IN-LB)			ISO 5211 (MM)			
										Wafer	Luq	ΔP=50PSI	ΔP=100PSI	ΔP=150PSI	Ø B	Ø E	Ø F	M
2"	2.99	2.99	6.38	1.26	1.77	0.75	4-5/8"-11	0.50	4.75	8.14	11.22	100	106	111	70	92	9	9
2 1/2"	3.15	3.50	6.89	1.26	1.89	0.75		0.50	5.50	10.34	11.88	150	163	176	70	92	9	9
3"	3.74	3.74	7.13	1.26	1.93	0.75	8-5/8"-11	0.50	6.00	10.78	12.76	207	220	232	70	92	9	9
4"	4.49	4.49	7.87	1.26	2.17	0.75		0.62	7.50	14.30	20.24	290	323	357	70	92	9	11
5"	5.00	5.00	8.39	1.26	2.28	0.88	8-3/4"-11	0.75	8.50	17.16	28.16	423	481	540	70	92	9	14
6"	5.51	5.51	8.86	1.26	2.32	0.88		0.75	9.50	20.24	29.92	599	691	783	70	92	9	14
8"	6.81	6.97	10.24	1.42	2.52	0.88	12-7/8"-9	0.87	11.75	32.34	42.90	1060	1183	1307	102	125	11	17
10"	7.99	7.99	11.50	1.42	2.76	1.00		1.13	14.25	46.64	65.34	1671	1872	2074	102	125	11	22
12"	9.33	9.53	13.27	1.42	3.15	1.00	12-1"-8	1.25	17.00	77.44	103.40	2568	2795	3023	125	150	13	22
14"	10.98	10.51	14.49	1.77	3.15	1.12		1.25	18.75	129.36	178.86	2640	3070	3500	125	150	13	22
16"	11.97	11.73	15.75	2.01	3.54	1.12	16-1"-8	1.31	21.25	222.64	284.24	4260	4880	5500	165	210	22	22
18"	14.25	12.52	16.61	2.01	4.29	1.25	16-1 1/8"-7	1.50	22.75	258.94	349.14	6287	7243	8200	165	210	22	27
20"	14.49	13.74	18.86	2.52	5.31	1.25	20-1 1/8"-7	1.62	25.00	352.22	498.52	8360	9180	10000	165	210	22	27
24"	17.48	16.14	22.13	2.76	6.14	1.38	20-1 1/4"-7	1.99	29.50	566.50	694.10	15427	16813	18200	254	300	18	36
30"	24.45	20.31	24.57	2.83	6.65	1.38	28-1 1/4"-7	2.17	36.00	990.00	1063.48	27313	29407	31500	254	300	18	40
36"	24.53	24.06	30.24	3.03	8.31	1.62	32-1 1/2"-6	2.92	42.76	1514.70	1870.00	40622	43480	46524	254	300	18	53
42"	UNDER DEVELOP																	
48"	UNDER DEVELOP																	



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HOW TO ORDER

VALVE BODY DESIGN (SERIES)	MATERIAL			ENDS	CLASS	SIZE	OPERATION
	BODY	TRIM	SEAT				
9RC 1 Pc Resilient Seated Phenolic Backup Butterfly Valve	2	WCB	1 Bronze	E	0 ANSI 150#	02	L 10 Pos Lever
	3	CF8M	3 316SS	B		02.5	
	4	CF8	4 304SS	V		03	
	5	Aluminum	5 Aluminum	N		03	
	6	CI	6 CI+Epoxy	H		04	
	7	CI+Nylon 11	7 CI+Nylon 11	R		05	
				V		06	
				08	F ON-OFF Lever		
				10	G Gear Operator ⁽³⁾		
				12	B Bare Shaft		
				14	E Electric Actuator		
				16	P Pneumatic Actuator		
				18			
				20			
				24			
				30			
				36			

Example

Resilient Seated Butterfly Valve, Body CI, Disc CI+Epoxy, Seat EPDM, Wafer ANSI 150# Size 6" with Lever.

9RC-66E-W006L

NOTES

(1) Aplicable for Valves Body Design 9RC from 2" to 12" Only

(2) Aplicable for Valves Body Design 9RC Only

(3) Mandatory from 14" and larger

