

Roto-Disc[®]

Heavy-Duty Spherical Valves



When All Else Fails

Roto-Disc Valves

Want to solve a troublesome valve installation once-and-for-all?

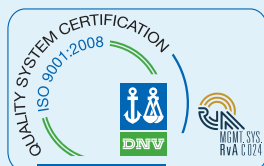
Roto-Disc, Inc. has been making valves, airlocks and diverters for difficult dry and slurry material handling applications since 1984. Our valves are designed specifically for dry material and overcome the natural weaknesses of other valve styles while handling even the most difficult applications. With thousands of successful installations handling hundreds of types of materials, you can trust that Roto-Disc will solve your valve problems.

General Capabilities

- Mechanical & Electro-polishing
- Thermal Regulation with Water-cooling
- Special Flange Drilling
- Large Valve Design
- Valve Repair (retrofit)
- Clean-In-Place (CIP)
- Roto-molding
- Throttling/Dribble-feeding

ISO 9001:2008 Certified:
#107170-2011-AQ-USA-RvA

Roto-Disc



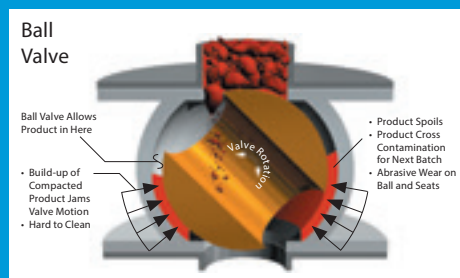
Typical Applications

Manufacturer Type	Material	Application
General Chemical	Potassium Tantalum	Isolation Valve
General Chemical	Silica Gel	Dense Phase Pneumatic Conveying
General Chemical	Hydro Bromine Salts	Line Shut-off
General Chemical	Zinc Stearate	Reactor Fill/Shut-off
General Chemical	TiO2	Silo Discharge
Alternative Energy	Crumb Rubber	Lock-hopper Valves
Diversified Food	Cake Frosting	Mixer Discharge
Diversified Food	Maltodextrin	Control Valve
Major Pharmaceutical	Pharmaceutical Powder	Vacuum Dryer Discharge
Major Pharmaceutical	Pharmaceutical Powder	Centrifuge Discharge
Biofuels	Rapeseed (Canola)	Gasification
Aggregate & Mining	Aluminum Silicate Powder	Silo Discharge
Agricultural Processor	Poultry Biocide	Nauta Mixer Discharge
Agricultural Processor	Corn Gluten	Weigh Bin Fill
Batteries	Magnesium Dioxide	L.I.W. Feeder Refill
Bio-pharmaceutical	Dried Milk Formula	Air Lock (Double-dump)
Coal Fired Power Plant	Hot Fly Ash	Bag House Discharge
Flavorings & Spices	Powdered Flavoring	Mixer Discharge
Flavorings & Spices	Salt & Seasoning	Ribbon Blender Discharge
Petrochemical	Catalyst	Reactor Fill/Shut-off
Petrochemical	Polyester Chips	Reactor Fill/Shut-off
Petrochemical	Plastic Pellets	L.I.W. Feeder Refill
Glass Products	Glass Batch	Hopper Discharge
Hazardous Materials Recycling	Broken Glass	Roaster Inlet & Discharge
Plastic Pellet/Resin	ABS Powder & Pellets	Box Filling
Nuclear Fuel Reprocessing	Uranium Pellets	Air Lock (Double-dump)
Nuclear Waste Processing & Disposal	Uranium Oxide Powder	Air Lock (Double-dump)
Oil Field Services	Deep-sea Drill Cuttings	Dense-phase Conveying
Pigments	Color Pigments	Nauta Mixer Discharge
Specialty Chemical	Ceramic Balls	Air Lock (Double-dump)
Specialty Chemical	Sulfamic Acid	Reactor Fill/Shut-off
Powdered Metals	Metallic Brake Shoe Fibers	Mixer Discharge
Powdered Metals	Titanium Sponge	Air Lock (Double-dump)
Original Equipment Manufacturer	Activated Carbon & Polymers	Mixer Discharge
Original Equipment Manufacturer	Cigarette Additive	L.I.W. Feeder Refill
Pet Food	Cat Food	Hopper Shut-off

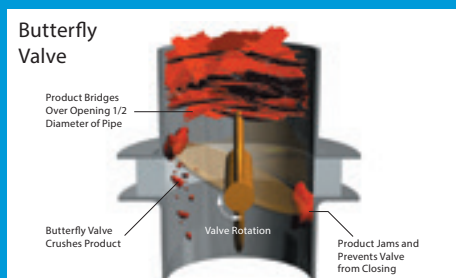
All Roto-Disc valves are designed and manufactured exclusively in the U.S.A.

In Comparison

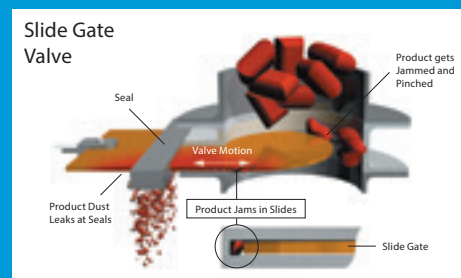
Troublesome valve installations can cause "off spec" product, require constant maintenance and restrict production time. Other valve styles, some of them originally designed for liquid handling, have shortcomings, as shown below.



▲ Ball valves were developed over a century ago for liquids and gasses. They are heavy and take up a lot of headroom. More importantly they have a dead space between the casting and ball that can fill and pack with product causing abrasive wear on the seals and ball or causing cross contamination/spoilage between batches.



▲ Butterfly valves have a vane in the center of the flow stream that can cause bridging and obstruct product flow. Since the seat and the vane are exposed they can wear quickly, making them unable to seal.



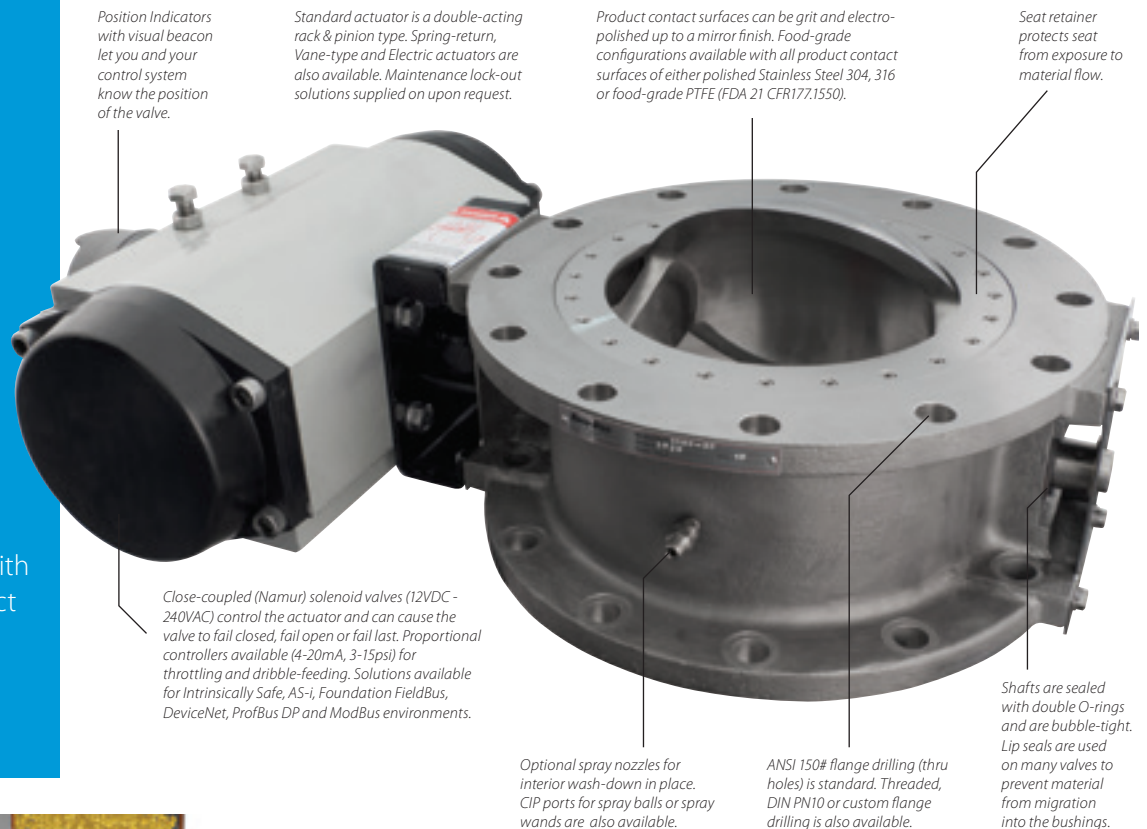
▲ Slide gate valves can pinch and/or cut product, jamming the valve so it won't close completely. The linear motion of the valve can drag material across the seal, causing wear and allowing product to leak out thru the sliding seal.

Roto-Disc

Heavy-Duty Spherical Valve

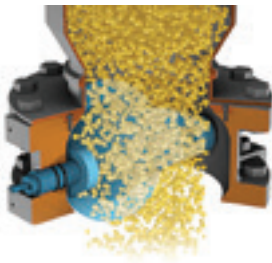
What's New

- Direct-Drive System with no taper/shear pins
- Standard actuators with more torque
- High-strength shafts
- More robust bracketry
- New generation of seat reinforcing materials for maximum wear resistance, corrosion resistance and stability at high temperatures
- Stainless steel bushings with lip seals to prevent product migration into bushings
- Lock-out solutions
- Pellet bevel modification



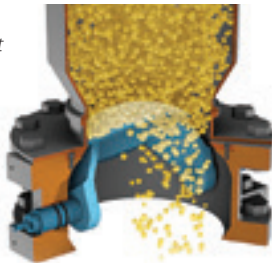
Roto-Disc totally open:

Material falls unobstructed through the inlet opening. Nothing is in the flow stream to cause product bridging, so you get the full flow capacity of the valve. Notice that the sealing surfaces are protected from direct contact with material.



Roto-Disc closing:

As the valve begins to rotate closed, the dome wipes against the seat, cutting off the flow of product and pushing material above or below the valve instead of wedging it between the dome and seat. The design naturally resists abrasive wear and there are no pinch points or places for material to hang-up.



Roto-Disc fully closed:

Closure is clean and the valve is fully seated. The dome and seat form a positive seal that eliminates leakage across the seat. Double O-rings prevent leakage through the stems.



Seat replacement is a cinch – just take off the seat retainer and drop in a new seat. No shaft adjustment or alignment, no counter-rotating bushings – NO HASSLE!

Sticky, gummy, abrasive substances, powders, pellets, granules, chips – almost anything that runs through a process line can be handled by this valve.

If you can't afford to spend time looking for replacements or have your valves out of service for repair, you need a Roto-Disc. It could end your valve headaches forever!

Direct-Drive

- Direct-drive system eliminates taper/shear pins both inside and outside the valve. Square shaft ends and dome holes are machined to exacting tolerances and ground by hand to provide a perfect slip-fit that won't allow the actuator and dome to become decoupled.



Materials of Construction

Body & Dome: Stainless Steel (316, 304, Duplex), Carbon Steel (4140, WCB, A36), Ductile Iron, Aluminum, Hastelloy, Monel, Aluminum Bronze, (Other alloys upon request)

Soft Seats: Stainless Steel Reinforced PTFE, Glass Reinforced PTFE, PEEK, Nylon, Modified TFM, PFA, UHMW

Metal Seats: Stainless Steel (316, 304), Abrasion Resistant Steel (AR400), Bronze, Other alloys

Coatings & Hardfacings:

Electroless Nickel, Tungsten Carbide, Hard Chrome, Teflon® PFA

► Roto-Disc valve with Hand Wheel Operator. Lever operator with position locks also available.



Pressures Range*: Full vacuum to 150psig below valve. Full vacuum to 25psig above valve.
Temperature Range*: -40°F – 1200°F (-40°C – 650°C).

* Pressure and temperature limits of an individual valve depend on a variety of application conditions and materials of construction of the valve.

