



www.scp-india.com



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who we are ?

scp india specialize in the designs, manufacturing and supply of conveying components for the processing of bulk solids of goods.

at scp india, we take a total system approach, which allows us to look at your complete process and develop the most efficient engineered solution for your production line. depending your material type, application environment, business objectives and financial goals, scp india designs a material handling solution that best fits your needs. our engineering and service staff have the application experience and knowledge that have lead to successful design and installations across the world.

markets served

- plastics
- cement
- steel
- food
- pharmaceutical
- textiles
- dairy
- industrial minerals
- power
- chemical
- agriculture
- mining

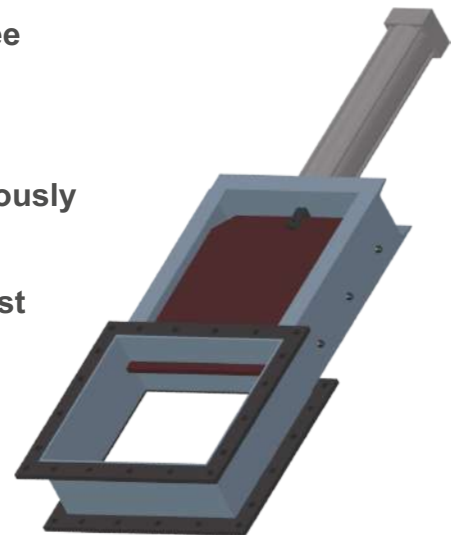


slide gate valve

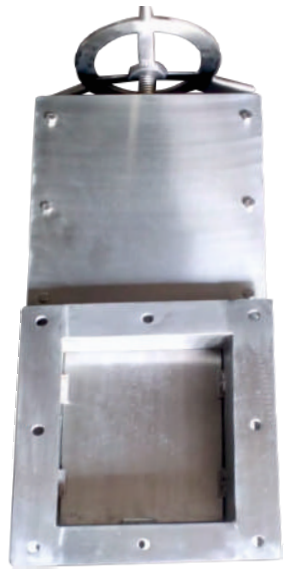
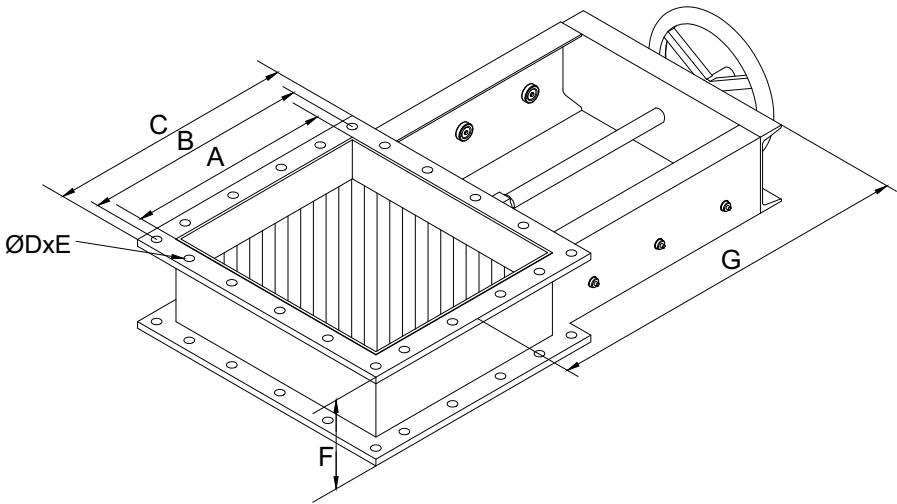
- ▶ slide gate valve is an equipment that fits into a system which are specifically designed for handling dry bulk powders, pellets, and granules etc.
- ▶ slide gate valves shut-off of material or air stream in linear motion in which a flat plate slides into the flow stream.
- ▶ the gate can be closed or can open the slide plate on a moving column of material relentlessly.
- ▶ the slide plate of the gate is not open or exposed to technicians/operators. thus, when used as designed and instructed, this type of valve is immanently safe to perform. a slide plate has no risk or hazard to the operator working on the system.
- ▶ manual operated slide gate valve: these gate valves are operated either by hand-wheel or by chain and hand-wheel
- ▶ pneumatic & motorized operated slide gate valve: these gate valves are operated by pneumatic cylinder and limit switch. they are provided with solenoid valve, reed switch, flow control valve & connectors.

features

- ▶ a minimum flange-to-flange height design to minimize space requirements
- ▶ can be well introduced to new installations and to retrofit existing systems
- ▶ proper selection of sliding knife and seal material results in free flow control of bulk solids. users can choose from square and circular inlet / outlet flanges. replaceable polyurethane, gland packing, and silicone seals make the valve to perform continuously without any material leakage
- ▶ depending on application requirements, we offer cast steel, cast aluminium and welded steel construction slide gate valve
- ▶ custom designed slide gate valve models are also available. food and sanitary applications demand stainless steel slide gate valve models while abrasive bulk solids applications demand hardox steel models.
- ▶ position indicators provides indications on the valve positions from a distance to the operators



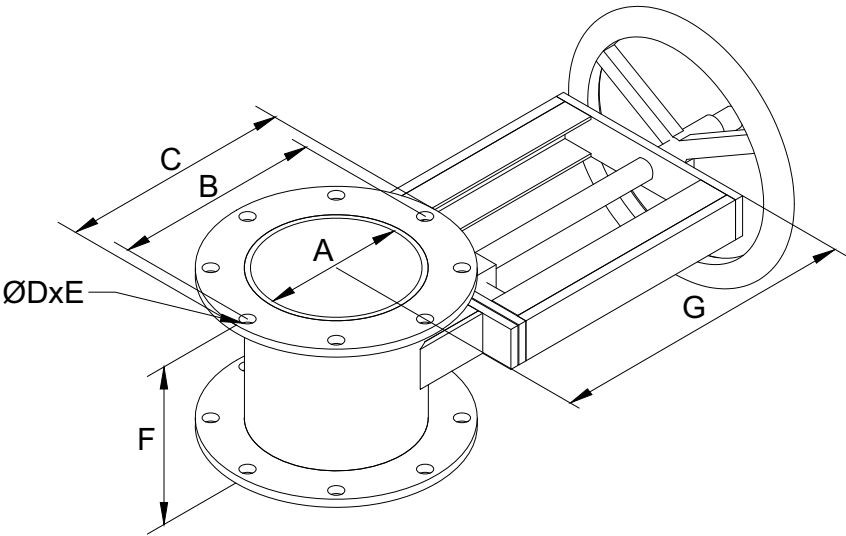
model - SSG



Model	A	B	C	Ø D	E	F	G
SSG 100	100	140	160	10	4	150	300
SSG 125	125	165	185	14	4	150	350
SSG 150	150	190	220	14	8	150	375
SSG 200	200	240	275	14	12	150	450
SSG 250	250	290	325	14	16	150	525
SSG 300	300	340	388	14	16	175	600
SSG 350	350	390	438	14	16	175	650
SSG 400	400	440	500	18	16	175	750
SSG 450	450	490	550	18	20	175	800
SSG 500	500	540	612	18	20	200	900
SSG 600	600	640	700	18	20	200	1050
SSG 700	700	740	800	21	20	200	1200



model - RSG



Model	A	B	C	D	E	F	G
RSG 100	100	190.5	229	19	8	150	400
RSG 150	150	241.5	279.5	22	8	150	450
RSG 200	200	298.5	343	22	8	150	590
RSG 250	250	362	406.5	25.5	12	150	670
RSG 300	300	432	483	25.5	12	200	720
RSG 350	350	476.5	533	29	12	200	770
RSG 400	400	540	597	29	16	200	820
RSG 450	450	578	635	32	16	200	870
RSG 500	500	635	698.5	32	20	200	950
RSG 550	550	692.5	749.5	35	20	200	1020
RSG 600	600	750	813	35	20	200	1070

