



BULK HANDLING SPECIALISTS



ROTOLOK COMPONENT CATALOGUE

CONTENTS

Components

Rotary Valves/Airlocks

Rotary Valve/Airlock	RV
Dust Collector Valve	RDV
Easy Release	RVE
Hygienic Rotary Kleanlok	KL
Hygienic Kleanlok Blowing Seal	KS
Offset Rotary Valve/Airlock	RVO
Blowthrough/Blowing Seal	BS
Oddball Rotary Valves	ORV

Diverters

Conveying Diverter	CDV
Gravity Diverter	GD
Plug Diverter	PDV
Weigh Valve	WV

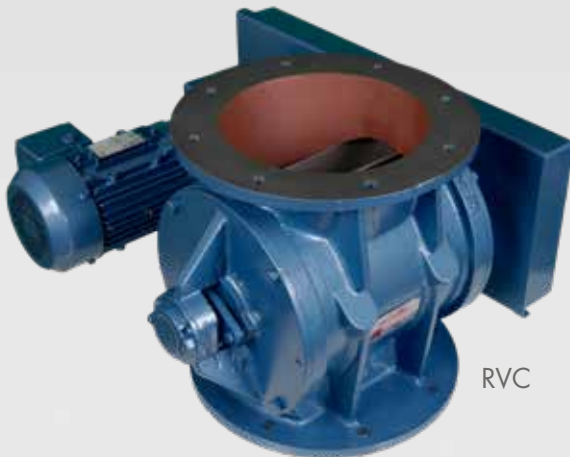
Slide & Control Valves

Fabricated Slide Gate	FS
Cast Slimslide	SS
Cast Rotoslide	RS
Butterfly Damper	BD
Rotoflex Iris Valve	RF
Slimflex Iris Valve	SF

Other Products

Telescopic Bulk Loader	TL
Roundhead Valve	RH
Blo-line Couplings	BLC
Single Flap Valve	SD
Double Flap Valve	DD
Ni-hard Pipe Bends	NHB
Rotospeed Switch	RSS





RVC



RVS

ROTARY VALVES - RV

The prime function of a Rotary Valve is to regulate the flow from one chamber to another while maintaining a good airlock condition. The product is mainly in dry powder or granular form.

In the dust filtration field good airlocks are essential on cyclone and bag filter applications in order that the manufacturer's quoted high dust collection efficiencies can be maintained. Airlocks are also important in the pneumatic conveying industry, where product is regulated into a high pressure conveying line while minimising air leakage.

With Rotolok there are no double standards, all our standard valves are precision machined for close tolerances and minimal eccentricities. Pressure differentials to 20psi and temperatures to 400°C. We have made specials to handle temperatures covering 1200°C and pressures to 350psi.

SPECIFICATION

BODIES

Cast Iron, Stainless Steel or Aluminium precision bored.

END COVERS

Cast Iron, Stainless Steel or Aluminium spigot located in body for concentricity.

ROTOR

Fabricated Mild or Stainless Steel.

BEARINGS

Sealed-for-life ball type rigged outboard.

SHAFT SEAL

Gland type with PTFE packing.

DRIVE

TEFC geared motor unit side wall mounted to valve body and complete with taper lock sprockets and chain drive all in an enclosed guard.

STANDARD FEATURES

- Maximum number of blades in contact with body at one time without affecting throughput.
- Good throat opening at valve entry allowing high pocket filling efficiency.
- Minimum clearance at rotor tips and sides with body.
- Robust body adequately stiffened to prevent distortion.
- Heavy shaft diameters minimising deflection.
- Outboard bearings for non-contamination.
- Packing gland type seals.
- Maximising valve speed to 25 rpm - prolonging life, ensuring good throughput.
- Precision machining of components.

Rotolok Rotary Valves and Airlocks have ATEX Covered

Following successful completion of the rigorous testing process Rotolok can offer a complete range of Rotary Valves certified as suitable for use as an explosion barrier to a maximum of 10 bar and for explosion isolation for ST1 and ST2 dusts.

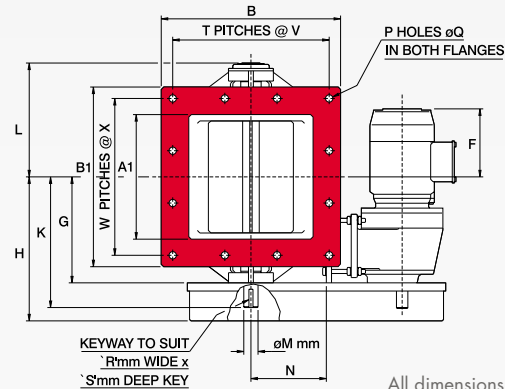
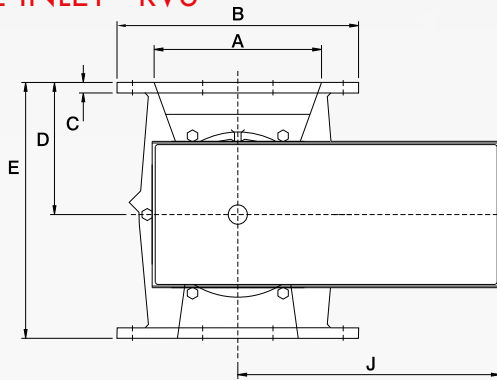
Rotolok also manufacture fabricated Rotary Valves and on/off Quadrant Valves.

OPTIONS

- Quick Release Rotors
- Easy Release on Rails
- USDA Approved
- Direct Coupled Drives
- Air Purge Glands
- Body Vents
- Vent Boxes
- Dropout Boxes
- V.S. Drives
- Speed Switches
- Flameproof Motors
- Shear Plate Deflectors
- Lip Seal Shaft Seals
- Electroless Nickel Plating
- Hard Chrome Internals etc.



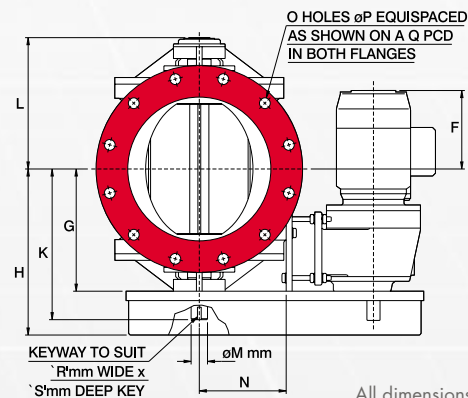
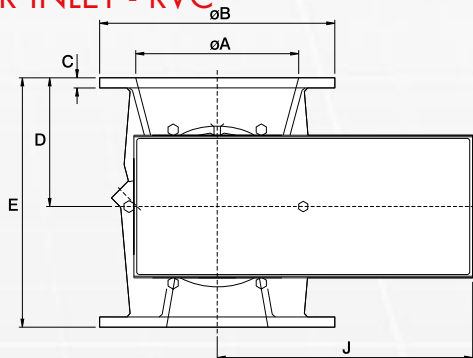
SQUARE INLET - RVS



All dimensions are in millimetres

SIZE	A	A1	B	B1	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	kW	ltr/rev
125	127	127	225	225	12	98.5	197	195	159	232	406	220	195	28	143	8	14	8	7	ON APPLICATION				0.37	1.33
150	152	152	250	250	12	140	280	180	174	247	406	234	195	28	143	12	12	8	7	3	70	3	70	0.37	2.38
200	203	203	300	300	15	165	330	155	199	272	406	259	219	28	143	12	12	8	7	3	90	3	90	0.37	5.96
250	254	254	370	370	15	203	388	200	229	322	478	290	249	35	155	12	18	10	8	3	108	3	128	0.75	12
300	305	305	440	440	19	240	465	170	260	353	478	320	279	35	195	12	18	10	8	3	128	3	128	0.75	21
350	356	356	470	470	19	257	514	160	270	363	512	329	289	35	220	12	12	10	8	3	140	3	140	0.75	31
400	406	406	550	550	20	300	580	115	332	425	626	403	352	50	235	12	18	14	9	3	165	3	165	1.1	49
450	457	457	610	610	20	322	630	85	357	450	626	428	377	50	285	12	18	14	9	3	187	3	187	1.1	70
500	508	508	650	650	20	340	670	120	382	475	700	453	402	50	289	16	18	14	9	4	148	4	148	1.5	97
600	610	610	750	750	20	380	750	115	432	525	700	503	452	50	335	16	18	14	9	4	173	4	173	2.2	168.3
750	750	750	1000	1000	25	500	1000	60	503	643	910	605	522	70	450	24	18	20	12	6	149	6	149	2.2	321.6
915	915	915	1165	1165	25	600	1200	-25	605	748	1000	707	625	70	540	24	22	20	12	6	175	6	175	4.0	546.6

CIRCULAR INLET - RVC



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	W	X	kW	ltr/rev
50	51	152	10	60	120	*	74	ON APPLICATION															0.11	
85	85	190	10	80	160	*	117	ON APPLICATION															0.45	
125	127	240	12	108	214	200	159	232	406	219	178	28	143	8	18	200	8	7	0.37				1.33	
150	154	285	12	140	270	180	174	247	406	234	194	28	143	8	22	241	8	7	0.37				2.38	
200	203	320	13	160	310	155	199	272	406	259	219	28	143	8	18	280	8	7	0.37				5.96	
250	254	370	15	200	380	200	229	322	478	289	248	35	155	8	18	320	10	8	0.75				12	
300	305	440	19	240	465	170	260	353	478	320	279	35	195	12	22	395	10	8	0.75				21	
350	356	533	19	270	520	160	270	363	512	332	289	35	220	12	22	445	10	8	0.75				31	
400	406	540	20	300	580	110	332	425	626	403	352	50	235	12	22	495	14	9	1.1				49	
450	457	635	20	320	625	80	357	450	626	419	377	50	285	16	32	578	14	9	1.1				70	
500	508	700	20	340	670	115	382	475	700	453	402	50	289	20	32	635	14	9	1.5				97	
600	610	813	20	385	760	115	432	525	700	503	452	50	335	20	35	749	14	9	2.2				168.3	
750	762	984	25	500	1000	45	503	646	910	605	522	70	450	28	35	914	20	12	2.2				321.6	

Dimensions are approximate and subject to change without notice.
Standard layouts depicted, consult Rotolok should options and alternatives be required.
Dimensions for alternative arrangements and options should be confirmed prior to planning-in.
(To cover safety aspects ask for our safety leaflets)
Drillings are Rotolok standards. Variations can be made.





DUST COLLECTOR VALVE - RDV

The Dust Collector Valve is designed specifically for lighter duty applications, such as gravity flow or bottom of dust collectors handling light loads and non-abrasive products. These units have direct drive right angle gearboxes, inboard bearings and lip seals; making them very cost competitive.

These dust collector valves have been engineered and designed solely as a low cost solution for applications with pressure differentials of 3 psi or less.

SPECIFICATION

BODIES

Cast Iron Precision Bored

END COVERS

Cast Iron Precision Machined and Spigot Located into Valve Body

ROTOR

Fabricated Mild Steel Closed (Shrouded) Type Fully Machined

BEARINGS

Ball Type Rigged Inboard Sealed for Life

SHAFT SEAL

Shaft Seals Rubber Lip Type

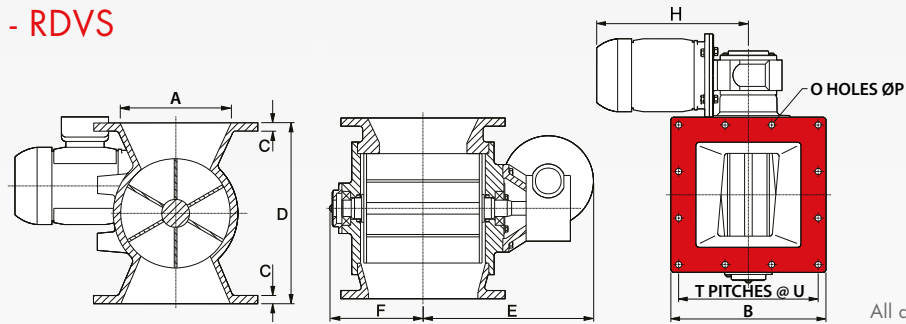
DRIVE

Motorised Worm Box Shaft Mounted on Rotor and Fitted with Standard IEC Motor TEFC 3PH/50Hz Flange Mounted to Worm Box

VALVE SPEED

All sizes 23 RPM with 50Hz supply

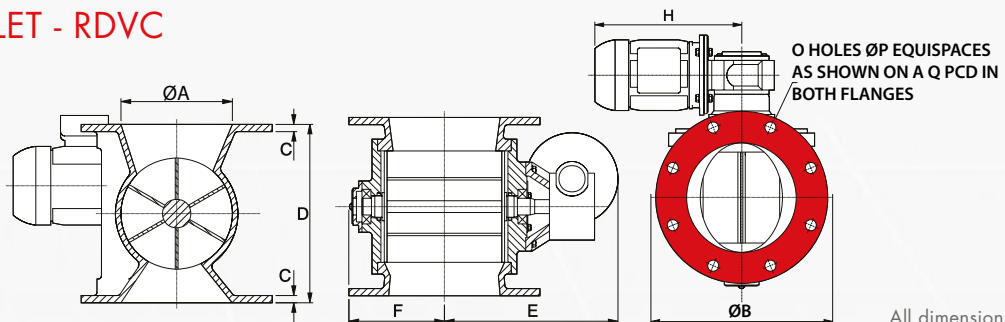
SQUARE INLET - RDVS



All dimensions are in mm

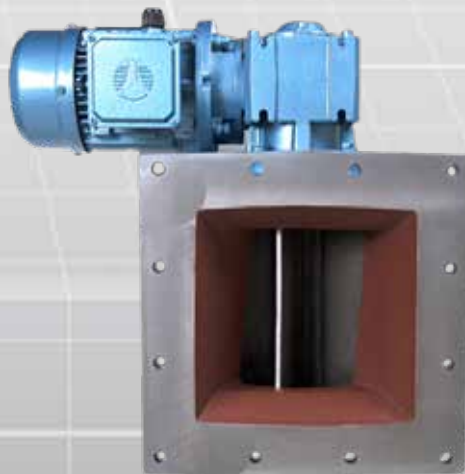
SIZE	A	B	C	D	E	F	H	O	P	T	U	kW	WEIGHT (KG)	ltr/rev
150	152	250	12	280	296	146	356	12	12	3	70	0.31	69	2.36
200	203	300	12	330	320	172	356	12	12	3	90	0.31	83	5.99
250	254	370	18	390	350	204	382	12	18	3	108	0.55	116	12.07
300	305	440	18	465	388	235	382	12	18	3	128	0.55	175	21.41

CIRCULAR INLET - RDVC



All dimensions are in mm

SIZE	A	B	C	D	E	F	H	O	P	Q	kW	WEIGHT (KG)	ltr/rev
150	154	285	12	270	296	146	356	8	22	241	0.31	69	2.36
200	203	320	12	310	320	172	356	8	18	280	0.31	83	5.99
250	254	368	15	380	350	204	382	8	18	320	0.55	116	12.07
300	305	440	19	465	388	235	382	12	22	395	0.55	175	21.41



Dimensions are approximate and subject to change without notice
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HYGIENIC ROTARY KLEANLOK - KL

The prime function of Rotary Valves is to regulate the flow of dust, powder and granular products from one chamber to another whilst maintaining a good airlock.

It is popularly used in pneumatic conveying systems, both vacuum and pressure, together with cyclone and filter applications.

However, the Kleanlok is a more specialist valve. Its modular design makes it an easy-clean valve, aimed specifically at the food, chemical and pharmaceutical industries, where cleanliness, both internally and externally, must be to a high standard.

SPECIFICATION

BODIES

Stainless Steel Precision Machined.

END COVERS

Stainless Steel spigot located in body for concentricity.

ROTOR

Stainless Steel.

BEARINGS

Sealed-for-life ball type rigged outboard.

DRIVE

Direct Drive Coupled.

STANDARD FEATURES

Rotolok manufactures a complete range of Rotary Valves and in the past, for hygienic applications, the standard range has been used, resulting in large costs being incurred to meet the food standards with regards to polishing etc.

The Kleanlok is, by design, a different concept as it has been styled to ensure that all internal and external surfaces can be fully machined, creating smooth surfaces with no lodgement points and minimum 0.8Ra finish. This minimises and simplifies polishing and enables the user to clean or wash the valve quickly and easily.

The drive is normally direct coupled, making the complete assembly more compact and eliminating the need for motor mounting plates and bosses, which significantly complicate the external cleaning operation.

The Kleanlok has a compact and modular design to reduce the time spent on disassembly when cleaning.

All valves of this model have the quick release rotor feature as standard.

RANGE

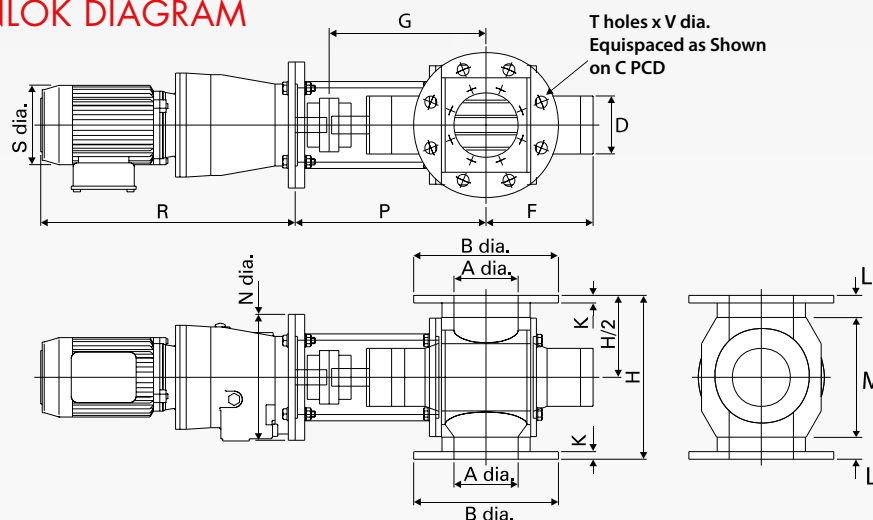
All Kleanloks are constructed from cast stainless steel with stainless steel rotors, to meet hygiene requirements. Standard range sizes, 75mm to 250mm diameter, but this will be extended to suit customer needs.

OPTIONS

- Chain Drive
- Easy release on Rails
- Air Purge Facility
- V.S. Drive
- Non-Quick Release



KLEANLOK DIAGRAM



*All dimensions are in millimetres unless stated otherwise.

On non-Quick Release Models, 38mm should be deducted from 'G' and 'P' dimensions.

Drive arrangement is for our Standard Helical Gear Flange Mounted Unit. Other Mounting Units e.g. Worm Boxes can be accommodated.

Certified drawing available on request.

SIZE	A	B	C	D	F	G	H	K	L	M	N	P	R	S	T	V	kW	ltr/rev
75	76	191	152	92	152	230	210	12	35	140	200	297	420	126	4	19	.37	0.56
100	102	230	190	92	170	249	260	12	35	190	200	303	420	126	8	19	.37	2.26
150	152	280	241	92	195	275	322	12	35	252	200	333	720	126	8	22	.37	6.51
200	203	343	298	92	222	309	395	12	35	325	300	383	461	158	8	22	.75	14.16
250	254	406	362	92	250	338	520	20	50	420	300	411	450	158	12	25	.75	28.32

KLEANLOK - EASY RELEASE

The Kleanlok is a staple of the Rotolok product range and the Easy Release model is a natural extension of it. The Easy Release rail system has already proven itself on our standard Rotary Valves as an effective and simple solution that eases cleaning and maintenance. The Easy Release function is simple and easy to use, so much so that it can be done by a single person reducing the amount of manpower required to perform cleaning.

Once the end cover has been unscrewed from the body it simply slides out on the rails with the Rotor attached. From here it is easy to clean the rotor, rotating it as needed to ensure that all blades and pockets are thoroughly cleaned.

The internals of the body can also be accessed while the rotor has been removed. Then when the internals have been cleaned, all that is left to do is slide the rotor back in and screw the end cover back to the body then normal operation can resume.



Kleanlok with Easy Release Rails

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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OFFSET ROTARY VALVES - RVO

The main function of a Rotary valve is to regulate the flow of materials from one chamber to another while maintaining a good airlock condition. The material or product being handled is usually dry free flowing pellets or granules.

The granule type of product, especially if it is a hard type: plastics; polyethylene; nylon etc., does not shear easily and consequently, without considerable care, the standard drop-through type of valve can seize and also experience considerable shock loadings.

To minimise these problems the Offset Rotary Valve ensures that the rotor is still being filled in an upward cycle with the pellets falling away at the shear point. Similarly, the vee design inlet minimises the quantity of pellets getting caught between the vanes and body at any one time.

