ROTOLOK

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PLUG DIVERTERS

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INTRODUCTION

Plug type diverter valves are used in the pneumatic conveying industry to re-route powder, pellets and granules from one discharge point to another.

The Rotolok Plug Diverter can be used where Flap Valves are unsuitable due to high pressures or abrasive duties.

Plug Valves are ideal for use in high vacuum conveying systems or where severe leakage or cross contamination cannot be tolerated.

THE PLUG DIVERTER

The Valve consists of a rugged cast body which houses a cast plug between a pair of end covers. The material handled passes from one line through a tunnel within the plug to either of the two outlet lines. The material stream is diverted to the selected outlet by rotating the plug through 150°. Rotation is alternately clockwise and counter-clockwise and is achieved by means of a double acting torque actuator.

To prevent cross contamination, each leg has an individual PTFE seal to the plug which is pressurised by a gland follower arrangement and is accessible, adjustable and replaceable externally.

The plug and body are precision machined using the latest CNC technology to ensure reliability and sealing efficiency. The valve has no dead-leg, smooth internals ensure no lodgement points, minimising turbulence and therefore ensuring line efficiency is kept to a maximum.

Pipe connections can be supplied as either plain pipe ends or flanged as required.

FLANGED CONNECTIONS

Simple and robust, bolt on flanged ends drilled to match various international standards as requested.

SPIGOTTED CONNECTIONS

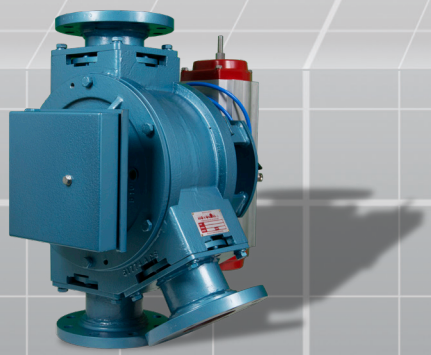
The spigotted ends are connected to pipework with 'Blo-line' type couplings, facilitating quick access in case of blockages. It also gives flexibility in pipe length accuracies and misalignment variation. Furthermore, the Rotolok spigotted ends are not of cast fixed length, but bolted on and of variable length. This enables the ends to be supplied to fit exactly to existing pipework.

IMPORTANT FEATURES

- Suitable for all types of conveying systems and most materials.
- Compact design
- Small divert angle - 30°
- Smooth internals - no lodgement points
- Minimal air leakage and cross contamination
- Pneumatic and/or manual versions
- Rugged design for up to 4 bar (60 psi) conveying and 10 Bar (145 psi) upset pressure
- Simple access and maintenance.
- Aluminium, Cast Iron or Stainless Steel construction

RANGE

A choice of construction materials include Aluminium, Cast Iron and Stainless Steel in any combination, allowing the majority of applications to be catered for. Standard range size 50mm to 250mm diameter but we will extend this range should the need arise.



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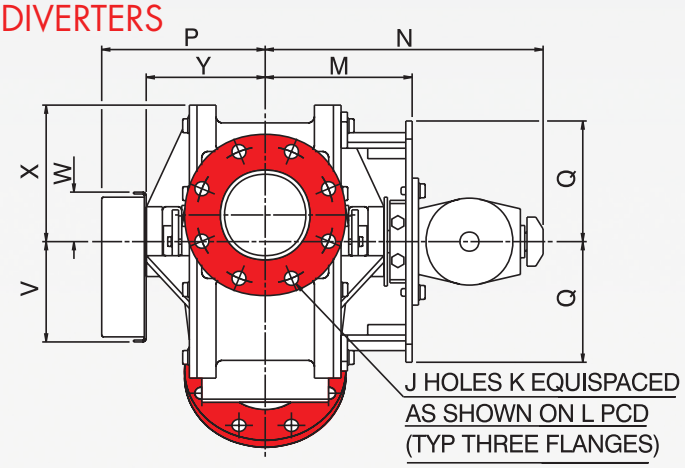
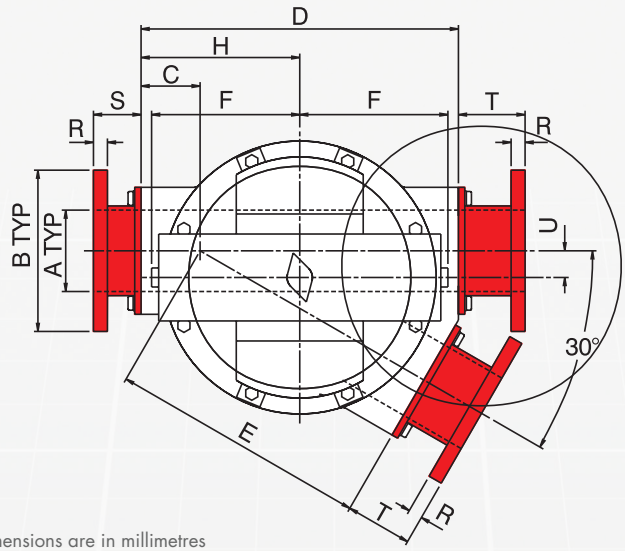
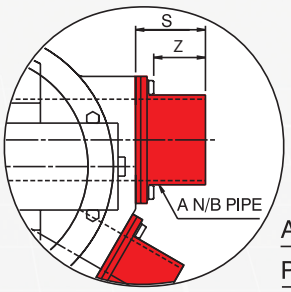


NOTE:
250 size has two actuators, one either side.