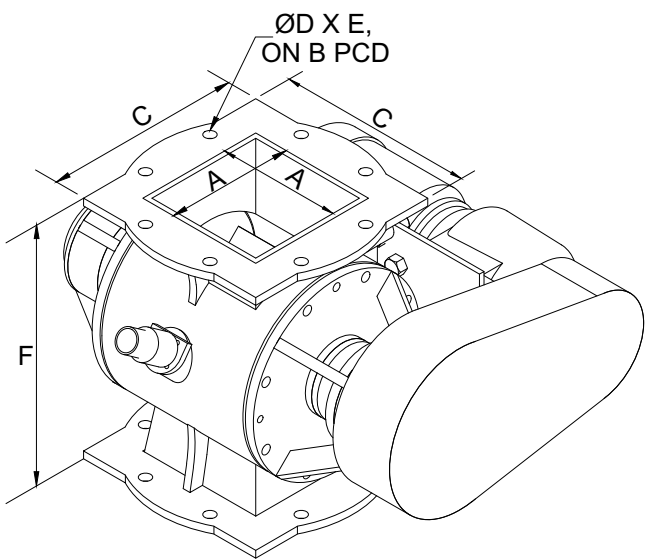
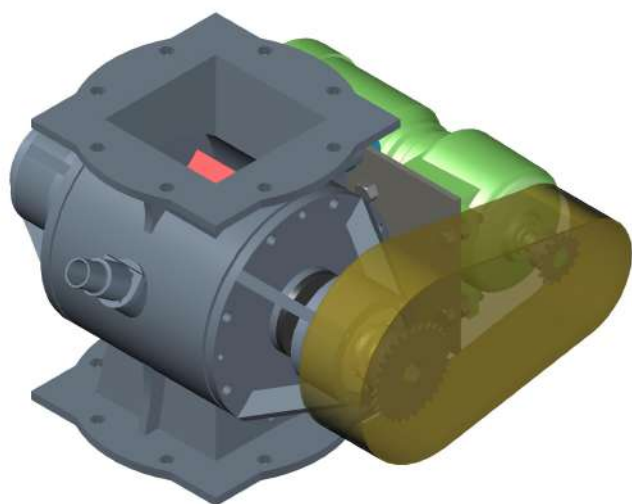


rotary airlock valve

- ▶ rotary valves are essential in many bulk conveying and feeding applications and perform a number of functions.
- ▶ when a product moves from one part of a system or vessel to another, whether this be gravity-fed, under vacuum, or by pressure for filtration, it is vital to retain control over the process and rotary valves can:
 - minimise pressure or air loss
 - provide metering and volume control
 - regulate feed rate
 - act as a flame or explosion barrier
- ▶ rotary valves can increase production efficiency, decrease waste, and protect product from what can often be harsh processing conditions.
- ▶ 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 and sleeve type 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.



model - SRS & SRH

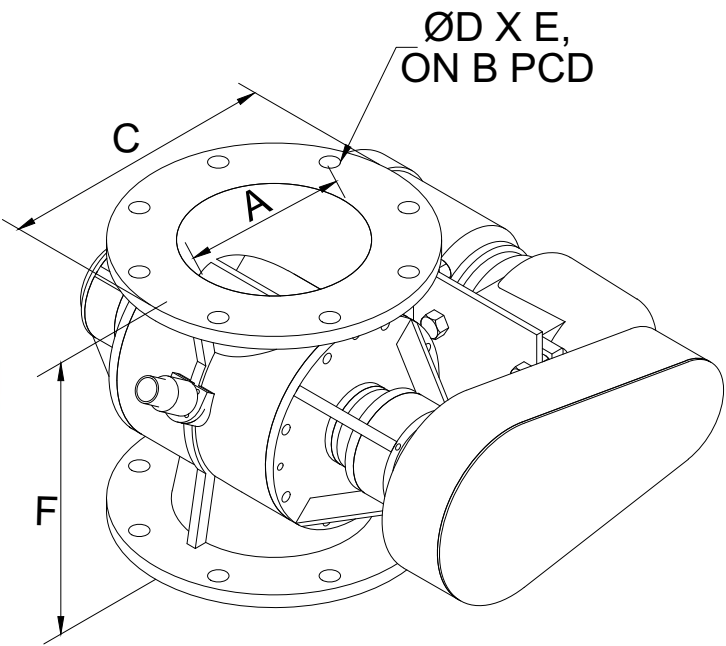
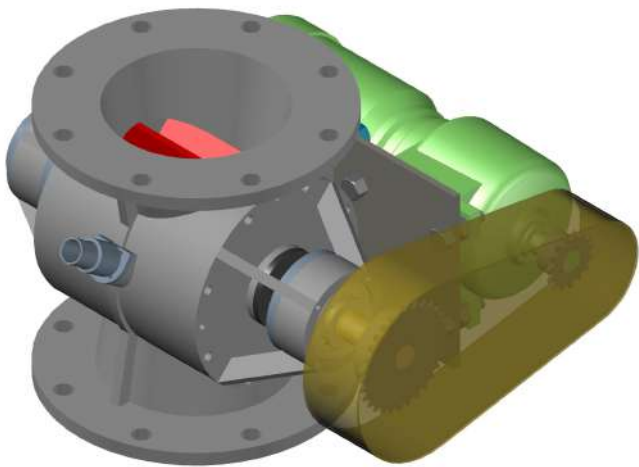


MODEL	V. CAP (Ltr/Rev)	A X A	B	C	D	E	F
SRS 150	1.8	150	241	230	14	8	252
SRS 200	3.8	200	298	300	14	8	300
SRS 250	7.35	250	362	360	14	12	400
SRS 300	17	300	432	425	14	12	445

MODEL	V. CAP (Ltr/Rev)	A X A	B	C	D	E	F
SRH 100	1.8	100	190.5	200	12	8	250
SRH 150	3.8	150	241	230	14	8	300
SRH 200	7.35	200	298	300	14	8	370
SRH 250	17	250	362	360	14	12	445
SRH 300	32	300	432	425	14	12	530