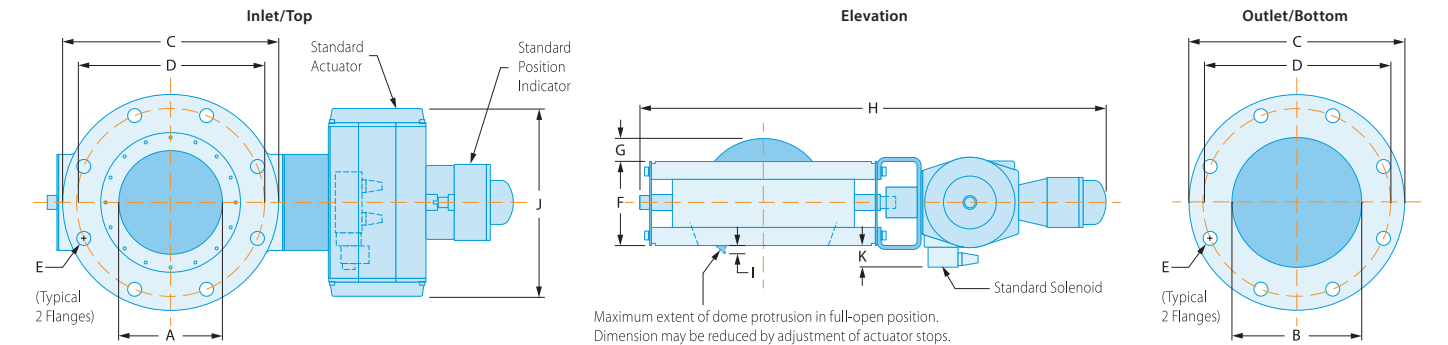
► Valves with thermal regulation feature



► 20" Roto-Disc valve for 850°F service



Roto-Disc Valve with Standard Controls & Standard Flange Arrangement



* Standard Valve Dimensions – IN. (mm)

Valve Size	Standard Flange Size	Optional Flange Size	A	B	C	D	E # Holes x Hole Dia.	F	G	H	I	J	K	Weight in S.S. or Carbon Steel w/ Standard Controls LBs. (Kg)	Typical Torque Inch-LB. (nm)	**Max. Rec. Torque Inch-LB. (nm)
3	4" 150# ANSI	3" 150# ANSI	3.38 (86)	4.25 (108)	9.00 (229)	7.50 (191)	8 x 0.75 (8 x 19)	4.00 (102)	0.44 (11)	22.81 (579)	0.00 (0)	10.25 (260)	1.48 (37)	55 (25)	1,098 (125)	1,930 (218)
4	6" 150# ANSI	4" 150# ANSI	4.38 (111)	6.12 (156)	11.00 (279)	9.50 (241)	8 x 0.88 (8 x 22)	4.00 (102)	0.72 (18)	25.44 (646)	1.00 (25)	10.55 (268)	2.03 (52)	70 (32)	1,609 (182)	1,930 (218)
6	8" 150# ANSI	6" 150# ANSI	6.5 (165)	8.12 (206)	13.50 (343)	11.75 (298)	8 x 0.88 (8 x 22)	5.25 (133)	1.44 (37)	29.13 (740)	1.23 (31)	11.73 (298)	1.36 (34)	112 (51)	2,442 (276)	4,200 (475)
8	10" 150# ANSI	8" 150# ANSI	8.50 (216)	10.25 (260)	16.00 (406)	14.25 (362)	12 x 1.00 (12 x 25)	6.25 (159)	1.75 (44)	32.34 (822)	2.62 (67)	15.35 (390)	1.78 (45)	163 (74)	4,162 (470)	12,200 (1,378)
10	12" 150# ANSI	10" 150# ANSI	10.50 (267)	12.25 (311)	19.00 (483)	17.00 (432)	12 x 1.00 (12 x 25)	8.00 (203)	2.39 (61)	35.95 (913)	2.68 (68)	18.03 (458)	0.10 (24)	241 (110)	6,474 (732)	12,200 (1,378)
12	16" 150# ANSI	12" 150# ANSI	12.50 (318)	15.75 (400)	23.50 (597)	21.25 (540)	16 x 1.12 (16 x 29)	9.75 (248)	2.52 (64)	42.44 (1,078)	3.59 (91)	20.79 (528)	1.33 (34)	455 (207)	10,358 (1,170)	22,700 (2,265)
14	20" 150# ANSI	14" 150# ANSI	14.50 (368)	22.25 (565)	27.50 (699)	25.00 (635)	20 x 1.25 (20 x 32)	12.38 (314)	2.44 (62)	48.61 (1,235)	5.21 (132)	21.25 (540)	1.55 (39)	533 (242)	12,948 (1,463)	36,000 (4,067)
16	20" 150# ANSI	16" 150# ANSI	16.50 (419)	25.25 (641)	32.00 (813)	29.50 (749)	20 x 1.38 (20 x 35)	14.00 (356)	2.73 (69)	52.88 (1,343)	5.44 (138)	24.02 (610)	1.89 (48)	756 (343)	18,727 (2,116)	37,500 (4,237)
18	26" 150# ANSI	18" 150# ANSI	18.50 (470)	27.00 (686)	34.25 (870)	31.75 (806)	24 x 1.38 (24 x 35)	15.25 (387)	3.10 (79)	56.64 (1,439)	5.97 (152)	28.42 (722)	1.94 (49)	870 (395)	28,466 (3,216)	43,700 (4,937)
20	30" 150# ANSI	20" 150# ANSI	20.50 (521)	31.81 (808)	38.75 (984)	36.00 (914)	28 x 1.38 (28 x 35)	17.25 (438)	3.31 (84)	61.64 (1,566)	7.30 (185)	28.42 (722)	1.89 (48)	1,286 (583)	28,466 (3,216)	62,400 (7,050)
24	36" 150# ANSI	24" 150# ANSI	24.50 (622)	38.00 (965)	46.00 (1,168)	42.75 (1,086)	32 x 1.62 (32 x 41)	21.63 (549)	3.85 (98)	63.81 (1,621)	7.91 (201)	28.83 (732)	0.00 (0)	1,721 (781)	34,006 (3,842)	82,000 (9,265)

* Dimensions based on standard flanges and standard control package. Dimensions vary with flange options and other control packages.

** Maximum recommended torque based on standard shaft material and will vary with other materials.

Lighter Weight Spherical Valve

In A Flash

- Same essential features as the original Roto-Disc® spherical valve
- Lighter weight body design
- Outlet opening and flange match valve size



Materials of Construction

Body & Dome: Stainless Steel (316, 304, Duplex), Carbon Steel (4140, WCB), Hastelloy, Monel, (Other alloys upon request)

Soft Seats: Stainless Steel Reinforced PTFE, Glass Reinforced PTFE, PEEK, Nylon, Modified TFM, PFA, UHMW

Metal Seats: Stainless Steel (316, 304), Abrasion Resistant Steel (AR400), Bronze, Other alloys

Coatings & Hardfacings: Electroless Nickel, Tungsten Carbide, Hard Chrome, Teflon® PFA

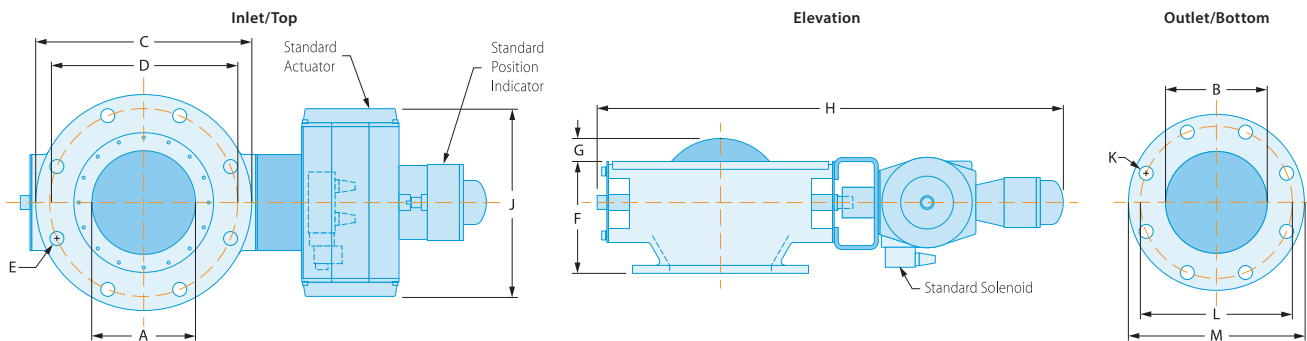
Typical Applications

- Hopper Discharge
- Blender Discharge
- Loss-in-weight Feeders Refill
- Bulk-bag Unloading
- Other Gravity-flow / Low Pressure Applications

Pressures Range[†]: Full vacuum to 50psig below valve. Full vacuum to 10psig above valve.
Temperature Range[†]: -40°F – 1200°F (-40°C – 650°C).

[†] Pressure and temperature limits of an individual valve depend on a variety of application conditions and materials of construction of the valve.

Roto-Disc II Valve with Standard Controls & Standard Flange Arrangement



* Standard Valve Dimensions – IN. (mm)

Valve Size	Standard Inlet Flange Size	Optional Inlet Flange Size	Outlet Flange Size	A	B	C	D	E # Holes x Hole Dia.	F	G	H	J	K	L	M	Weight in S.S. or Carbon Steel w/ Std. Controls LBs. (Kg)	Typical Torque Inch-LB. (nm)	**Max. Rec. Torque Inch-LB. (nm)
3	4" 150# ANSI	3" 150# ANSI	3" 150# ANSI	3.38 (86)	3.26 (83)	9.00 (229)	7.50 (191)	8 x 0.75 (8 x 19)	5.50 (140)	0.44 (11)	22.81 (579)	10.25 (260)	4 X 0.75 (4 X 19)	6.00 (152)	7.50 (191)	50 (23)	1,098 (125)	1,930 (218)
4	6" 150# ANSI	4" 150# ANSI	4" 150# ANSI	4.38 (111)	4.26 (108)	11.00 (279)	9.50 (241)	8 x 0.88 (8 x 22)	5.88 (149)	0.72 (18)	25.44 (646)	10.55 (268)	8 x 0.75 (8 X 19)	7.50 (190)	9.00 (229)	66 (30)	1,609 (182)	1,930 (218)
6	8" 150# ANSI	6" 150# ANSI	6" 150# ANSI	6.5 (165)	6.36 (161)	13.50 (343)	11.75 (298)	8 x 0.88 (8 x 22)	7.00 (178)	1.44 (37)	29.13 (740)	11.73 (298)	8 X 0.88 (8 X 22)	9.50 (241)	11.00 (279)	96 (43)	2,442 (276)	4,200 (475)
8	10" 150# ANSI	8" 150# ANSI	8" 150# ANSI	8.50 (216)	8.33 (212)	16.00 (406)	14.25 (362)	12 x 1.00 (12 x 25)	9.00 (229)	1.75 (44)	32.34 (822)	15.35 (390)	8 X 0.88 (8 X 22)	11.75 (298)	13.50 (343)	138 (63)	4,162 (470)	12,200 (1,378)
10	12" 150# ANSI	10" 150# ANSI	10" 150# ANSI	10.50 (267)	10.42 (265)	19.00 (483)	17.00 (432)	12 x 1.00 (12 x 25)	10.88 (276)	2.39 (61)	35.95 (913)	18.03 (458)	12 X 1.00 (12 X 25)	14.25 (362)	16.00 (406)	209 (95)	6,474 (732)	12,200 (1,378)
12	16" 150# ANSI	12" 150# ANSI	12" 150# ANSI	12.50 (318)	12.39 (315)	23.50 (597)	21.25 (540)	16 x 1.12 (16 x 29)	13.75 (349)	2.52 (64)	42.44 (1,078)	20.79 (528)	12 x 1.00 (12 x 25)	17.00 (432)	19.00 (483)	398 (181)	10,358 (1,170)	22,700 (2,265)

* Dimensions based on standard flanges and standard control package. Dimensions vary with flange options and other control packages.

** Maximum recommended torque based on standard shaft material and will vary with other materials.

Sanitary Spherical Valve

Typical Applications

- Food and Pharmaceutical Powders
- Spices and Flavorings
- Pigments, Dyes
- Semi-conductor / High-purity Silicon
- Any Application Where Frequent Valve Cleaning is Required

Easy-to-Clean and Lightweight

The Roto-Clean® valve incorporates the same, essential features of the Roto-Disc® valve in a sanitary, quick-clean design that disassembles and reassembles, by hand, in just minutes. All product contact surfaces are of FDA compliant materials. If you have to clean your processing equipment frequently and are tired of valves that gum-up, jam or leak, the Roto-Clean may solve your valve problems forever – and save you downtime too!

Roto-Clean Advantage

Like the Roto-Disc, the Roto-Clean wipes itself clean with each cycle while slicing through sticky, gummy material build-up and there are no internal hang-up points for material to collect and spoil. With the option to mate to connecting equipment with sanitary tri-clamps, the Roto-Clean is ideal for any application that requires frequent cleaning of processing equipment. Save time and eliminate hassle with the Roto-Clean.

Body clamp allows the valve to quickly and easily be disassembled and reassembled.

Inlet plate can be supplied with a ferrule or a stub for direct welding to upstream equipment. Flanged, funnel and other modification are also available for the inlets.

Thumb-nuts for easy removal and reassembly of controls.

Optional spray nozzles for interior wash-down in place. CIP ports for spray balls or spray wands are also available.

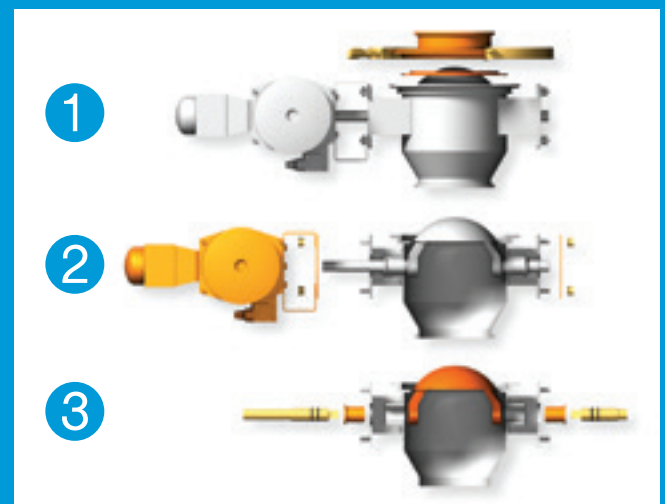
All product contact surfaces are polished Stainless Steel 304, 316 or food-grade PTFE (FDA 21 CFR177.1550).

Outlet can be supplied with various sized ferrules or as a stub with clamp ring for flex connection to downstream mating equipment.

Disassembly in 3 Easy Steps

1. Remove Main Body Clamp and Inlet Plate
2. Unscrew Thumb Nuts and Remove Controls
3. Pull Out Shafts and Remove Dome and Bushings

Presto! No two product contact parts are still together and each can be cleaned and sanitized. Re-assembly is just as easy and in a few minutes, the valve is back in service. Clearances are undisturbed and the controls just slide back on.



Materials of Construction

Body & Dome: Stainless Steel (316, 304),
Other materials available upon request.

