



# BUSH & WILTON

## CONVEYING DIVERTERS



PRESSURE SEALED FLAP TYPE CONVEYING DIVERTER VALVE

[www.bushandwilton.com](http://www.bushandwilton.com)



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## THE PRESSURE SEALED FLAP TYPE CONVEYING DIVERTER VALVE

**Higher Efficiency @ Substantially Lower Cost**

Bush & Wilton are pleased to release a new range of Pressure Sealed Flap Type Conveying Diverters. Prompted by customer demand, a major re-development programme has been undertaken and finalised, giving:

- VIRTUALLY LEAK-PROOF INTERNAL & EXTERNAL SEALING
- A MORE COMPACT PRODUCT
- SUBSTANTIALLY LESS REPLACEABLE COMPONENT SPARES
- ALTERNATIVE ACTUATION & CONDITION MONITORING
- INTERCHANGABILITY WITH EXISTING PRODUCTS

Testing indicated that extensive machining of internal surfaces has a limited effect on the overall seal pressure capacity of the valve, however flap geometry and shaft bypass leakage to atmosphere are the critical factors in maintaining system pressures.

It was possible to achieve PERFORMANCE IMPROVEMENTS AND OVERALL COST SAVINGS, by careful design and manufacture of the one moving element within the valve, and improving access to this part for servicing.

With this information in mind, the development of a new range of valves has taken only six months for a full range from 50mm to 300mm for flanged types and 50mm to 200mm for spigotted types. Most sizes will generally be available ex-stock.

Standard construction available for all sizes will be:

- CAST IRON BODY WITH MILD STEEL FLAP ASSEMBLY
- CAST ALUMINUM WITH STAINLESS STEEL FLAP ASSEMBLY
- CAST STAINLESS STEEL (316) WITH STAINLESS STEEL FLAP ASSEMBLY
- POLYURETHANE PARABOLIC SEAL AS STANDARD, OTHER OPTIONS ARE AVAILABLE

### Standard flange to 150lb ASA drillings

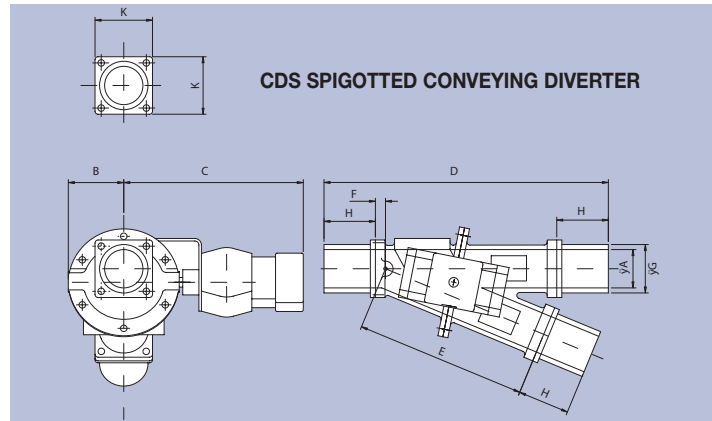
(Alternative drillings will be available on request)

All valves can be manual, pneumatic or electrically operated with standard condition/position monitoring switchgear.

Compatibility with existing installations with 22½° diverting angles can be accommodated.

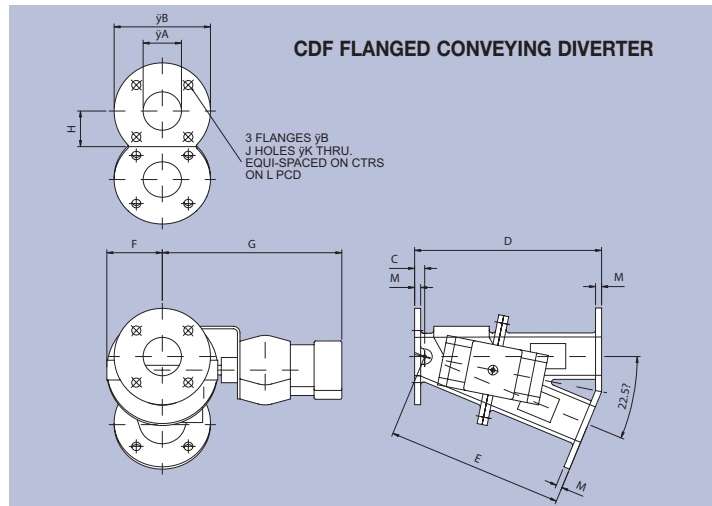
The modular nature of this design allows improved installation, commissioning and field servicing access.

Temperature ranges are - 10°C to 80°C in standard form, other temperatures can be considered.



SIZE	A Dia	B	C	D	E	F	G Dia	H	K
CDS050	2"	3.54"	13.86"	19.00"	10.20"	.79"	2.38"	4"	3.74"
CDS063	2.50"	3.94"	14.25"	19.80"	11.00"	.79"	2.87"	4"	4"
CDS075	3"	4.33"	14.65"	22.20"	13.38"	.79"	3.50"	4"	4.50"
CDS100	4"	5.50"	16.06"	23.19"	13.98"	1.18"	4.50"	4"	5"
CDS125	5"	6.30"	16.85"	27.08"	17.87"	1.18"	5.50"	4"	6"
CDS150	6"	7.09"	18.74"	30.39"	21.00"	1.38"	6.63"	4"	7.75"
CDS200	8"	8.78"	20.31"	36.22"	26.81"	1.38"	8.63"	4"	9.37"

BRAY ROTARY ACTUATORS ARE STANDARD OTHER TYPES AVAILABLE



SIZE	A Dia	B Dia	C	D	E	F	G	H	J	K	L	M
CDF050	2"	6"	.79"	12.20"	11.42"	3.54"	13.86"	2.28"	4	.75"	4.75"	.38"
CDF063	2.50"	7"	.79"	13.78"	13.00"	3.94"	14.25"	2.56"	4	.75"	5.50"	.38"
CDF075	3"	7.50"	.79"	14.61"	13.82"	4.33"	14.65"	2.80"	4	.75"	6.00"	.50"
CDF100	4"	9"	1.18"	22.76"	21.61"	5.50"	16.06"	4.76"	8	.75"	7.50"	.50"
CDF125	5"	10"	1.18"	24.96"	23.78"	6.30"	16.85"	4.75"	8	.88"	8.50"	.50"
CDF150	6"	11"	1.38"	29.92"	28.54"	7.09"	18.74"	5.12"	8	.88"	9.50"	.63"
CDF200	8"	13.50"	1.38"	35.47"	34.09"	8.78"	20.31"	6.14"	8	.88"	11.75"	.63"
CDF250	10"	16"	1.38"	51.34"	40.31"	11.02"	24.92"	7.72"	12	1.00"	14.25"	.79"
CDF300	12"	19"	2.83"	60.67"	48.85"	11.81"	27.95"	9.53"	12	1.00"	17.00"	1.00"

Bush & Wilton inc. PO Box 691385, Charlotte, NC 28227-7024

Tel: 704 573 6858 Fax: 704 573 6802

E-mail: mail@bushandwilton.com

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