

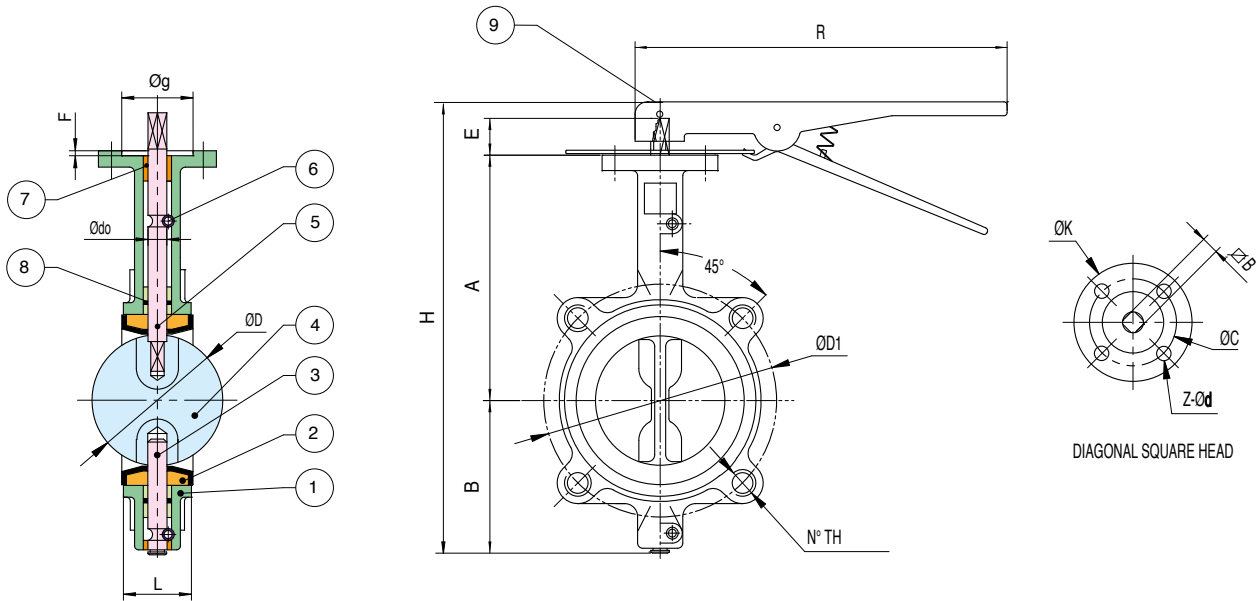
SERIES 501N - 501S

NYLON 11 COATED DISC CF8M SS DISC



- Manually operated butterfly valves.
- Epoxy coated ductile iron lug body.
 - Full port sizes 1 1/2 to 12".
 - EPDM resilient seat -30°F to 250°F.
 - API609 face to face flange.
 - Floating dual shaft disc design.
 - 10 position stop.
 - MSS SP 67 compliant.
 - No pins in disc prevent potential leak points.

531N-531S: VITON SEATS
541N-541S: BUNA-N SEATS

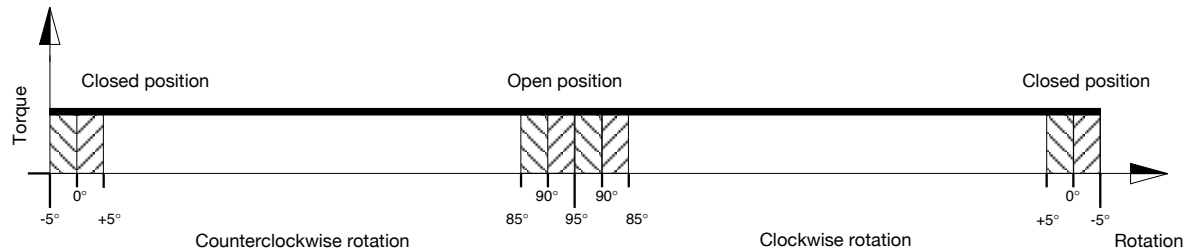
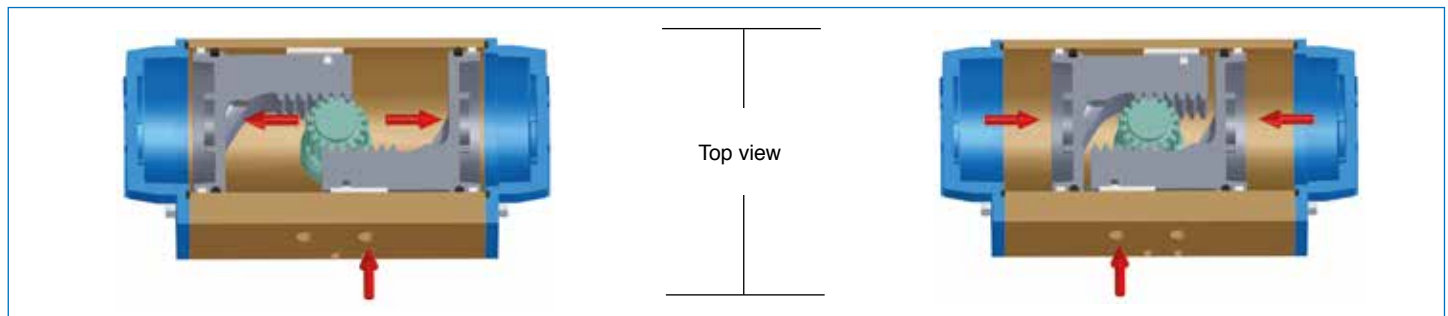