SPECIFICATION

BODIES

Cast Iron, Stainless Steel or Aluminium precision bored

END COVERS

Cast Iron, Stainless Steel or Aluminium spigot located in body for concentricity

ROTOR

Fabricated Mild or Stainless Steel

BEARINGS

Generally sealed-for-life-ball type rigged outboard or high temperature above 250°C

SHAFT SEAL

Gland type with PTFE packing

DRIVE

TEFC geared motor unit side wall mounted to valve body and complete with taper lock sprockets chain drive all in an enclosed guard

STANDARD FEATURES

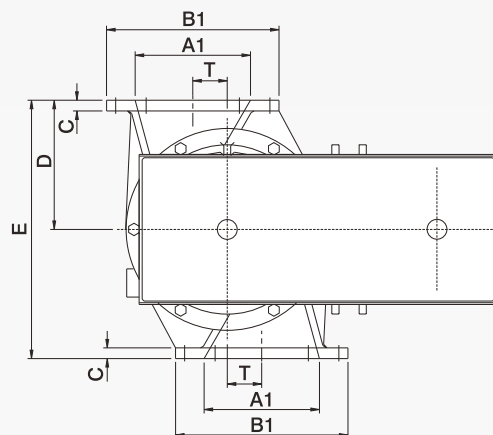
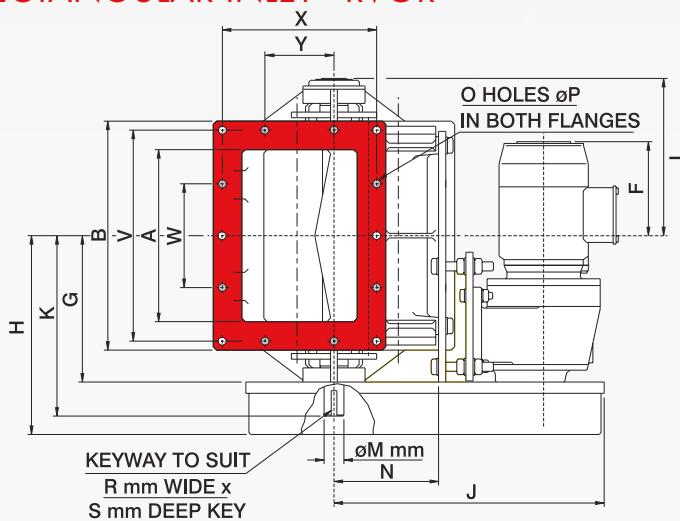
- Maximum number of blades in contact with body at one time without affecting throughput
- Good throat opening at valve entry allowing high pocket fillage efficiency
- Robust body adequately stiffened to prevent distortion
- Heavy shaft diameters minimising deflection
- Outboard bearings for non-contamination
- Packing gland type seals
- Maximising valve speed to 25 RPM prolonging life, ensuring good throughput
- Precision machining of components

OPTIONS

- Body Vents
- Air Purge Glands
- Quick Release Rotors
- Easy Release on Rails
- Direct Coupled Drives
- USDA Approved
- Hard Chrome Internals
- Electro-less Nickel Plating
- Shear Plate Deflectors
- Speed Switch
- Lip Seal Shaft Seals
- Dropout Boxes
- V.S. Drives
- Flameproof Motors
- Vent Boxes etc.



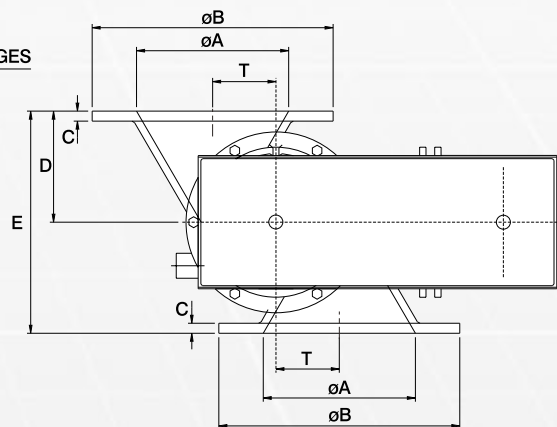
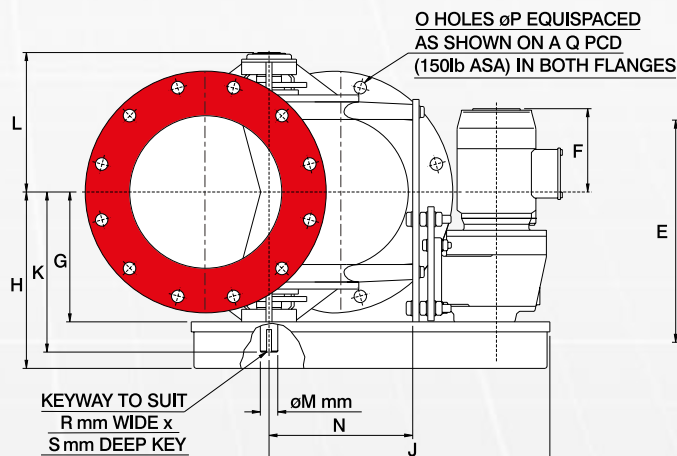
RECTANGULAR INLET - RVOR



All dimensions are in millimetres

SIZE	A	A1	B	B1	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	V	W	X	Y	kW	ltr/rev
200	200	152	305	254	12	165	330	247	199	281	438	260	218	28	133	8	14	8	7	41	273	178	222	127	0.75	5.96
250	254	178	356	280	15	204	408	232	229	311	466	290	248	35	155	8	14	10	8	48	324	152	248	152	0.75	12
300	305	204	406	305	19	229	458	230	260	363	496	320	279	35	185	8	14	10	8	61	374	184	273	165	1.1	21
400	406	254	558	406	22	279	558	155	332	434	626	403	351	50	235	14	19	14	9	86	514	266	362	152	1.1	49
450	458	280	610	432	22	327	654	205	357	459	666	419	376	50	260	14	19	14	9	86	565	280	387	152	1.1	70
500	508	305	660	457	25	356	712	180	382	484	666	453	401	50	285	14	19	14	9	99	616	304	413	152	2.2	97

CIRCULAR INLET - RVOC



All dimensions are in millimetres

SIZE	øA	øB	C	D	E	F	G	H	J	K	L	øM	N	O	øP	øQ	R	S	T	kW	ltr/rev
150	152	279	13	127	254	248	174	256	475	234	194	28	201	8	22	241	8	7	76	0.37	2.38
200	204	343	16	165	330	250	199	301	517	260	218	28	200	8	22	298	8	7	86	0.75	5.96
250	254	406	19	190	380	220	229	311	564	290	249	35	247	12	25	362	10	8	108	0.75	12
300	305	483	20	222	444	227	260	362	626	320	279	35	288	12	25	432	10	8	127	1.1	21
350	356	533	22	266.7	533.4	217	270	372	652	329	289	35	330	12	28	476	10	8	140	1.1	31
500	508	700	25	356	712	180	382	484	747	453	404	50	365	20	32	635	14	9	200	2.2	97

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.





BLOWTHROUGH / BLOWING SEAL - BS

Blowing Seals were introduced to meet the specific needs of the pneumatic conveying industry and are a natural extension to the Rotary Airlock, both being used to regulate the flow of dry powder, dust or granular products while maintaining an airlock.

However the Blowing Seal has distinct advantages for the specialist as it introduces high pressure conveying air through the valve body and rotor pockets ensuring - HIGH EFFICIENCY THROUGHPUT WITH LOW EFFECTIVE PRESSURE DROP.

This is achieved by the fact that more blades are in contact for longer periods with the valve body, resulting in less air leakage and by blowing through the rotor, each rotor pocket is efficiently emptied.

The Rotolok range of Blowing Seals are robustly constructed with an emphasis on close tolerances and minimal eccentricities, making the units suitable for the majority of pneumatic conveying applications.

STANDARD FEATURES

- Maximum number of blades in contact with body at one time without affecting throughput
- Streamlined entry and discharge of conveying air through valve
- Good throat opening at valve entry allowing high pocket filling efficiency
- Compact design minimising headroom
- Minimum clearance at rotor tips and sides with body
- Robust body adequately stiffened to prevent distortion
- Heavy shaft diameters minimising deflection
- Outboard bearings for non-contamination - options for high temperature
- Packing gland type seals with air purging option
- Precision machining of components
- Abrasive duty types

SPECIFICATION

BODY

Cast Iron or Stainless Steel precision machined

END COVERS

Cast Iron or Stainless Steel spigot located in body

ROTOR

Fabricated Mild or Stainless Steel fixed bladed open type

BEARINGS

Ball type sealed for life - alternative high temperature to 400°C

SHAFT SEAL

Gland type with PTFE packing

DRIVE

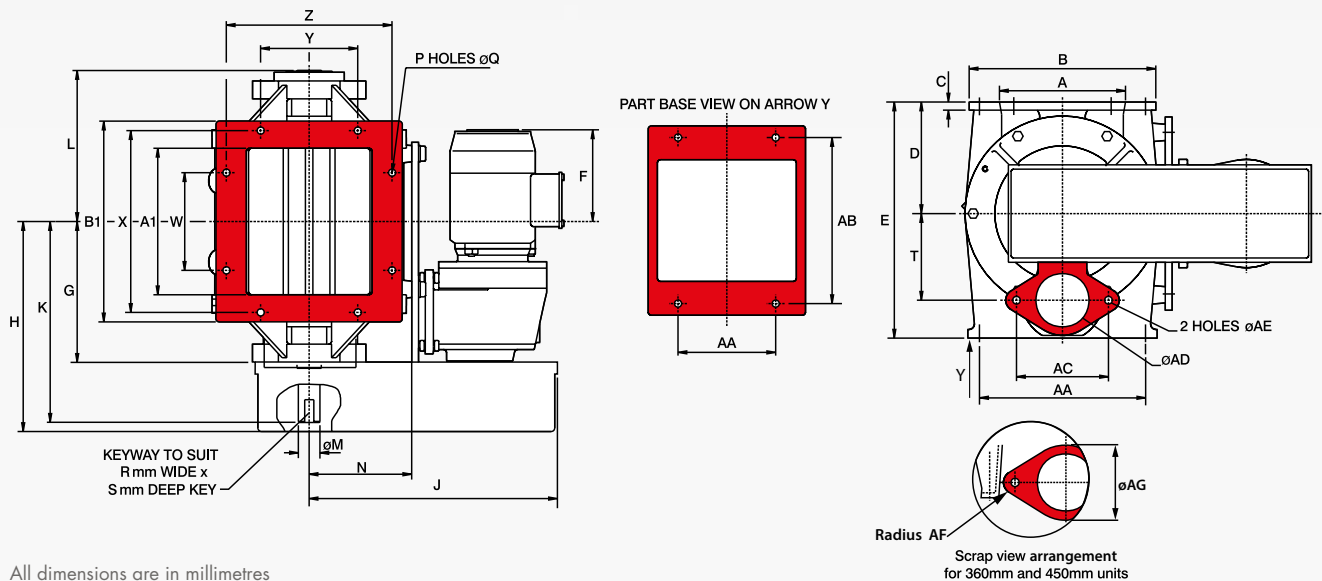
TEFC geared motor unit side wall mounted to valve body and complete with taper lock chain drive in an enclosed guard.

OPTIONS

- Hard Chrome Internals
- Electro-less Nickel Plating
- Shear Plate Deflectors
- Direct Coupled Drives
- Flameproof Motors
- Replaceable Bladed Rotor
- Lip Seal Shaft Seals
- Blowthrough Spigots
- Air Purge Glands
- Speed Switch
- Body Vents
- Vent Boxes
- V.S. Drives



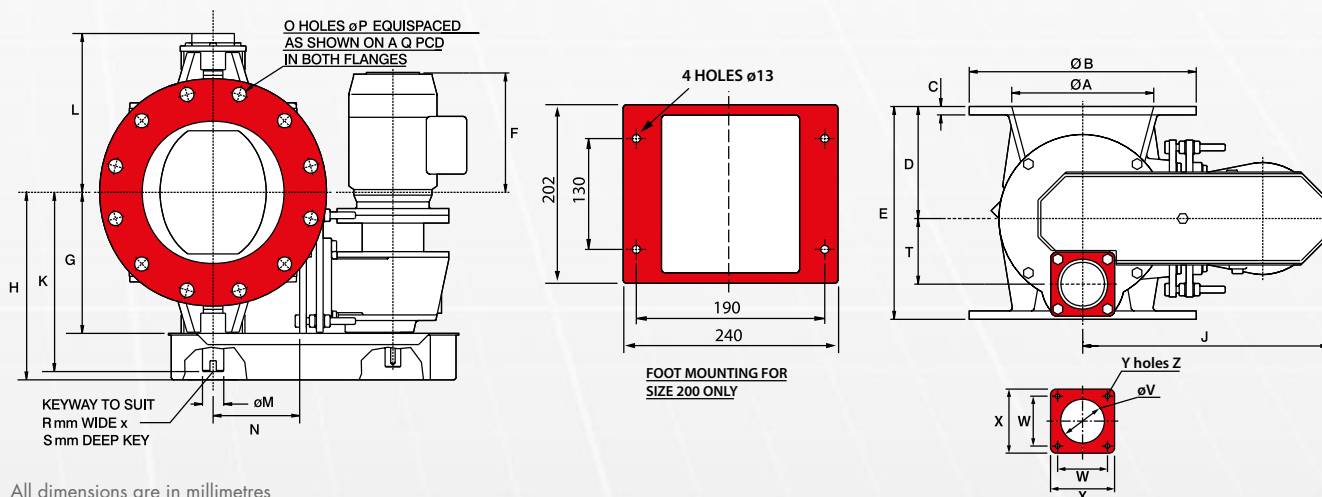
RECTANGULAR INLET - BSS



All dimensions are in millimetres

SIZE	A	A1	B	B1	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	kW	ltr/rev
125	125	125	205	205	12	110	240	240	159	241	320	219	180	28	95	8	10	8	7	80	90	170	90	170	90	125	95	50	11.5	20	78	0.37	1.33
200	200	200	300	300	12	160	340	200	199	281	350	258	218	28	125	8	13	8	7	100	130	270	130	270	130	190	130	75	11.5	20	110	0.37	5.96
240	180	200	280	280	15	180	340	220	225	327	435	287	245	40	165	8	*	12	8	110	130	250	100	250	130	225	110	65	14	20	100	0.75	8
280	225	270	345	370	15	206	436	180	259	361	460	320	278	40	190	8	13	12	8	160	180	335	180	307	180	307	170	98	14	20	130	0.75	15.33
360	255	350	350	450	15	240	466	171	315	427	595	386	335	50	240	10	14	14	9	200	2@150	420	180	320	2@150	320	180	110	14	22	144	1.1	31
450	310	400	410	510	15	290	500	136	350	465	625	421	370	50	270	10	14	14	9	230	2@160	480	220	380	2@160	380	200	125	14	22	154	1.1	70

CIRCULAR INLET - BSC



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	W	X	Y	Z	kW	ltr/rev
150	154	285	12	140	270	225	193	275	365	260	224	30	143	8	22	241	8	7	85	On Application					0.37	2.38
200	203	343	15	160	340	223	199	281	350	259	218	28	125	8	22	298	8	7	100	On Application					0.37	5.96
250	254	406	15	200	380	195	252	347	440	320	284	35	155	12	25	362	10	8	117	78	89	114	4	3/8" UNC	0.75	12
300	305	483	19	240	465	200	282	374	480	350	314	35	195	12	25	432	10	8	142	90.1	104.8	127	4	M10	0.75	21
400	406	597	20	300	580	94	348	484	565	456	398	60	235	16	28	540	18	11	179	128	127	152	4	M10	1.1	49

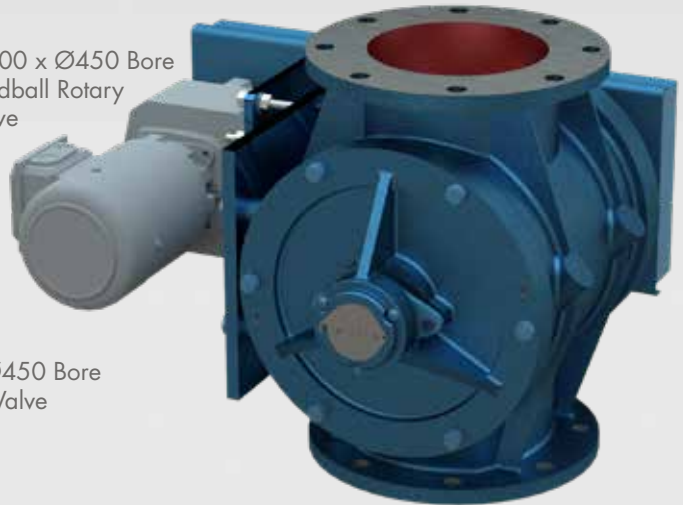
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300 x 580 x Ø450 Bore
Oddball Rotary Valve

Ø200 x Ø450 Bore
Oddball Rotary Valve



ODDBALL ROTARY VALVES - ORV

Oddball Rotary Valves are Rotolok's range of special sized Rotary Valves. However, Rotolok manufactures even more than are listed here, including some round inlets to square outlets and the range is continuously being extended. For our standard size valves please refer to our Rotary Valves/Airlocks page. If you require a special valve that does not appear here please contact our sales office as we may design and manufacture to your requirements.

SPECIFICATION

BODIES

Cast Iron, Stainless Steel or Aluminium precision bored

END COVERS

Cast Iron, Stainless Steel or Aluminium spigot located in body for concentricity

BEARINGS

Generally sealed-for-life-ball type rigged outboard or high temperature type above 250°C

ROTOR

Fabricated Mild or Stainless Steel

SHAFT SEAL

Gland type with PTFE packing

DRIVE

TEFC geared motor unit side wall mounted to valve body and complete with taper lock sprockets chain drive all in an enclosed guard.

STANDARD FEATURES

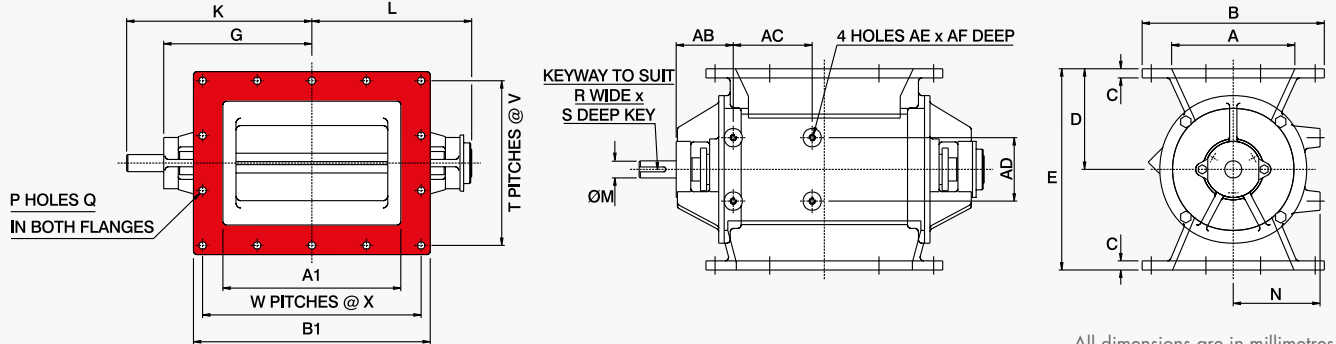
- Maximum number of blades in contact with body at one time without affecting throughput.
- Good throat opening at valve entry allowing for high pocket filling efficiency.
- Minimum clearance at rotor tips and sides with body.
- Robust body adequately stiffened to prevent distortion.
- Heavy shaft diameters minimising deflection.
- Outboard bearings for on-contamination.
- Packing gland type seals.
- Maximising valve speed to 25 RPM prolonging life, ensuring good throughput.
- Precision machining of components.

OPTIONS

- Quick Release Rotors
- Direct Coupled Drives
- Air Purge Glands
- Lip Seal Shaft Seals
- Body Vents
- Dropout Boxes
- V.S. Drives
- Speed Switch
- Flame-proof Motors
- Shear plate Deflectors
- Electroless Nickel Plating
- Hard Chrome Internals etc.