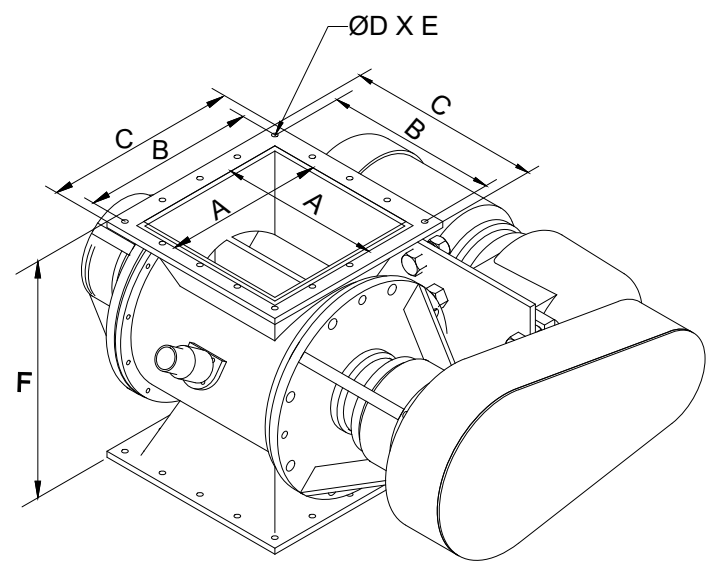
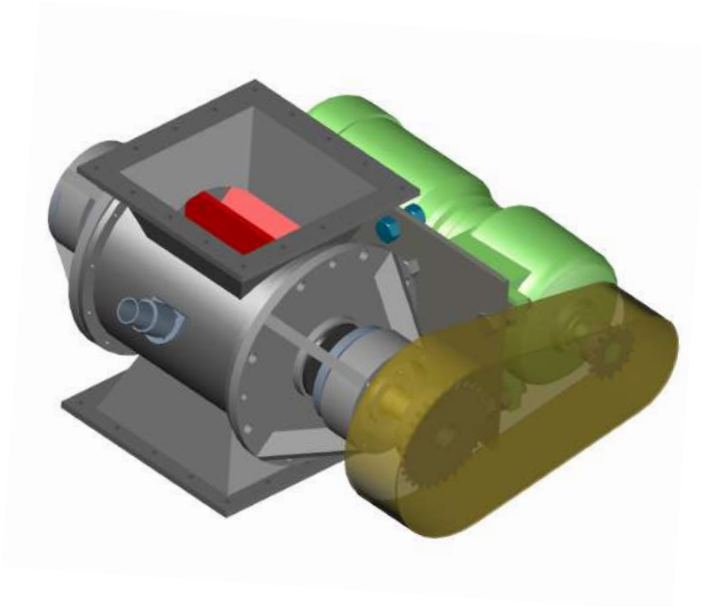
model - RRS



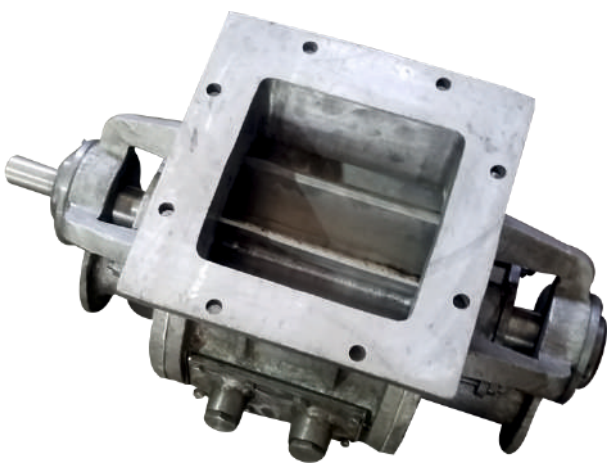
MODEL	V. CAP (Ltr/Rev)	A	B	C	D	E	F
RRS 150	2.8	150	241.5	270	22.4	8	260
RRS 200	4	200	298.4	325	22.4	8	340
RRS 250	8.9	250	360	400	25.4	12	400
RRS 300	16.2	300	432	470	25.4	12	500



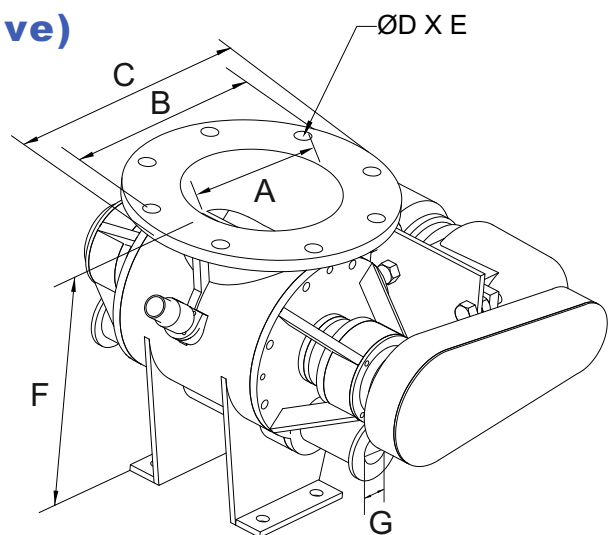
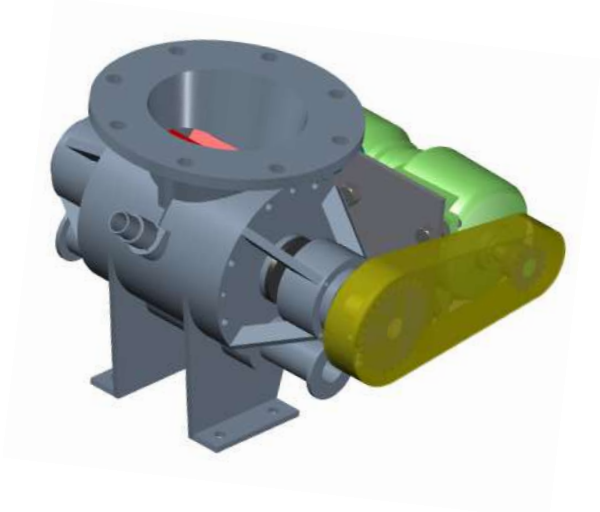
model - SSH



MODEL	V. CAP (Ltr/Rev)	AxA	B	C	D	E	F
SSH 350	45	350	414	470	14	12	550
SSH 400	59	400	480	530	18	16	550
SSH 450	80	450	530	580	18	16	680
SSH 550	121	550	630	680	18	20	730