Soft Seats: Stainless Steel Reinforced
PTFE, Glass Reinforced PTFE, PEEK,
Nylon, Modified TFM, PFA, UHMW

Metal Seats: Stainless Steel (316,
304), (Other alloys upon request)

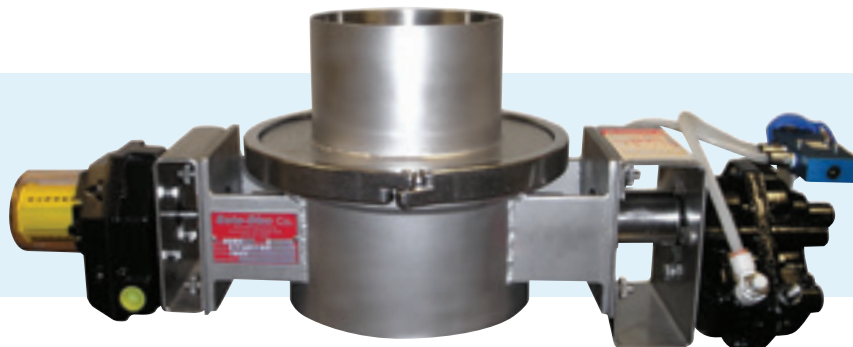
Coatings & Hardfacings:
Electroless Nickel, Tungsten Carbide,
Hard Chrome, Teflon® PFA

Pressures & Temperatures:
*Roto-Clean valves are typically used
in gravity flow or low-pressure/
vacuum applications and at ambient
to slightly elevated temperatures.
Please consult Roto-Disc, Inc. for
Roto-Clean applications at elevated
temperatures or pressures.*

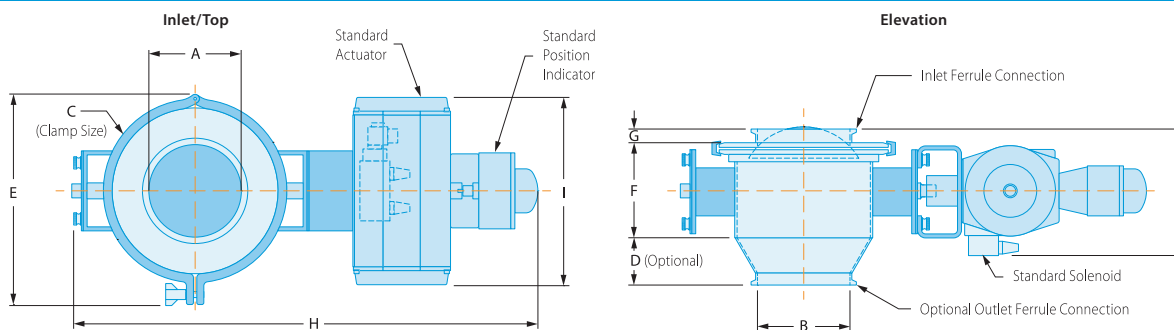


Blender Discharge Configuration

*Roto-Clean valve with weld-stub inlet to be installed on the discharge of
a ribbon blender. Generous stub lengths may be offered so the inlet piece
can be cut and contoured to the curvature of the blender outlet.*



Roto-Clean Valve with Standard Controls & Matching Weld Ferrule Connections



* Standard Valve Dimensions – IN. (mm)

Valve Size	A	B	C	D	E	F	G	H	I	J	Weight w/ Standard Controls LBs. (Kg)	Typical Torque Inch-LB. (nm)	**Max. Rec. Torque Inch-LB. (nm)
2	1.87 (47)	1.87 (47)	4 N/A	1.65 (42)	6.67 (170)	3.57 (91)	1.10 (28)	18.63 (473)	7.62 (193)	5.59 (142)	25 (11)	366 (41)	489 (55)
3	2.87 (73)	2.87 (73)	6 N/A	2.60 (66)	8.88 (225)	4.92 (125)	1.10 (28)	22.94 (583)	10.24 (260)	7.00 (178)	42 (19)	824 (93)	1,098 (125)
4	3.83 (97)	3.83 (97)	8 N/A	2.81 (78)	10.51 (267)	4.92 (125)	1.10 (28)	25.57 (649)	10.55 (268)	7.55 (192)	50 (23)	1,207 (116)	1,609 (182)
6	5.78 (147)	5.78 (147)	10 N/A	3.08 (78)	13.28 (337)	5.94 (151)	1 (25)	29.01 (737)	11.73 (298)	8.04 (204)	76 (34)	1,832 (207)	2,442 (276)
8	7.78 (198)	7.78 (198)	12 N/A	4.09 (104)	15.53 (395)	7.71 (196)	1.29 (33)	32.18 (817)	15.35 (390)	9.78 (248)	128 (58)	3,122 (353)	4,162 (470)
10	9.78 (248)	9.78 (248)	400mm	4.22 (107)	18.23 (463)	8.46 (215)	1.92 (49)	36.16 (918)	18.03 (458)	11.34 (288)	178 (81)	4,856 (549)	6,474 (732)

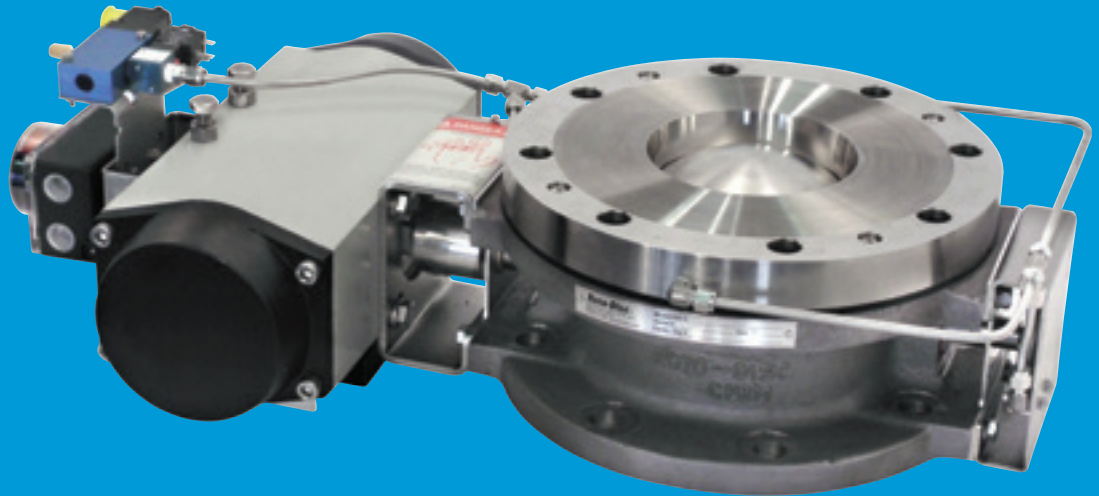
* Dimensions vary with Inlet / Outlet Options and are based on standard double-acting control package. Dimensions will vary with other control packages.

** Maximum recommended torque based on standard shaft material and will vary with other materials.

Inflatable Seal Spherical Valve

What's New

- Mechanical interlock of dome rotation and seal inflation
- Highly fluorinated elastomer seals for corrosive environments
- Standard valve fails closed with loss of electricity
- Optional reserve air tank for loss of pneumatics
- Inflatable seal lock-in for easy removal and replacement of seal and O-rings



Bubble-Tight Against Full Vacuum and Pressure up to 150psig

- Heavy-duty construction
- Bidirectional sealing
- No sliding contact between dome and seal
- Full-open port
- Long, low-maintenance service life

Roto-Flate® Advantage

Roto-Flate valves feature a bubble-tight sealing system that is ideal for high pressure and vacuum environments. The positive seal prevents leakage of liquids, gasses or dry material into or out of the

valve. Bubble-tight sealing means your process runs more efficiently because compressors or vacuum pumps won't be overloaded.

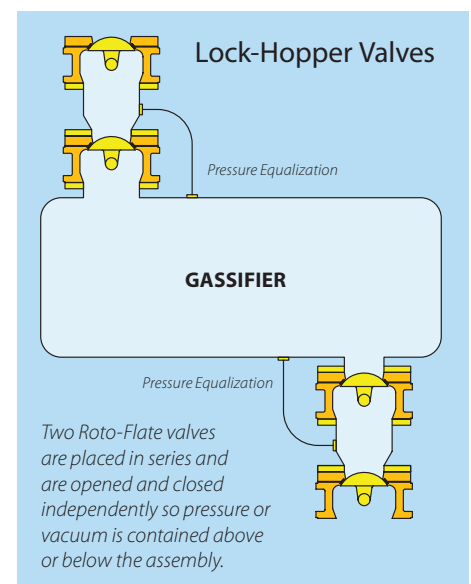
Pressures & Temperatures:

- Bubble-tight against full vacuum and pressure up to 150psig
- Seal pressure 5-15psi greater than system pressure
- Temperatures up to 475°F, depending on seal material and system pressures. Water cooling available for higher temperatures
- Hot water & steam heating, jacketing and heat-tracing packages available for thermal regulation of valve body and/or dome

Typical Applications

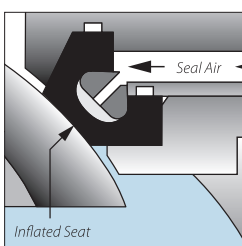
- Pneumatic Conveying
- Tank & Pressure Vessel Discharge
- Vacuum Dryer Inlet & Discharge
- Pump-line Shut-off
- Reactor Inlet & Discharge
- Gravity Shut-off of Abrasives
- Lock-hopper Valves

Typical Installation

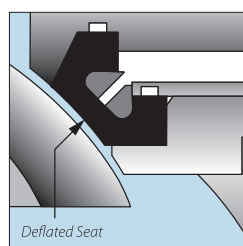


Mechanics of Operation

Compressed air enters the inflatable seal assembly and inflates the seal against the dome.



Compressed air is released causing the seal to relax and allowing the dome to rotate.



Materials of Construction

Body, Dome & Retaining Plates:

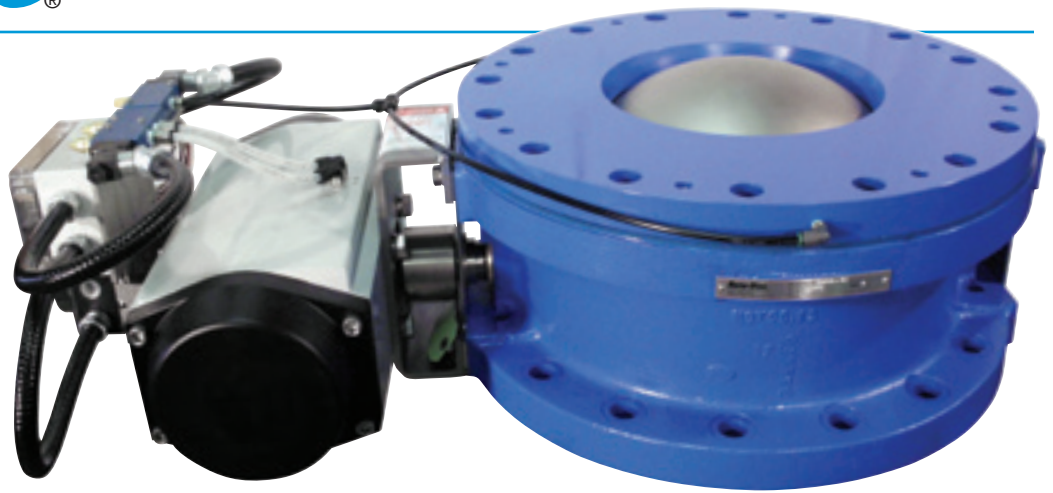
Stainless Steel (316, 304, Duplex),
Carbon Steel (4140, WCB, A36),
Ductile Iron, Hastelloy, Monel,
(Other alloys upon request)

Seal Material:

Neoprene, Viton®,
Viton®-B, Viton®-GF, Viton® Extreme,
EPDM, Perfluoroelastomer, Buna-N
and Heat-Stable Silicon. Some
materials available in white.

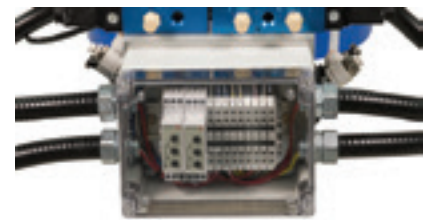
Coatings & Hardfacings:

Electroless Nickel, Tungsten Carbide,
Hard Chrome, Teflon® PFA

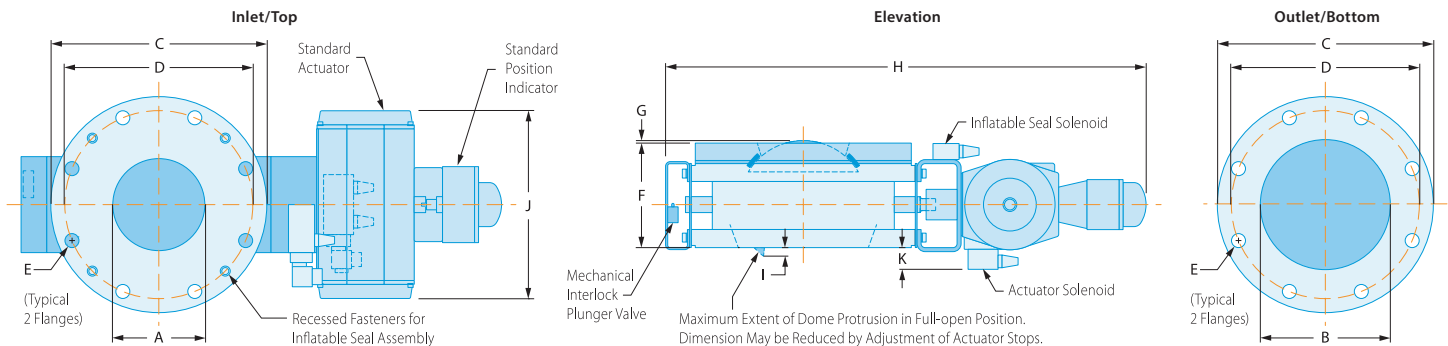


Delay Interlock System (DIS)

The Roto-Flate's Delay Interlock System (DIS) allows the valve to be controlled with just one signal to open and one to close. This unique device, developed exclusively by Roto-Disc, Inc. makes controlling the Roto-Flate as easy as any quarter-turn valve, while still providing the high performance of a two-stage sealing system.