RECTANGULAR INLET - ORVR

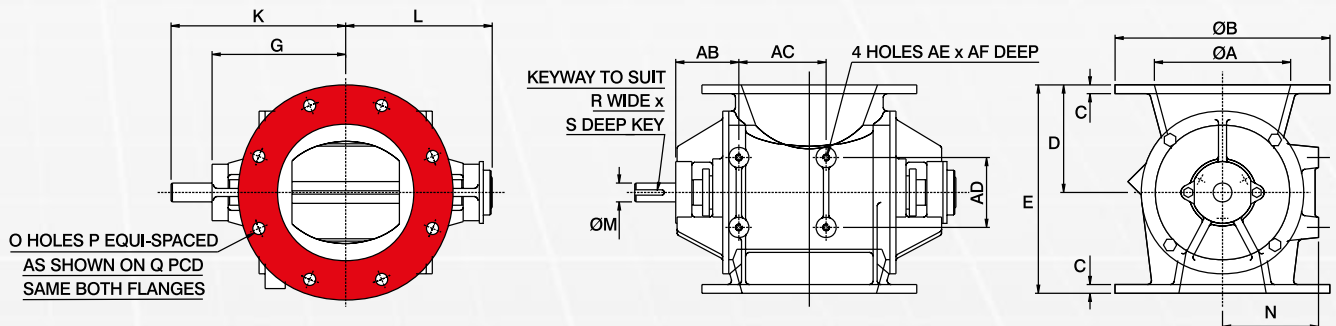


All dimensions are in millimetres

NOMINAL INLET x ØBORE	A	A1	B	B1	C	D	E	G	K	L	M	N	P	Q	R	S	T	V	W	X	AB	AC	AD	AE	AF	ltr/rev	
80 x 300 x 150	80	300	150	330	10	85	170	249	310	268	28	-	6	11	8	7	1	114	2	127	-	-	-	-	-	99	
100 x 100 x 150	102	102	171	171	10	95	190.5	146	196	165	25	87	4	12	8	7	1	146	1	146	101	90	152	M10	20	1.6	
100 x 150 x 200	102	152	164	212	10	121	241	185	246	204	28	126	8	10	8	7	On Application				103	127	102	M10	20	5.4	
230 x 230 x 200	229	229	305	305	10	132	264	219	280	238	28	133	12	12	8	7	On Application				98	127	102	M10	20	6.3	
125 x 250 x 200	127	254	203	312	12	134	267	227	288	246	28	126	12	M8	8	7	On Application				94	110	104	M10	20	7.5	
125 x 300 x 200	127	305	203	363	12	134	267	253	314	272	28	126	12	M8	8	7	On Application				94	110	104	M10	20	8.9	
200 x 460 x 200	200	460	300	560	15	165	330	329	427	348	35	133	16	14	10	8	O/A			4	130	124	152	178	M10	20	16
200 x 600 x 200	200	600	300	700	15	165	330	399	460	418	28	150	16	14	8	7	O/A			4	165	94	130	104	M10	20	15.7
230 x 270 x 280	233	270	330	370	16	205	410	247	321	266	40	185	12	12	12	8	3	93	3	107	122	250	300	M12	20	15.1	
350 x 390 x 300	356	387	470	502	16	225.5	451	305	365	323	35	194	12	14	10	8	On Application				110	152	178	M10	20	27.1	
300 x 1220 x 300	305	1219	419	1372	15	229	457	719	780	738	35	185	28	11	10	8	3	127	O/A		100	152	178	M10	20	62	
250 x 250 x 315	250	250	365	365	14	250	500	263	326	282	40	207	12	14	12	8	3	110	3	110	143	240	290	M16	30	20.7	
250 x 250 x 350	254	254	330	330	13	203	406	267	338	287	50	206	8	11	14	9	2	152	2	152	143	248	203	M10	25	27.2	
250 x 350 x 350	250	350	350	450	12	240	480	270	329	289	35	220	12	13	10	8	3	104	3	140	97	345	145	M12	20	30.8	
300 x 580 x 450	305	578	464	778	25	305	610	429	533	449	50	286	18	18	14	9	3	133	5	143	156	546	330	M16	40	90.3	
460 x 815 x 500	460	815	610	965	18	305	610	526	607	545	50	290	18	18	14	9	3	178	6	152	125	415	140	M16	30	155	

O/A = On Application

CIRCULAR INLET - ORVC



All dimensions are in millimetres

NOMINAL INLETØ x ØBORE	A	B	C	D	E	G	K	L	M	N	O	P	Q	R	S	AB	AC	AD	AE	AF	ltr/rev
12.5 x 19	12.7	89	7	53	106	44	74	55	9.5	-	4	16	60.5	3	3	-	-	-	-	-	0.024
HAR 150 x 170 ASA	150	285	12	130	260	198	250	217	28	110	8	22	240	8	7	125	146	100	M10	18	3.11
150 x 200	152	254	8	124	248	174	235	193	28	127	6	11	222	8	7	94	130	104	M10	20	4.73
175 x 210	175	315	12	160	320	220	270	239	28	130	8	22	270	8	7	125	190	100	M10	18	6.17
200 x 260 ASA	200	340	12	185	370	255	315	274	28	160	8	22	295	8	7	138	234	125	M12	18	11.97
200 x 250	203	320	12	156	311	219	280	238	28	175	8	10	280	8	7	94	250	104	M10	20	11.15
200 x 300	205	343	19	220	465	260	320	279	35	185	8	22	298	10	8	100	320	140	M16	30	21.2
HAR 250 x 310 PN	250	395	15	215	430	280	335	294	32	190	12	18	335	10	8	138	284	125	M10	22	19.96
HAR 250 x 310 ASA	250	406	15	215	430	280	335	294	32	190	12	25	362	10	8	138	284	125	M10	22	19.96
HAR 300 x 380 PN	300	445	16	260	520	330	430	354	50	225	12	22	400	14	9	150	180	125	M12	22	37.66
HAR 350 x 450 PN	350	505	21	305	610	365	425	384	50	270	16	22	460	14	9	155	420	125	M12	22	62.75

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Drillings are Rotolok standards. Variations can be made.





CONVEYING DIVERTER - CDV

The Conveying Diverter consists of a robust body manufactured in two sections, split at the centre flange for ease of access to the internal sealing flap.

With the special cone transition at the inlet, the sealing area within the cone forms a complete parabola and therefore an efficient internal seal can be maintained without resorting to sealing ledges - increasing the conveying line pressure, the rubber wiper seals more effectively.

Internals are clean, with no lodgement points, and the transition from one line into two is gradual, limiting turbulence and therefore pressure drop. Similarly, by the streamline design, the valve will also feed from two lines into one with no lodgement areas, though some applications will need special considerations.

Choice of materials can cater for the majority of applications and by plating the body and internal components the semi-abrasive fields can be covered.

Special demand has necessitated the manufacture of a range of 30° divert angle valves to compliment the traditional ranges of 22 ½° divert angle valves. They are obviously more compact than the 22 ½° range but have a slightly greater pressure drop due to the increased angle.

Further demands of industry have led to the manufacture of two types of connections: Flanged and Spigotted.

SPECIFICATION

BODIES

Cast in Aluminium,
Stainless Steel or Cast Iron

FLAP VALVES AND SPINDLES

Mild Steel or Stainless

WIPER SEALS

Polyurethane or food
quality rubber. Temperature
limit 180°C

SHAFT SEAL

Rubber 'O' ring

ACTUATION

Air Cylinder or Manual
Lever

PNEUMATIC VERSION

Complete with five-port
two-way single solenoid
spring return valve

LIMIT SWITCHES

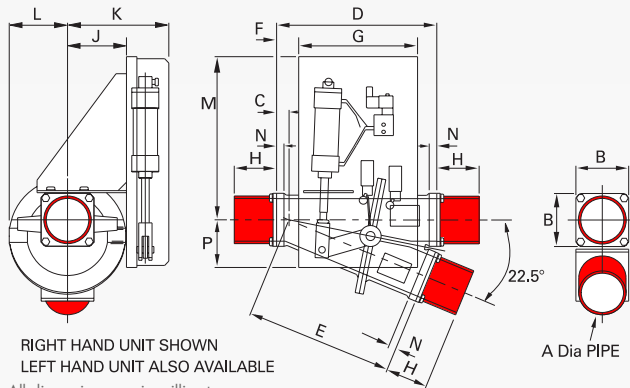
Available to indicate
open/closed conditions.
Pneumatics and switches
housed in guards

STANDARD FEATURES

- Compact design
- Small divert angle
- Low pressure drop
- Smooth internals
- Pneumatic or Manual
- Wide range of materials
- Higher pressure gives greater seal
- Dust tight to 20 p.s.i.
- Easy access and maintenance
- Flanged or Spigotted Ends
- Pneumatics and switches housed in guards.



0° x 22.5° SPIGOTTED CONVEYING DIVERTERS

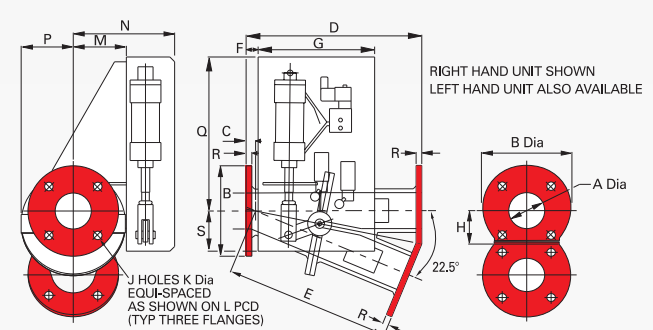


RIGHT HAND UNIT SHOWN
LEFT HAND UNIT ALSO AVAILABLE

All dimensions are in millimetres

SIZE	A PIPE	B	C	D	E	F	G	H	J	K	L	M	N	P
50	2" NB	95	20	279	259	0	250	102	92	194	90	328	19	82
63	2 1/2" NB	102	20	299	279	5	246	102	102	204	100	329	19	81
75	3" NB	114	20	360	340	25	246	102	112	214	110	325	19	85
100	4" NB	127	30	386	356	53	286	102	142	244	140	391	19	114
125	5" NB	152	30	484	454	102	286	102	162	264	160	381	19	124
150	6" NB	197	35	568	533	120	286	102	182	284	180	379	19	126

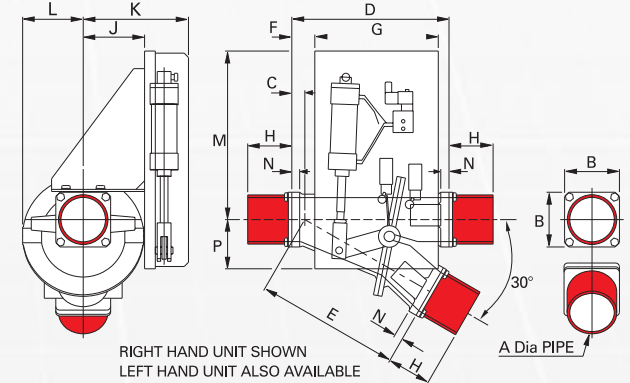
0° x 22.5° FLANGED CONVEYING DIVERTERS



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
25	25	114	4.5	240	235.5	22	189	46	4	14	82 (BSTD)	62	142	60	207	10	94
50	50	152	20	310	290	0	250	58	4	18	114 (BSTD)	92	194	90	328	10	82
63	63.5	178	20	350	330	5	246	65	4	18	127 (BSTD)	102	204	100	329	10	81
75	76	191	20	371	351	25	246	71	4	18	146 (BSTD)	112	214	110	325	12	85
100	102	229	30	444	414	53	286	82	4	18	178 (BSTD)	142	244	140	391	12	114
125	127	254	30	634	604	102	286	120	8	18	210 (BSTD)	162	264	160	381	14	124
150	160	280	35	759	724	120	286	130	8	18	235 (BSTD)	182	284	180	379	16	126
200	204	343	35	902	867	148	276	157	8	18	292 (BSTD)	222	324	223	411	16	131
250	264	406	35	1058	1023	239	316	196	8	22	356 (BSTD)	282	442	285	433	20	177
300	305	483	72	1313	1241	246	366	242	12	22	406 (BSTD)	302	462	300	532	25	203

0° x 30° SPIGOTTED CONVEYING DIVERTERS

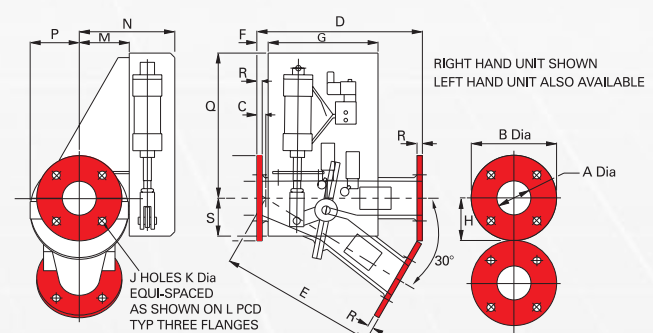


RIGHT HAND UNIT SHOWN
LEFT HAND UNIT ALSO AVAILABLE

All dimensions are in millimetres

SIZE	A PIPE	B	C	D	E	F	G	H	J	K	L	M	N	P
50	2" NB	95	20	257	237	0	250	102	92	194	90	328	19	82
63	2 1/2" NB	102	20	268	248	5	246	102	102	204	100	329	19	81
75	3" NB	114	20	281	261	25	246	102	112	214	110	325	19	85
100	4" NB	127	30	364	334	53	286	102	142	244	140	391	19	114
125	5" NB	152	30	440	410	102	286	102	162	264	160	381	19	124
150	6" NB	197	35	478	443	120	286	102	182	284	180	379	19	126

0° x 30° FLANGED CONVEYING DIVERTERS



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
50	50	152	20	332	311	0	250	76	4	18	114 (BSTD)	92	194	90	328	10	82
63	63.5	178	20	389	368	5	246	89	4	18	127 (BSTD)	102	204	100	329	10	81
75	76	191	0	370	370	25	246	96	4	18	146 (BSTD)	112	214	110	325	12	85
100	102	229	30	546	514	53	286	115	4	18	178 (BSTD)	142	244	140	391	12	114
125	127	254	30	634	600	102	286	127	8	18	210 (BSTD)	162	264	160	381	14	124
150	160	280	35	759	721	120	286	140	8	18	235 (BSTD)	182	284	180	379	16	127
200	204	343	35	902	861	150	273	172	8	18	292 (BSTD)	222	324	223	412	16	130
250	264	406	35	1058	1023	239	316	203	8	22	356 (BSTD)	282	442	280	433	20	177

SPIGOTTED CONNECTIONS

The spigotted ends are connected to pipework with 'Blo-line' type couplings, facilitating quick access for maintenance. 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 fabricated of variable length. This enables the ends to be supplied to fit exactly to existing pipework.

FLANGED CONNECTIONS

Simple and robust, bolt on flanged ends drilled to match international standards for bolted joints.

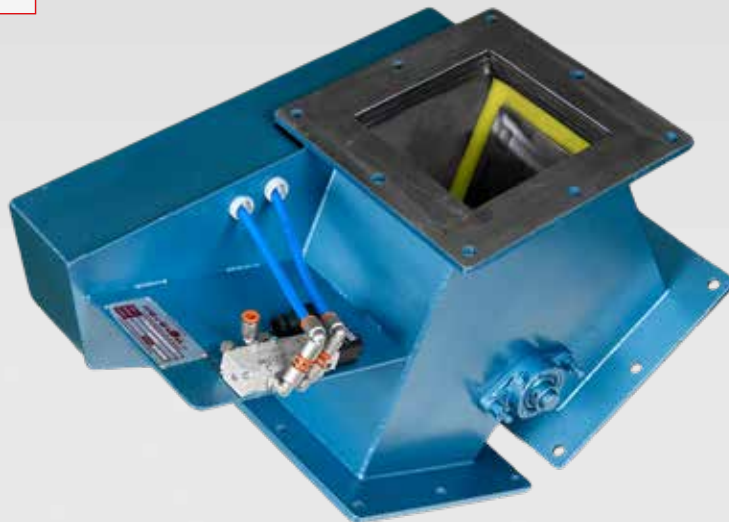
Planning-in detail for general guidance only

(To cover safety aspects ask for our safety leaflets)

Drillings are Rotolok standards. Variations can be made.

Dimensions are approximate and subject to change without notice.





GRAVITY DIVERTER - GD

Gravity Diverter Valves are used in the bulk handling field to re-route powders, pellets or granular materials from one discharge point to a choice of others.

Being of fabricated design Rotolok can accommodate many variations and options relating to divert angles, inlet sizes and form (square, rectangular and circular etc.).

The internal flap is manufactured with two plates sandwiching a polyurethane wiper seal, to ensure there is adequate sealing to the non-operational leg. The whole assembly is mounted on the main spindle which is supported externally by two sealed for life 2-bolt flanged bearings.

The pneumatically operated unit is actuated by an air cylinder complete with solenoid valve and internal piping. Limit switches are also fitted as standard equipment to indicate flap divert position.

The manual version is operated by a smooth action handle with locking facilities and optional limit switches.

All pneumatics and electrical switches are fully enclosed for safety reasons.

RANGE

Manufactured in four basic sizes based on a 30° divert angle. As the units are fabricated, versions can be tailor made to suit specific duties and needs. Divert angles can be changed to suit the application and the product being handled and options on inlet and outlet formats and flanges can be accommodated. With full flexibility around our standard design, Rotolok also manufactures a cast range for heavier duty application. Rotolok produces what you need to suit your application.

SPECIFICATION

BODIES

Fabricated in Mild or Stainless Steel

FLAP PLATES AND SPINDLE

Mild or Stainless Steel

WIPER SEAL

Polyurethane or food quality rubber

ACTUATION

Air cylinder or manual

PNEUMATIC VERSION

Complete with 5 port, two-position single solenoid spring return valve

LIMIT SWITCHES

Fitted to indicate flap divert position

STANDARD FEATURES

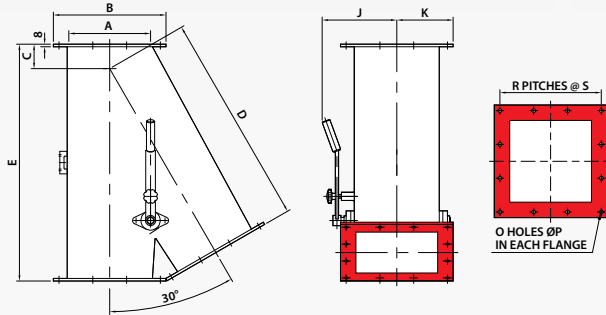
- Divert angle ensures good flow conditions
- Compact rugged design
- Smooth internals with negligible lodgement areas
- Minimal maintenance
- Pneumatic or manual versions
- Good sealing effect

STANDARD FEATURES

- Inspection Door
- High Temperature Bearings
- Flap Shaft Seals
- Bucket Divert Internals



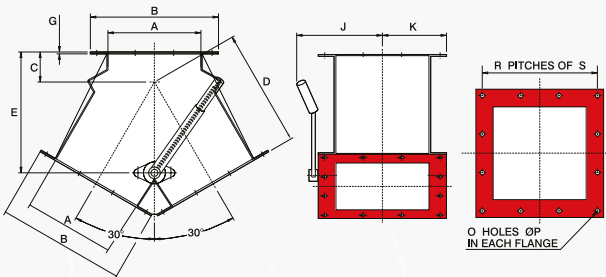
0 x 30 MANUAL SQUARE



All dimensions are in millimetres

SIZE	A	B	C	D	E	J	K	O	P	R	S
150	152	250	70	476	546	182	125	8	12	2	110
200	203	300	76	565	641	208	150	12	12	3	90
250	254	350	76	660	736	232	175	12	12	3	105
300	300	400	76	826	902	56	200	12	12	3	120

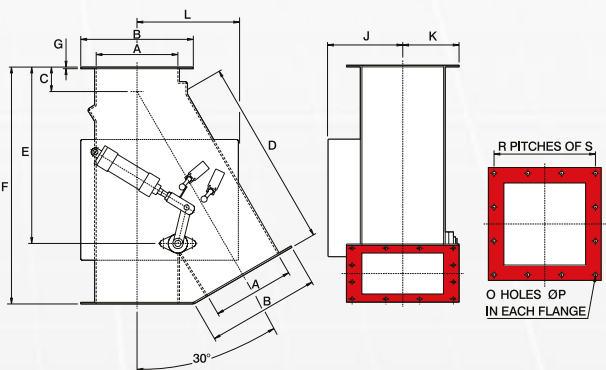
30 x 30 MANUAL SQUARE



All dimensions are in millimetres

SIZE	A	B	C	D	E	G	J	K	O	P	R	S
150	152	250	70	256	243	8	185	125	8	12	2	110
200	203	300	75	288	285	8	210	150	12	12	3	90
250	254	350	82	321	330	8	235	175	12	12	3	105
300	300	400	90	392	404	8	260	200	12	12	3	120
350	350	450	89	432	430	8	290	225	12	12	3	140

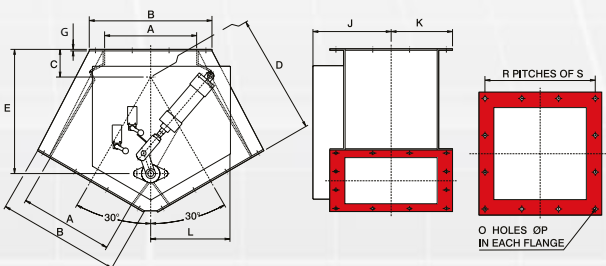
0 x 30 PNEUMATIC SQUARE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	J	K	L	O	P	R	S
150	152	250	70	476	346	546	8	188	125	340	8	12	2	110
200	203	300	76	565	458	641	8	216	150	330	12	12	3	90
250	254	350	76	660	548	736	8	241	175	360	12	12	3	105
300	300	400	76	826	656	902	8	280	200	370	12	12	3	120
350	350	450	108	868	772	976	8	305	225	330	12	12	3	140

30 x 30 PNEUMATIC SQUARE



All dimensions are in millimetres

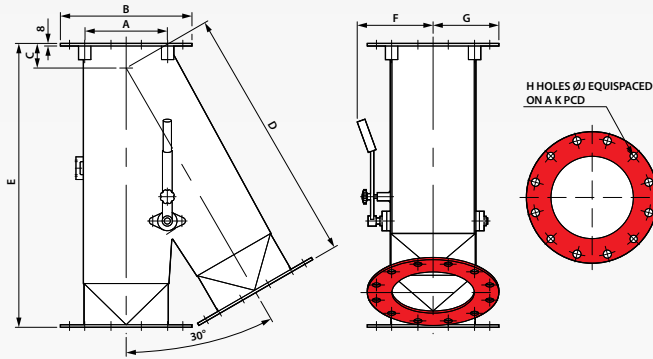
SIZE	A	B	C	D	E	G	J	K	L	O	P	R	S
150	152	250	70	256	243	8	188	125	355	8	12	2	110
200	203	300	75	288	285	8	214	150	315	12	12	3	90
250	254	350	82	321	330	8	241	175	270	12	12	3	105
300	300	400	90	392	404	8	264	200	260	12	12	3	120
350	350	450	89	432	430	8	310	225	300	12	12	3	140
400	400	500	130	500	526	8	335	250	345	16	12	4	115
500	500	600	130	565	605	8	410	305	435	16	12	4	140

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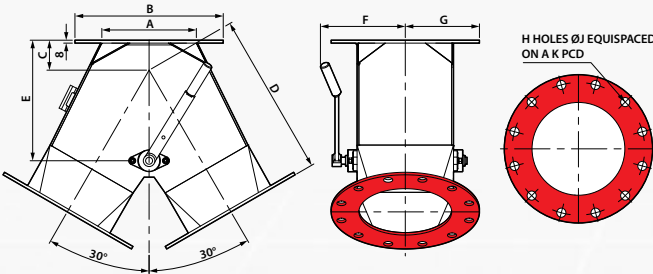
0 x 30 MANUAL ROUND



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K
150	152	179	70	560	630	185	139.5	8	22	241
200	203	343	76	667	743	208	171.5	8	22	298
250	254	406	76	800	876	233	203	12	25	362
300	300	483	76	976	1052	256	241.5	12	25	432
400	400	600	187	1167	1354	304	299	16	25	540