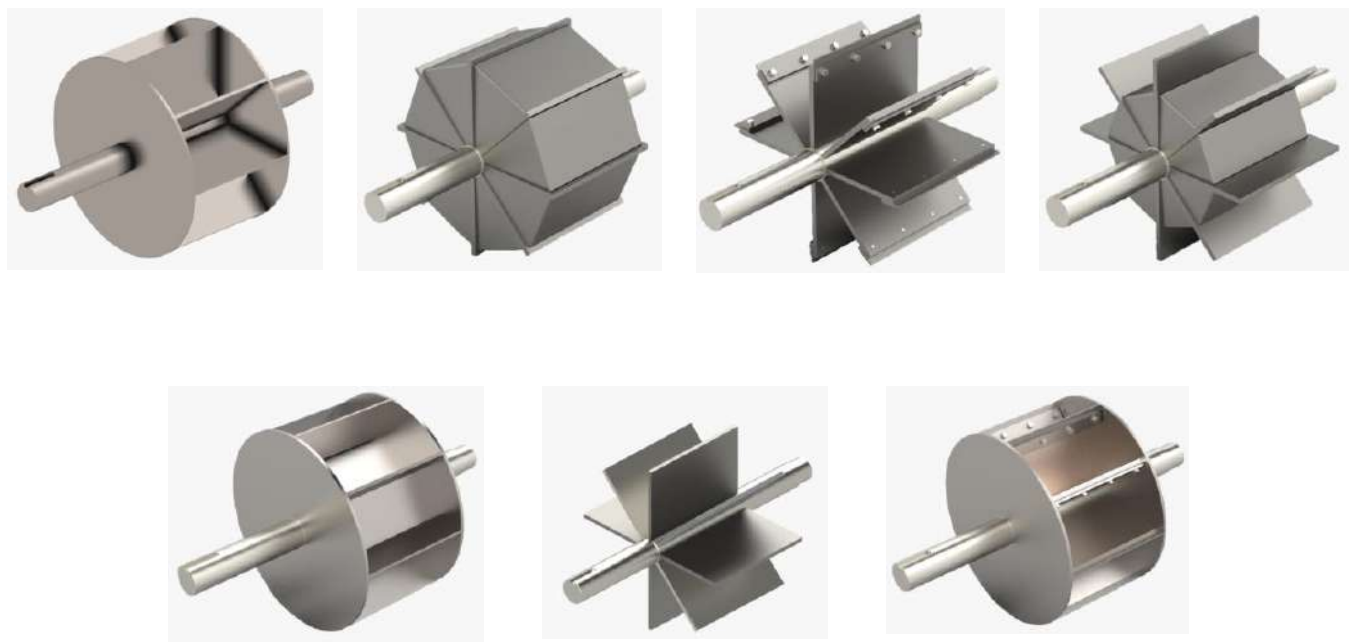


model - RBH (rotary blow through valve)



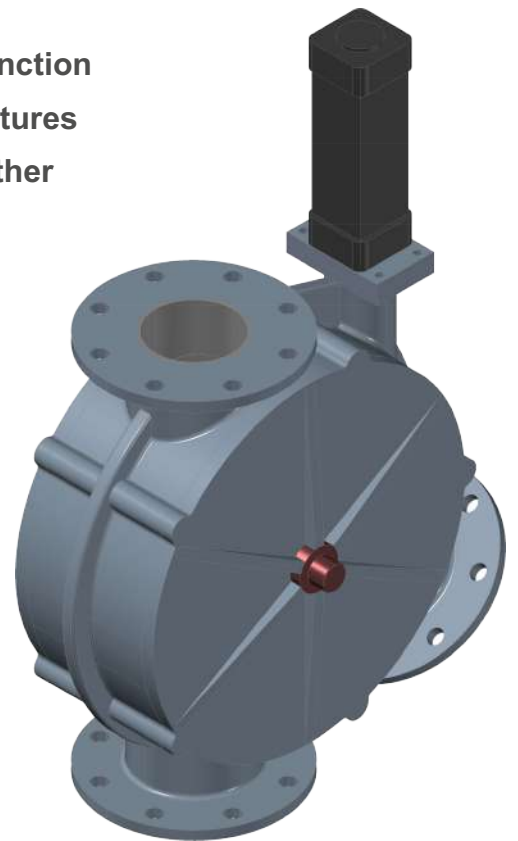
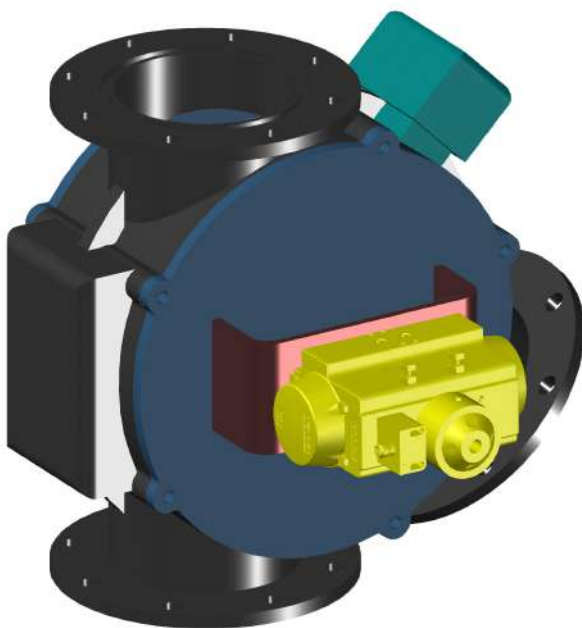
MODEL	V. CAP (Ltr/Rev)	A	B	C	D	E	F	G
RBH 150	3.8	150	206	235	14	8	340	80
RBH 200	7.35	200	265	300	14	8	450	100
RBH 250	17	250	315	345	14	12	520	125
RBH 300	32	300	432	425	14	12	570	125

TYPE OF ROTOR

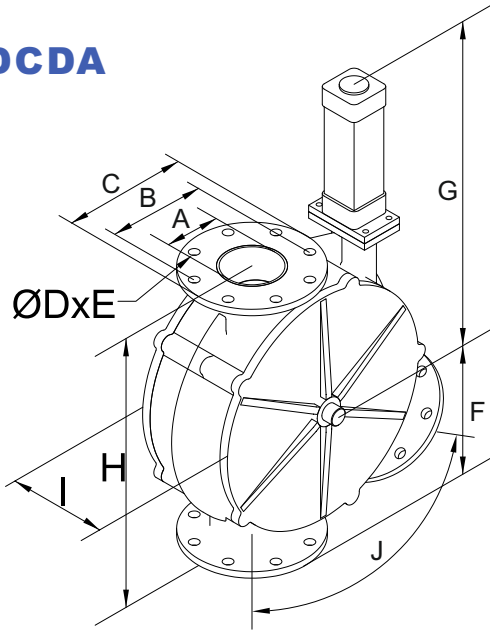


dual channel diverter valve

- ▶ the dual channel diverter valve is suitable being restored in both of high and low pressures pneumatic conveying lines to divert the product. it find applications within all industrial field when both of powder and grain need to be handled, even if the slightly abrasive and high temperature.
- ▶ the dual channel diverter valve consists of an aluminum and stainless-steel housing and end covers which a plug with two pipes is installed. all plugs contact surface are made from stainless steel.
- ▶ the approved silicon rubber seals guarantee the sealing between housing and plug. the body is pressure tight, so ensuring no leakage to atmosphere. the standard diverter can be used in systems with positive pressures up to 2 bar g (static seal) and optionally available for pressure 5 bar g (inflatable seal). mechtech india is supplied with a complete pneumatic control system, including solenoids valve, limit switch or position sensor, junction box. the standard diverter can be used for products temperatures ranging from -25 c° up to 80 c° at ambient temperature. the other versions for higher temperature are available on request.

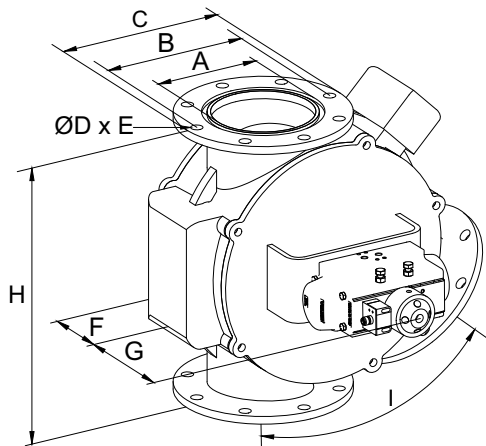


model - DCDA



MODEL	A	B	C	D	E	F	G	H	I	J
DCDA 50	50	125	165	18	4	205	397	410	200	36.7
DCDA 65	65	145	185	18	4	215	490	430	215	36.7
DCDA 80	80	152	190	18	4	240	452	480	230	35
DCDA 100	100	180	228	18	8	270	508	540	260	35
DCDA 125	128	210	250	18	8	335	630	670	300	38.8
DCDA 150	150	240	285	22	8	375	670	750	367	38.8
DCDA 200	210	295	343	22	8	500	896	1000	481	34.8

