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DV500-Series Butterfly Valves

TRIPLE OFFSET BUTTERFLY VALVES

DAEJU CONTROL CO., LTD.

DV500-Series Butterfly Valve

Triple Offset Butterfly Valve DV500-Series can be said for the DV500 -Series of the usual swing-through type formula to be a completely different highly efficient butterfly valve in respect of a seal performance and operational characteristic.

Key design features are:
-Soft seal ring or metal seal ring is applied to seal ring method.

Contents

DV Series Selection Guide

DV □ □ — □ □ □ □

Body Type
G. Globe
A. Angle

Trim Type
100. Single
200. Cage
300. X[iks]-Trim
400. Desuperheater
500. T.O.Butterfly
600. E.R.Plug
700. Segment Ball

Actuator Type
DD. Diaph, Dir, Action
DR. Diaph, Rev, Action
CS. Spring Cylinder
CD. Double Cylinder
HS. Hydro, Cylinder
EM. Electro, Motor
CE. Custom, Engineered

Size
C1. ⌀250, C2. ⌀290
C3. ⌀370, C4. ⌀480
C5. ⌀550

Cylinder Size
300~1000

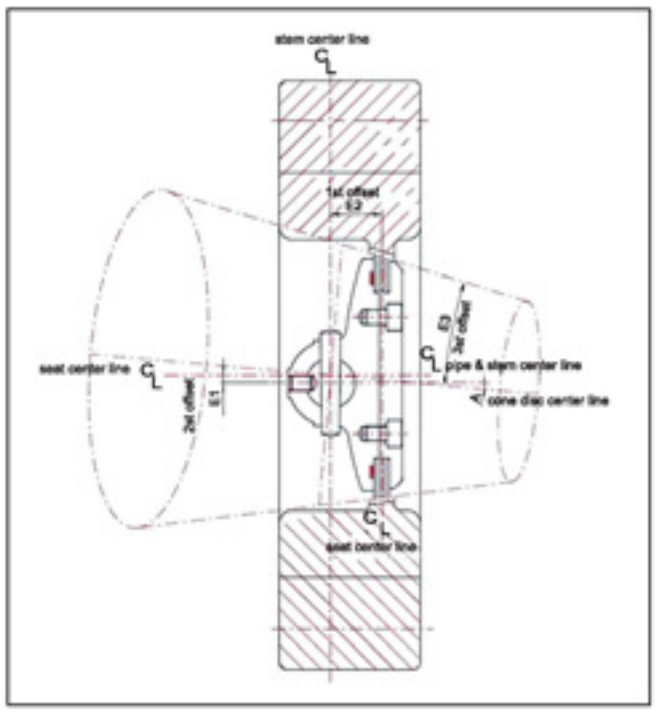
Specifications

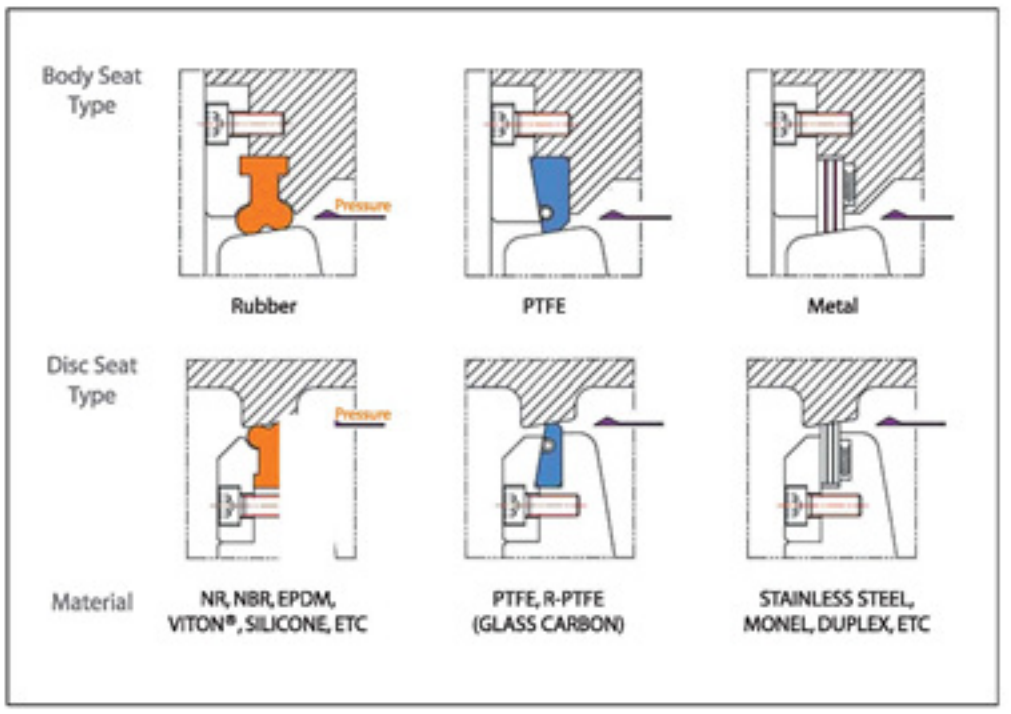
Body	
Body Size	3"(80A) to 48"(1200A)
Body Style	Triple Offset Butterfly Valve
Pressure Rating	ANSI 150LB, 300LB (Option 600~900LB)
End Connection	Water, Lugged, (Option: Flanged, Welded)
Flow Direction	Flow to Close
Rated Angle of Rotating	70deg (Option: 60deg and 90deg)
Fine Safe Design	Triple Offset Butterfly Valve
Seat Leakage	Zero Leakage
Temperature Range	-196 to 900deg C.
Materials	
Body	Carbon Steel, Stainless Steel, Duplex St, St, 6Mo, St, St, Bronze, Monel, Incoloy, Hastelloy B & C, Titanium, Zirconium, Others.
Trim	Stainless steel, Monel, Hastelloy, Inconel, Titanium, Others.
Actuators	
Type	Diaphragm,Cylinder (Double, Single) Hydraulic Cylinder, Motor, Others.
Characteristic	Equal%, Linear, On-off
Accessories	Positioner (E/P, P/P, Smart) Booster Lock-up, Air Set, Solenoid Valve, Others

