



Dust Control and Loading Systems Inc

Leaders in Innovative Bulk Loading Systems Design

FBD Flat Blade Diverter Valve

FLAT BLADE DIVERTER VALVE

DCL's Model FBD Flat Blade Diverter Valves are designed to direct product flow from outlets of storage bins, silos, conveyors, gravity flow chutes and other discharge points handling dry bulk materials.

These rugged heavy duty flat blade diverters are available in offset, symmetrical, and triverter configurations. Standard sizes range from 6 inches to 36 inches square. Sizes larger than 36 inches, rectangular, and special configurations including hardened liners are available on a custom build basis.

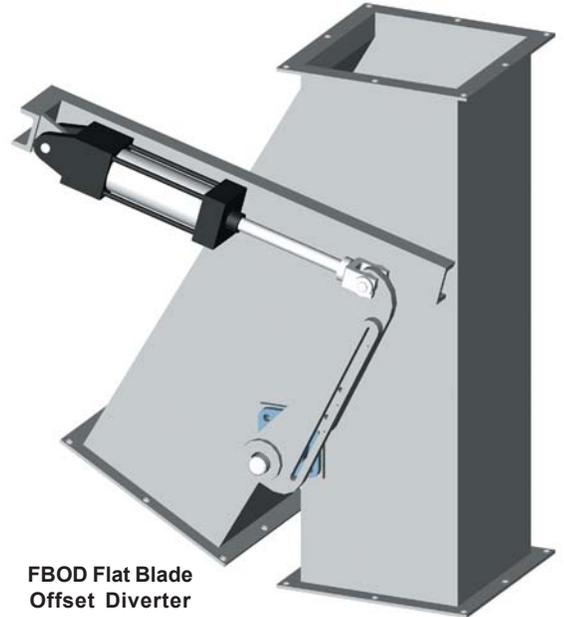
A choice of construction materials allow handling of all types of products; fine, granular, lumpy, abrasive, corrosive, and sanitary applications.

FEATURES

The FBD housing is constructed of plate steel with cross member supports on larger sizes. The reinforced blade pivots on two flanged bearings allowing it to open and close with ease. Actuation of Flat Blade Diverter

Valves can be accomplished in many ways; pneumatically for fast action, hydraulically for power, electrically for convenience, and manually with a chain wheel or lever.

The seals on the Flat Blade Diverter are designed to eliminate product leakage when the blade is in the diverted position. The seals are located at the top, sides, and bottom of the blade. Blade seals are selected according to the material being handled and are available to suit any application.



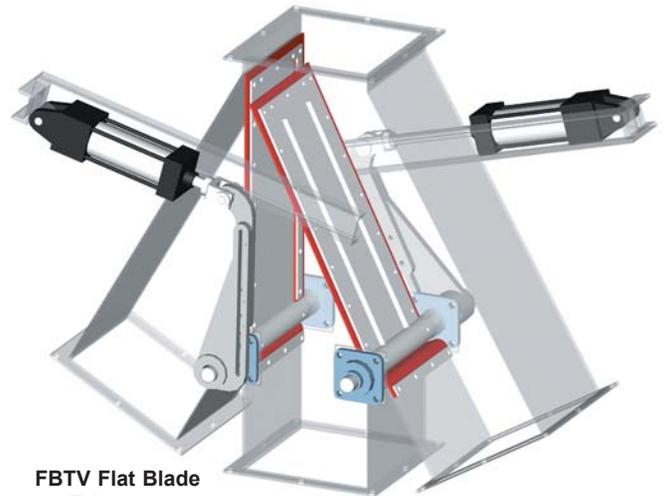
FBOD Flat Blade Offset Diverter

MODELS AVAILABLE

The FBOD Flat Blade Offset Diverter Valve is configured to direct the product flow straight through or to one side of the diverter. Typical product outlet offsets are 30 or 45 degrees off center. One blade and actuator is used on this diverter valve.

FBSD Flat Blade Symmetrical Diverter Valves have two product outlets, each 30 or 45 degrees off center. One blade and actuator is used on this diverter valve.

The FBTV Flat Blade Triverter Valve has one inlet and three outlets. The two side product outlets are 30 or 45 degrees off the center outlet. Two blades and actuators are used on this valve.