model - DCDB

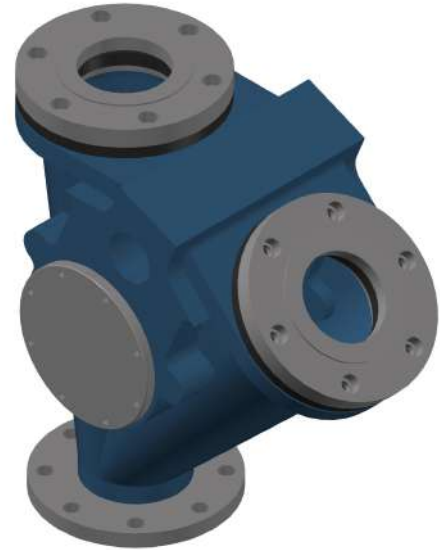


MODEL	A	B	C	D	E	F	G	H	I
DCDB 65	65	140	178	19	4	66	265	430	36.5
DCDB 80	80	152.4	190	19	4	71.5	270.5	480	36.5
DCDB 100	100	190.5	229	19	8	92.5	291.5	540	36.5
DCDB 125	125	216	254	22	8	108	307	640	36.5

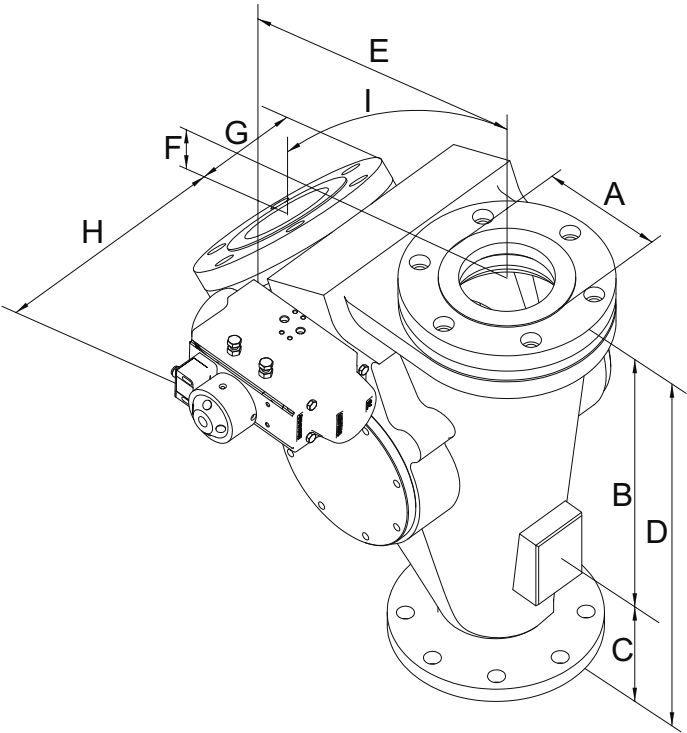


plug type diverter valve

- ▶ the plug type diverter valve is two-way diverter valve built into pneumatic conveying systems to meet the needs of any industrial field.
- ▶ it is particularly suitable for the handling of abrasive powders and at high temperatures and within pressure pneumatic conveying lines.
- ▶ a plug with the appropriate sealing gaskets is rooted by a pneumatic actuator to close those ways which are not involved with the product pneumatic conveyance.
- ▶ they are constructed in way so the pneumatic conveying pressure conveying pressure to future thrust the plug in its seal, thus ensuring the maximum tightness also, this equipment allows the replacement of its sealing gaskets by operating through two services side flanges, with no need to disassemble the diverter from its side..
- ▶ **moc- cast iron, wcb body**
 - flanges with anti-wear ring
 - plug with sealing gaskets supporting bushing with greases seals
 - 180 degree pneumatic actuator with double coil solenoid valve 24 vdc or 230 volt, limit switch for positioning and pre-wired junction box.



model - PD

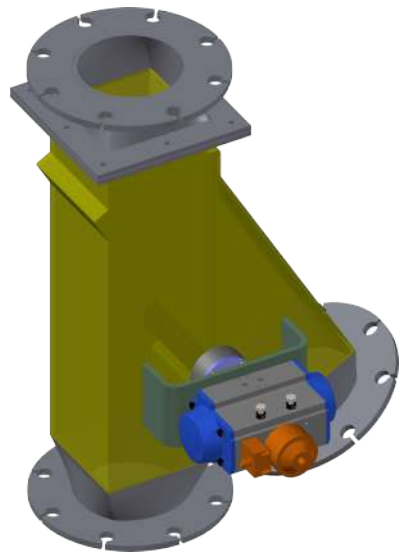
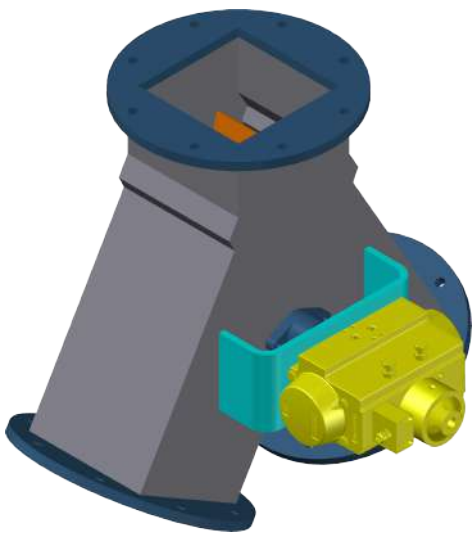


Model	A	B	C	D	E	F	G	H	I
PD 65	65	470	90	560	235	63	116	355	30
PD 80	80	380	140	520	245	89	121	360	40
PD 100	100	405	175	580	260	318	136	385	40
PD 125	125	495	220	715	318	360	156	415	40
PD 150	150	560	240	800	360	131	166	440	40
PD 200	200	640	160	800	411	150	191	465	40
PD 250	250	680	170	850	437	160	260	570	40
PD 400	400	950	250	1200	612	222	345	710	40