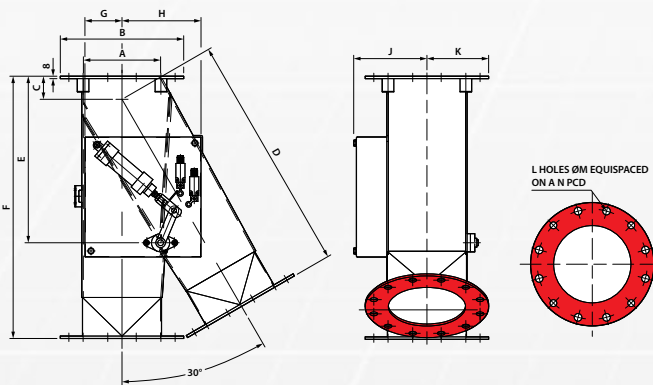
30 x 30 MANUAL ROUND



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K
100	102	229	38	254	172	149.8	114.5	8	19	190.5
150	152	279	70	302	243	185	139.5	8	22	241
200	203	343	75	388	285	206	171.5	8	22	298
250	254	406	82	448	330	233	203	12	25	362
300	300	483	140	555	454	258	241.5	12	25	432

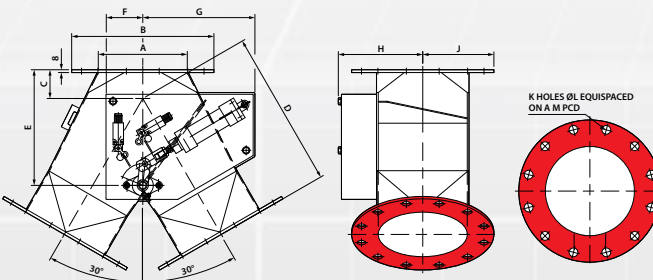
0 x 30 PNEUMATIC ROUND



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N
150	152	179	70	560	346	630	70	340	188	139.5	8	22	241
200	203	343	76	667	458	743	145	325	216	171.5	8	22	298
250	254	406	76	787	548	863	122	260	241	203	12	25	362
300	300	483	76	976	656	1052	145	295	180	241.45	12	25	432
350	350	533	158	1043	822	1201	170	330	305	266.5	12	29	478

30 x 30 PNEUMATIC ROUND

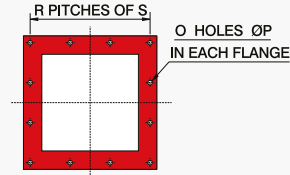
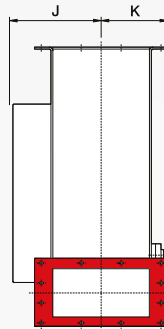
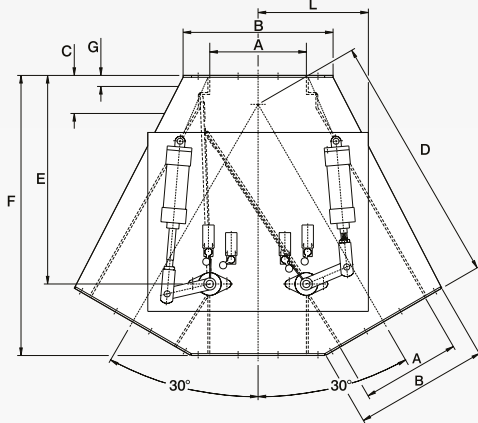


All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M
100	102	229	38	254	172	135	265	173	114.5	8	19	191
150	152	279	70	302	243	105	355	188	139.5	8	22	241
200	203	343	75	388	285	105	315	214	171.5	8	22	298
250	254	406	82	448	330	105	315	241	203	12	25	362
300	300	483	90	542	404	132	253	254	242	12	25	432
350	350	533	97	607	438	170	320	299	266.5	12	29	476



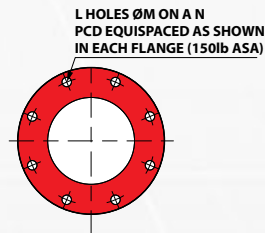
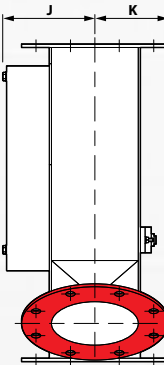
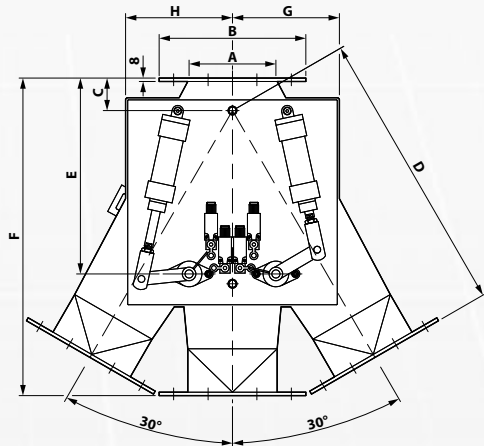
30 x 0 x 30 PNEUMATIC SQUARE



All dimensions are in millimeters

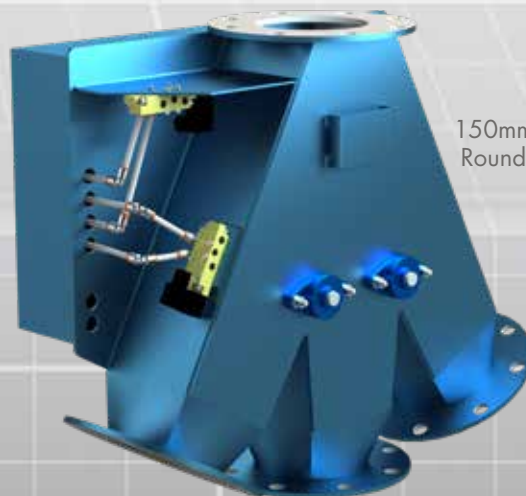
SIZE	A	B	C	D	E	F	G	J	K	L	O	P	R	S
150	152	250	70	476	346	546	8	216	125	355	8	12	2	110
200	203	300	76	565	458	641	8	216	150	250	12	12	3	90
250	254	350	76	665	548	741	8	241	175	290	12	12	3	105
300	300	400	76	826	656	902	8	280	200	405	12	12	3	120

30 x 0 x 30 PNEUMATIC ROUND



All dimensions are in millimeters

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	O
150	152	279	70	560	346	630	355	230	216	139.5	8	22	241	110
200	203	343	76	666.5	458	742.5	203	203	215.5	171.5	8	22	298	120
250	254	406	76	800	548	876	245	245	241	203	12	25	362	130



150mm 30° x 0° x 30°
Round Gravity Diverter

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.





PLUG DIVERTER - PV

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 Valve consists of a rugged cast body which houses a cast plug between a pair of end covers. The material handled passes from one port through the parallel machined bore within the plug to either of the two outlet ports. The outlet port is selected 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 to minimise 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.

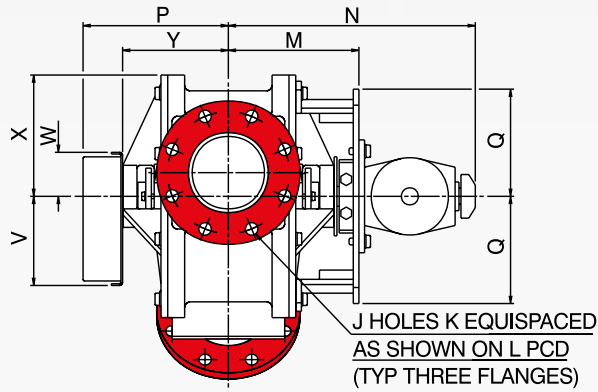
STANDARD FEATURES

- 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 actuation.
- 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

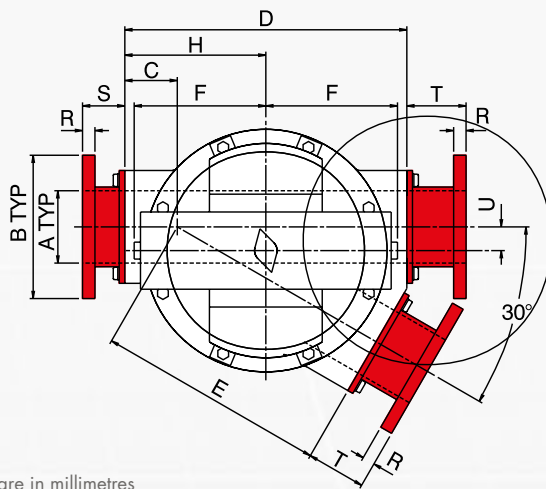
RANGE

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

PLUG DIVERTERS



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



**ALTERNATIVE SPIGOTTED
PIPE CONNECTION**

All dimensions are in millimetres

All dimensions are in millimetres															FLANGED ASA										SPIGOTTED		
SIZE	C	D	E	F	H	M	N	P	Q	U	V	W	X	Y	ØA	ØB	J	ØK	L	R	S	T	A Pipe	Z	S		
50	74	332	258	235	166	192	406	217	113	24.5	158	78	121	147	52	152	4	18	114	10	64	64	2"	85	110		
75	82	390	308	235	195	210	417	236	130	30.5	158	78	150	165	78	184	4	18	146	10	80	80	3"	85	110		
100	85	440	355	235	220	219	426	246	158	36	158	78	180	175	102	216	4	18	178	10	70	105	4"	81	110		
125	93	500	407	235	250	232	438	258	190	42	158	78	215	188	128	254	8	18	210	13	75	105	5"	81	110		
150	94	542	448	235	271	262	470	288	203	47.5	158	78	230	218	154	279	8	18	235	13	76	97	6"	81	110		
200	117	670	553	235	335	292	500	315	253	58.5	158	78	280	245	203	337	8	18	292	13	80	130	8"	81	110		
250	141	800	659	235	400	320	527	571	300	69.5	300	300	330	320	254	406	8	22	356	16	91	141	10"	79	110		

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.

FLANGED CONNECTIONS

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

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.



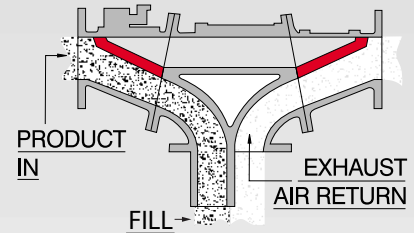


Fig 1

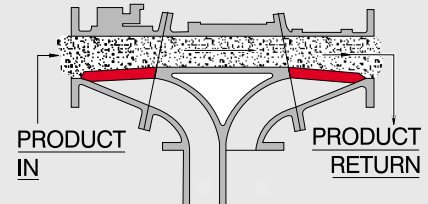


Fig 2

WEIGH VALVE - WV

The Weigh Valve is a natural development from the Rotolok series of Pneumatic Conveying Diverter Valves. It is primarily used in small bulk handling systems whereby a product is pneumatically conveyed to a hopper or bulk bin which is process weighed.

The Rotolok Weigh Valve consists of a robust body manufactured in three sections split at flanges giving direct access to the internal sealing flaps.

By the special design cone transition, the sealing areas within the cones form a complete parabola and therefore an efficient internal seal can be maintained without resorting to ledges, increasing the conveying line pressure, the rubber wiper seals more effectively.

Internals are clean with no lodgement points and the transitional effects are gradual limiting turbulence and, therefore, pressure drop.

Choice of materials can cater for the majority of applications and by plating the body and internal components, semi-abrasive products can be handled.

Further demands of industry have led to the manufacture of two types of connections: flanged and spigotted.

SPECIFICATION

BODIES

Cast Iron, Cast Aluminium or Stainless Steel

FLAP VALVES AND SPINDLES

Mild Steel or Stainless

WIPER SEALS

Polyurethane or food quality rubber.

SHAFT SEAL

Rubber 'O' ring

ACTIONATION

Air Cylinder complete with five-port two-way single solenoid spring

LIMIT SWITCHES

Positioned and actuated to indicate valve condition

STANDARD FEATURES

- Compact design
- Small divert angle
- Low pressure drop - minimal transition effect
- Smooth internals - no lodgement points
- Wide selection of materials
- High sealing efficiencies - with line pressure increasing effectiveness
- Dust tight enclosures to 20p.s.i.
- Simple access and maintenance
- One cylinder direct action operation.

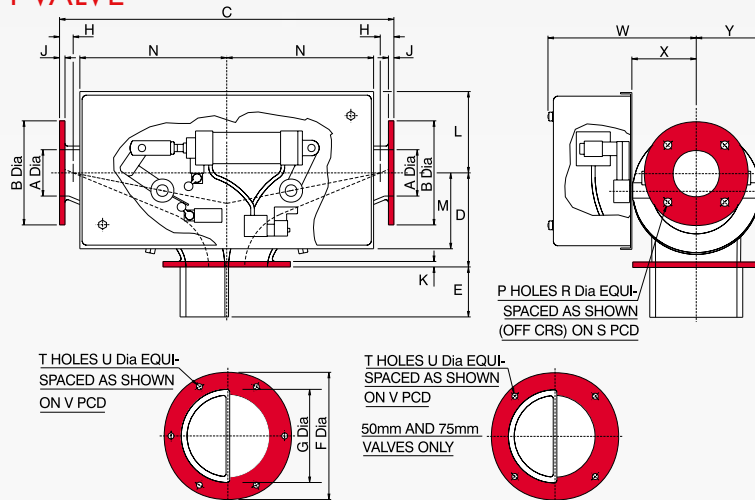
SPIGOTTED CONNECTIONS

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 fabricated of variable length. This enables the ends to be supplied to fit exactly to existing pipework.

FLANGED CONNECTIONS

Simple and robust, bolt on flanged ends drilled to match various international standards for bolted joints

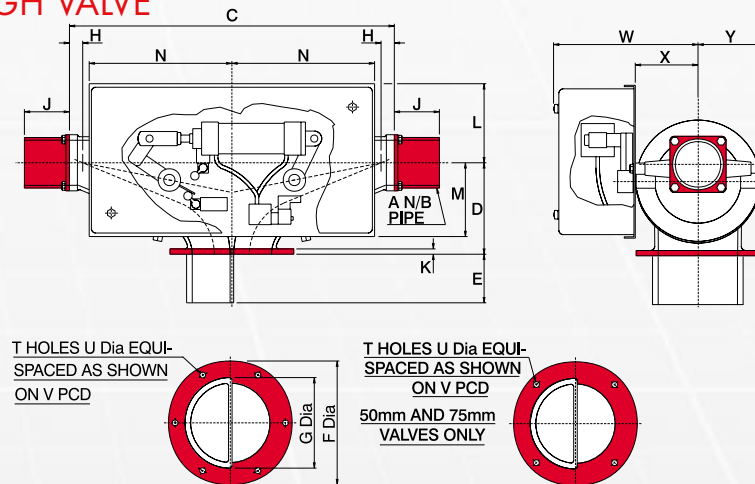
FLANGED WEIGH VALVE



All dimensions are in millimetres

SIZE	ØA	ØB	C	D	E	ØF	ØG	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y
50	50	152	428	143	90	180	110	20	10	10	245	141	196	4	18	114	4	13	145	193	91	90
75	76	191	550	172	100	220	160	20	12	12	276	155	250	4	18	146	6	13	190	214	112	110
100	102	229	736	207	110	280	215	30	12	12	179	167	323	4	18	178	6	13	250	270	142	146
125	127	254	876	251	120	320	237	30	14	10	199	177	348	8	18	210	8	12	290	317	162	160
150	160	280	964	290	150	360	290	35	16	16	216	196	423	8	18	235	8	18	324	339	182	180
200	204	343	1263	380	140	430	350	35	16	16	202	210	477	8	18	292	12	18	394	417	222	223

SPIGOTTED WEIGH VALVE

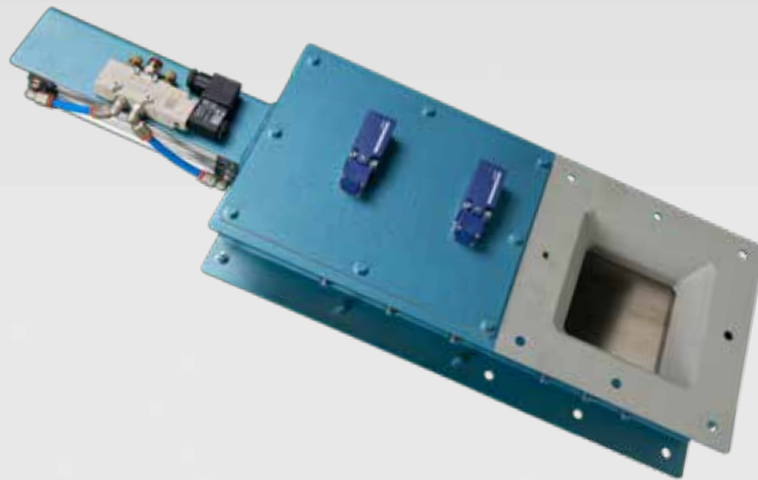


All dimensions are in millimetres

SIZE	ØA	C	D	E	ØF	ØG	H	J	K	L	M	N	T	U	V	W	X	Y
50	2"	428	143	90	180	110	20	102	10	245	141	196	4	13	145	193	91	90
75	3"	550	172	100	220	160	20	102	12	276	155	250	6	13	190	214	112	110
100	4"	736	207	110	280	215	30	102	12	179	167	323	6	13	250	270	142	146
125	5"	876	251	120	320	237	30	102	10	199	177	348	8	13	290	317	162	160
150	6"	964	290	150	360	290	35	102	16	216	196	423	8	18	324	339	182	180

Dimensions are approximate and subject to change without notice
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Drillings are Rotolok standards. Variations can be made.





FABRICATED SLIDE GATE - FS

The Rotolok industrial range of slide valves are simply, but robustly, designed to handle powders, pellets and granules over a wide field of applications. They may be operated manually, or by pneumatic means or electric motors, and offer reliable, continuous service with the minimum of attention and maintenance.

The standard range covers most needs, but the basic designs are capable of fabrication to any specified sizes and construction.

Wide standard range of manual, motorised, pneumatic versions, suitable for all usual powder handling applications.

With our standard sizes ranging between 150mm and 420mm, we are able to fabricate slide valves to suit your application. We can also fabricate special sizes if requested.

SPECIFICATION

BODY

Mild or Stainless Steel from 3mm plate

SLIDE PLATES

Mild or Stainless Steel

HAND WHEEL AND CHAIN WHEEL

Rack and Pinion

SOLENOID VALVES

Five port two way single solenoid spring return

LIMIT SWITCHES

Micro Switches to IP55

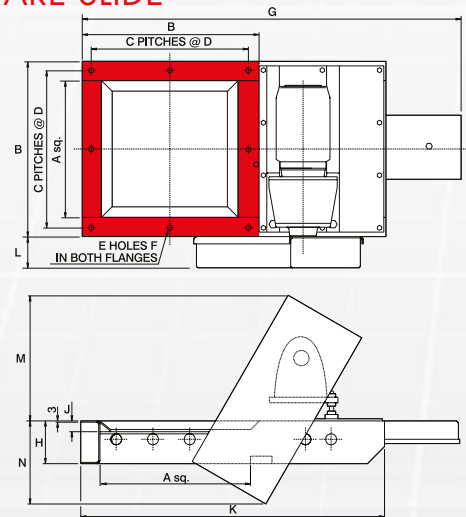
MOTORS

1/8hp TEFC Motor with torque limiter to prevent overload

ROLLERS

Flanged MS oilite bushes or Nylon

MOTORISED RACK AND PINION SQUARE SLIDE



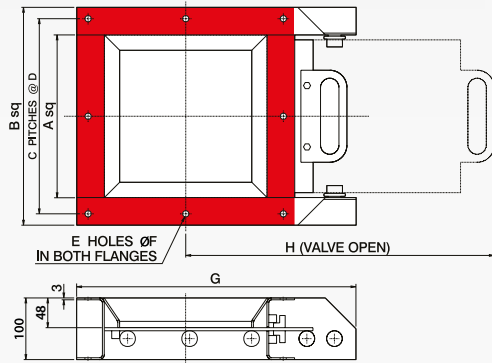
All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N
300	305	440	3	128	8	18	880	100	25	704	82	285	197

STANDARD FEATURES

- No jamming. All slide plates run on flanged rollers.
- Minimal leakage. All valves (except enclosed valves) fitted with packing gland type seals.
- Streamlined design means unrestricted material flow.
- Available in a variety of styles to suit the application with options of manual, pneumatic or motorised operation.