Roto-Flate Valve with Standard Controls & Flange Arrangement



* Standard Valve Dimensions – IN. (mm)

Valve Size	Standard Flange Size	Optional Discharge Flange Size	A	B	C	D	E # Holes x Hole Dia.	F	G	H	I	J	K	Weight in S.S. w/ Standard Controls LBs. (Kg)	Typical Torque Inch-LB. (nm)	**Max. Rec. Torque Inch-LB. (nm)
3	4" 150# ANSI	3" 150# ANSI	3.39 (86)	4.25 (108)	9.00 (229)	7.50 (191)	8 x 0.75 (8 x 19)	5.25 (133)	0.00 (0)	24.03 (610)	0.00 (0)	10.25 (260)	1.48 (37)	60 (27)	1,098 (125)	1,930 (218)
4	6" 150# ANSI	4" 150# ANSI	4.38 (111)	6.12 (156)	11.00 (279)	9.50 (241)	8 x 0.88 (8 x 22)	5.26 (133)	0.00 (0)	26.67 (678)	0.58 (15)	10.55 (268)	2.03 (52)	77 (35)	1,609 (182)	1,930 (218)
6	8" 150# ANSI	6" 150# ANSI	6.50 (165)	8.12 (206)	13.50 (343)	11.75 (298)	8 x 0.88 (8 x 22)	6.84 (173)	0.00 (0)	30.03 (763)	1.08 (27)	11.73 (298)	1.36 (34)	155 (70)	2,442 (276)	4,200 (475)
8	10" 150# ANSI	8" 150# ANSI	8.50 (216)	10.25 (260)	16.00 (406)	14.25 (362)	12 x 1.00 (12 x 25)	7.69 (195)	0.31 (8)	33.20 (843)	2.30 (58)	15.35 (390)	1.78 (45)	250 (113)	4,162 (470)	12,200 (1,378)
10	12" 150# ANSI	10" 150# ANSI	10.50 (267)	12.25 (311)	19.00 (483)	17.00 (432)	12 x 1.00 (12 x 25)	9.57 (243)	0.82 (21)	37.19 (944)	2.61 (66)	18.03 (458)	0.10 (24)	313 (142)	6,474 (732)	12,200 (1,378)
12	16" 150# ANSI	12" 150# ANSI	12.50 (316)	15.75 (400)	23.50 (597)	21.25 (540)	16 x 1.12 (16 x 29)	11.44 (291)	0.83 (21)	43.43 (1,103)	2.93 (74)	20.79 (528)	1.33 (34)	555 (252)	10,358 (1,170)	22,700 (2,265)
14	20" 150# ANSI	14" 150# ANSI	14.50 (368)	22.25 (565)	27.50 (699)	25.00 (635)	20 x 1.25 (20 x 32)	13.68 (347)	1.15 (29)	49.43 (1,255)	5.22 (133)	21.25 (540)	1.55 (39)	759 (344)	12,948 (1,463)	36,000 (4,067)
16	20" 150# ANSI	16" 150# ANSI	16.25 (413)	22.00 (559)	27.50 (699)	25.00 (635)	20 x 1.25 (20 x 32)	12.00 (305)	1.92 (49)	51.49 (1,308)	6.28 (160)	24.02 (610)	2.84 (72)	748 (339)	18,727 (2,116)	37,500 (4,237)
18	26" Series A,CL-150	18" 150# ANSI	18.50 (470)	27.00 (686)	34.25 (870)	31.75 (806)	24 x 1.38 (24 x 35)	16.41 (417)	1.94 (49)	57.57 (1,463)	5.75 (146)	28.42 (722)	1.94 (49)	1,105 (501)	28,466 (3,216)	43,700 (4,937)
20	30" Series A,CL-150	20" 150# ANSI	20.50 (521)	31.81 (808)	38.75 (984)	36.00 (914)	28 x 1.38 (28 x 35)	18.27 (464)	2.29 (58)	62.57 (1,589)	7.30 (185)	28.42 (722)	1.89 (48)	1,629 (739)	28,466 (3,216)	62,400 (7,050)
24	36" Series A,CL-150	24" 150# ANSI	24.50 (622)	38.00 (965)	46.00 (1,168)	42.75 (1,086)	32 x 1.62 (32 x 41)	22.71 (577)	2.77 (70)	64.62 (1,641)	7.69 (195)	28.83 (732)	0.00 (0)	2,309 (1,047)	34,006 (3,842)	82,000 (9,265)

* Dimensions based on standard flanges and standard control package. Dimensions vary with flange options and other control packages.

** Maximum recommended torque based on standard shaft material and will vary with other materials.

Heavy-Duty Clean-Flow Diverter

What's New

- Removable side panel and blade gives access to valve internals
- Shaft seals keep dust from leaking to the outside
- Larger valve sizes

Built Tough For Reliability

Here's why the Roto-Blade™, heavy-duty diverter valve will eliminate your diverter valve headaches forever:

- Heavy gauge construction means precise tolerances are maintained so moving parts don't breakdown or hang-up and your operation stays on schedule.
- The diverter blade and side-walls are precision machined and then ground by hand at assembly to ensure a perfect fit between the side-walls and the diverter blade.
- Blade tip is protected from material flow.
- There is simply no place inside the valve for material to get trapped. Roto-Blade is always clean as a whistle, making it ideal for sanitary applications or other ultra-clean environments.
- Quick-acting, cushioned air cylinder moves the blade rapidly through the product.

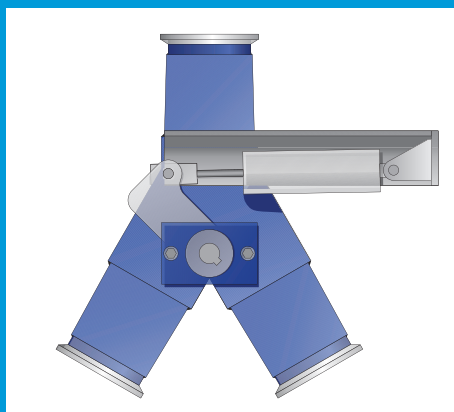
Body Type	Square, Rectangular
Divert Type	Reject (one leg straight through, one leg offset) and Wye (both legs offset from vertical center)
Divert Angle	30°-45° from vertical center. Modified designs also available
Port Connections	Flanged (Square, Rectangular, Round/ANSI), Tri-clamp & Stub
Body Sizes	3-24" (larger sizes upon request)
Materials of Construction	Stainless Steel, Abrasion Resistant Steel (AR400), Hastelloy, other materials upon request
Actuators	Double Acting, Single Acting
Coatings & Hardfacings	Electroless Nickel, Tungsten Carbide, Hard Chrome, Teflon® PFA



▲ 24" x 24" reject diverter

Roto-Blade™ Sanitary Configurations

- Removable side-wall design gives easy access to valve internals, without having to dismount it from the mating flanges
- The blade can be removed for re-work or replacement
- Valve internals can be polished
- No internal hang-up points or ledges
- Tri-clamp connections for sanitary environments available



Roto-Vert™-Flate

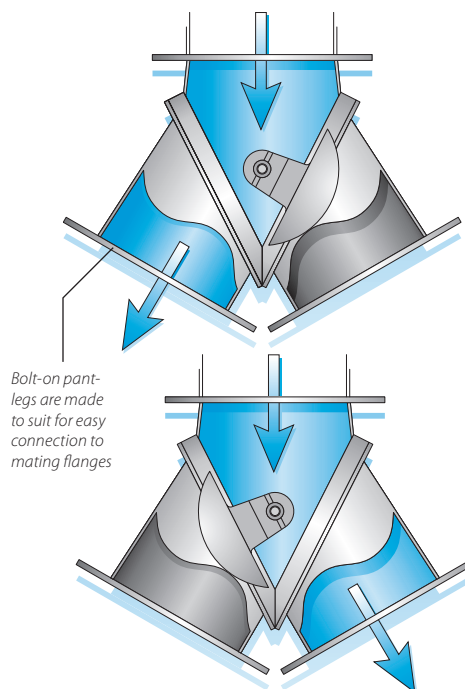
Inflatable-Seal Spherical Diverter Valve

The Roto-Vert™-Flate is a unique solution for unique diverter applications!

- Makes use of the Roto-Flate inflatable seal system
- Capable of providing bubble-tight shut-off between (2) environments with high differential pressures
- The rotating action of the dome slices through material without sliding against the seat
- The compact body design eliminates the need for (2) valves and large spool pieces

Typical Applications

- Pressure Sealing between (2) Environments
- High-pressure divert
- Dense-phase pneumatic conveying



Materials of Construction

Body & Dome: Stainless Steel (316, 304, Duplex), Carbon Steel (4140, WCB), Hastelloy-C, Monel, (Other alloys upon request)

Coatings & Hardfacings: Electroless Nickel, Tungsten Carbide, Hard Chrome, Teflon® PFA

Actuators: Manual handle with locking grip or hand wheel, Air or electric, Most standard brands and controls can be used

Seal Material: Neoprene, Viton®, Viton®-B, Viton®-GF, Viton® Extreme, EPDM, Perfluoroelastomer, Buna-N and Heat-stable Silicon. Some materials available in white.

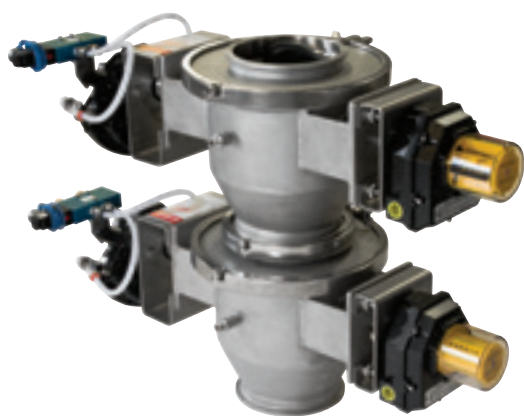
Body Size	3"	6"	10"
Std. Port Connection Size	4" ANSI 150#	8" ANSI 150#	12" ANSI 150#
Divert Type	Wye Only	Wye Only	Wye Only

Airlock/Double-Dump Valves

Roto-Disc® Airlock/Double-Dump valves are the solution for processing dry or slurry material into or out of pressure or vacuum environments. Intermediate accumulator chambers are designed for ledge-free flow of material from valve to valve. Cycle-timing and pressure equalization couplings are available for turn-key feeding solutions. These are the perfect replacement for leaky rotary-vane valves or other, flimsy double-dump valves.

Scale Hopper System

- Feed Hoppers & Funnels are available per customer requirements. Assembly supports supplied through engineering partners



- Accumulator chambers can be sized to suit your processing needs.

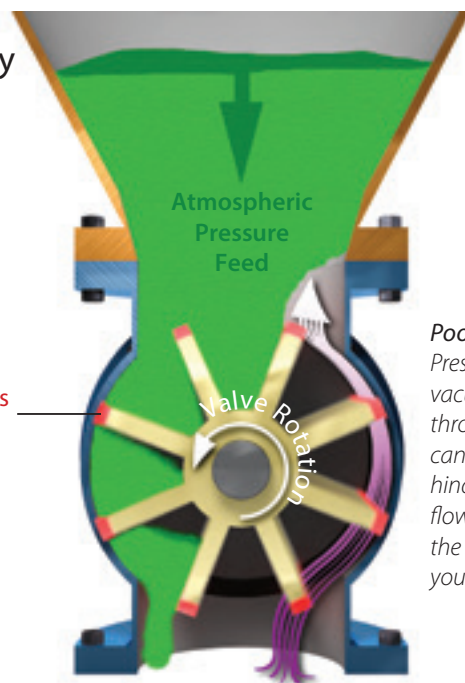


In Comparison

Rotary valves have a gap between the blade ends and the housing that allow leakage. The constant scraping of material between the blade and housing causes even hardened surfaces to wear-out.

Rotary Valve

Blades Wear!



Poor seal:
Pressure or vacuum passes through valve can often hinder product flow and reduce the efficiency of your system.

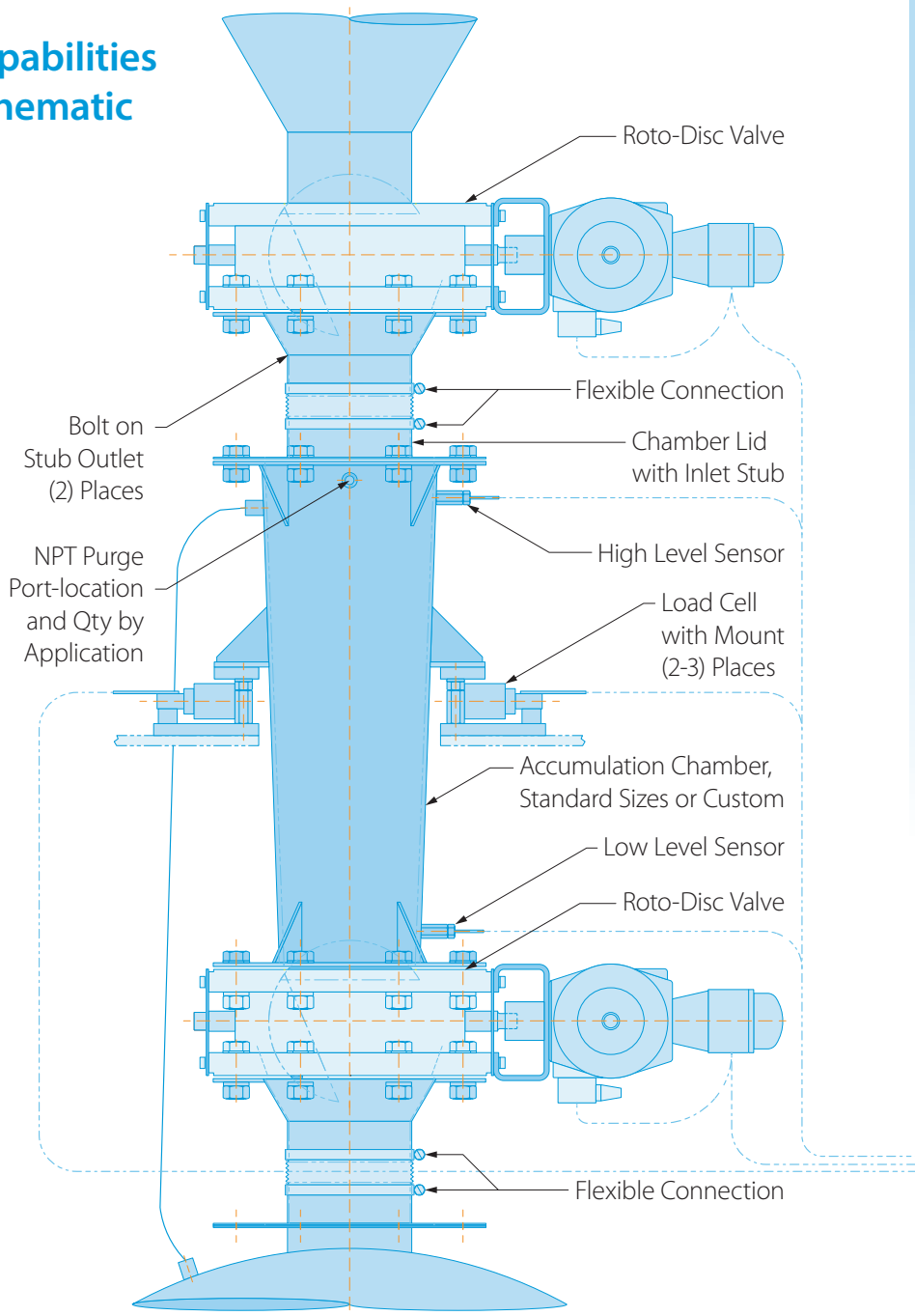
Pressurized System

Double-Dump Concept/Capabilities

Roto-Disc's design takes double-dump valves to the next level. Our double-dump assemblies can be used to process material into/out of differential pressure environments by timing, weight or volume, and even switch between any of

these in just minutes. This is a revolutionary processing solution that can take the place of other feeding devices and make your process more efficient!