ALTERNATIVE SPIGOTTED PIPE CONNECTION

All dimensions are in millimetres

COMMON MEASUREMENTS														
SIZE	C	D	E	F	H	M	N	P	Q	U	V	W	X	Y
50	74	332	258	235	166	192	406	217	113	24.5	158	78	121	147
75	82	390	308	235	195	210	417	236	130	30.5	158	78	150	165
100	85	440	355	235	220	219	426	246	158	36	158	78	180	175
125	93	500	407	235	250	232	438	258	190	42	158	78	215	188
150	94	542	448	235	271	262	470	288	203	47.5	158	78	230	218
200	117	670	553	235	335	292	500	315	253	58.5	158	78	280	245
250	141	800	659	235	400	320	527	571	300	69.5	300	300	330	320

FLANGE BS TABLE D								
SIZE	ØA	ØB	J	ØK	L	R	S	T
50	52	152	4	18	114	10	64	64
75	78	184	4	18	146	10	80	80
100	102	216	4	18	178	10	70	105
125	128	254	8	18	210	13	75	105
150	154	279	8	18	235	13	76	97
200	203	337	8	18	292	13	80	130
250	254	406	8	22	356	16	91	141

SPIGOTTED			
SIZE	A Pipe	Z	S
50	2"	85	110
75	3"	85	110
100	4"	81	110
125	5"	81	110
150	6"	81	110
200	8"	81	110
250	10"	79	110

Dimensions are approximate and subject to change without notice
Planning-in detail for general guidance only
(To cover safety aspects ask for our safety leaflets)
Drillings are Rotolok standards. Variations can be made.

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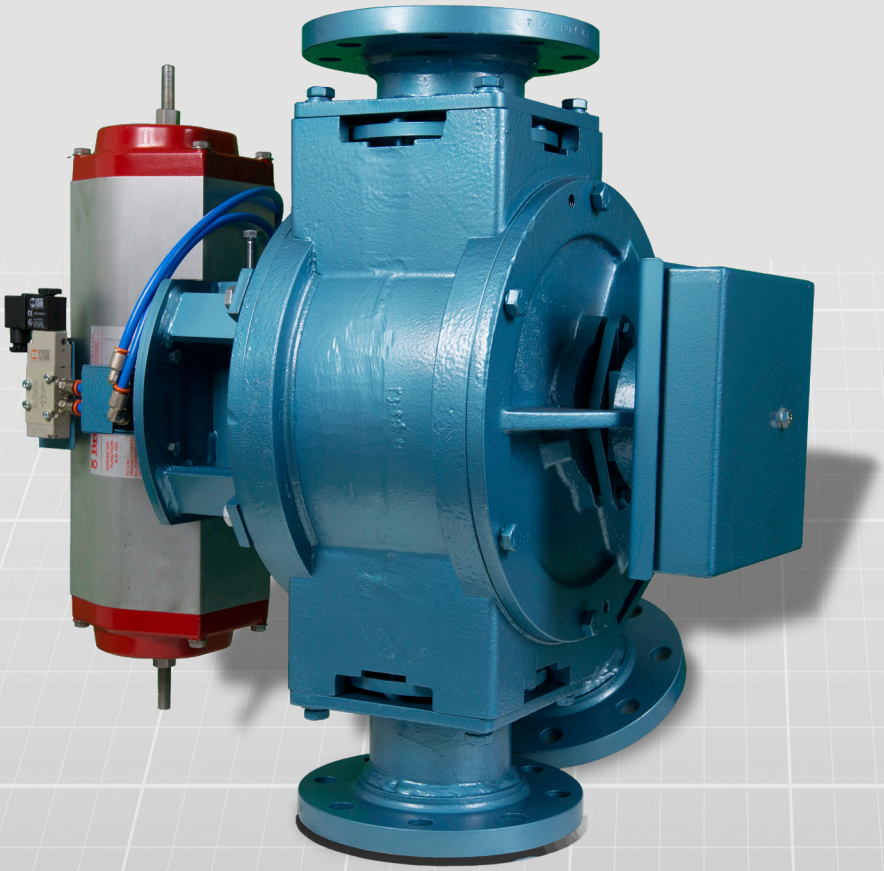

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