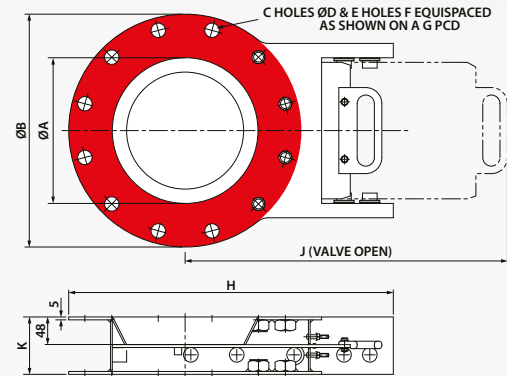
MANUAL SQUARE SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H
150	150	240	2	100	8	10	348	330
165	165	255	2	108	8	10	363	353
200	206	293	2	125	8	10	400	405
215	215	305	2	133	8	10	413	428
250	254	344	2	149	8	12	440	488
265	265	355	2	159	8	10	455	503
300	300	390	4	87	16	12	485	595
320	320	410	4	92	16	12	518	585
350	350	440	4	100	16	12	535	630
370	370	460	4	105	16	12	568	660
400	400	490	4	113	16	12	600	706
420	420	510	3	156	12	18	617	742

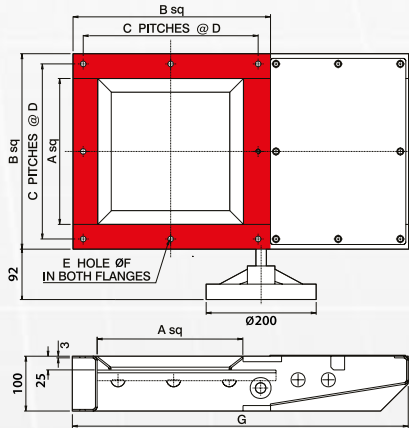
MANUAL CIRCULAR SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K
125	127	240	6	19	2	M16	190	410	268	100
150	152	280	6	22	2	M20	241	440	399	100
200	203	343	8	22	4	M20	298	481.5	468	100
250	254	406	8	25	4	M20	362	566	562	100
300	305	483	8	25	4	M20	431	668.5	727	125
350	356	533	8	28	4	M24	476	746.5	831	125
400	406	597	10	28	6	M24	540	836.5	939	125

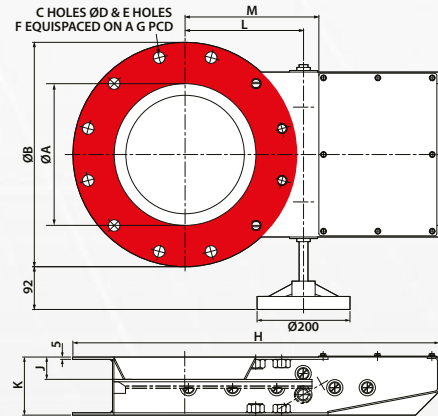
RACK AND PINION SQUARE SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G
165	165	255	2	108	8	10	406
200	203	293	2	125	8	10	477
215	215	305	2	133	8	10	501
250	254	344	2	149	8	10	580
265	265	355	2	159	8	10	610
300	300	390	4	87	16	12	671
320	320	410	4	92	16	12	711
350	350	440	4	100	16	12	765
370	370	460	4	105	16	12	820
400	400	490	4	113	16	12	865
420	420	510	4	118	16	12	915

RACK AND PINION CIRCULAR SLIDE



All dimensions are in millimetres

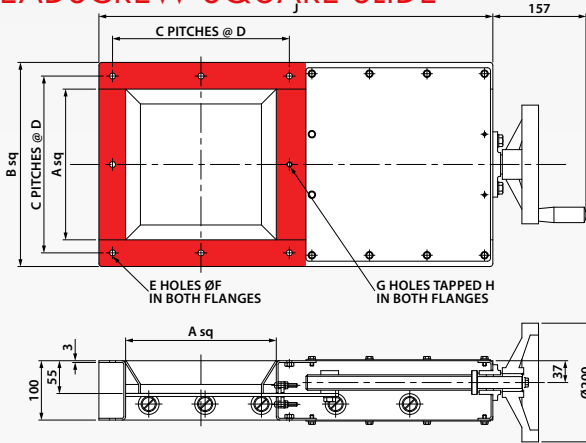
SIZE	A	B	C	D	E	F	G	H	J	K	L	M
150	154	285	8	22	2	M20	241	435	25	100	109	147
200	203	343	8	22	2	M20	298	495	25	100	134	175
250	254	406	6	25	2	M20	362	607	25	100	159	206
300	305	483	8	25	4	M20	432	789	48	125	255	288
350	356	533	8	28	4	M24	476	872	48	125	260	336
400	406	597	12	28	4	M24	540	984	48	125	290	360

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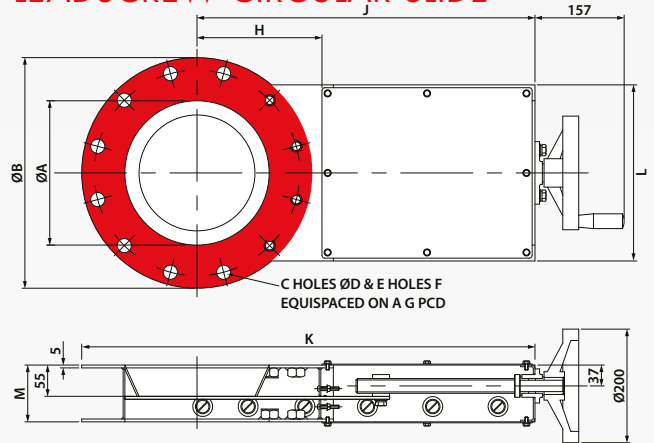
LEADSCREW SQUARE SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J
150	152	242	2	100	7	10	1	M8	464
165	165	255	2	108	7	10	1	M8	490
200	203	293	2	125	7	10	1	M8	578
250	254	344	2	149	7	10	1	M8	664
265	265	355	2	159	7	10	1	M8	688
300	300	390	4	86	13	12	3	M10	760
320	320	410	4	92	13	12	3	M10	800
350	356	470	3	140	10	12	2	M10	892
400	400	490	4	113	13	12	3	M10	951
420	420	510	4	118	13	12	2	M10	1005

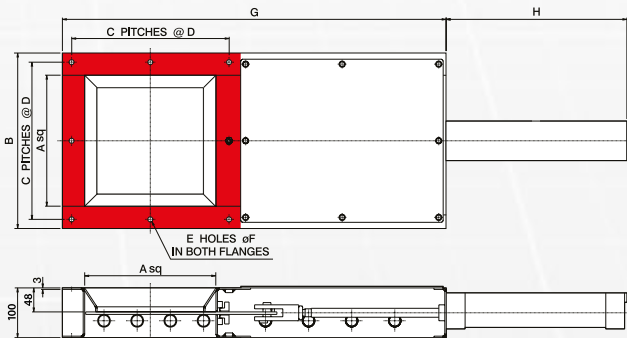
LEADSCREW CIRCULAR SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M
150	152	285	6	22	2	M20	241	156	397	538.5	222	100
200	203	343	8	23	2	M20	298	180.5	507	667	253	100
250	254	406	8	25	4	M20	362	220	595	798	310	100
300	305	483	8	25	4	M20	342	275	705	945.5	355	125
350	356	533	8	28	4	M24	476	325	799	1065.5	410	125
400	406	597	10	28	6	M24	540	367	868	1166.5	456	125

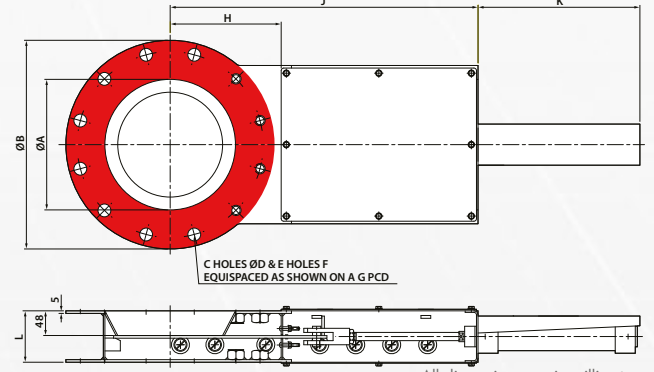
SINGLE PNEUMATIC SQUARE SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H
150	152	242	2	100	8	10	530	240
165	165	255	2	108	8	10	543	240
200	203	293	2	125	8	10	610	265
215	215	305	2	133	8	10	668	315
250	254	344	2	149	8	10	707	315
265	265	355	2	159	8	10	775	365
300	300	390	4	86	16	12	802	380
320	320	410	4	92	16	12	873	430
350	350	440	4	100	16	12	897	450
370	370	460	4	105	16	12	931	450
400	400	490	4	113	16	12	997	480
420	420	510	4	118	16	12	1072	530

SINGLE PNEUMATIC CIRCULAR SLIDE



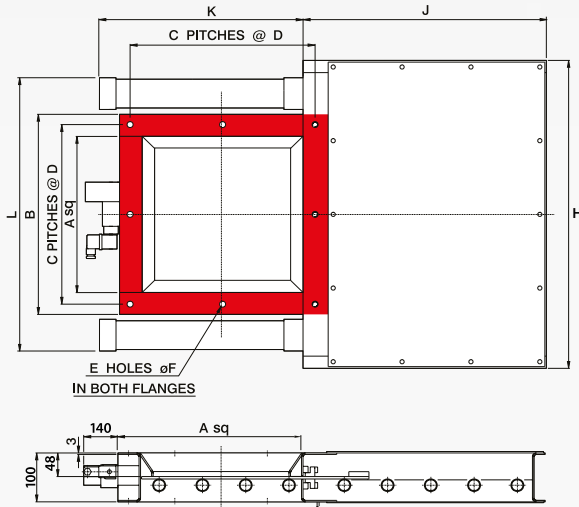
All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L
100	102	229	8	19	2	M16	190	120	343	195	100
150	152	285	6	22	2	M20	241	156	457	240	100
200	203	343	6	22	2	M20	298	180	505	265	100
250	254	406	8	25	4	M20	362	216	599	315	100
300	305	483	8	25	4	M20	432	280	700	380	125
350	356	533	8	28	4	M24	476	325	830	450	125
400	406	597	10	28	6	M24	540	359	905	485	125

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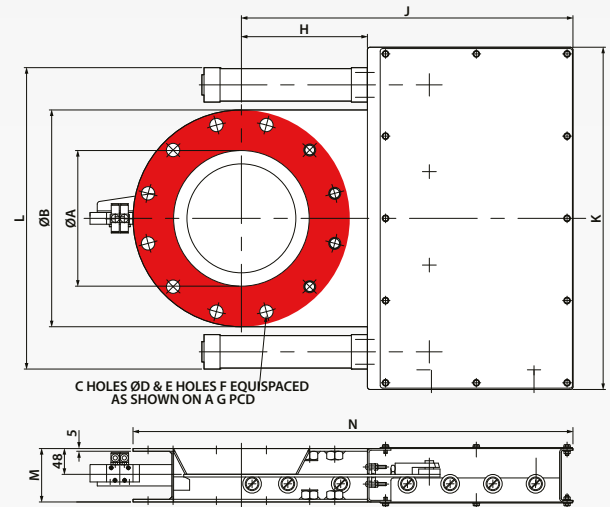
DOUBLE PNEUMATIC SQUARE SLIDE



All dimensions are in millimetres

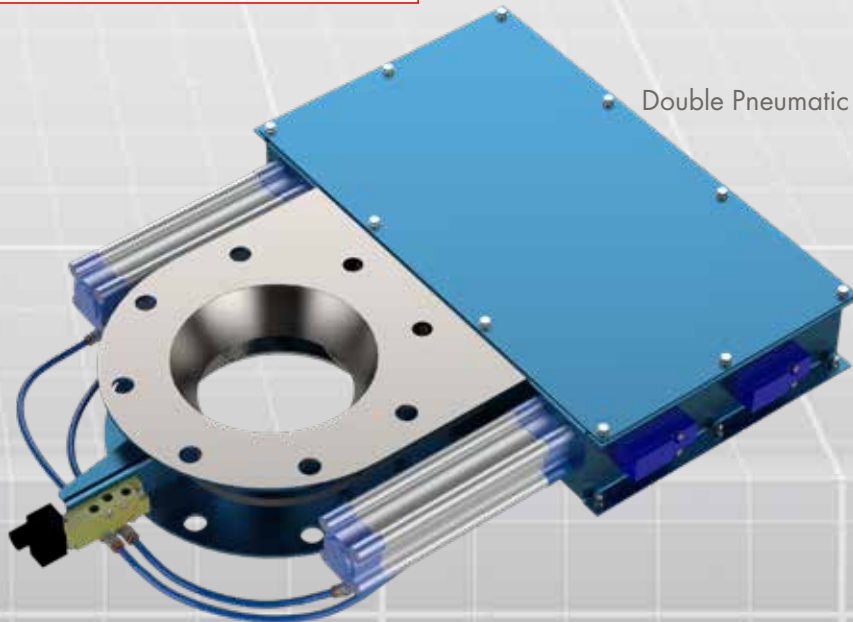
SIZE	A	B	C	D	E	F	H	J	K	L
150	150	240	2	100	8	10	460	310	235	390
165	165	255	2	108	8	10	461	305	235	405
200	203	293	2	125	8	10	525	335	260	450
215	215	305	2	133	8	10	516	382	310	440
250	254	344	2	149	8	10	570	382	310	494
265	265	355	2	159	8	10	570	435	340	495
300	300	390	4	87	16	12	611	432	360	540
320	320	410	4	92	16	12	631	484	410	560
350	350	440	4	100	16	12	667	504	430	596
370	370	460	4	105	16	12	686	502	430	610
400	400	490	4	113	16	12	721	532	460	640
420	420	510	4	118	16	12	735	582	510	660

DOUBLE PNEUMATIC CIRCULAR SLIDE



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N
150	150	279	6	22	2	M20	241	155	470	510	435	100	610
200	203	343	8	22	2	M20	298	176.5	510.5	569	493	100	682
250	254	406	8	25	4	M20	362	236	621	641	564.5	100	824
300	305	483	8	25	4	M20	432	272	704	709	633	125	945.5



Double Pneumatic Circular Slide Valve

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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CAST SLIM SLIDE - SS

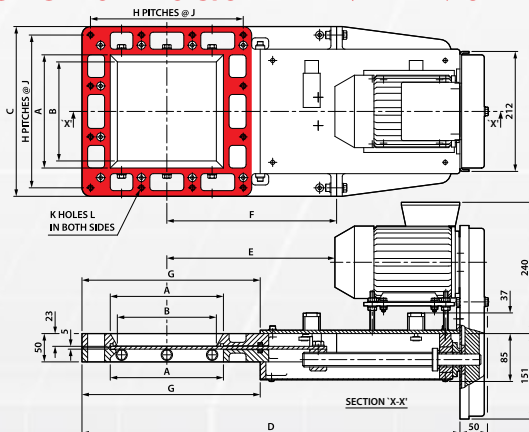
Rotolok Slim-Slides are used when isolating the flow of dry free flowing products such as powder, granules and dust. Designed for use on various types of gravity feed applications, e.g. silos, hoppers, screw conveyors etc. where non-automatic operation is required.

This cost effective valve is available with square or circular inlets measuring between 125mm to 350mm, with options available for lead screw, single pneumatic, motorised or manual operation.

STANDARD FEATURES

- A compact design
- No lodgement points
- Dust tight to atmosphere on in-line applications
- Stainless steel slide plate
- Aluminium body
- Nylon support studs
- Dust seals
- Available in Square and Circular inlets
- Manual, Single Pneumatic, Motorised or Lead Screw operation

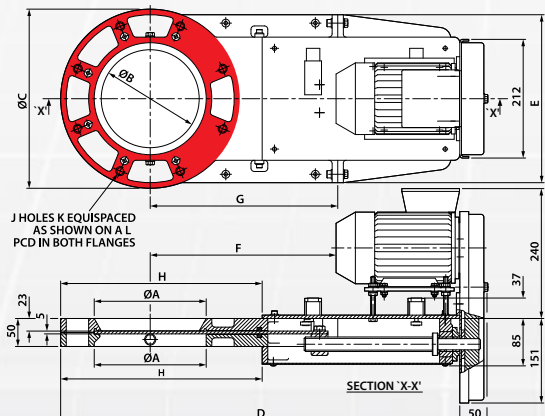
MOTORISED SQUARE INLET LMS



SIZE	A	B	C	D	E	F	G	H	J	K	L
150	150	125	250	558	205	235	270	3	70	12	M10
200	200	175	300	668	290	300	315	3	90	12	M10
250	250	225	338	746	350	279	358	3	101.5	12	M12
300	300	275	400	858	430	310	420	3	119	12	M10
350	350	325	458	953	495	339	478	3	140	12	M12

Drive Spec: 0.37kW D71 foot mounted TEFC motor 1500 RPM
Supply 240/400/3/50HZ complete with 'V' belt drive in an enclosed guard

MOTORISED CIRCULAR INLET LMC



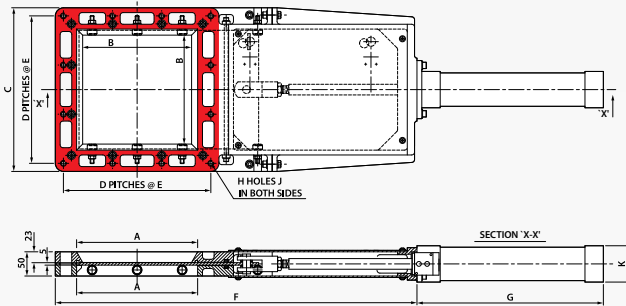
SIZE	A	B	C	D	E	F	G	H	J	K	L
125	125	100	240	524	215	175	233	263	8	M16	200
150	150	125	285	599	250	230	258	311	8	M16	241
200	200	175	320	713	300	325	335	360	8	M16	280
250	250	225	370	841	338	430	358	453	8	M16	230
300	300	275	440	976	400	530	408	538	12	M20	395
350	350	325	533	1110	458	615	458	634	12	M20	445

All dimensions are in millimetres

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.



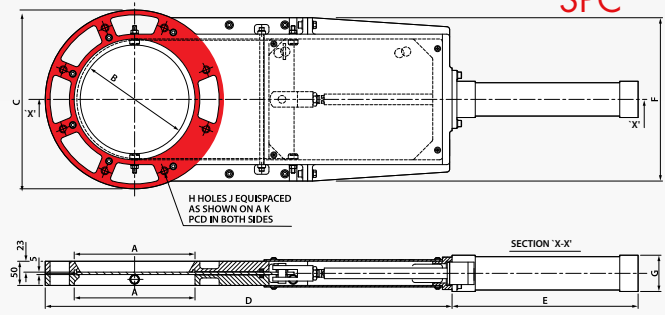
SINGLE PNEUMATIC SQUARE INLET SPS



SIZE	A	B	C	D	E	F	G	H	J	K
150	150	125	250	3	70	559	270	67	12	M10
200	200	175	300	3	90	656	320	67	12	M12
250	250	225	338	3	101.5	747	385	75	12	M12
300	300	275	400	3	119	859	435	75	12	M10
350	350	325	458	3	140	967	485	75	12	M12

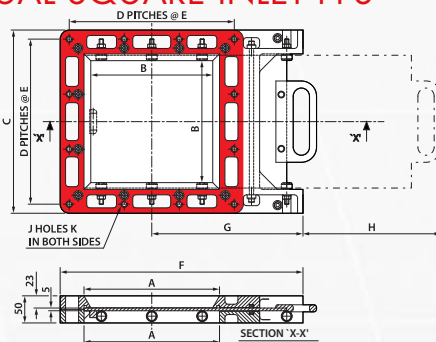
All dimensions are in millimetres

SINGLE PNEUMATIC CIRCULAR INLET SPC



SIZE	A	B	C	D	E	F	G	H	J	K
125	125	100	240	547	245	215	67	8	M16	200
150	150	125	285	600	270	250	67	8	M16	241
200	200	175	350	701	320	300	67	8	M16	280
250	250	225	370	842	385	338	75	8	M16	320
300	300	275	440	977	435	400	75	12	M20	395
350	350	325	535	1124	485	458	75	12	M20	445

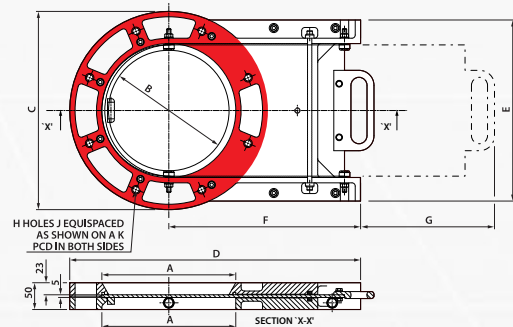
MANUAL SQUARE INLET PPS



SIZE	A	B	C	D	E	F	G	H	J	K
150	150	125	250	3	70	360	235	175	12	M10
200	200	175	300	3	90	450	300	175	12	M10
250	250	225	338	3	101.5	448	279	255	12	M12
300	300	275	400	3	119	510	310	305	12	M10
350	350	325	458	3	140	568	339	355	12	M12

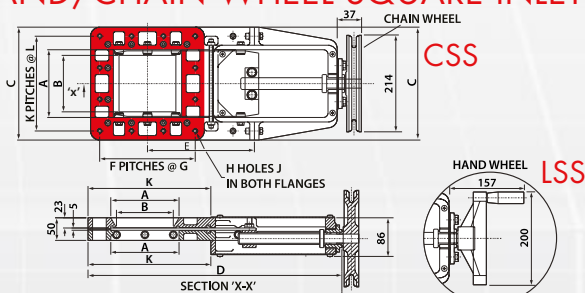
All dimensions are in millimetres

MANUAL CIRCULAR INLET PPC



SIZE	A	B	C	D	E	F	G	H	J	K
125	125	100	240	353	215	233	127	8	M16	200
150	150	125	285	100	250	258	160	8	M16	241
200	200	175	230	495	300	335	173	8	M16	280
250	250	225	370	543	338	358	253	8	M16	320
300	300	275	440	628	400	408	303	12	M20	395
350	350	325	533	725	458	458	350	12	M20	445

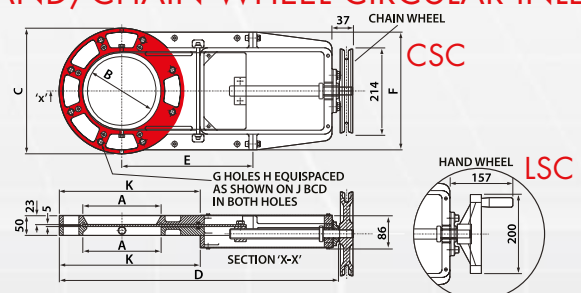
HAND/CHAIN WHEEL SQUARE INLET



SIZE	A	B	C	D	E	F	G	H	J	K
150	150	125	250	558	235	3	70	12	M10	270
200	200	175	300	668	300	3	90	12	M10	315
250	250	225	338	746	279	3	101.5	12	M12	358
300	300	275	400	858	310	3	119	12	M10	420
350	350	325	458	935	339	3	140	12	M12	478

All dimensions are in millimetres

HAND/CHAIN WHEEL CIRCULAR INLET



SIZE	A	B	C	D	E	F	G	H	J	K
125	125	100	240	524	233	215	8	M16	200	263
150	150	125	286	599	258	250	8	M16	241	311
200	200	175	320	713	335	300	8	M16	280	360
250	250	225	370	841	358	338	8	M16	320	453
300	300	275	440	976	408	400	12	M20	395	538
350	350	325	533	1110	428	428	12	M20	445	634

Dimensions are approximate and subject to change without notice
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Drillings are Rotolok standards. Variations can be made.