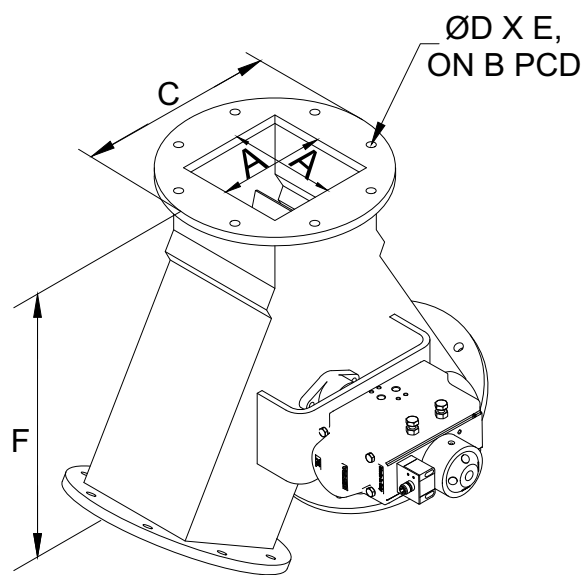


Gravity Diverter Valve

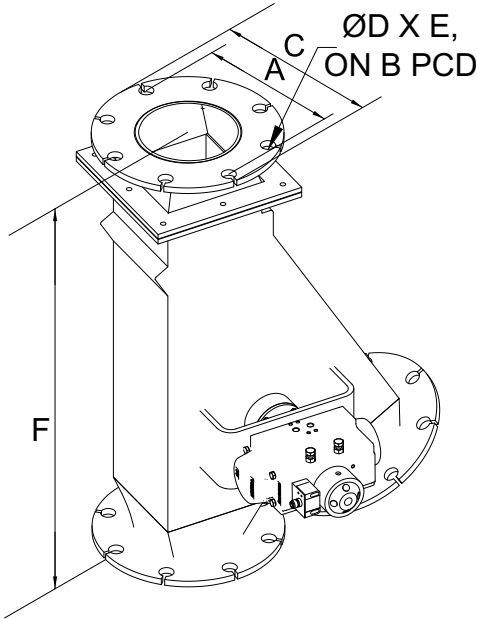
- ▶ For dry Gravity flow applications providing a seal to the atmosphere.
- ▶ Silicon Rubber Seal prevent cross contamination.
- ▶ MOC- Stainless steel, carbon steel available
- ▶ Standard square inlets and outlet.
- ▶ Square to round transition also available.
- ▶ Size ranges from 4" to 30" "Y" and "ST" Type available designs.
- ▶ Minimum leakages and easily maintenance free Valve.
- ▶ Removable Door option available in big size valve.
- ▶ Standard Drive Accessories Pneumatic actuator, solenoid valve- double acting 24 vdc, 230 volt, Limit switch for positions and Pre-wired Junction Box.
- ▶ Electric and Hand lever actuation available.



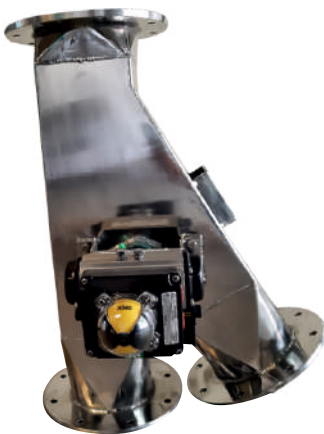
model - Y Type GDV



model - ST Type GDV



Model	Model	AxA	B	C	D	E	F
GDY 150	GDST 150	150	241.5	279.5	22	8	350
GDY 200	GDST 200	200	298.5	343	22	8	410
GDY 250	GDST 250	250	362	406.5	25.5	12	460
GDY 300	GDST 300	300	432	483	25.5	12	525
GDY 350	GDST 350	350	476.5	533	29	12	590
GDY 400	GDST 400	400	540	597	29	16	640
GDY 450	GDST 450	450	578	635	32	16	675
GDY 500	GDST 500	500	635	698.5	32	20	725



abrasion solution for elbow

- ▶ longer wear life, reduce downtime, product waste & maintenance costs.
- ▶ available in carbon steel, standard smooth flow elbows size available.

open cavity back elbows

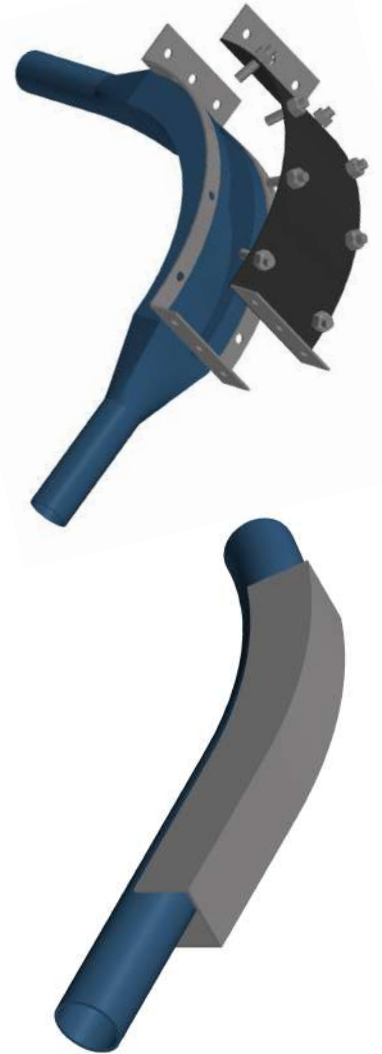
- ▶ option double wall elbow consisting of a standard bent elbow, with an additional backing cavity constructed of 12 gauge carbon steel welded in place. as the product stream wears through the elbow it will fill the back cavity.
- ▶ the product stream will then wear on the material trapped in the cavity instead of on the elbow or backing steel.
use where cross contamination is not an issue as cavity will hold material.

options

- ▶ concrete filled- for additional wear protection.
- ▶ Stainless Steel Construction.

replacement back elbow

- ▶ single wall fully fabricated elbow with square cross section. carbon steel construction with abrasion resistance (ar 400) steel back (replaceable) and (ar100) transitions.
- ▶ use where cross contamination is an issue. the convenience of replacing the back versus the entire elbow offers a very economical and time saving solution. optional – stainless steel construction.



pipe tube & bend

- ▶ **Stainless Steel, Carbon Steel, Aluminum**
- Features :**
- ▶ Long and short radius Elbows for pneumatic conveying and vacuum conveying systems.
- ▶ Internal mandrel bending equipment provides top quality bends from 1.5” up to 6.625” OD (Outside diameter) covering all standard Tube and Pipe sizes.
- ▶ Selected materials specific to the conveying industry provide consistent uniform and durable bends. 90°, 60°, 45°, 30° and 22.5° Elbows are manufactured for fast delivery. Custom offsets and custom bending available.



specification

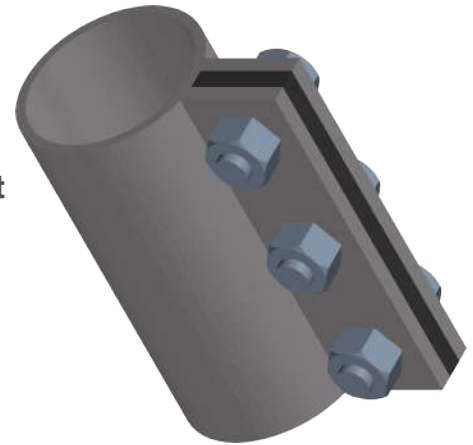
tubing	304/316 A554/ A77B/ A249	6063 T-1 Extruded	6063 T-1 Extruded
pipe	304/316 A312	6063 T-1 Extruded	6063 T-1 Extruded

- ▶ Wall Thickness- 16 ,14, 11 gauges
- ▶ Schedule- 10, 40, 80 (All Specification for reference only
- ▶ ORDER BENDS BY Outside diameter (OD), wall thickness, material degree of bend.
- ▶ Center line radius (CLR)



pipe coupling

- ▶ stainless steel and galvanized shell available.
- ▶ precision cut inner sleeves and gaskets.
- ▶ thick 1/8" black neoprene gasket standard.
- ▶ white silicon & viton gasket available.
- ▶ thick stiffener bars provided added strength replacement gasket available.
- ▶ threaded bolts won't strips or break.
- ▶ all are brass bolt in stainless steel coupling.
- ▶ stainless steel couplings are standard mirror finish.