Capabilities Schematic



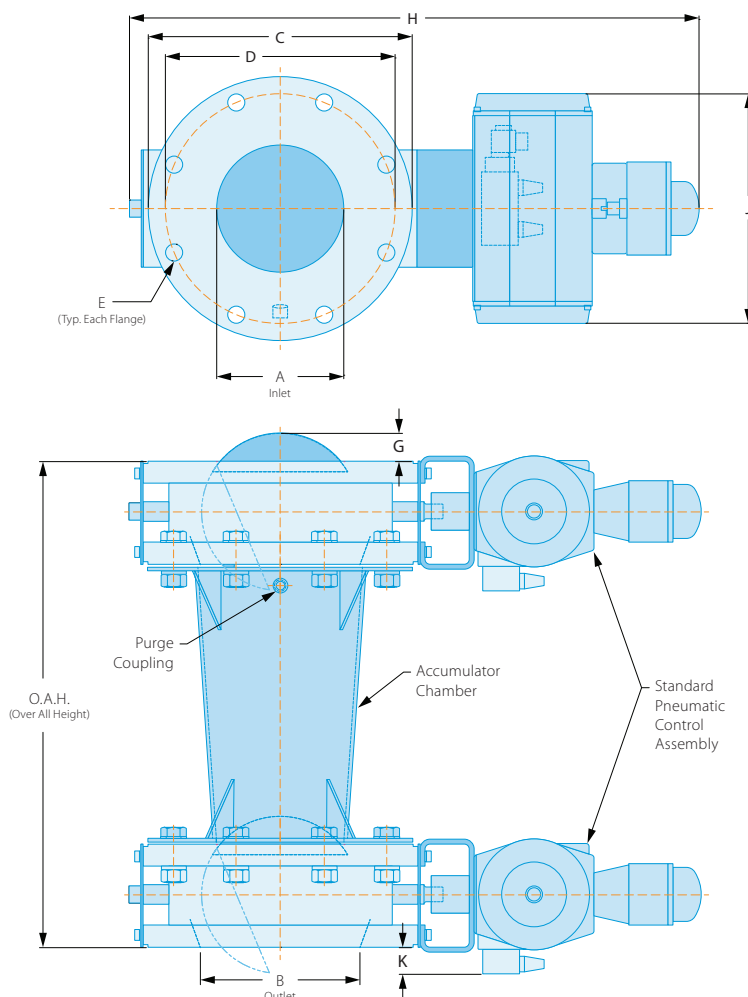
**Don't waste
time and money
programming
what we've already
programmed!**

The Roto-Disc Cycle Controller (RDCC)™ allows you to easily control your double-dump assembly to get the throughput you want. Purpose-driven programs are available for temporal, gravimetric or volumetric control, all with manual override. Save programs for specific recipes/batch sizes and monitor the system through an intuitive LED screen.



Roto-Disc® Airlock/Double-Dump

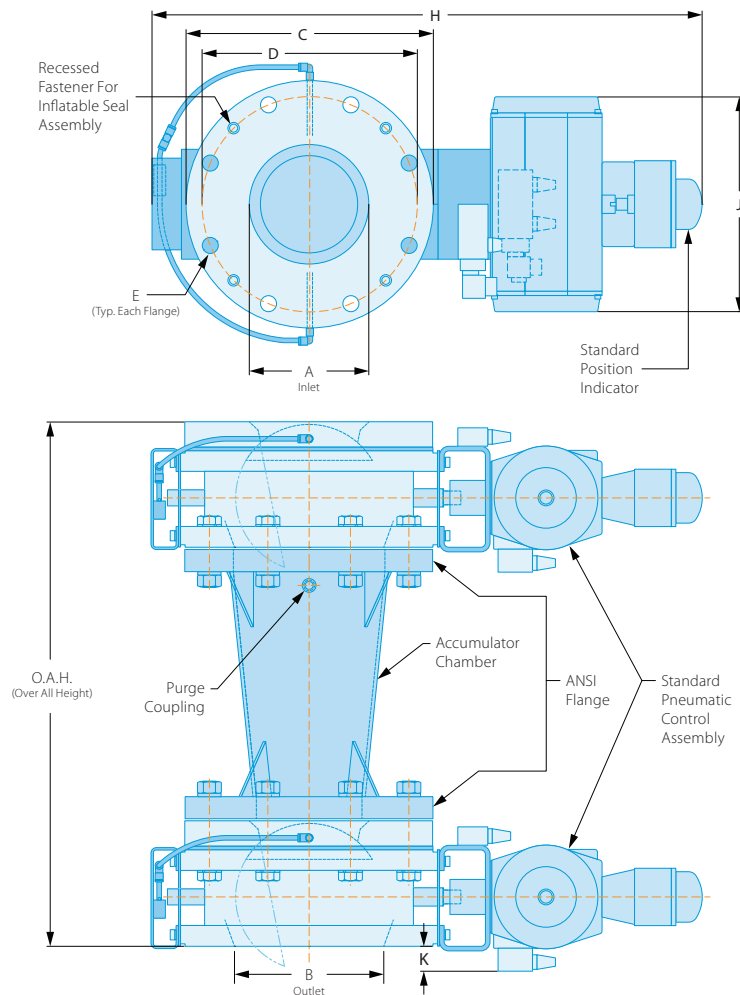
Custom intermediate accumulator chambers to meet a specific volume and/or take-out space requirements are available.



Size	Std/Opt Flg Sizes	A thru K	O.A.H.	Weight	Purge Coupling Size	Typical Cycle Frequency (per minute)	Accum Vol cu.in / cu.ft	Typical Capacity, Ft ³ /Min
3" Sm	See Page 4	See Page 4	11.00" (279mm)	99 lbs	1/4" NPT	5	30 / .017	0.1
3" Md	See Page 4	See Page 4	23.13" (587mm)	117 lbs	1/4" NPT	4	172 / .10	0.4
3" Lg	See Page 4	See Page 4	22.75" (577mm)	122 lbs	1/4" NPT	4	432 / .25	1.0
4" Sm	See Page 4	See Page 4	11.50" (292mm)	180 lbs	1/4" NPT	4	68 / .04	0.2
4" Md	See Page 4	See Page 4	20.00" (508mm)	187 lbs	1/4" NPT	4	259 / .15	0.6
4" Lg	See Page 4	See Page 4	26.25" (667mm)	200 lbs	1/4" NPT	3	872 / .50	1.5
6" Sm	See Page 4	See Page 4	14.00" (355mm)	256 lbs	1/4" NPT	4	117 / .068	0.3
6" Md	See Page 4	See Page 4	24.75" (628mm)	271 lbs	1/4" NPT	3	579 / .33	1.0
6" Lg	See Page 4	See Page 4	31.38" (797mm)	278 lbs	1/4" NPT	3	1732 / 1.0	3.0
8" Sm	See Page 4	See Page 4	16.75" (425mm)	353 lbs	3/8" NPT	3	230 / .133	0.4
8" Md	See Page 4	See Page 4	31.87" (809mm)	377 lbs	3/8" NPT	3	1295 / .75	2.3
8" Lg	See Page 4	See Page 4	40.25" (1022mm)	402 lbs	3/8" NPT	2	3462 / 2.0	4
10" Sm	See Page 4	See Page 4	21.25" (539mm)	514 lbs	3/8" NPT	3	405 / .234	0.7
10" Md	See Page 4	See Page 4	42.50" (1079mm)	553 lbs	3/8" NPT	3	2598 / 1.50	4.5
10" Lg	See Page 4	See Page 4	45.05" (1144mm)	582 lbs	3/8" NPT	2	6048 / 3.50	7.0
12" Sm	See Page 4	See Page 4	25.25" (641mm)	1092 lbs	3/8" NPT	3	726 / .40	1.2
12" Md	See Page 4	See Page 4	47.88" (1216mm)	1186 lbs	3/8" NPT	2.5	4,319 / 2.50	6.3
12" Lg	See Page 4	See Page 4	56.50" (1435mm)	1233 lbs	3/8" NPT	2.5	10,375 / 6.0	15.0
14" Sm	See Page 4	See Page 4	33.00" (838mm)	1141 lbs	3/8" NPT	2	1,968/1.1	2.2
14" Md	See Page 4	See Page 4	51.75" (1315mm)	1217 lbs	3/8" NPT	2	6,932/4.0	8.0
14" Lg	See Page 4	See Page 4	69.88" (1775mm)	1271 lbs	3/8" NPT	1.5	20,762/12.0	18.0
16" Sm	See Page 4	See Page 4	30.75" (781mm)	1200 lbs	3/8" NPT	2	2546/1.5	3.0
16" Md	See Page 4	See Page 4	45.75" (1162mm)	1292 lbs	3/8" NPT	2	6947/4.0	8.0
16" Lg	See Page 4	See Page 4	65.25" (1657mm)	1321 lbs	3/8" NPT	1.5	20,730/12.0	18.0
18" Sm	See Page 4	See Page 4	40.75" (1035mm)	1577 lbs	1/2" NPT	2	3749 / 2.2	4.4
18" Md	See Page 4	See Page 4	61.00" (1549mm)	1834 lbs	1/2" NPT	1.5	12,088 / 7.0	10.5
18" Lg	See Page 4	See Page 4	78.25" (1987mm)	2046 lbs	1/2" NPT	1.25	34,555 / 20.0	25.0

Roto-Flate® Airlock/Double-Dump

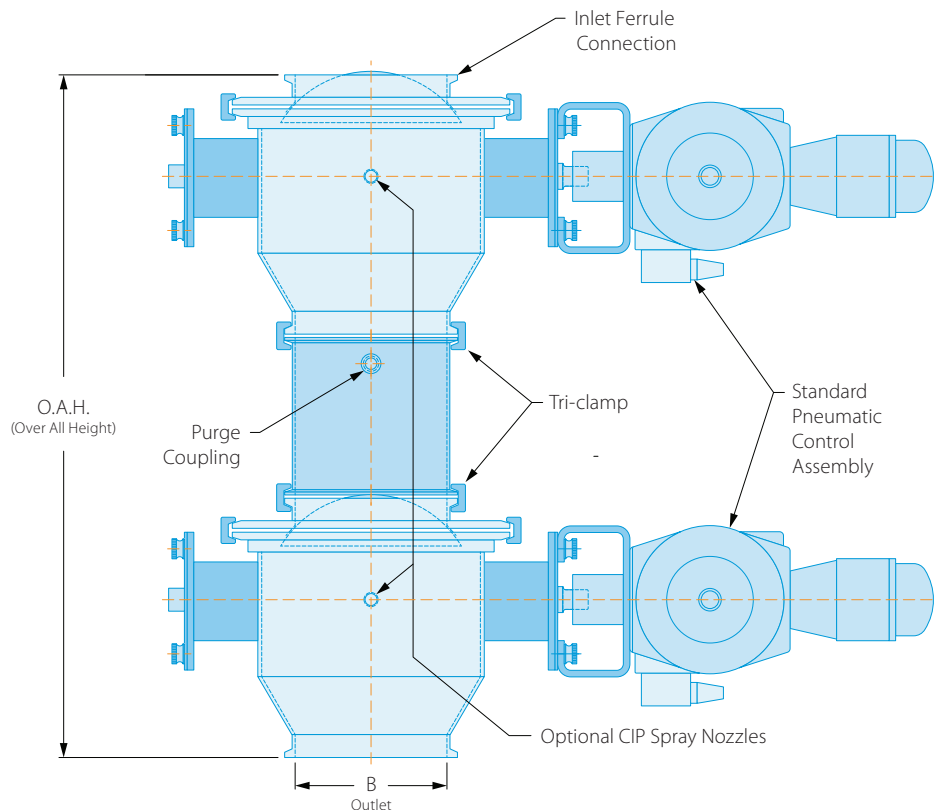
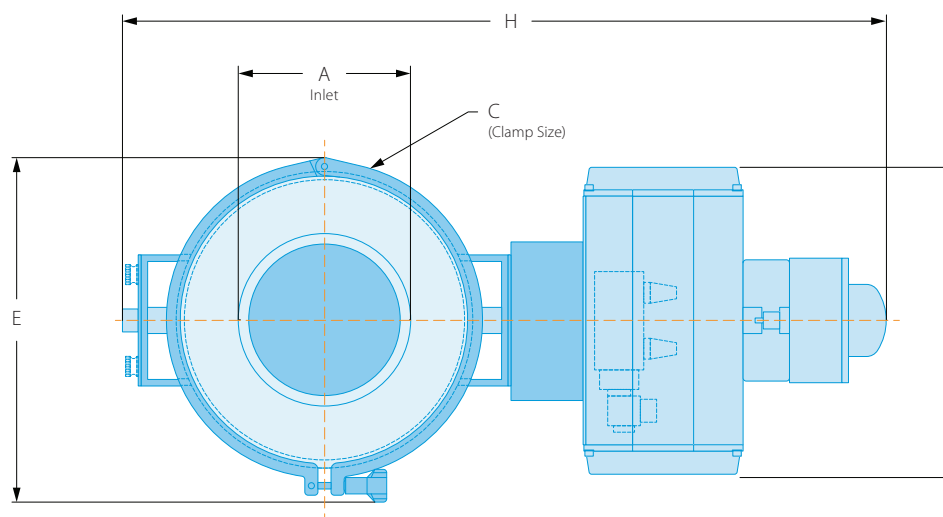
Custom intermediate accumulator chambers to meet a specific volume and/or take-out space requirements are available.