CAST ROTOSLIDE - RS

Slide Valves are used for controlling the flow of powders, pellets and granules from the inlets or outlets of equipment.

Rotolok have been making an extensive range of fabricated units to suit the general industrial fields and the Rotoslide, manufactured in cast aluminium with stainless steel trim, specifically caters for the food and chemical industries.

Manufactured in five basic sizes: 150, 200, 250, 300 and 350mm of circular inlet design and with either manual or pneumatic actuation.

Rotolok's Rotoslide has a different concept than the majority of slide valves on the market, in as much that it is totally enclosed and, whether it is hand or pneumatically operated, the basic principal of using a pivot holds the slide plate in a positive fixed position, while the slide extremity is supported by nylon studs on stainless steel pins.

It has been designed to address the health and safety requirements for fugitive emissions with the slide plate always being enveloped, enclosed and dust tight to the surrounding environment.

SPECIFICATION

BODY

LM25 Cast Aluminium

SLIDE PLATE

Stainless Steel

SLIDE PLATE SUPPORT

Nylon studs supported by Stainless Steel screws

HAND OPERATED

Positive easy action handle

PNEUMATIC VERSION

One double acting cylinder rear clevis mounted

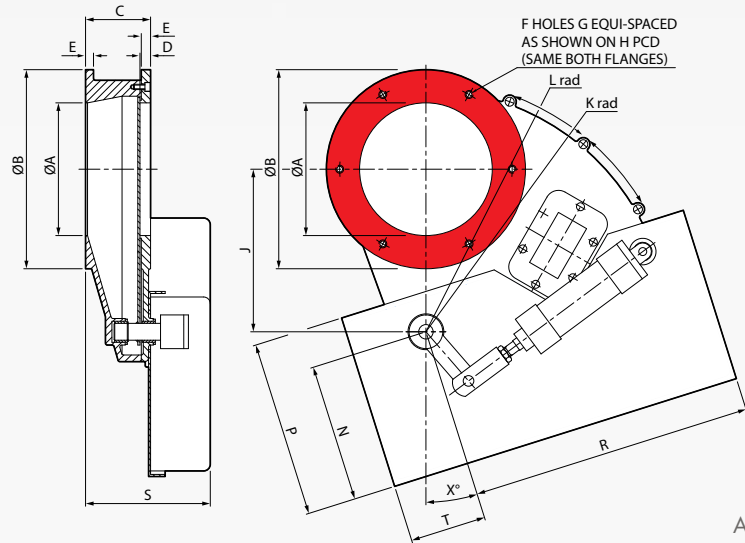
SOLENOID VALVE (PNEUMATIC ONLY)

2 position 5 port single solenoid spring return

LIMIT SWITCHES

Mounted to indicate open/closed position.
Optional on manual version

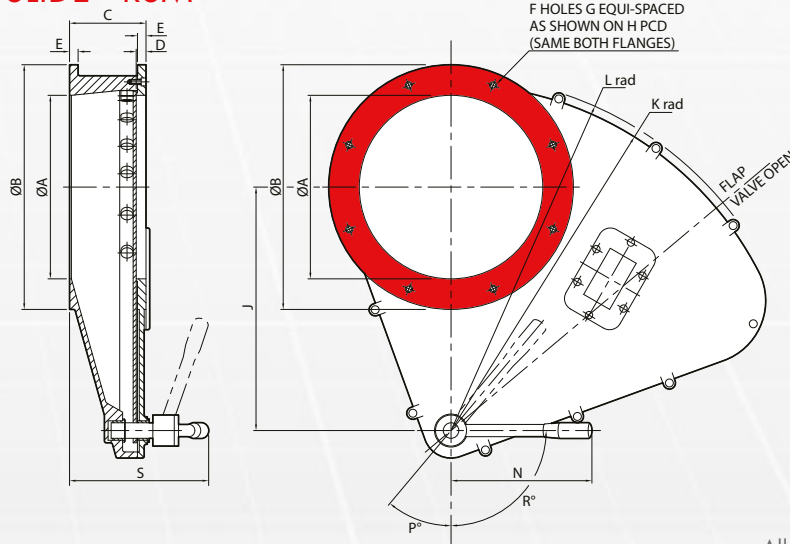
PNEUMATIC ROTOSLIDE - RSP



All dimensions are in millimetres

SIZES	A	B	C	D	E	F	G	H	J	K	L	N	P	R	S	T	X°
150	150	230	98	16	12	6	M10	195	162	254	268	220	267	425	197	115	0°
200	200	300	98	16	12	6	M12	260	245	365	380	208	266	425	197	115	17.5°
250	250	350	125	16	12	6	M12	310	316	460	474	245	316	440	224	170	17.5°
300	300	400	125	16	14	8	M12	360	398	566	580	245	316	440	224	170	15°
350	350	528	140	22	20	12	M20	470	468	664	678	248	316	427	236	183	6°

MANUAL ROTOSLIDE - RSM



All dimensions are in millimetres

SIZES	A	B	C	D	E	F	G	H	J	K	L	N	P	R	S
150	150	230	98	16	14	6	M10	195	162	25	268	155	60	60	166
200	200	300	98	16	12	6	M12	260	245	380	365	185	45	60	185
250	250	350	125	16	12	6	M12	310	316	474	460	230	10	90	230
300	300	400	125	16	14	8	M12	360	398	566	580	230	40	90	228
350	350	528	140	22	20	12	M20	470	468	664	678	300	40	95	274

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Drillings are Rotolok standards. Variations can be made.





BUTTERFLY DAMPER - BD

The fabricated range of Rotolok Butterfly Dampers are used extensively in the air and dust handling industries generally in fan systems.

They are normally operated automatically by air cylinders, electric or pneumatic actuators although manual versions through the customary hand lever, hand-wheel and reduction gearboxes can also be accommodated.

SPECIFICATION

Construction is generally from Mild or Stainless Steel with the body of the valve formed from rolled steel angles or channels dependent on the size.

The Damper itself is a single plate sized for close fitment to the valve body and seats against a fixed stop. When closed, the expected leakage is considered to be less than 1% based on cross sectional area.

The split spindle mounting system minimizes turbulence within the air stream and these spindles are mounted on either two or four bolt flanged mounted sealed for life bearings.

Shaft seals can be fitted if required through a simple rubber gasket/lip seal arrangement or, on high temperature applications, the conventional stuffing box is utilised.

The type of actuator, to suit the clients requirements or specification, can be added to all sizes and, on pneumatic versions, limit switches and single solenoid spring return valves are included.

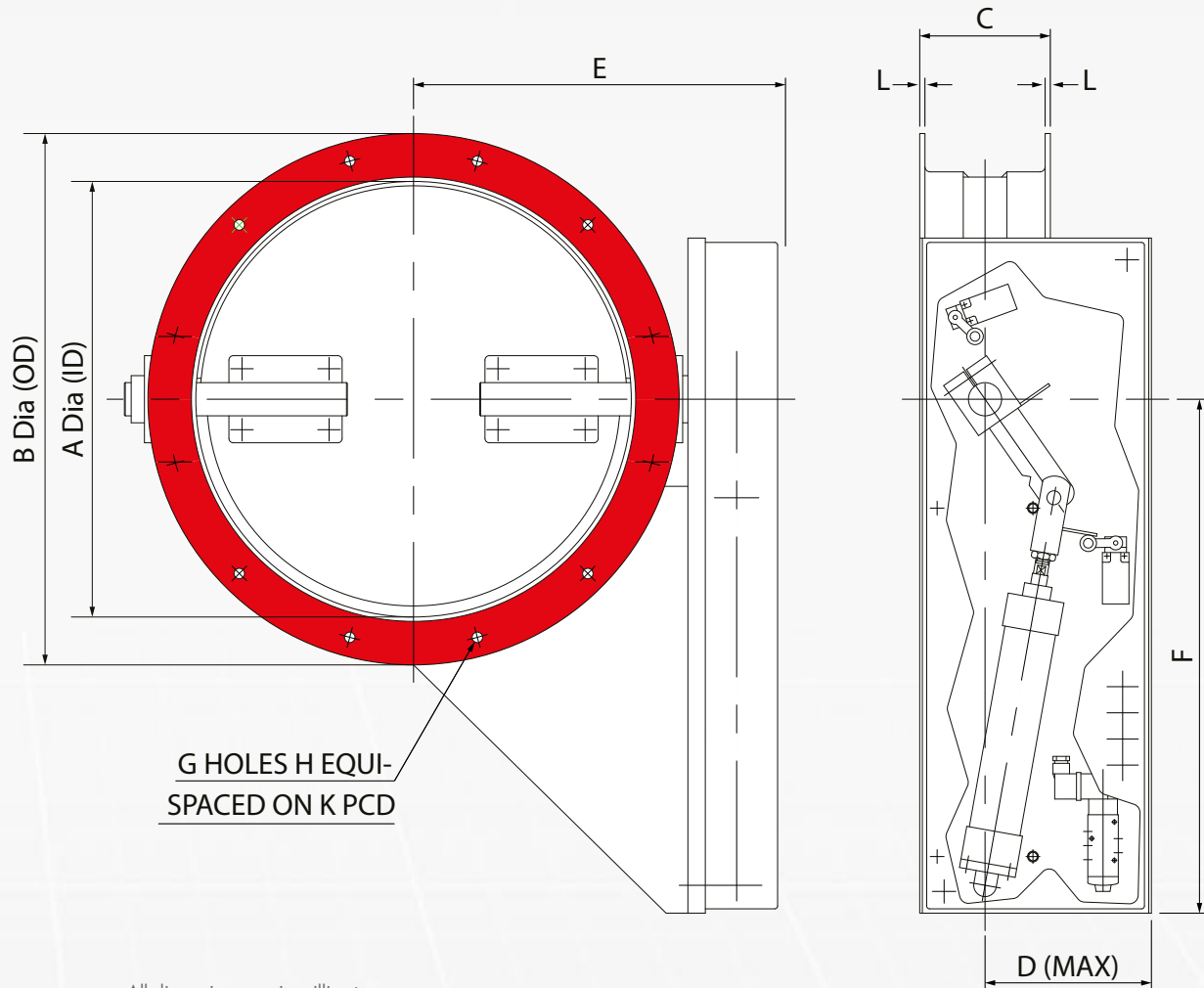
RANGE

With fabrication, practically any size can be accommodated to suit the duct size with flanges also made to suit system designers needs.

The standard range starts at 150mm diameter and extends to 700mm in diameter. It is not recommended to go below 150mm diameter. Square units and special sizes can be, and have been manufactured.

On valve size selection it is important to ensure that the ducting size is equal to or slightly larger than the valve bore. This is to prevent any possible interference during the damper operation in the area where the blade enters the ducting, or should there be any misalignment between the components on assembly.

BUTTERFLY DAMPER



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	K	L
150	154	240	130	180	241	475	6	M10	205	8
250	250	340	130	180	287	475	8	M8	305	8
300	300	390	130	200	317	590	8	M10	356	6
350	350	440	130	200	342	590	8	M10	406	6
400	400	490	130	200	367	590	12	M10	456	6
450	450	540	130	200	392	590	12	M10	506	6
500	500	610	150	200	427	590	12	M12	566	6
600	600	710	150	200	477	590	16	M12	666	6
700	700	810	150	200	527	590	16	M12	766	6



RFM



SF

IRIS VALVES - RF & SF

The iris valve has proved itself over a number of years as a simple, reliable isolation or variable feed control valve on applications in the powder or air handling industries - its simplicity being its major advantage.

Iris valves are typically used on IBC and FIBC for controlling discharge. Full bore flow can be achieved by care must be taken to ensure mating gaskets or flanges do not interfere with the rotating ring or the sleeve.

The basic construction is that of a sleeve which is clamped at both ends to rings and on 180° rotation of one end completely seals against the very finest of powders and limited air pressure.

Partial rotation leads to partial opening and a multitude of different types of sleeve can be accommodated, the more common type of sleeves are woven nylon, rubber, anti-static or flameproof. These sleeves give good full opening properties and are dust tight.

Rotolok manufacture two types of iris valves for different applications: Rotoflex(RF) and Slimflex(SF).

INSTALLATION

The Rotoflex and Slimflex valve are immediately ready for installation, however it is essential that the mating flange is flat and true so as not to impart unwanted stresses into the body causing warp and consequently difficult heavy duty loading on the rotating ring.

It is important that the flange fixings in the tapped holes are not too long and protrude into the handle movement area, preventing rotation.

In some cases, if wear becomes a major problem it may be preferable to install a false sleeve, thereby protecting the main sleeve and simplifying its replacement.

Pneumatic actuation is an option on the Rotoflex.

DOUBLE SLEEVE OPTION

Double sleeve options is available on both the Rotoflex and Slimflex. It increases the head load capacity and completely seals the internals to atmosphere against fugitive emissions.

MANUAL ROTOFLEX IRIS VALVE - RFM

The Rotoflex is constructed from cast aluminium. It is a high duty, hand operated valve for all powders and granules on open discharge systems.

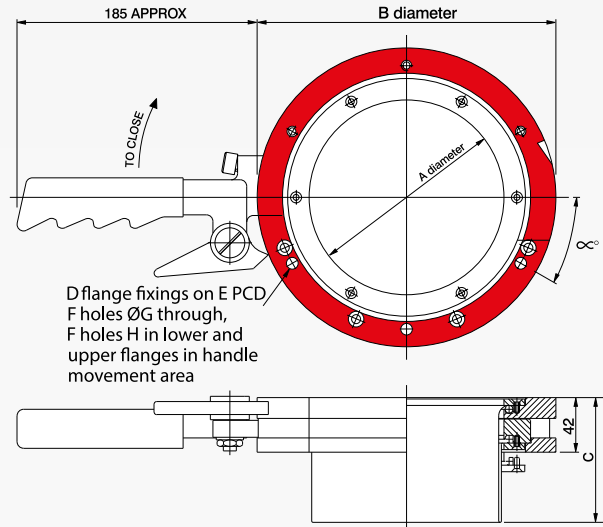
The Rotoflex lends itself particularly on filling applications. The sleeve is fixed with stainless steel clamping rings.

It can also be used on in-line systems but care must be taken to ensure mating gasket or flange does not interfere with the rotating clamping ring.

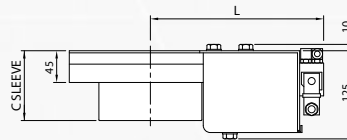
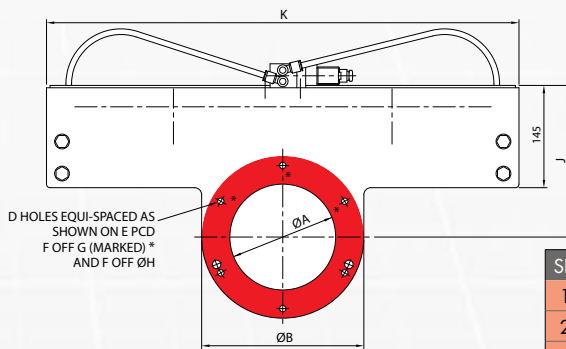
The main advantage of the Rotoflex is that it can be re-tensioned 'insitu'.

All dimensions are in millimetres

SIZES	A	B	C	D	E	F	G	H	∞°
150	150	230	96	6	203	3	9	M8	30°
200	200	280	121	6	254	3	9	M8	30°
250	250	350	146	6	327	4	11	M10	22.5°
300	300	400	171	6	378	4	11	M10	22.5°



PNEUMATIC ROTOFLEX IRIS VALVE - RFP



All dimensions are in millimetres

SIZES	A	B	C	D	E	F	G	H	J	K	L
150	150	230	99	6	203	3	M8	9	215	670	248
200	200	280	124	6	254	3	M8	9	240	750	273
250	250	350	149	8	327	4	M10	11	275	860	306
300	300	400	174	8	378	4	M10	11	300	935	331

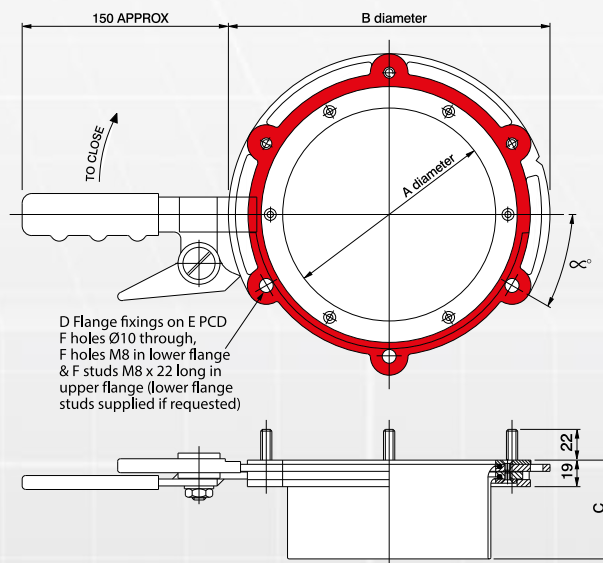
SLIMFLEX IRIS VALVE - SF

The Slimflex is a low-cost alternative to the Rotoflex, designed primarily for the needs of the IBC market. It is manufactured from mild or stainless steel laser cut rings providing a robust, yet lower duty valve. Mild steel parts are zinc coated.

The advantage of the Slimflex is that any size can be accommodated.

All dimensions are in millimetres

SIZES	A	B	C	D	E	F	∞°
100	102	175	61	4	156	2	45
150	152	230	86	6	203	3	30°
200	203	280	111	6	254	3	30°
250	254	350	137	8	327	4	22.5°
300	305	400	162	8	378	4	22.5°
350	356	450	195	12	426	6	15°
380	381	475	116.5	12	451	6	15°
400	406	500	220	12	476	6	15°
450	457	551	250	16	527	8	11.25°



Dimensions are approximate and subject to change without notice
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Drillings are Rotolok standards. Variations can be made.



An extended
Telescopic Bulk Loader

TELESCOPIC BULK LOADER - TL

Rotolok and AMD-Rotolok, our South African subsidiary, have developed, tested and manufactured Telescopic Bulk Loaders (TBL), calling on more than 10 years' experience from AMD-Rotolok, who have supplied TBLs to the Iron & Steel, Cement and Quarrying industries throughout South Africa and sub-Saharan Africa.

All units operate in harsh and sometimes environmentally demanding locations and naturally, they meet the need for robustness, durability, ease of service and importantly, control of dust.

Our Rotolok designers have incorporated all the attributes of the AMD-Rotolok TBL but have also ensured that it complies with EU and USA legislation as well as the requisite operating standards.

SPECIFICATION

WINCH HEAD

Mild Steel fabrication,
industrial hammer finish

OUTLET BODY

Mild Steel fabrication,
industrial hammer finish

BUCKETS

Mild Steel

WIRE ROPES

Galvanised Mild Steel

WEBBING STRAPS

Resin Impregnated
polyester

DUST SHROUD

500gsm PVC coated nylon,
nylon support rings.