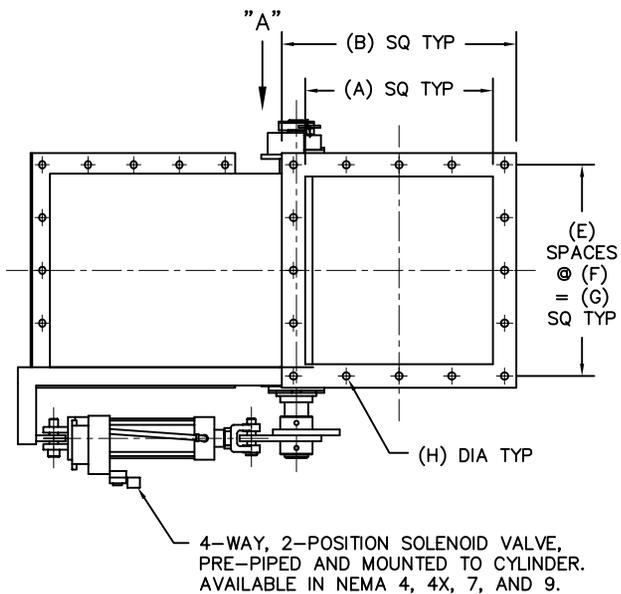


FBTV Flat Blade Triverter

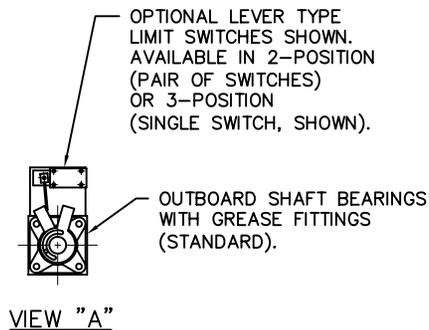
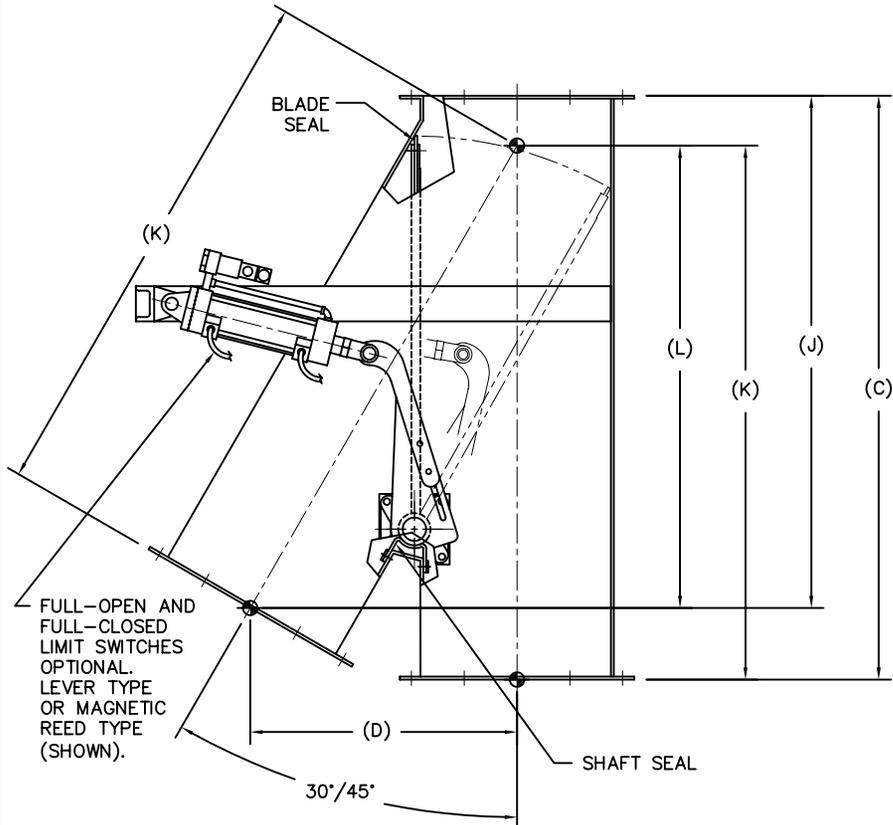
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MODEL	A	B	C	D	E	F	G	H	J	K	L	EST WGT
FBOD30-06	6.00	9.00	27.38	12.50	2	4.00	8.00	0.63	24.00	25.00	21.63	132 LB*
FBOD30-08	8.00	11.00	31.62	14.50	2	5.00	10.00	0.63	27.75	29.00	25.13	160 LB*
FBOD30-10	10.00	13.00	35.38	16.25	2	6.00	12.00	0.63	31.00	32.50	28.13	246 LB*
FBOD30-12	12.00	15.00	39.50	18.13	2	7.00	14.00	0.63	34.75	36.25	31.38	270 LB*
FBOD30-14	14.00	17.00	45.75	20.88	4	4.00	16.00	0.63	40.19	41.75	36.19	434 LB*
FBOD30-16	16.00	20.00	49.75	22.75	4	4.50	18.00	0.63	43.69	45.50	39.39	530 LB*
FBOD30-18	18.00	22.00	54.00	24.75	4	5.00	20.00	0.63	47.50	49.50	42.88	662 LB*
FBOD30-24	24.00	28.00	68.25	31.25	4	6.50	26.00	0.63	60.00	62.50	54.13	1552 LB*
FBOD30-30	30.00	36.00	80.75	36.88	5	6.75	33.75	0.63	70.50	73.75	63.88	C/F
FBOD30-36	36.00	42.00	100.00	45.50	6	6.63	39.75	0.63	90.25	91.00	78.75	C/F
FBOD45-06	6.00	9.00	19.00	11.50	2	4.00	8.00	0.63	14.25	16.25	11.50	101 LB*
FBOD45-08	8.00	11.00	21.75	13.25	2	5.00	10.00	0.63	16.25	18.75	13.25	126 LB*
FBOD45-10	10.00	13.00	24.50	14.75	2	6.00	12.00	0.63	18.38	20.88	14.75	161 LB*
FBOD45-12	12.00	15.00	27.38	16.63	2	7.00	14.00	0.63	20.50	23.50	16.63	204 LB*
FBOD45-14	14.00	17.00	31.88	19.25	4	4.00	16.00	0.63	23.88	27.25	19.25	310 LB*
FBOD45-16	16.00	20.00	34.88	20.88	4	4.50	18.00	0.63	26.25	29.50	20.88	400 LB*
FBOD45-18	18.00	22.00	37.50	22.63	4	5.00	20.00	0.63	28.25	32.00	22.63	533 LB*
FBOD45-24	24.00	28.00	48.38	29.00	4	6.50	26.00	0.63	36.50	41.00	29.00	1135 LB*
FBOD45-30	30.00	36.00	56.25	34.25	5	6.75	33.75	0.63	42.38	48.50	34.25	C/F
FBOD45-36	36.00	42.00	70.25	42.00	6	6.63	39.75	0.63	53.00	59.50	42.00	C/F