PART NAME	MATERIAL	N PCS	SIZE	ØC ISO	Z-B	A	B	L	ØD	E	H	R	Ødo	UPPER FLANGE				DISC	LUG	WT.	SEAT TORQUE				CV (GPM@ 1psi)	
														ØK	Z-d	Øg	F				ØD1	N°-TH	Lbs	100 psi	200 psi	50% OP
1	BODY	DUCTILE IRON	1	1 1/2	F05	9 mm	5.71	2.97	1.61	1.67	0.47	12.95	10.63	0.50	3.03	4-0.28	1.38	0.12	4.74	4-5/8"-11	7.9	111	133	35	108	
2	SEAT	EPDM (30F to 250F)	1	2"	F05	9 mm	6.34	3.15	1.65	2.07	0.47	13.94	10.63	0.50	3.03	4-0.28	1.38	0.12	4.74	4-5/8"-11	8.4	126	146	45	135	
3	LOWER SHAFT	SS 416	1	2 1/2	F05	9 mm	6.89	3.50	1.76	2.54	0.47	15.04	10.63	0.50	3.03	4-0.28	1.38	0.12	5.49	4-5/8"-11	9.3	134	167	65	220	
4	DISC 500N	IRON NYLON 11	1	3"	F05	9 mm	7.13	3.74	1.78	3.10	0.47	15.51	10.63	0.50	3.03	4-0.28	1.38	0.12	6.00	4-5/8"-11	10.4	205	223	70	300	
	DISC 500S	STAINLESS STEEL		4"	F07	11 mm	7.87	4.49	2.05	4.09	0.63	17	10.63	0.62	3.54	4-0.35	2.17	0.12	7.50	8-5/8"-11	19.8	339	386	140	605	
5	UPPER SHAFT	SS 416	1	5"	F07	14 mm	8.34	5.00	2.14	4.85	0.75	17.94	10.63	0.75	3.54	4-0.35	2.17	0.12	8.50	8-3/4"-10	24	523	602	235	1010	
6	LOCATING PIN	CARBON STEEL	1	6"	F07	14 mm	8.90	5.47	2.20	6.13	0.75	19.06	10.63	0.75	3.54	4-0.35	2.17	0.12	9.50	8-3/4"-10	31.3	677	996	360	1620	
7	BUSHING	P.T.F.E.	1	8"	F10	17 mm	10.24	6.89	2.34	7.97	0.75	22.25	14.17	0.87	4.92	4-0.47	2.76	0.14	11.75	8-3/4"-10	40.1	1205	1864	715	3205	
8	O-RING	EPDM	1	10**	F10	22 mm	11.50	7.99	2.58	9.86	0.94	24.77	19.68	1.12	4.92	4-0.47	2.76	1.40	14.25	12-7/8"-9	59.1	1890	3140	1225	5305	
9	LEVER	EPOXY-COATED CARBON STEEL	1	12**	F10	22 mm	13.27	9.53	3.03	11.87	0.94	28.31	19.68	1.24	5.51	4-0.47	2.76	1.40	17.00	12-7/8"-9	88.2	2808	4767	1900	8250	

* 10" and 12" available in bare stem version only.



DOUBLE ACTING ACTUATOR



With reference to the above diagram it can be noted that the torque of a double acting actuator remains constant through-out the complete action.

The user can decide on which model to choose according to the own specific requirements, using the following guidelines:

1. Define the maximum torque of the valve to automate.
2. To obtain a safety factor increase the torque value chosen by 25% - 50% (subject to the type of valve and working conditions).
3. Once the torque value suggested is obtained consult the torque chart and in relation to the corresponding air pressure find a torque value exact to or exceeding the one obtained.
4. Once the torque value is determined move horizontally to the column "model" to find the actuator model required.

TYPE	AIR SUPPLY PRESSURE (psi)							
	40	50	60	70	80	90	100	115
	TORQUE OUTPUT DOUBLE ACTING ACTUATORS (in-Lbs)							
DA 32	34	43	55	64	71	82	87	101
DA 52 *	88	112	133	158	178	201	227	263
DA 63 *	152	193	238	282	320	361	405	469
DA 75 *	283	356	435	513	586	659	736	851
DA 85 *	406	514	628	744	853	960	1072	1237
DA 100 *	645	814	989	1163	1333	1505	1681	1939
DA 115	1065	1344	1640	1932	2212	2488	2779	3211
DA 125	1402	1771	2153	2539	2905	3274	3650	4220
DA 140	2003	2504	3005	3506	4006	4509	5009	5764
DA 160	2804	3501	4196	4899	5596	6292	6987	8045
DA 180	3860	4825	5790	6746	7711	8661	9627	11081
DA 200	5198	6494	7796	9089	10393	11670	12972	14924
DA 230	8589	10738	12880	15031	17180	19289	21440	24671
DA 270	12625	15777	18935	22093	25246	28361	31511	36269
DA 330	22464	28083	33702	39321	44939	50476	56086	64555

* Valid also for stainless steel actuator