Size	Std/Opt Flg Sizes	A thru K	O.A.H.	Weight	Purge Coupling Size	Typical Cycle Frequency (per minute)	Accum Vol cu.in / cu.ft	Typical Capacity, Ft ³ /Min
3" Sm	See Page 9	See Page 9	15.13" (384mm)	146 lbs	1/4" NPT	4	50 / .029	0.1
3" Md	See Page 9	See Page 9	26.13" (663mm)	155 lbs	1/4" NPT	4	173 / .10	0.4
3" Lg	See Page 9	See Page 9	27.17" (690mm)	159 lbs	1/4" NPT	4	432 / .25	1.0
4" Sm	See Page 9	See Page 9	16.02" (407mm)	191 lbs	1/4" NPT	4	105 / .06	0.2
4" Md	See Page 9	See Page 9	23.77" (603mm)	199 lbs	1/4" NPT	4	262 / .15	0.6
4" Lg	See Page 9	See Page 9	30.41" (772mm)	207 lbs	1/4" NPT	3	870 / .50	1.5
6" Sm	See Page 9	See Page 9	19.16" (487mm)	380 lbs	1/4" NPT	4	207 / .12	0.3
6" Md	See Page 9	See Page 9	28.54" (725mm)	394 lbs	1/4" NPT	3	572 / .33	1.0
6" Lg	See Page 9	See Page 9	36.54" (928mm)	413 lbs	1/4" NPT	3	1792 / 1.0	3.0
8" Sm	See Page 9	See Page 9	21.65" (550mm)	558 lbs	3/8" NPT	3	346 / .20	0.6
8" Md	See Page 9	See Page 9	36.27" (921mm)	579 lbs	3/8" NPT	2	1297 / .75	1.5
8" Lg	See Page 9	See Page 9	45.02" (1144mm)	647 lbs	3/8" NPT	2	3572 / 2.0	4
10" Sm	See Page 9	See Page 9	26.53" (674mm)	764 lbs	3/8" NPT	3	660 / .38	1.1
10" Md	See Page 9	See Page 9	46.16" (1172mm)	795 lbs	3/8" NPT	2	2598 / 1.50	3.0
10" Lg	See Page 9	See Page 9	51.78" (1315mm)	831 lbs	3/8" NPT	2	6056 / 3.50	7.0
12" Sm	See Page 9	See Page 9	32.59" (828mm)	1384 lbs	3/8" NPT	2.5	1130 / .65	1.6
12" Md	See Page 9	See Page 9	56.46" (1434mm)	1435 lbs	3/8" NPT	2	4323 / 2.50	5.0
12" Lg	See Page 9	See Page 9	57.59" (1463mm)	1461 lbs	3/8" NPT	2	10,388 / 6.0	12.0
14" Sm	See Page 9	See Page 9	40.62" (1032mm)	1639 lbs	3/8" NPT	2	3322 / 1.92	3.8
14" Md	See Page 9	See Page 9	54.00" (1371mm)	1684 lbs	3/8" NPT	1.75	6921 / 4.0	7.0
14" Lg	See Page 9	See Page 9	72.26" (1834mm)	1825 lbs	3/8" NPT	1.5	20,784 / 12.0	18.0
16" Sm	See Page 9	See Page 9	39.21" (996mm)	1873 lbs	3/8" NPT	2	3955 / 2.3	4.6
16" Md	See Page 9	See Page 9	49.46" (1256mm)	1926 lbs	3/8" NPT	1.75	6922/4.0	7.0
16" Lg	See Page 9	See Page 9	70.21" (1783mm)	2059 lbs	3/8" NPT	1.5	21,005/12.0	18.0
18" Sm	See Page 9	See Page 9	48.47" (1231mm)	3021 lbs	1/2" NPT	1.5	5996 / 3.5	5.3
18" Md	See Page 9	See Page 9	63.35" (1609mm)	3098 lbs	1/2" NPT	1.25	12,113 / 7.0	8.8
18" Lg	See Page 9	See Page 9	84.47" (2145mm)	3297 lbs	1/2" NPT	1	34,734 / 20.0	20.0

Roto-Clean® Airlock/Double-Dump

Custom intermediate accumulator chambers to meet a specific volume and/or take-out space requirements are available.

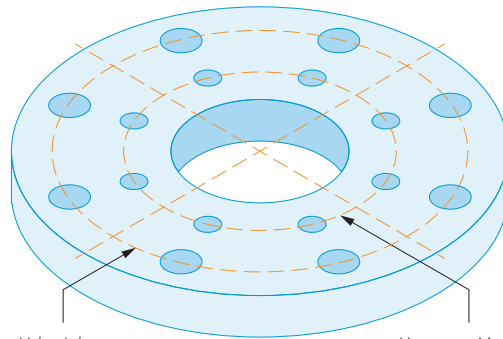


Size	Std/Opt Flg Sizes	A thru K	O.A.H.	Weight	Purge Coupling Size	Typical Cycle Frequency (per minute)	Accum Vol cu.in / cu.ft	Typical Capacity, Ft ³ /Min
3" Sm	See Page 7	See Page 7	17.36" (441mm)	64 lbs	1/4" NPT	5	31 / .018	0.09
3" Md	See Page 7	See Page 7	21.49" (546mm)	66 lbs	1/4" NPT	4	57 / .033	0.13
4" Sm	See Page 7	See Page 7	17.08" (434mm)	72 lbs	1/4" NPT	4	52 / .03	0.12
4" Md	See Page 7	See Page 7	21.21" (539mm)	75 lbs	1/4" NPT	4	99 / .06	0.24
6" Sm	See Page 7	See Page 7	19.88" (505mm)	134 lbs	1/4" NPT	4	110 / .064	0.26
6" Md	See Page 7	See Page 7	26.00" (660mm)	137 lbs	1/4" NPT	3	267 / .16	0.48
8" Sm	See Page 7	See Page 7	26.05" (662mm)	244 lbs	1/4" NPT	3	131 / .076	0.29
8" Md	See Page 7	See Page 7	32.18" (817mm)	248 lbs	1/4" NPT	3	416 / .24	0.72
10" Sm	See Page 7	See Page 7	27.45" (697mm)	300 lbs	1/4" NPT	3	421 / .243	0.73
10" Md	See Page 7	See Page 7	35.58" (904mm)	306 lbs	1/4" NPT	2	915 / .529	1.09

Roto-Disc, Inc. provides a variety of Inlet and Outlet options to fit your connection requirements.



▲ Roto-Disc valve with Inlet & Outlet adaptors for mating to common flanges.



Valve Inlet Flange Pattern

Upstream Mating Flange Pattern

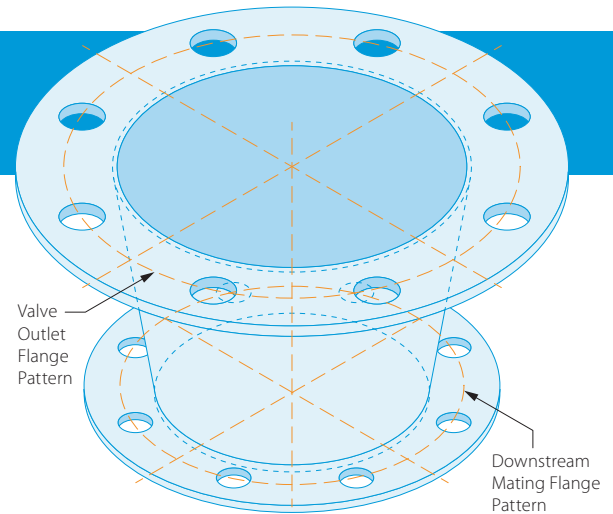
Roto-Disc Valve Size	Inlet Bore (NB)	Valve Inlet Flange Pattern	Upstream Mating Flange Pattern (UNC THRD)*
3"	3"	4" ANSI 150#	3" ANSI 150#
4"	4"	6" ANSI 150#	4" ANSI 150#
6"	6"	8" ANSI 150#	6" ANSI 150#
8"	8"	10" ANSI 150#	8" ANSI 150#
10"	10"	12" ANSI 150#	10" ANSI 150#
12"	12"	16" ANSI 150#	12" ANSI 150#
14"	14"	20" ANSI 150#	14" ANSI 150#
16"	16"	20" ANSI 150#	16" ANSI 150#
18"	18"	26" ANSI 150#	18" ANSI 150#
20"	20"	30" ANSI 150#	20" ANSI 150#
24"	24"	36" ANSI 150#	24" ANSI 150#

* DIN PN10 or other patterns available.

Outlet Flange Adaptors

Roto-Disc Valve Size	Outlet Bore (NB)	Valve Outlet Flange Pattern	Downstream Mating Flange Pattern
3"	4"	4" ANSI 150#	3" ANSI 150#
4"	6"	6" ANSI 150#	4" ANSI 150#
6"	8"	8" ANSI 150#	6" ANSI 150#
8"	10"	10" ANSI 150#	8" ANSI 150#
10"	12"	12" ANSI 150#	10" ANSI 150#
12"	16"	16" ANSI 150#	12" ANSI 150#

Note: For Roto-Disc valves sizes 14-24", the valve body discharge may be configured with a matching flange pattern without need for an adaptor.

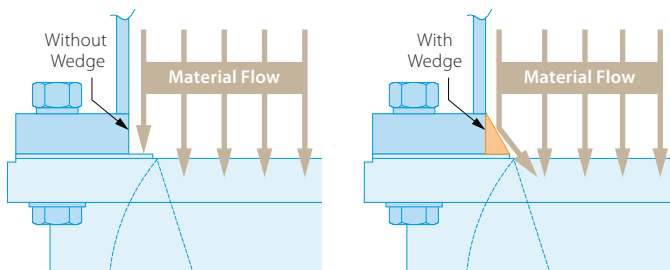
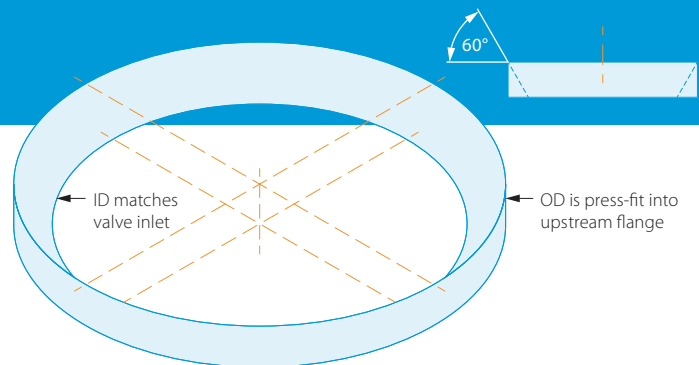


Valve Outlet Flange Pattern

Downstream Mating Flange Pattern

Wedge Insert

The Wedge Insert option relieves the need for custom inlet flange. The wedge is made of PTFE, UHMW, PEEK or other compatible thermo-plastic and is press-fit into the upstream flange, thereby eliminating any hang-up ledges.



Roto-Disc Valve Size	Inlet Bore (NB)	Valve Inlet Flange Pattern	Inlet Flange Bore with Wedge Insert
3"	3"	4" ANSI 150#	3"
4"	4"	6" ANSI 150#	4"
6"	6"	8" ANSI 150#	6"
8"	8"	10" ANSI 150#	8"
10"	10"	12" ANSI 150#	10"
12"	12"	16" ANSI 150#	12"
14"	14"	20" ANSI 150#	14"
16"	16"	20" ANSI 150#	16"
18"	18"	26" ANSI 150#	18"
20"	20"	30" ANSI 150#	20"
24"	24"	36" ANSI 150#	24"

Ready-Made Adaptors for Flexible Connection to Upstream or Downstream mating equipment. BFM, Tri-Clover and custom adaptors also available.

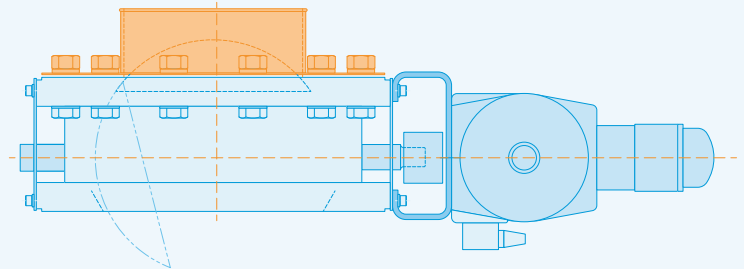
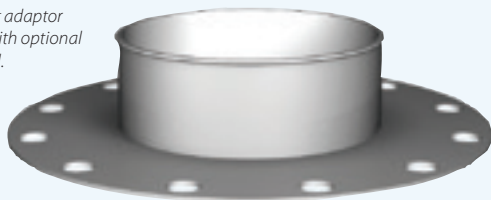
Applications

- Drum Dumper
- Bulk-bag / Box Fill
- Activated Bin Discharge



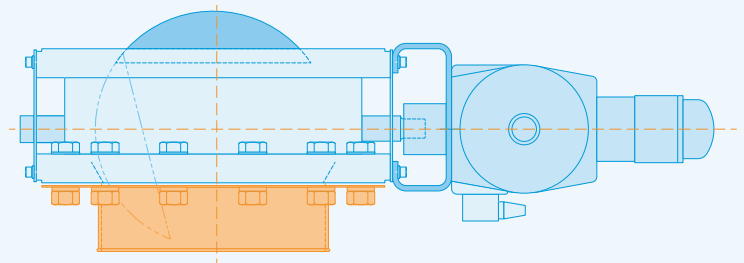
Stub Inlet

Stub Inlet adaptor shown with optional rim-bead.