Construction

Triple Offset Butterfly Valve

DV500 Series Valve utilises the well established unique valve geometry where the stem is offset from the body in two directions ① and ② Whilst the disc is a segment taken from a cone where the apex is offset form the center ling of the valve ③. The disc of the valve houses a field replaceable mental laminate seal whilst the field replaceable seat ring is housed in the body of the valve.
Bidirectional zero leakage is achieved by a unique principle in which the torque generated by the actuating mechanism is allowed to flex the metal seal withim it's elastic limits, compressing the seal, thus ensuring that both seal and seat are perfectly matched. This seal resiliency results in zero leakage.





Standard Materials

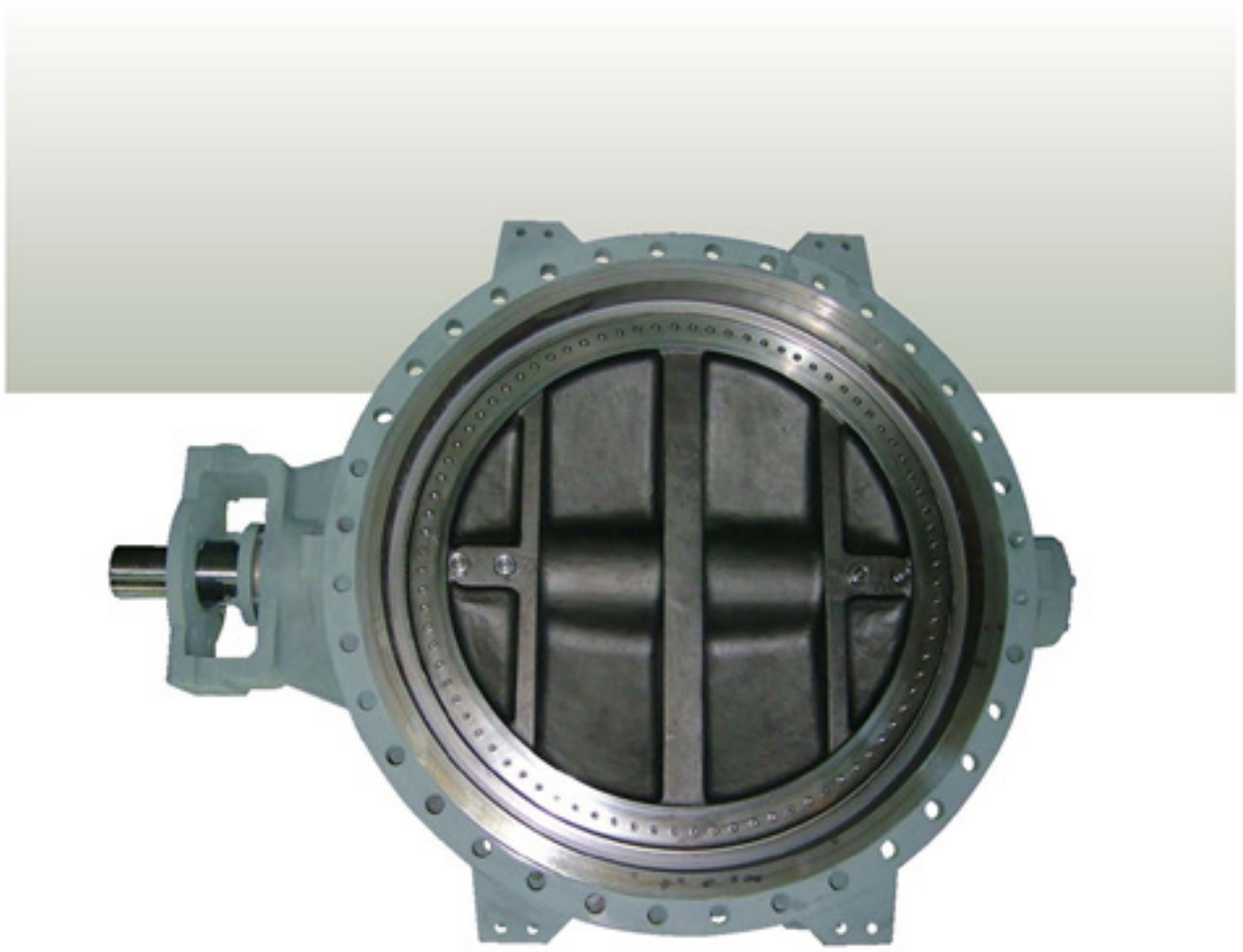
DV500-Series / Triple Offset Butterfly

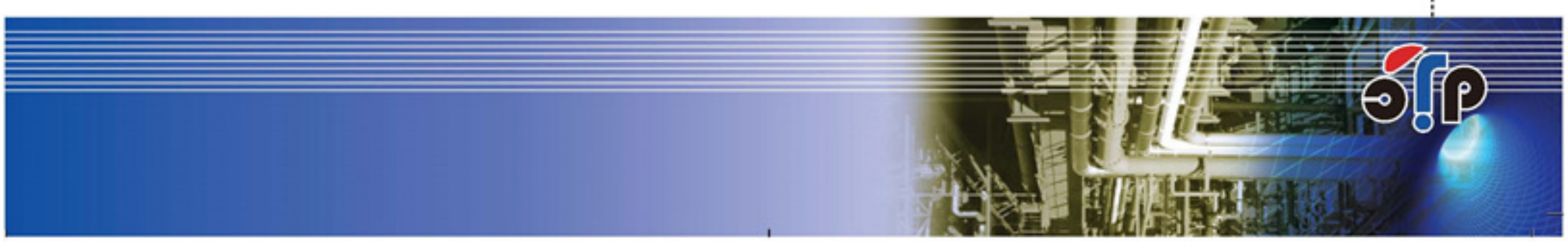
Parts Name	Standard Materials
Body	Carbon Steel
	Stainless Steel
Disk	316SS for Carbon Steel
	316SS for Stainless Steel
Seat-Ring	Graphite + 316SS
Seat Ring Retainer	316SS
Steam	630SS for Standard
	Inconel 718 or Monel 500
Guide Bushing	316SS W / Cr. Plated
	316SS Bore for Stainless Steel