neoprene - our standard black gasket for mechtech india coupling is perfect for most dry bulk conveying applications. result rotting and cracking from exposure to ozone.
temperature range (-40° to + 100° c)

white nitrile - excellent gasket for use in the food industry. manufactured of high quality ingredients.
(-40° to + 100° c)

silicon - for use in higher temperature applications. silicone is odorless, tasteless.
nontoxic and noncorrosive, available for all mechtech india products (-50° to + 230° c)
vition- as per customer special request.

light duty coupling

MODEL	Length
40	100
50	100
60	100
70	100
80	100
100	100



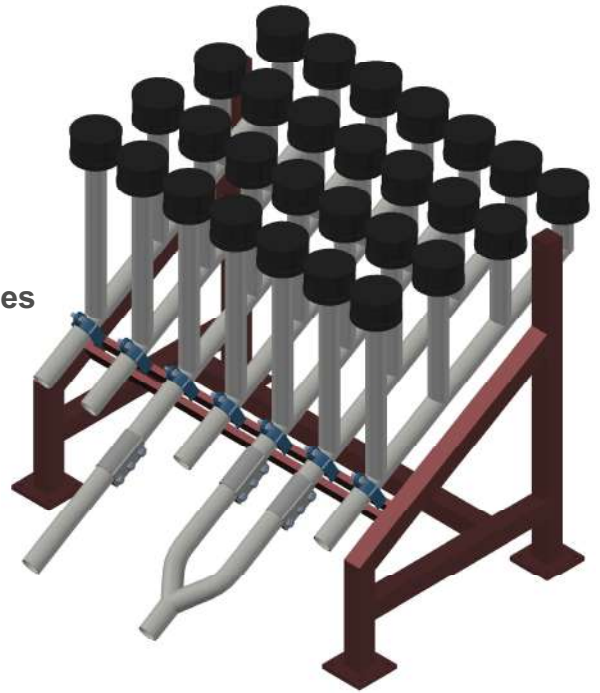
heavy duty coupling

MODEL	Length
60	150
80	150
100	150
114	150
125	150
150	150



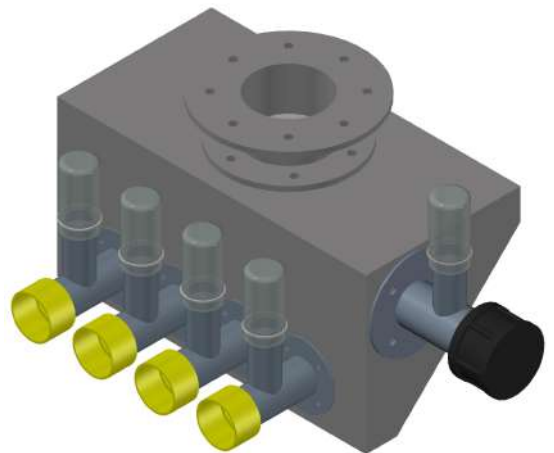
coupling station

- ▶ open concept
- ▶ stainless steel or aluminum
- ▶ stand is carbon steel with painted
- ▶ mounting channel allow for horizontal alignments of fan tail coupling modules with incoming / outgoing lines
- ▶ elbow to bring inlet parallel with floor
- ▶ bolted coupling
- ▶ optional, mounting tables
- ▶ optional, abrasion resistant options



suction box

- ▶ For installation below a silo to allow a direct routing of conveying lines. Multiple outlets upon request.
- ▶ Stainless steel or aluminum construction.



storz coupling

- ▶ Both halves of the coupling are of an identical design with no separate male or female halves. Either half can, therefore, be connected to any similar size of coupling.
- ▶ The hose coupling can be connected to another style, eg. Hose tail, female or male threaded and blanking caps. It is essential that the distance between locking ears (KA) is the same on all fittings.

camlock coupling

- ▶ any adapter (male) may be coupled with any coupler (female) of the same size. this provides maximum flexibility in setting up the most convenient and efficient quick coupling system needed for the job.
- ▶ adaptors and couplers are available with either male or female bsp thread or hose shank connections.
- ▶ each part carries a letter prefix which designates whether it is an adaptor or a coupler and whether it is threaded male or female or hose shank.
- ▶ the letter systems are standard in the Industry and facilitates proper identification come the basic parts available.



Cyclones

High Efficiency - Powder And Fine Materials

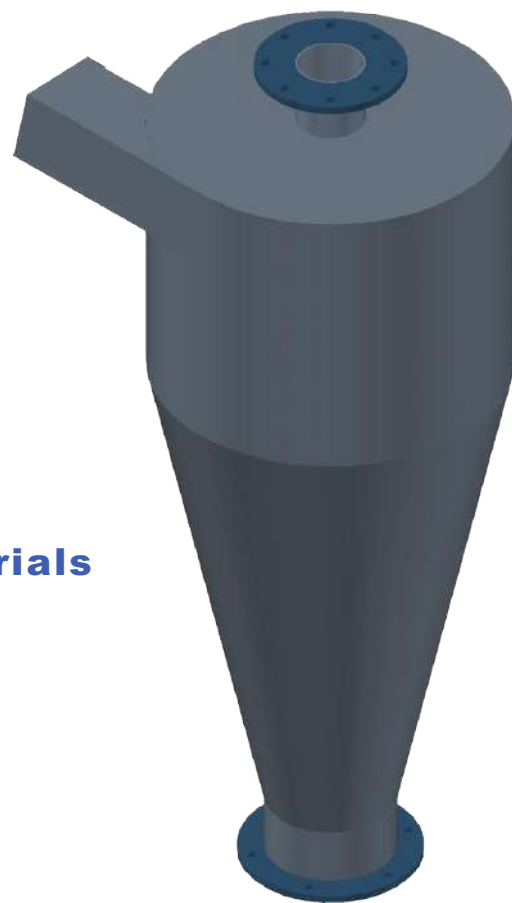
- ▶ stainless steel, carbon steel and aluminum construction
- ▶ from 200 cfm to 3400 cfm
- ▶ standard sizes available from 12" to 41"
- ▶ scrolled inlet/outlet minimizes wear
- ▶ standard mounting bracket
- ▶ less turbulence less resistance
- ▶ optional 3-piece construction for easy cleaning
- ▶ standard clock wise rotation

Normal Efficiency-pellets And Large Materials

- ▶ stainless steel, carbon steel or aluminum construction
- ▶ from 200 cfm to 3400 cfm
- ▶ standard mounting bracket
- ▶ top outlet can be piped outside or dust collection
- ▶ standard clockwise rotation

Options

- ▶ counter clockwise inlet/outlet
- ▶ access/ cleanout doors
- ▶ multiple inlets
- ▶ plain end & flanged inlets/outlet
- ▶ rounding tops (he)
- ▶ custom sizes available

