



Material of Constructions for Damper Butterfly Valves (Model - 9300)

Sr. No.	Part	Carbon Steel	Low Temp. Steel	Stainless Steel	DUPLEX	Aluminium Bronze	Nickel Alloys
1	Body	ASTM A 216 Gr. WCB	ASTM A 352 Gr.LCB, LCC	ASTM A 351 Gr. CF8 , CF8M	ASTM A890 Gr. 4A, 5A, 6A	ASTM B148 Gr. C95800, C95500 /B150 Gr C63200	ASTM A 494 Gr. CW6MC, CW12M, M53-1
2	Disc	ASTM A 351 Gr. CF8 , CF8M	ASTM A 351 Gr. CF8M	ASTM A 351 Gr. CF8 , CF8M	ASTM A890 Gr. 4A, 5A, 6A	C95800, C95500 , C63200 , Monel	ASTM A 494 Gr. CW6MC, CW12M, M53-1
3	Disc Pin	F304, F316	F 316	F304 , F316, 17-4 PH	ASTM A 182 Gr. F51 , F53 , F55	Monel	Inconel 625, 750, 825, Monel
4	Upper Stem	F304, F316, F6a, 17-4PH, AISI410	F 316	F304 , F316, 17-4 PH	ASTM A 182 Gr. F51 , F53 , F55	Monel	Inconel 625, 750, 825, Monel
5	Lower Stem	F304, F316, F6a, 17-4PH, AISI410	F 316	F304 , F316, 17-4 PH	ASTM A 182 Gr. F51 , F53 , F55	Monel	Inconel 625, 750, 825, Monel
6	Thrust Washer	F304, F316 , Brass	F 316 , Brass	F304 , F316 ,,17-4 PH , Brass	Duplex , Brass	Monel , Brass	Inconel 625, 750, 825, Monel, Brass
7	Gasket	SPW(SS304, SS316, 410) + GRAPHOIL / PTFE	SPW SS316 + GRAPHOIL / PTFE	SPW(SS304, SS316) + GRAPHOIL / PTFE	SPW Duplex + GRAPHOIL / PTFE	SPW (Monel/Inconel) + GRAPHOIL / PTFE	SPW (Monel/Inconel) + GRAPHOIL / PTFE
8	End Cover	ASTM A 216 Gr. WCB	ASTM A 352 Gr.LCB, LCC	ASTM A 351 Gr. CF8 , CF8M	ASTM A890 Gr. 4A, 5A, 6A	ASTM B148 Gr. C95800, C95500 /B150 Gr C63200	ASTM A 494 Gr. CW6MC, CW12M, M53-1
9	Cover Bolt	ASTM A 193 Gr. B7 , B7M	ASTM A 320 L7,L7M	A193 Gr. B8, B8M	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2
10	Guide Bush	F304, F316, Brass + PTFE	F 316 , Brass + PTFE	F304, F316, Brass + PTFE	Duplex , Brass + PTFE	Monel , Brass + PTFE	Inconel, Monel,Brass + PTFE
11	Spreader	F304, F316, F6a, 17-4PH, AISI410	F 316	F304 , F316, 17-4 PH	4A, 5A, 6A, F51 , F53 , F55	Monel	Inconel / Monel
12	Gland Packing	PTEF / RPTFE	PTEF / RPTFE	PTEF / RPTFE	PTEF / RPTFE	PTEF / RPTFE	PTEF / RPTFE
13	Gland Bush	F304, F316, F6a, 17-4PH, AISI410	F 316	F304 , F316	4A, 5A, 6A, F51 , F53 , F55	Monel	Inconel / Monel
14	Gland Flange	F304, F316, F6a, 17-4PH, AISI410	F 316	F304 , F316	4A, 5A, 6A, F51 , F53 , F55	Monel	Inconel / Monel
15	Stud & Nut	ASTM A193 Gr. B7, B7M & ASTM A194 Gr. 2H, 2HM	ASTM A 320 L7,L7M & ASTM A 194 Gr. 4L, 7M ,4	ASTM A 193 Gr. B8, B8M & ASTM A194 Gr. 8, 8M	A193 Gr. B8, B8M, B8M Cl.2 & A194 Gr 8M, 8MA	A193 Gr. B8, B8M, B8M Cl.2 & A194 Gr 8M, 8MA	A193 Gr. B8, B8M, B8M Cl.2 & A194 Gr 8M, 8MA
16	Bracket	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
17	Bracket Bolt	ASTM A193 Gr. B7, B7M	ASTM A 320 L7,L7M	A193 Gr. B8, B8M	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2
18	Gear Box	Standard	Standard	Standard	Standard	Standard	Standard
19	Gear Bolt	ASTM A193 Gr. B7, B7M	ASTM A 320 L7,L7M	A193 Gr. B8, B8M	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2	A193 Gr. B8, B8M, B8M Cl.2
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NOTE :- ** As per requirement other materials are available.

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