GENERAL NOTES:

HOUSING, BLADE, AND SEAL RETAINERS ARE MILD STEEL. ABRASION RESISTANT OR STAINLESS STEEL IS OPTIONAL.

AVAILABLE BLADE SEALS ARE URETHANE, SILICONE, VITON, OR HIGH-TEMPERATURE RUBBER BELTING. OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

METAL SURFACES ARE POWER TOOL CLEANED, PRIMED, AND FINISHED WITH INDUSTRIAL ENAMEL.

FULL-OPEN AND FULL-CLOSED LIMIT SWITCHES ARE OPTIONAL, AND ARE AVAILABLE IN NEMA 4, 4X, 7, AND 9.

LENGTH AND CAPACITY OF ACTUATOR TO BE DETERMINED UPON APPLICATION.

SPECIFICATIONS AND/OR DIMENSIONAL DATA ARE SUBJECT TO CHANGE. CONSULT DCL FOR CERTIFIED DRAWINGS.

C/F = CONSULT FACTORY

*ESTIMATED WEIGHTS DO NOT INCLUDE ACTUATOR OR ELECTRICAL COMPONENTS.

REV	DATE	BY	DCL SPECIALISTS IN ADVANCED DESIGN LOADING SYSTEMS		P.O. BOX 125 CHARLEVOIX, MICHIGAN 49720 (231) 547-5800
			TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL: 1/16" DECIMAL: .06 ANGULAR: 1/2		DRAWN BY: TLC SCALE: NONE
					CHECKED BY: ENG DATE: 10-06-92
A	01-03-02	TLC	TITLE: FBOD FLAT BLADE OFFSET DIVERTER VALVE		DRAWING No: FBOD-10001