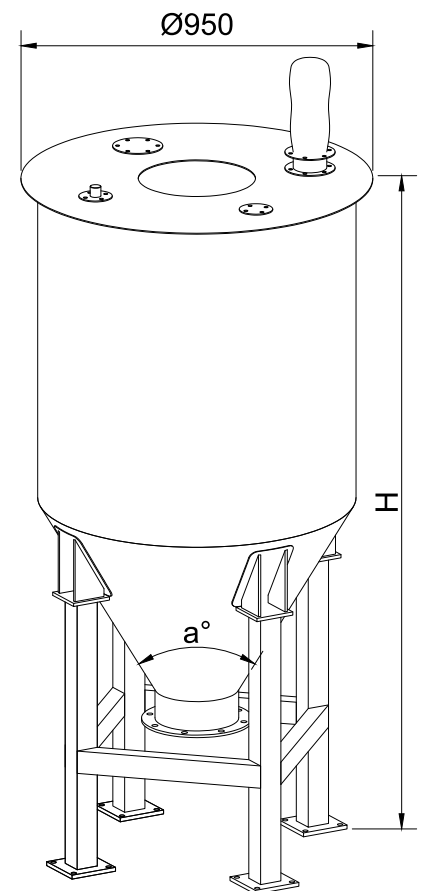
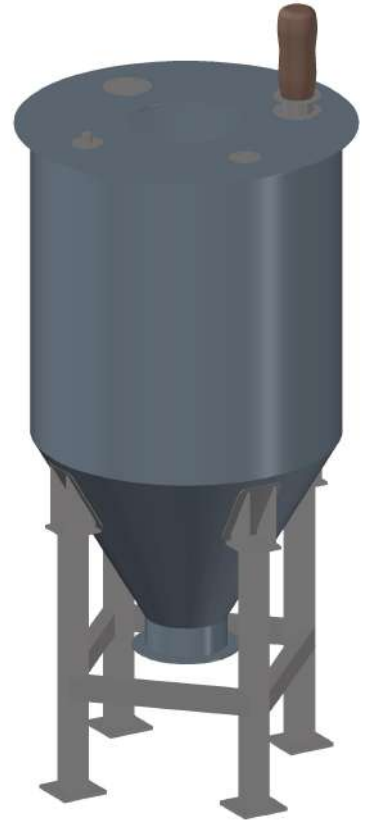


daybin

- ▶ bin made by stainless steel; feet made of mild steel with powder coating
- ▶ inlet: dia. 400mm, bcd 426, 8 x m6
- ▶ outlet pipe flanges 203 dia. with flanges- 215 dia.
- ▶ 1 x bag filter connection on the roof
- ▶ 1 x additional opening for leakage air connections (closed)
- ▶ 1 x sight glass in the shell

accessories for day bin

- ▶ bag filter on roof
- ▶ vibration limit switch
- ▶ cyclone separator
- ▶ adapter plate for cyclone or vacuum conveyor
- ▶ rotary valve connections
- ▶ suction box connection
- ▶ piping

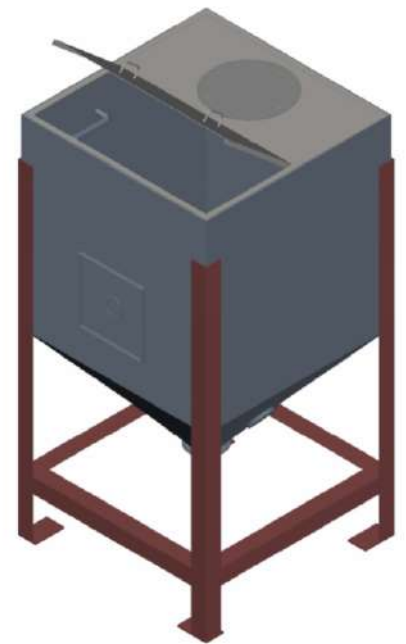


liters	height	cone degree
5951	1570	90
6751	1850	60
10801	2260	90
11601	2540	60
15651	2950	90
16451	3230	60



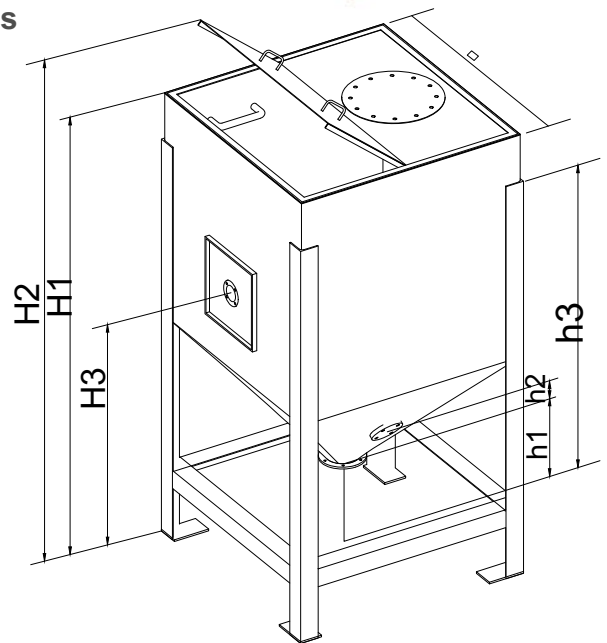
Container Accessories

- ▶ stainless steel grid
- ▶ pneumatic spring for cover; fixing point at the sides of the cover
- ▶ suction box and suction pipe
- ▶ slide valve
- ▶ sleeve with plates
- ▶ swiveling arm
- ▶ roller up to 750 liters; 2 fixed rollers and 2 lockable guide rollers
- ▶ forklift skid set in mild steel construction
- ▶ weighing system (load cell) for container.
- ▶ adapter plates for container connection & vacuum conveyor
- ▶ stackable container according to customer specifications



Container A1 Dimensions

Volume	Square	H1	H2	H1	H2	H2
300	800 x 1000	890	1325	200	270	90
400	1000	920	1355	200	322	90
500	1000	1005	1440	200	322	90
500	1200	960	1495	200	392	90
750	1200	1110	1645	200	392	90



Container A1 Dimensions

Volume	Square	H1	H2	H3	H1	H2	H3	Degree
1000	1200	1510	2045	1170	400	392	1255	90
1500	1200	1860	2395	1170	400	392	1605	90
2000	1200	2210	2745	1170	400	392	1955	90
2000	1500	1800	2335	1320	400	498	1445	90
2500	1500	2020	2555	1320	400	498	1665	90
3000	1500	2270	2805	1320	400	498	1915	90
4000	1500	2720	3255	1320	400	498	2365	90
4800	1500	3070	3605	1320	400	498	2715	90



25kg bag opening machine

- ▶ 25kg Bag Opening Machine is used for slitting and emptying of single or multiple layer bags made from paper, poly-ethylene, poly-ethylene lined paper, interwoven plastic, or poly-ethylene-lined interwoven plastic.
- ▶ The 25kg Bag opening Machine is made up of a splitting unit which consists of a trough that encloses an extra heavy-duty splitting Cutter Unit, complete with an appropriate gear motor and a screening unit that consists of a horizontal, cylindrically shaped rotating screen, Bag Transfer Conveyor complete with drive unit. On top of the screening unit a suitable fan-operated dust collector can be integrated for powder material.
- ▶ material: carbon steel, 304L / 316L stainless steel
- ▶ compact, robust design
- ▶ available with dust collector or equipped for centralised de-dusting system
- ▶ machine consists of a small number of components (only few spare parts required)
- ▶ easy access to all machine parts - low operating noise level
- ▶ easy and quick replacement of filter elements
- ▶ able to handle bags of different sizes without machine adjustment
- ▶ low product residue
- ▶ the system can be supplied in modular form.
- ▶ capacity up to 20 tph - reduce labour cost
- ▶ totally dust free operation.
- ▶ easy handling of empty bags. (provided bag compactor)
- ▶ space required - 9.5m x 1.5m x 4.2m - power requirement – 16.10 hp approx.
(sequence operation). (with conveyor/machine proper/de system/empty bag compactor).





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