Bottom Cover	316SS
Bottom Gasket	Graphite
Gland Packing	Graphite
Gland Stud & Nut	316SS

* Max Temperature : 900degC

Rated Cv

Valve Size (In.)	Ratings Class	DV500 Series Rotating/ deg		
		60°	70°	90°
3	150	96	128	165
	300	96	128	165
	600	-	-	-
4	150	176	234	302
	300	176	234	302
	600	126	136	140
6	150	448	616	796
	300	407	559	725
	600	351	378	390
8	150	821	1130	1460
	300	746	1030	1330
	600	522	563	580
10	150	1420	1960	2530
	300	1350	1860	2410
	600	1233	1329	1370
12	150	2120	2920	8780
	300	2020	2780	3600
	600	1944	2095	2160
14	150	2890	3980	5140
	300	2750	3780	4900
	600	2493	2687	2770
16	150	4510	6210	8020
	300	4090	5610	7280
	600	3640	3923	4044
18	150	5940	8180	10600
	300	5380	7400	9590
	600	4257	4588	4730
20	150	7340	10100	13000
	300	6640	9310	1180
	600	5256	5665	5840
24	150	10600	14500	18800
	300	9570	13100	17100
	600	9009	9710	10010
28	150	15300	21100	27200
30	150	17200	23700	30700
32	150	19700	27100	35000
36	150	24200	33300	43000
40	150	31900	44000	56900
42	150	33700	46500	6000
48	150	45000	61900	80000





Cryogenic TR Triple
offset Butterfly Valves

Handwheel Application
Actuators

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