PULLEY SHEAVES

Cast Iron with phosphor
Bronze bushes

PERFORMANCE

STANDARD INLET DIAMETERS

200mm, 250mm, 300mm
Standard flanges drillings

AVAILABLE STROKE

Minimum - 1000mm
Maximum - 3000mm

FEED RATE

Up to 250 m³/hr - will vary
depending on material
characteristics

OPTIONS AVAILABLE

INLET:

- Stainless steel
- ASA, BTSD, J15 or flanges to suit
- Inlet diameter up to 500mm
- Dust extraction flange tube size & connection

OUTLET:

- Stainless steel
- Special connection
- Vibration (electric/pneumatic)
- Linatex covering (site serviceable)
- EPDM covering (chemical bonded)
- Container fill level probe

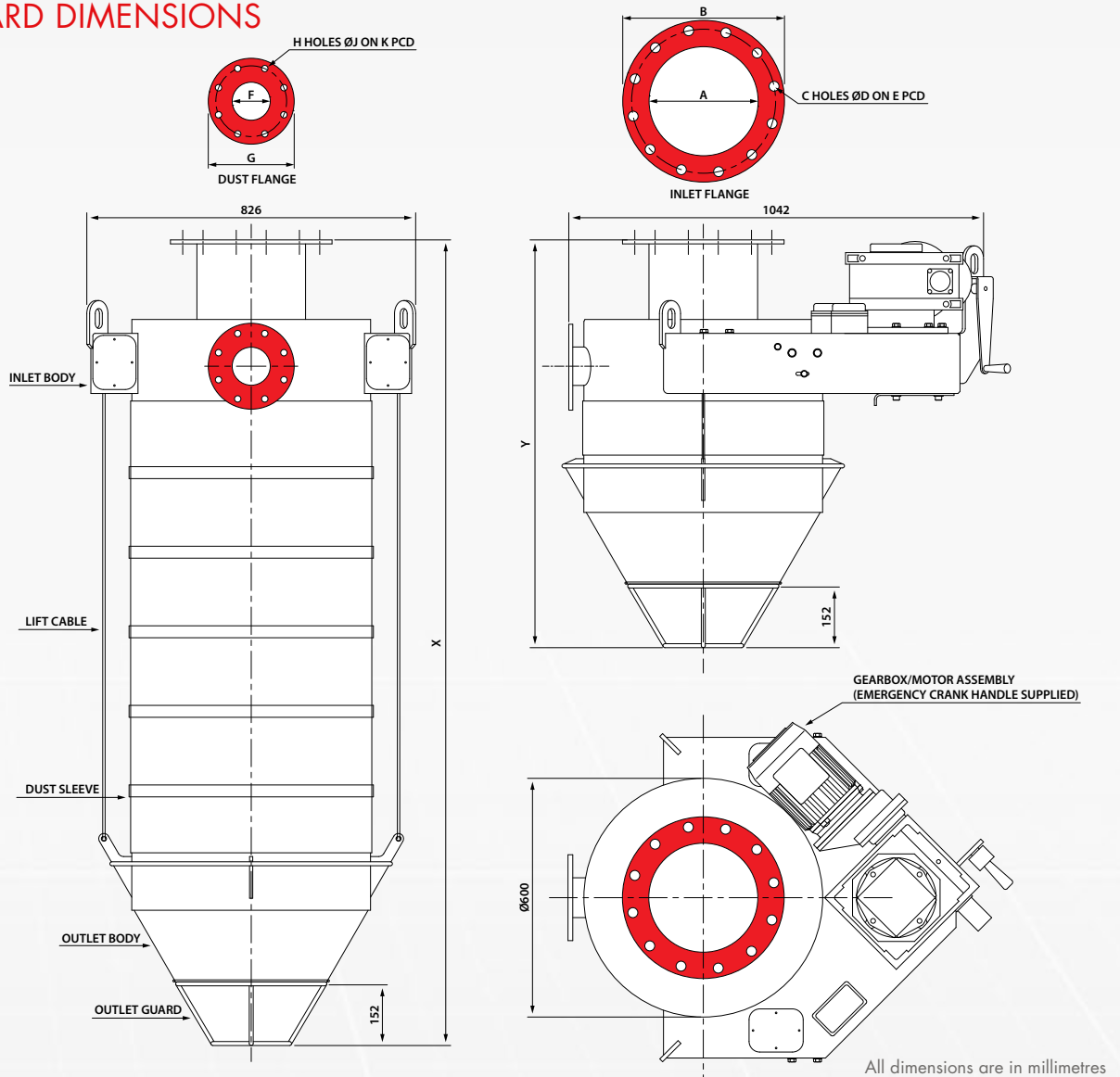
BUCKET:

- Stainless steel
- Heavy duty

ASSEMBLY:

- Overall height
- Travel
- Lift cables & fittings in Stainless steel
- Manual override
- Automatic outlet positioning

STANDARD DIMENSIONS



TRAVEL (M)	A	B	C	D	E	F	G	H	J	K	X	Y	BUCKETS
1.0	On Application										2120	1120	3
1.35	On Application										2520	1180	4
1.7	On Application										2920	1240	5
2.0	On Application										3320	1300	6
2.35	On Application										3720	1360	7
2.7	On Application										4120	1420	8
3.0	On Application										4520	1480	9



A retracted Telescopic Bulk Loader

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Drillings are Rotolok standards. Variations can be made.

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ROUNDHEAD VALVE - RH

Roundhead valves are used in bulk handling industries as on/off controls for powder, pellets or granules falling under gravity from one discharge point to another.

They are designed specifically to give a full bore opening in pressure applications and are particularly suited to handling abrasive products, slurries and cohesive products.

CONSTRUCTION

The valve consists of a cast body and inlet flanges with an internal cast dome and inflatable seal. The castings are CNC machined to ensure that the seal is properly seated and presses uniformly against the dome when inflated. The dome is clamped to side shafts which operate within impregnated bush bearings in the body with external lubrication points. Lip seal shaft seals protect the environment against product leakage and maintain any internal pressure.

OPERATION

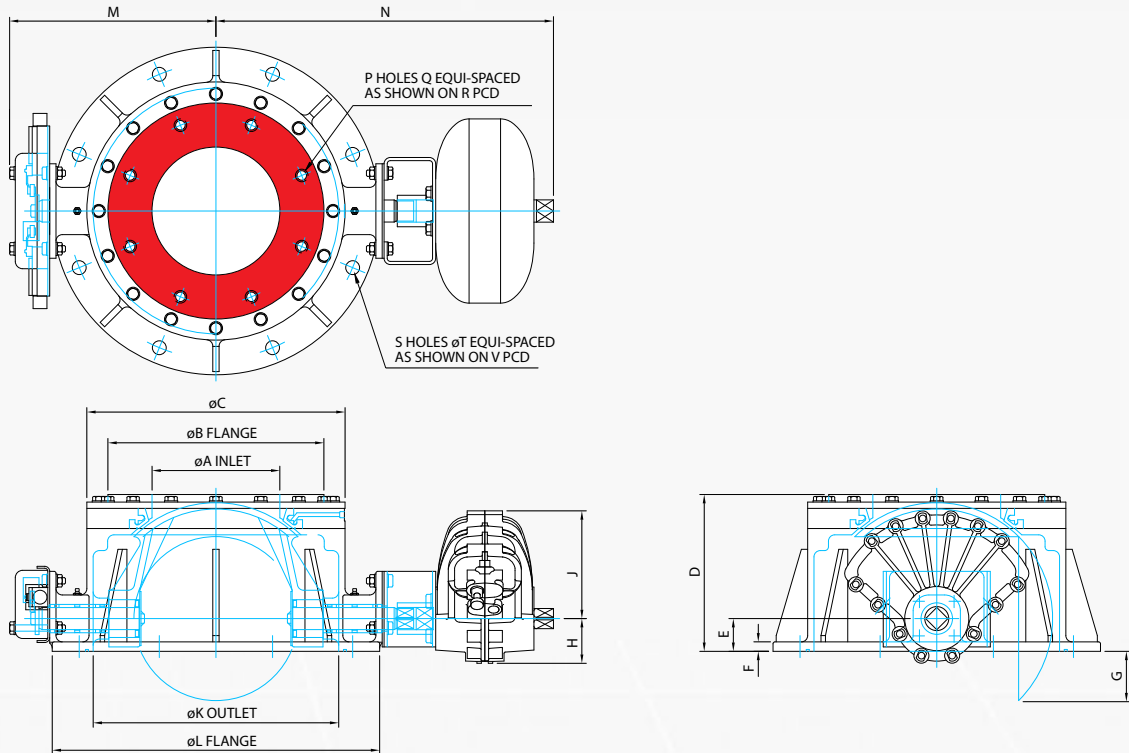
A pneumatic quarter turn actuator is directly coupled to the drive shaft and dome. Air supply to the actuator is via a solenoid valve, flow regulators and piping. The flow regulators are fitted and set to restrict the dome operation speed to less than 1m/s.

Limit switches are fitted and positioned to indicate open/closed conditions.

OPTIONS

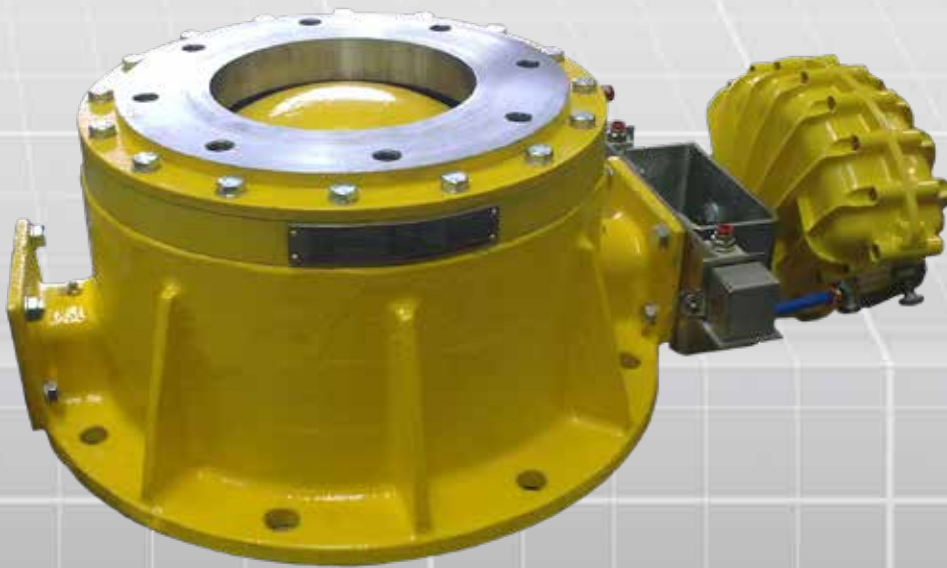
- Cast Iron, Aluminium, Stainless Steel or Carbon Steel construction
- Seal options
- Actuation options
- Tungsten Carbide, Hard Chrome or PTFE Dome coatings
- Pressure differentials
- Operating temperatures

STANDARD DIMENSIONS



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V
100	102	250	250	178	52	15	30	42	160	230	340	288	340	8	M 16 x 16 DEEP	190	6	18	300
150	152	279	340	219	52	15	55	42	160	320	483	319	412	8	M 20 x 20 DEEP	242	8	22	390
200	203	343	410	249	52	15	80	71	171	390	520	338	538	8	M 20 x 20 DEEP	290	8	22	470
300	305	483	572	322	82	15	130	42	160	552	690	423	515	12	M 22 x 22 DEEP	432	12	26	630
400	406	597	750	436	100	35	138	90	235	720	920	521	631	16	M 24 x 25 DEEP	540	12	33	838





BLO-LINE COUPLINGS - BLC

Compression Couplings provide an economical method of connecting piping and tubing and ensure fast positive sealing in pressure and vacuum systems.

The couplings not only offer an initial low cost, but also minimise installation time and expense. They are light yet strong and provide a leak proof seal, meaning that they may be used with a variety of products. They are easily connected and dismantled and are re-useable if they need to be relocated within the system.

In applications where static electricity build-up presents a problem, such as bulk material, or pneumatic conveying systems, earthing strips assure conduction of static across the ends of the piping being joined. These earth strips are supplied as standard.

CONSTRUCTION

Blo-Line Compression Couplings consist of an outer shell with lips flanges enveloping stiffener bars, an inner sleeve with precision meshing teeth and a gasket with a die cut tooth design to ensure a positive seal. When bolts are tightened, the heavy flanges draw in the outer shell which, in turn, applies uniform pressure on the inner sleeve and gasket to ensure sealing of the line being coupled.

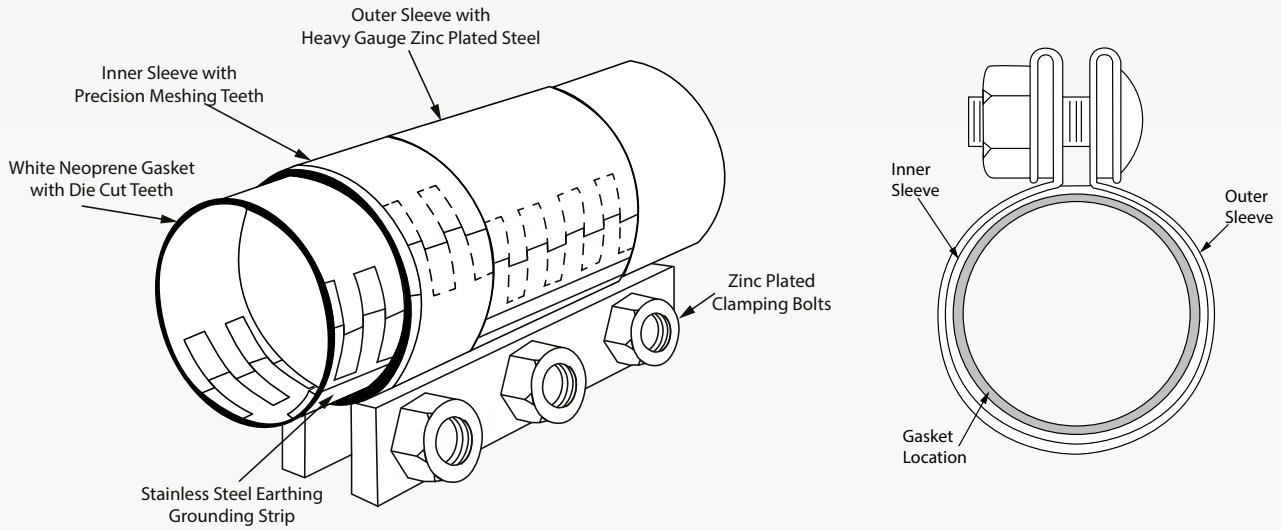
Couplings are also available with lever operation for quicker access to the connected pipes.

For use more hygienic industries such as Food, Chemical or Pharmaceutical applications, Rotolok offer Blo-Line Couplings in Stainless Steel. This allows for a cleaner, more hygienic conveying system and when coupled with the lever operation allows the coupling to be quickly removed and cleaned.

INSTALLATION STEPS

- Ensure ends of matching pipes are square, clean and tightly butted.
- Remove burrs, scale, grease, etc. from the pipe areas covered by the coupling.
- Slide the coupling over the end of one pipe and bring the end of the adjoining pipe to firmly butt against the end of the first pipe then slide the coupling so it is central over the joint.
- Tighten the bolts evenly until the desired compression is obtained. When properly tightened, the flanges will touch and appear to 'Vee' when viewed from the end.

EXAMPLE COUPLING



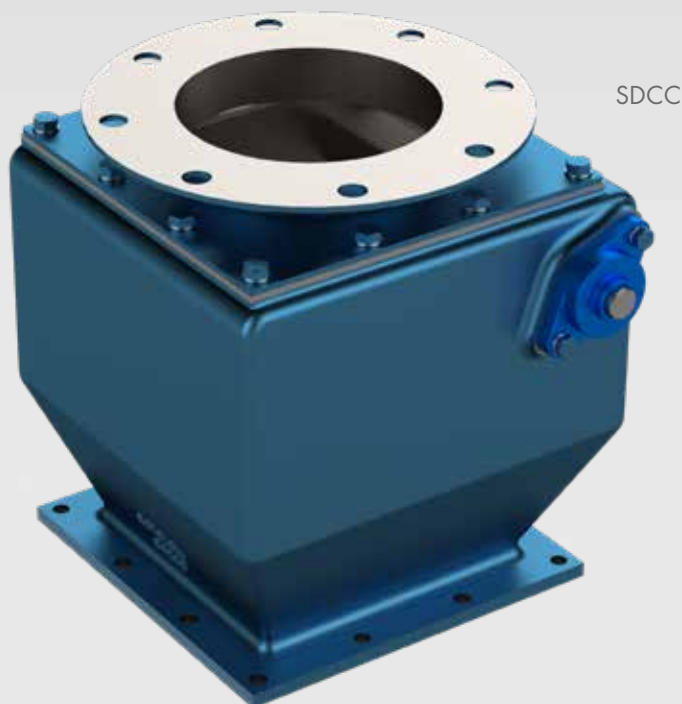
2 BOLT TYPE			3 BOLT TYPE			4 BOLT TYPE		
PIPE O.D	LENGTH	PART NO.	PIPE O.D	LENGTH	PART NO.	PIPE O.D	LENGTH	PART NO.
38.1 (1 1/2")	102 (4")	2B150	48.3 (1 29/32")	152 (6")	3B190	76.1 (3")	203 (8")	4B300
50.8 (2")	102 (4")	2B200	50.8 (2")	152 (6")	3B200	88.9 (3 1/2")	203 (8")	4B350
			60.3 (2 3/8")	152 (6")	3B237	101.6 (4")	203 (8")	4B400
			63.5 (2 1/2")	152 (6")	3B250	114.3 (4 1/2")	203 (8")	4B450
			76.1 (3")	152 (6")	3B300	127.0 (5")	203 (8")	4B500
			88.9 (3 1/2")	152 (6")	3B350	139.7 (5 1/2")	203 (8")	4B550
			101.6 (4")	152 (6")	3B400	152.4 (6")	203 (8")	4B600
			114.3 (4 1/2")	152 (6")	3B450	165.1 (6 1/2")	203 (8")	4B650
			127 (5")	152 (6")	3B500	168.3 (6 5/8")	203 (8")	4B662
			139.7 (5 1/2")	152 (6")	3B550	203.2 (8")	203 (8")	4B800
			152.4 (6")	152 (6")	3B600	219.1 (8 5/8")	203 (8")	4B862
			165.1 (6 1/2")	152 (6")	3B650	254.0 (10")	203 (8")	4B1000
			168.3 (6 5/8")	152 (6")	3B662	273.0 (10 3/4")	203 (8")	4B1075



Lever operated Coupling

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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SINGLE FLAP VALVE - SD

Suitable for regulating the discharge of dry dust, powder, granules and fibrous materials in gravity and very low pressure applications.

The valve consists of a single flap acting against a machined inlet to minimise airloss when closed.

After product release, the counterweight, returns the flap to the up (sealed) position and is designed and sized so that a clapping action at the flap is obtained, aiding material flow and preventing build up at the seal plate.

OPERATION

These are single flap control valves controlled by a guarded counterweight to release the product in batches. Product builds up on the flap until a sufficient head overcomes the counterweight. Discharge then commences and continues whilst material head exceeds counterweight and vacuum effects. Seal is partially maintained by product during discharge.

CONSTRUCTION

Sizes available: 150, 200, 250 and 300mm as standard with cast iron bodies and with round or square inlets. Larger sizes may be accommodated upon request.

Rotolok makes a full range of fabricated types in mild steel and stainless steel, with specials up to a maximum inlet of 750mm.

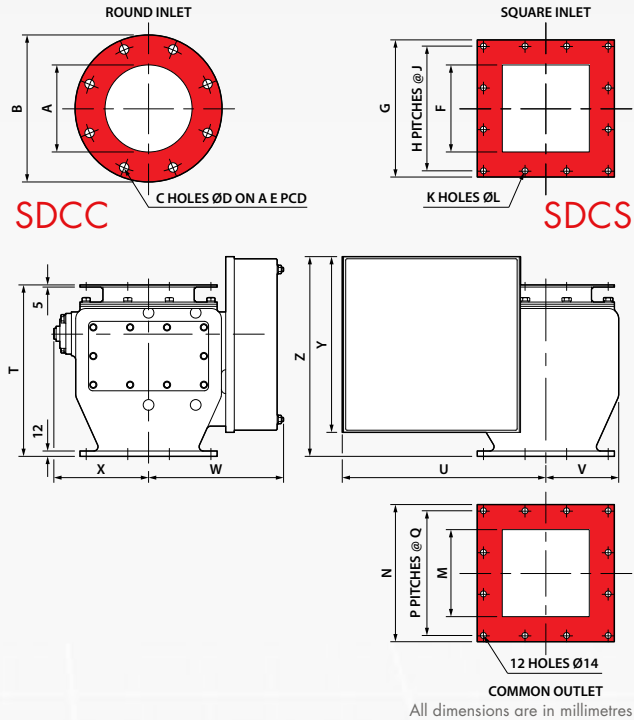
In addition to the Single Flap, Double Flap, Motorised & Counter Balance Valves, we also manufacture pneumatically operated versions.

OPTIONS

- Pneumatic Operation
- Abrasive Resistance
- Fabricated Stainless Steel
- High Temperature construction

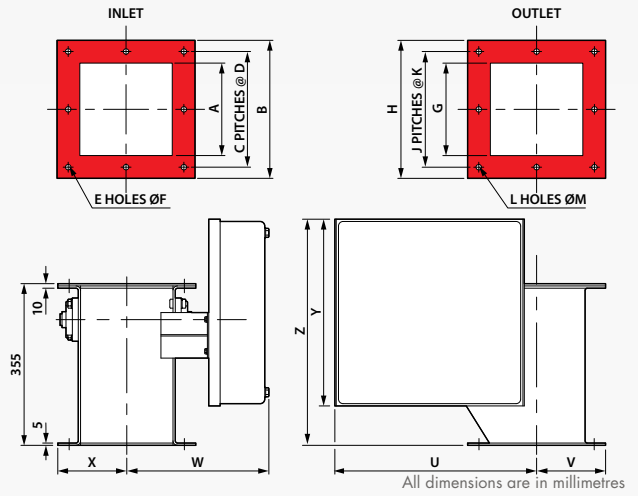


CAST SINGLE FLAP VALVE



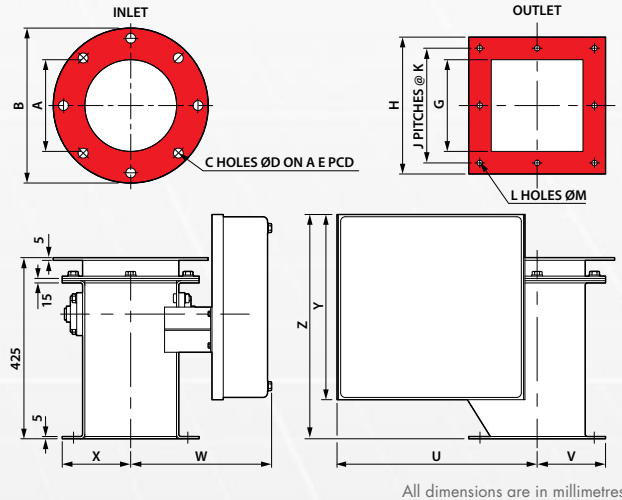
SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	T	U	V	W	X	Y	Z
150	152	279	8	22	241	150	250	2	108	8	14	203	320	3	97	400	475	170	315	221	410	466
200	203	343	8	22	298	203	320	3	97	12	14	203	320	3	97	400	475	170	315	221	410	466
250	254	406	12	25	362	254	380	3	114	12	14	254	370	3	114	585	622	220	362	269	555	667
300	305	483	12	25	432	305	440	3	128	12	14	254	370	3	114	585	622	220	362	269	555	667

FABRICATED SQUARE SINGLE FLAP VALVE - SDFS

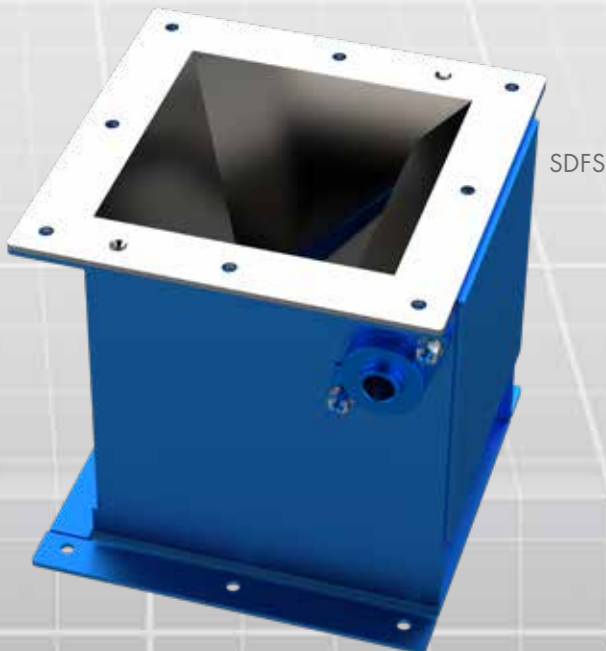


SIZE	A	B	C	D	E	F	G	H	J	K	L	M	U	V	W	X	Y	Z
150	152	252	2	108	8	12	152	252	2	108	8	12	418	126	284	216	410	497
200	203	303	2	127	8	12	203	303	2	127	8	12	443	151.5	312	151.5	412	497
250	254	354	2	152	8	12	254	354	2	152	8	12	472	177	339	177	410	497
300	305	405	3	119	12	14	305	405	3	119	12	14	495	202.5	376	202.5	425	496

FABRICATED ROUND SINGLE FLAP VALVE - SDFC



SIZE	A	B	C	D	E	G	H	J	K	L	M	U	V	W	X	Y	Z
150	152	279	8	22	241	152	252	2	108	8	12	418	126	284	216	410	497
200	203	343	8	22	298	203	303	2	127	8	12	443	151.5	312	151.5	412	497
250	254	406	12	25	362	254	354	2	152	8	12	472	177	339	177	410	497
300	305	483	12	25	432	305	405	3	119	12	14	495	202.5	376	202.5	425	496





DOUBLE FLAP VALVE - DD

Suitable for discharging dry dust, powder, granules and fibrous materials from cyclones, filters, hoppers etc., whilst still maintaining an effective gas seal.