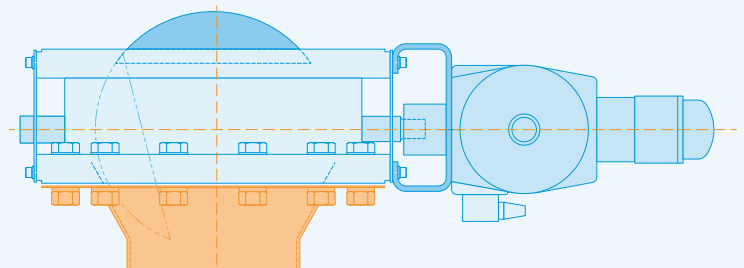
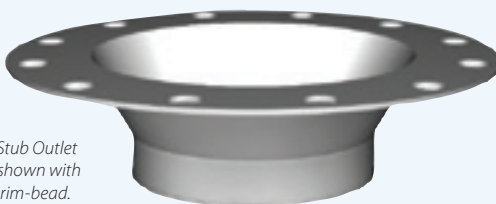
Stub Outlet – Straight

Stub Outlet adaptor shown with optional rim-bead.



Stub Outlet-Inlet Match

Reducer Stub Outlet adaptor shown with optional rim-bead.



Roto-Disc®

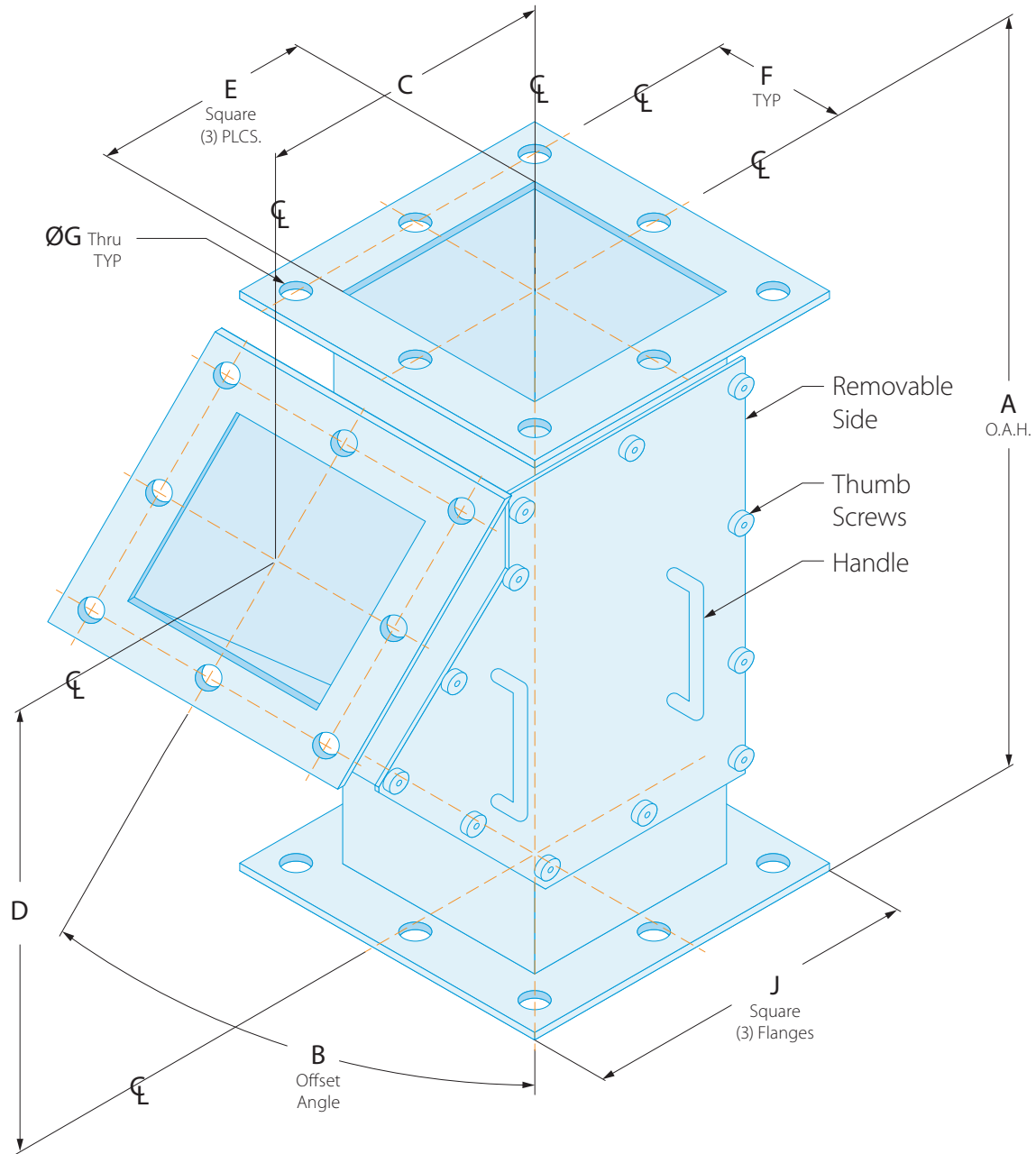
Splitters/Convergers

Roto-Disc now offers a wide-range of splitters & convergers. Available in a variety of materials of construction (M.O.C.), duty schedules and connection types, all come with an easy-to-remove access door and can be polished, hardfaced or coated to meet sanitary and/or abrasive service requirements.

Standard dimensions are shown on the following charts. Custom weldments for particular space, angle and/or connection requirements also available.



Square to Square Offset Converger



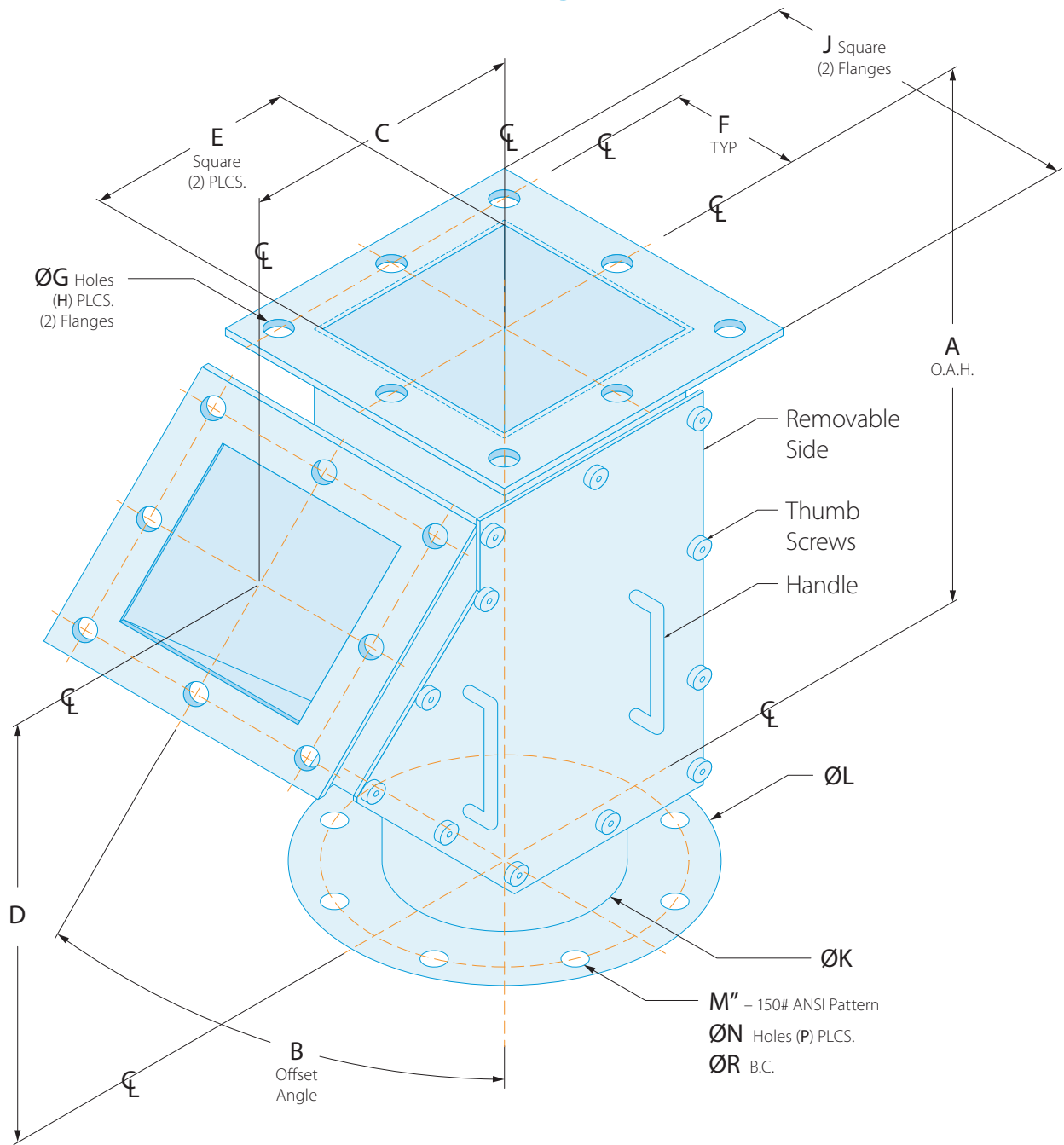
* To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-SS-OC30-03-304** = (Splitter/Converger Square to Square, Offset 30 degrees, 3 inch, 304 Stainless Steel)

Square - Square Offset Converger

Part No.	A (O.A.H.)	B	C	D	E	F	G	J
SC-SS-OC30-03-XXX	14.00"	30°	5.98"	13.00"	3.00"	2.62"	8 x .44"	6.00"
SC-SS-OC45-03-XXX	12.00"	45°	6.18"	9.00"	3.00"	2.62"	8 x .44"	6.00"
SC-SS-OC30-04-XXX	15.50"	30°	6.87"	13.75"	4.00"	3.12"	8 x .44"	7.00"
SC-SS-OC45-04-XXX	12.38"	45°	6.87"	9.50"	4.00"	3.12"	8 x .44"	7.00"
SC-SS-OC30-06-XXX	19.50"	30°	8.66"	17.25"	6.00"	4.00"	8 x .44"	9.00"
SC-SS-OC45-06-XXX	14.75"	45°	8.50"	11.50"	6.00"	4.00"	8 x .44"	9.00"
SC-SS-OC30-08-XXX	26.50"	30°	11.47"	23.50"	8.00"	3.62"	12 x .62"	12.00"
SC-SS-OC45-08-XXX	19.63"	45°	10.56"	15.13"	8.00"	3.62"	12 x .62"	12.00"
SC-SS-OC30-10-XXX	31.70"	30°	13.52"	28.25"	10.00"	4.25"	12 x .62"	14.00"
SC-SS-OC45-10-XXX	22.50"	45°	12.82"	17.56"	10.00"	4.25"	12 x .62"	14.00"
SC-SS-OC30-12-XXX	38.25"	30°	16.73"	33.88"	12.00"	5.12"	12 x .62"	17.00"
SC-SS-OC45-12-XXX	27.00"	45°	16.10"	21.00"	12.00"	5.12"	12 x .62"	17.00"

Round to Square Offset Converger

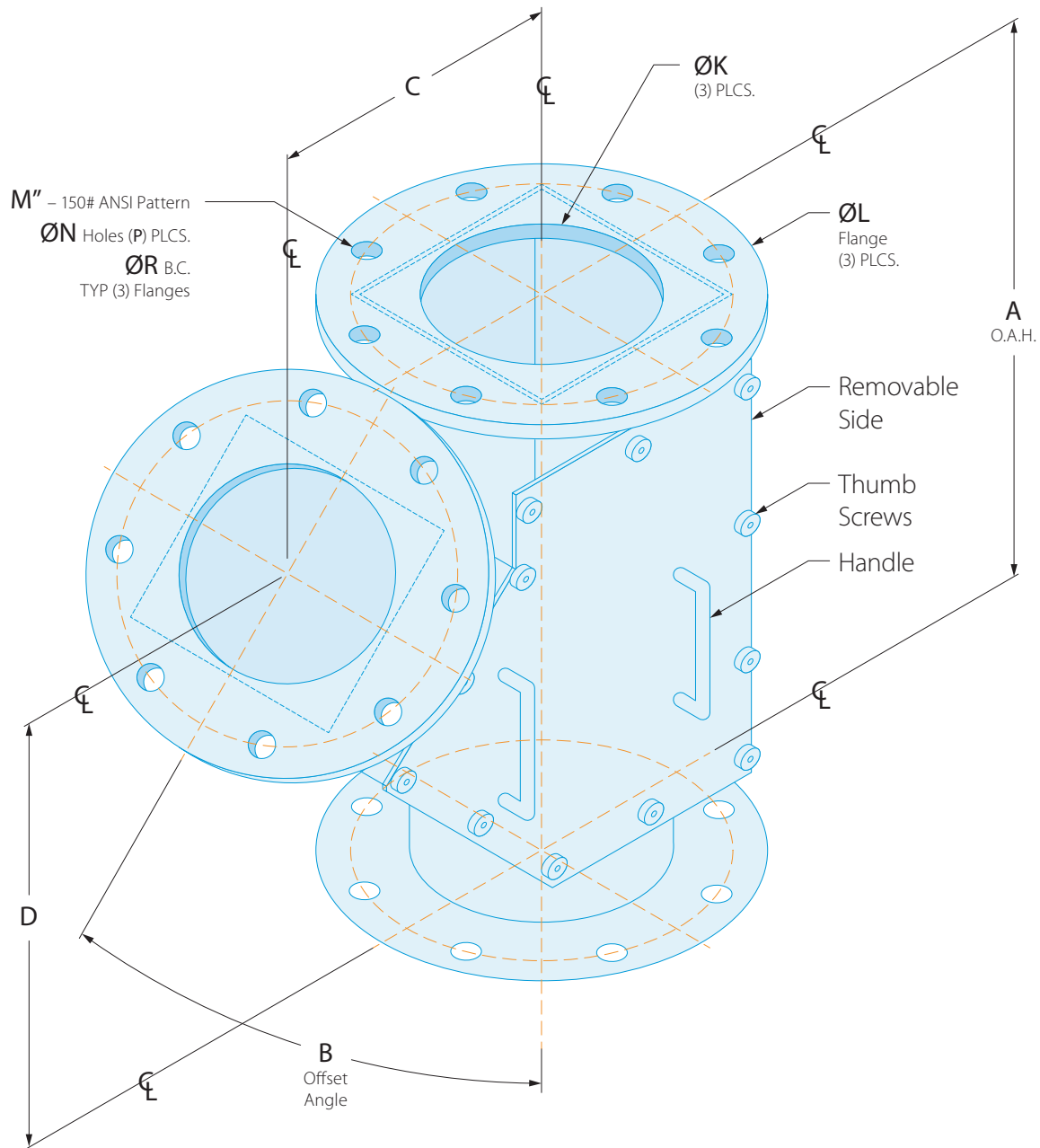


*To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-RS-OC30-03-304** = (Splitter/Converger Round to Square, Offset 30 degrees, 3 inch, 304 Stainless Steel)