The valve consists of two flaps connected by counterweights or spring loaded spindles, which are operated by means of a motor driven cam. The cam alternately opens each flap allowing material to pass through the separate chambers in batch form and thereby ensuring a gas seal.

After cam release, the counterweights (or springs), return each flap to the up (sealed) position and are designed and sized so that a clapping action at the flaps is obtained, aiding material flow and preventing build up at the seal plate.

The unit is suitable for pressure differentials of up to 500mm W.G. This can be increased with special features.

OPERATION

Units can be adapted for use on simple cyclone discharge systems. These are single flap counterweighted but non-motorised types. Product builds up on the flap until a sufficient head overcomes the counterweight. Discharge then commences and continues whilst material head exceeds counterweight and vacuum effects. Seal is partially maintained by product during discharge.

CONSTRUCTION

Sizes available: 150, 200, 250 and 300mm as standard constructed with cast iron bodies, with round or square inlets. Larger sizes can be accommodated.

Rotolok makes a full range of fabricated types in mild steel and stainless steel, with specials up to a maximum of 750mm.

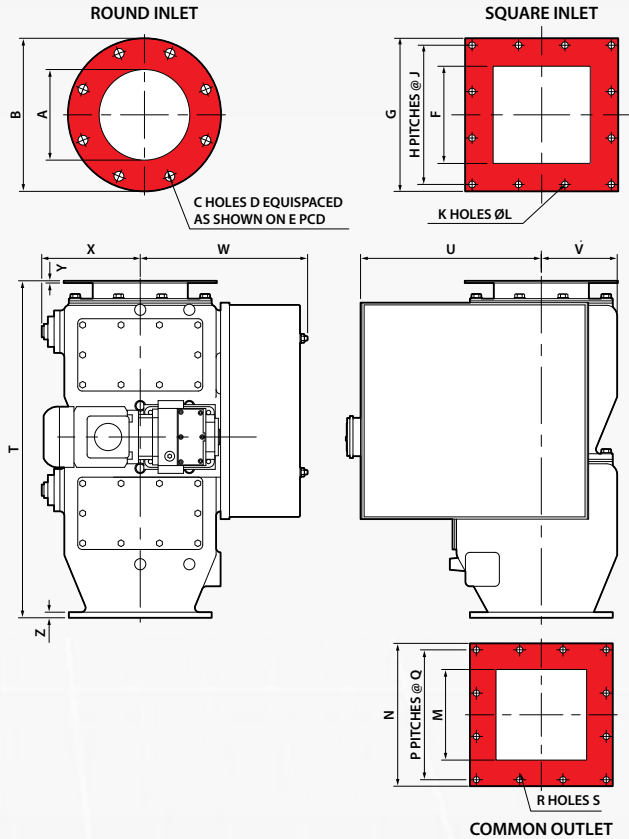
In addition to the Single Flap, Double Flap, Motorised & Counter Balance Valves, we also manufacture pneumatically operated versions.

OPTIONS

- Counterweight/Balance
- Pneumatic Operations
- Fabricated Stainless Steel
- Abrasive Resistance
- High Temperature construction



CAST DOUBLE FLAP VALVE



ROUND VERSION - DDCR

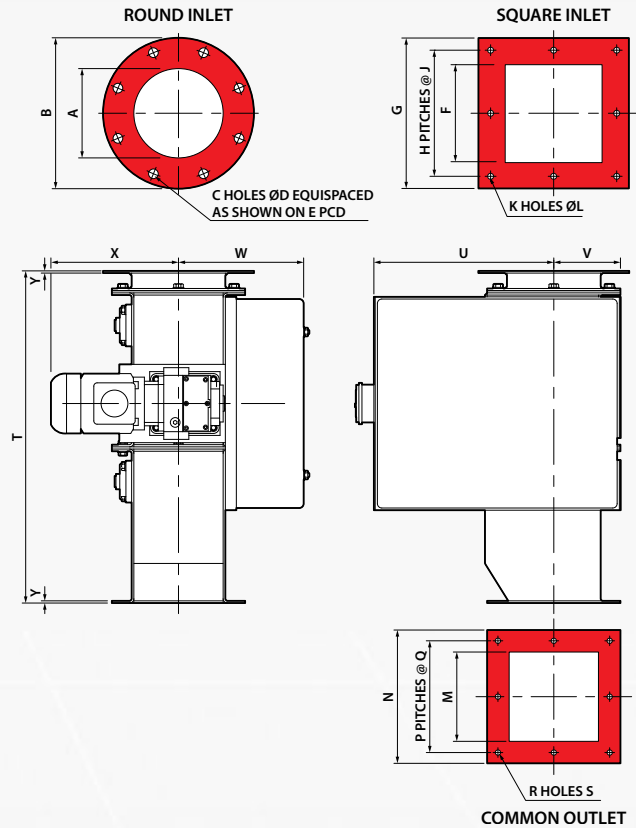
All dimensions are in millimetres

SIZE	A	B	C	D	E	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
150	152	280	8	22	241	200	320	3	97	12	14	755	440	170	375	221	5	12
200	203	343	12	22	298	200	320	3	97	12	14	755	440	170	375	221	5	12
250	254	406	12	22	362	254	370	3	114	12	14	1100	510	220	425	269	5	12
300	305	483	12	25	432	254	370	3	114	12	14	1100	510	220	425	269	5	12

SQUARE VERSION - DDCS

SIZE	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
150	150	254	2	108	8	14	200	320	3	97	12	14	755	440	170	375	221	5	12
200	203	320	3	97	12	14	200	320	3	97	12	14	755	440	170	375	221	5	12
250	254	380	3	114	12	14	254	370	3	114	12	14	1100	510	220	425	269	5	12
300	305	440	3	128	12	14	254	370	3	114	12	14	1100	510	220	425	269	5	12

FABRICATED DOUBLE FLAP VALVE



ROUND VERSION - DDFR

All dimensions are in millimetres

SIZE	A	B	C	D	E	M	N	P	Q	R	S	T	U	V	W	X	Y
150	152	279	8	22	241	152	252	2	108	8	12	755	438	158	274	316	5
200	203	343	8	22	298	203	303	2	127	8	12	755	490	175	298	290	5
250	254	406	12	25	362	254	354	2	152	8	12	780	520	203	323	267	5
300	305	483	12	25	432	305	405	3	119	12	14	780	520	242	350	239	5

SQUARE VERSION - DDFS

SIZE	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y
150	152	252	2	108	8	12	152	252	2	108	8	12	710	435	158	274	300	5
200	203	303	2	127	8	12	203	303	2	127	8	12	710	409	152	300	315	5
250	254	354	2	152	8	12	254	354	2	152	8	12	710	435	107	325	265	5
300	305	405	3	119	12	14	305	405	3	119	12	14	710	460	101	350	239	5
350	356	456	4	102	16	14	356	456	4	102	16	14	1030	560	228	378	228	5



Ni-Hard 90° Plain Bend



Ni-Hard 45° WearBack Bend

NI-HARD PIPE BENDS - NHB

To cope with a whole list of abrasive materials including sand, cement, quarry dust, granite dust, sinter dust, slag, coal and many others which cause extra wear on pipe bends of conventional material, we provide a range of Ni-Hard castings.

Standard radius plain bends with and without replaceable wear-back plates are available. Flanged ends as standard, although special designs can be considered. Ni-Hard bends are essential for the efficient conveying of abrasive materials.

The models with replaceable wearbacks enable the part of the bend most susceptible to wear to be replaced without the need to remove the complete bend from the system. This saves on system down time and keeps the repair cost down.

INSTALLATION

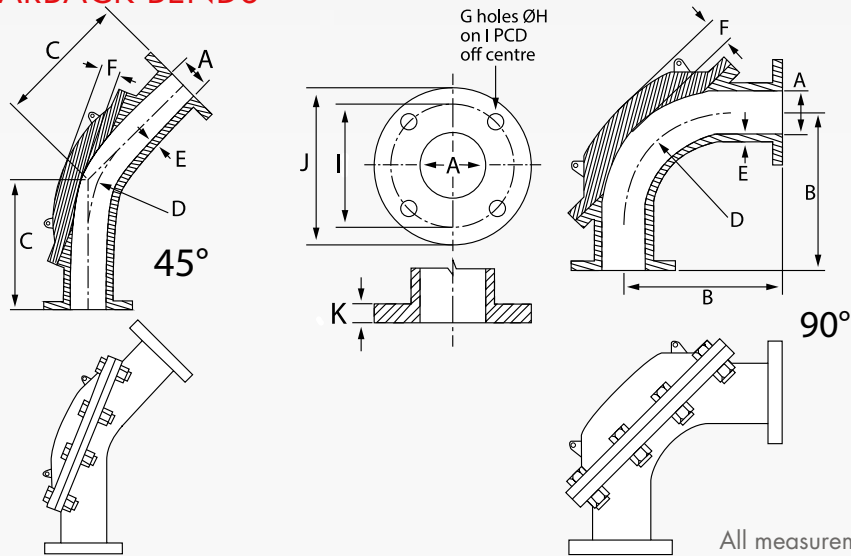
Mating flanges should always be offered up to the Ni-Hard units in a parallel and close fitting position. No undue strain should be imparted on the flanges by pulling up with bolts, as damage to the casting may result.

Due to the issues highlighted above, we recommend that the bends are installed against flat face flanges. If this is not possible, then appropriate spacers / gaskets should be used.

3mm / 1/8" Full Face Rubber gaskets should be used between flanges (flat face).

Maximum torque for bolt tightening should be 67.8 Nm or 50 lb/ft.

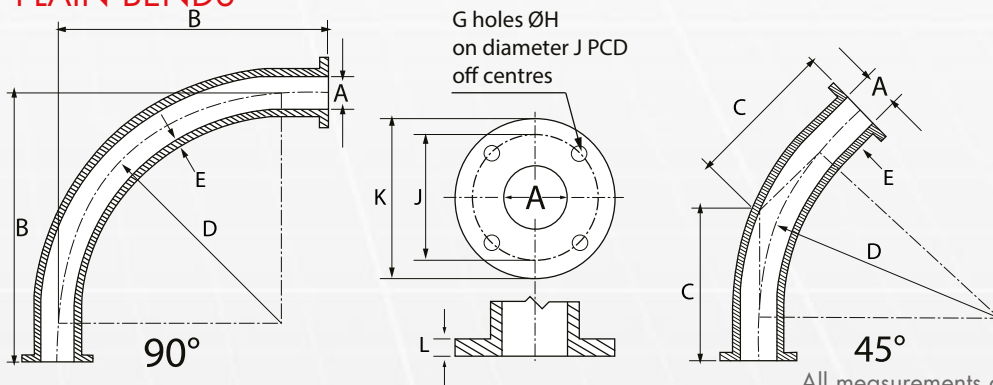
NI - HARD WEARBACK BENDS



All measurements are in millimetres.

PIPE I.D.	90°	45°	RADIUS	WALL	WEARBACK	FLANGE DIMENSIONS (ASA 150)					WEIGHT (KG)
A	B	C	D	E	F	G	H	I	J	K	
50	203	203	127	13	40	4	19	121	152	22	24
76	320	279	250	16	51	4	19	152	191	20	50
102	311	318	210	16	32	8	19	191	229	20	63
125	350	287	250	18	51	8	22	216	260	25	80
150	300	432	300	18	51	8	22	241	285	22	110
200	508	559	406	19	102	8	22	299	343	29	245

NI - HARD PLAIN BENDS



All measurements are in millimetres.

PIPE I.D.	90°	45°	RADIUS	WALL	FLANGE DIMENSIONS (ASA 150)					90°	45°
A	B	C	D	E	G	H	J	K	L	WEIGHT (KG)	
50	381	203	305	13	4	19	121	152	22	16	11
75	533	254	457	16	4	19	152	191	20	39	26
100	686	330	610	16	8	19	191	229	20	58	41
125	838	381	792	18	8	22	216	260	25	99	54
150	991	457	914	18	8	22	241	285	22	135	84
200	1295	584	1219	19	8	22	299	343	29	234	138
250	1600	711	1524	20	12	25	362	406	25	342	183

Dimensions are approximate and subject to change without notice
Planning-in detail for general guidance only
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Drillings are Rotolok standards. Variations can be made.

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RTOSPEED SWITCH - RSS

The Rotospeed Switch was developed initially to economically monitor Rotolok's Rotary Valves around the clock, replacing labour intensive visual supervision.

However, it is more than capable of maintaining the overspeed and underspeed of any rotating shaft with a suitable connection.

OPERATION

The heart of the switch is its sensing head with its built in switching device. The head detects the blades of a target mounted on the shaft to be monitored. The sensing head switch is activated when the rotor frequency matches or exceeds the switch's setting frequency. The switch will de-activate when the rotor frequency falls below the switch's setting frequency.

The switch is suitable for operation over a range of 2.5 to 200 RPM but this range can be extended if details are given on application.

(Different sensing heads can be used for alternative applications, (Details given on application))

The shaft being monitored should be tapped M12 in accordance with the planning in drawing and to overcome the problem of eccentricity or the hole not being coaxial, an anchor bracket should be fitted to stop rotation of the switch. By locating rather than bolting the Rotospeed firmly to the bracket, bearing overload is prevented.

CONSTRUCTION

The total unit is housed in a weatherproof cast aluminium housing and can be directly coupled to the monitored shaft and is suitable for running in clockwise or anticlockwise direction.

The proximity switch provides an open circuit when de-energised and operates from a 12-240V DC or 24-240V AC 50/60 Hz supply. Mounting positions can be horizontal, vertical or at any convenient angle.

SPECIFICATION

SUPPLY

12-240V DC
24-240V AC

SWITCHING CAPACITY

200mA max

SATURATION VOLTAGE

6 volts max (output on)

AMBIENT TEMP.

-15°C to + 50°C

RELATIVE HUMIDITY

90% RH

OUTPUT STATE

Normally closed (Volt drop 6 volts max) above set speed.

Normally open (leakage current 1.6mA max)

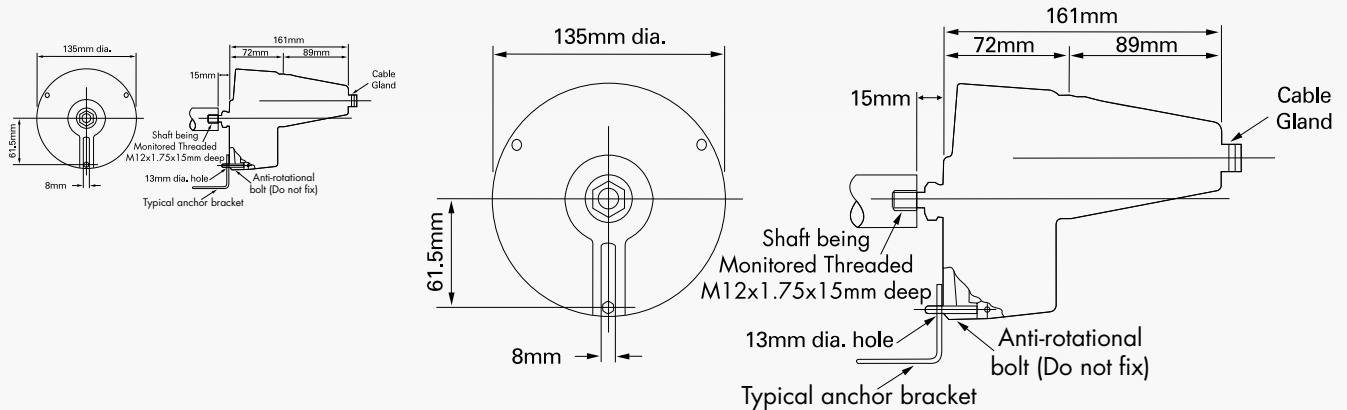
TRIP LEVEL

20% below set speed

START UP DELAY

Adjustable to 0 - 60 seconds

RTOSPEED MOUNTING REQUIREMENT



SPEED ADJUSTMENT

If it is necessary to recalibrate the Rotospeed to a new speed or start-up delay, proceed as follows:-

- Switch off the supply to the machinery and Rotospeed.
- Undo the three M6 cap head socket screws located in the base of the rear housing.
- Remove rear housing by sliding down the cable. The gland may need loosening.
- Place the end of the magnet with the black dot against the spot on "Cal Mag" text on the sensor and re-apply the power to both the machinery and the Rotospeed. Continue to hold the magnet in position until the machinery has reached its correct running speed and then remove the magnet. The sensor will self-calibrate for 20% under the monitored speed and the output LED will flash at one second intervals, to confirm start up delay.
- To recalibrate the start up delay; with machinery running reapply the magnet to the "Cal Mag" Text on product label for a period equal to the required start up delay and then remove the magnet.

Note: Whilst the magnet is placed against the "Cal Mag" position the output LED will flash at one second intervals as a guide to time delay. When the magnet is removed the sensor will self calibrate to 20% under the monitored speed and then the output LED will again flash at one second intervals, to confirm the start up delay.

RVC with Rotospeed attached



Dimensions are approximate and subject to change without notice
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Drillings are Rotolok standards. Variations can be made.

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ROTOLOK GROUP

SOLITEC

With over forty years of experience, Solitec Engineering are pioneers in the solids handling and process industry. Manufacturing a comprehensive range of equipment including mixers, IBC's both rigid and flexible, dryers, discharge aids such as bin activators and conveyors, either screw or belt type. The company earns worldwide respect for its designs, development, manufacturing and commissioning skills.

ROOTS

Roots Systems is the world leading manufacturer of blower, booster and vacuum pump packages for process industries, both onshore and offshore. Roots Systems has been supplying rotary-lobe compressors since 1974. Each one of our compressor packages involves one or more of our four principal areas of expertise; process gases, hazardous areas, special materials and high pressures.

BLO-TECH

Blo-Tech Ltd has earned a first-class reputation over many years for the supply of efficient, cost effective, pneumatic conveying components and mechanical bulk handling equipment. Blo-Tech have in-house engineers and expertise to also assist and support clients on system design matters and specification.

SAUTELMA ROTOLOK

Since 1964 Sautelma-Rotolok has designed and manufactured equipment for the feeding of bulk solid materials globally across a wide variety of industries. Specialising in weighing solutions including continuous weigh feeding, batch weigh feeding, gravimetric feeding, volumetric feeding and check weighing. Sautelma have a product range to cover most weighing applications with global support.

NORTHFIELD FOUNDRY

Northfield have been manufacturing iron castings from its current site in Brixham, Devon, since 1948 but their origins can be traced back even further. Being able to produce castings up to 1,000 kgs in iron and a range of different steel specifications, allows Northfield to meet a vast majority of client's needs.

BUSH & WILTON

Bush and Wilton can trace their history back to 1783 beginning as a foundry in Bristol, England. Business activity has changed over the company's lifetime and became involved with materials handling in the 1950's. This has resulted in a range of valves which evolved into the present offering of products including rotary valves, diverter valves and slide valves.





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AMD-ROTOLOK

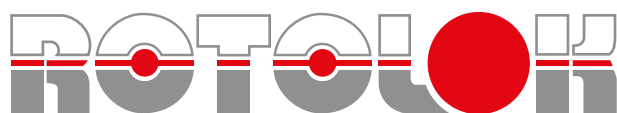
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