Round - Square Offset Converger															
Part No.	A (O.A.H.)	B	C	D	E	F	G	H	J	K	L	M	N	P	R
SC-RS-OC30-03-XXX	15.25"	30°	5.98"	14.25"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-RS-OC45-03-XXX	13.25"	45°	6.18"	10.25"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-RS-OC30-04-XXX	17.50"	30°	6.87"	15.75"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-RS-OC45-04-XXX	14.63"	45°	6.87"	11.75"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-RS-OC30-06-XXX	23.25"	30°	8.66"	21.00"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-RS-OC45-06-XXX	18.50"	45°	8.50"	15.25"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-RS-OC30-08-XXX	31.25"	30°	11.47"	28.25"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-RS-OC45-08-XXX	24.38"	45°	10.56"	19.88"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-RS-OC30-10-XXX	38.20"	30°	13.52"	34.75"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RS-OC45-10-XXX	29.00"	45°	12.82"	24.06"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RS-OC30-12-XXX	46.00"	30°	16.73"	41.63"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"
SC-RS-OC45-12-XXX	34.75"	45°	16.10"	28.75"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"

Round to Round Offset Converger

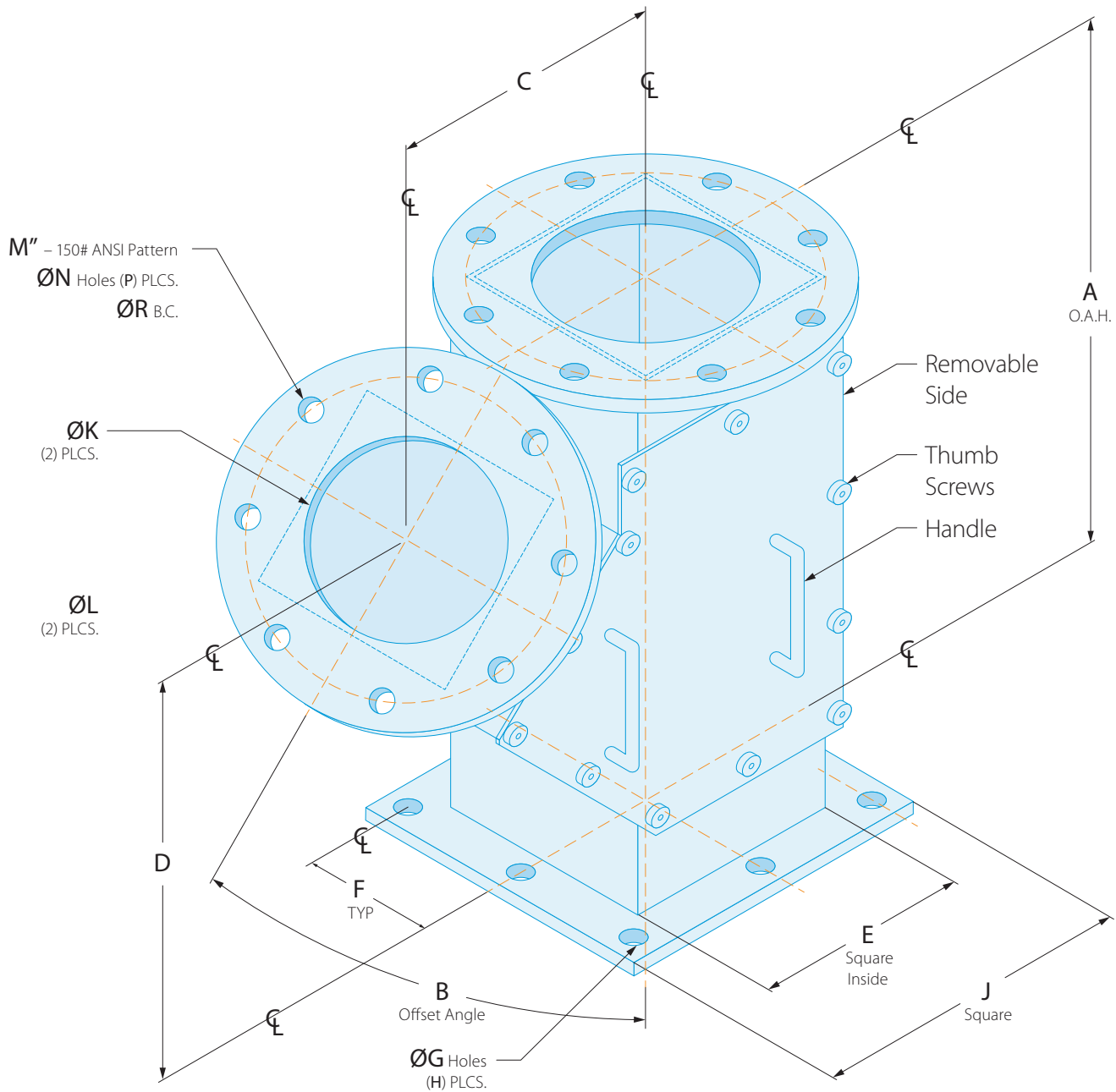


* To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-RR-OC30-03-304** = (Splitter/Converger Round to Round, Offset 30 degrees, 3 inch, 304 Stainless Steel)

Round - Round Offset Converger										
Part No.	A (O.A.H.)	B	C	D	K	L	M	N	P	R
SC-RR-OC30-03-XXX	17.63"	30°	7.20"	15.70"	7.50"	3.00"	3	.75"	4	6.00"
SC-RR-OC45-03-XXX	14.13"	45°	6.90"	11.35"	7.50"	3.00"	3	.75"	4	6.00"
SC-RR-OC30-04-XXX	21.50"	30°	8.75"	19.25"	9.00"	4.00"	4	.75"	8	7.50"
SC-RR-OC45-04-XXX	17.00"	45°	8.04"	13.67"	9.00"	4.00"	4	.75"	8	7.50"
SC-RR-OC30-06-XXX	23.93"	30°	9.09"	21.50"	11.00"	6.00"	6	.75"	8	9.50"
SC-RR-OC45-06-XXX	20.12"	45°	9.56"	16.43"	11.00"	6.00"	6	.75"	8	9.50"
SC-RR-OC30-08-XXX	32.37"	30°	12.00"	29.17"	13.50"	8.00"	8	.75"	8	11.75"
SC-RR-OC45-08-XXX	26.38"	45°	12.00"	21.32"	13.50"	8.00"	8	.75"	8	11.75"
SC-RR-OC30-10-XXX	41.50"	30°	15.70"	37.25"	16.00"	10.00"	10	1.00"	12	14.25"
SC-RR-OC45-10-XXX	32.00"	45°	14.75"	26.31"	16.00"	10.00"	10	1.00"	12	14.25"
SC-RR-OC30-12-XXX	48.75"	30°	18.10"	44.00"	19.00"	12.00"	12	1.00"	12	17.00"
SC-RR-OC45-12-XXX	38.00"	45°	18.00"	30.65"	19.00"	12.00"	12	1.00"	12	17.00"

Square to Round Offset Converger

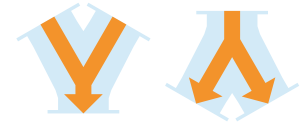


* To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

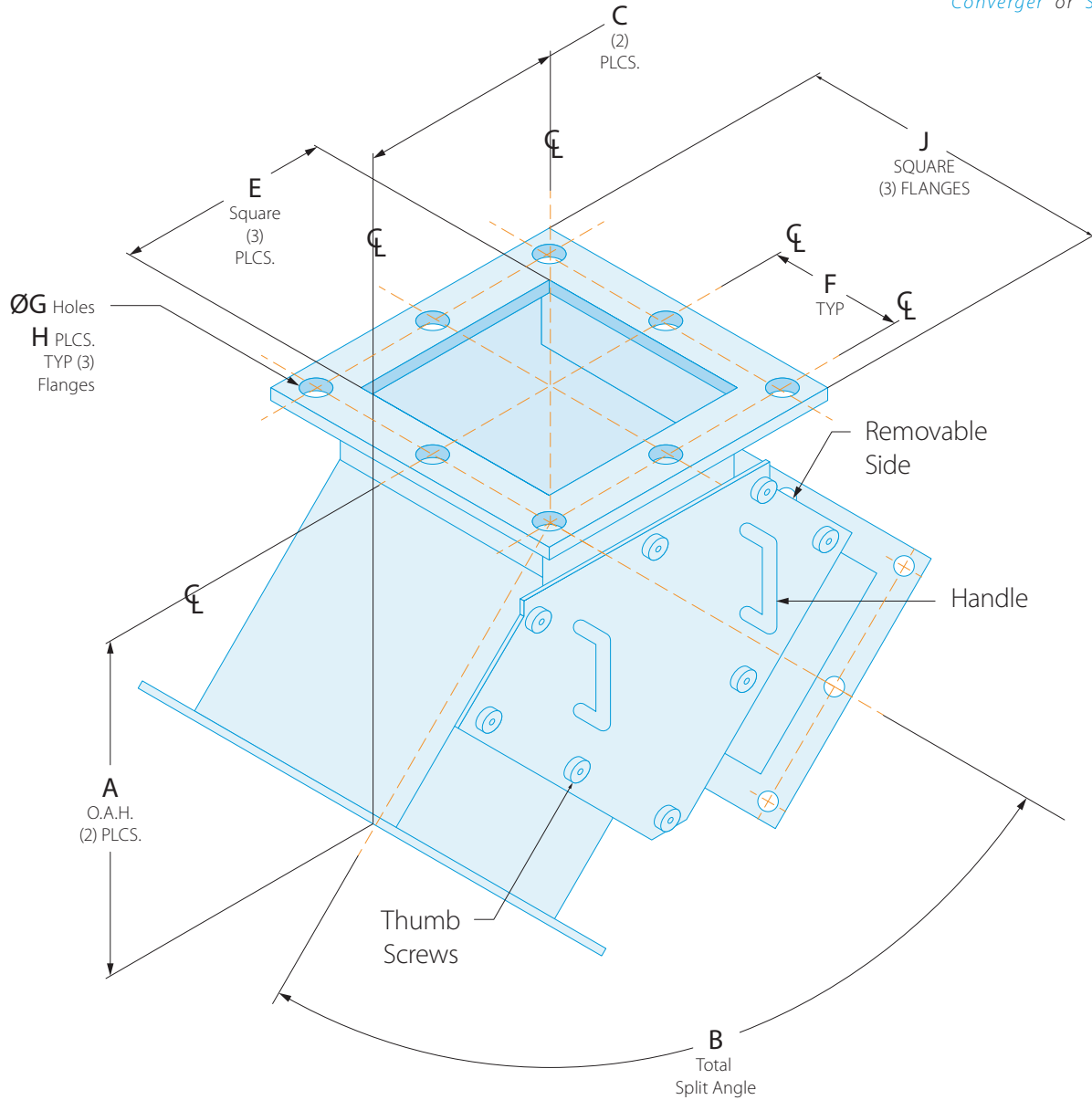
Part Number Example: **SC-SR-OC30-03-304** = (Splitter/Converger Square to Round, Offset 30 degrees, 3 inch, 304 Stainless Steel)

Square - Round Offset Converger															
Part No.	A (O.A.H.)	B	C	D	E	F	G	H	J	K	L	M	N	P	R
SC-SR-OC30-03-XXX	16.81"	30°	7.20"	15.12"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-SR-OC45-03-XXX	12.75"	45°	6.90"	9.71"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-SR-OC30-04-XXX	19.25"	30°	8.75"	17.00"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-SR-OC45-04-XXX	15.00"	45°	8.75"	11.38"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-SR-OC30-06-XXX	20.43"	30°	9.09"	18.00"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-SR-OC45-06-XXX	19.25"	45°	11.68"	14.68"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-SR-OC30-08-XXX	26.12"	30°	12.00"	22.92"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-SR-OC45-08-XXX	25.63"	45°	14.80"	19.37"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-SR-OC30-10-XXX	36.25"	30°	15.82"	31.21"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-SR-OC45-10-XXX	29.75"	45°	17.92"	23.23"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-SR-OC30-12-XXX	41.00"	30°	18.09"	36.24"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"
SC-SR-OC45-12-XXX	33.25"	45°	20.80"	25.70"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"

Square to Square Wye Converger/Splitter



Converger or Splitter



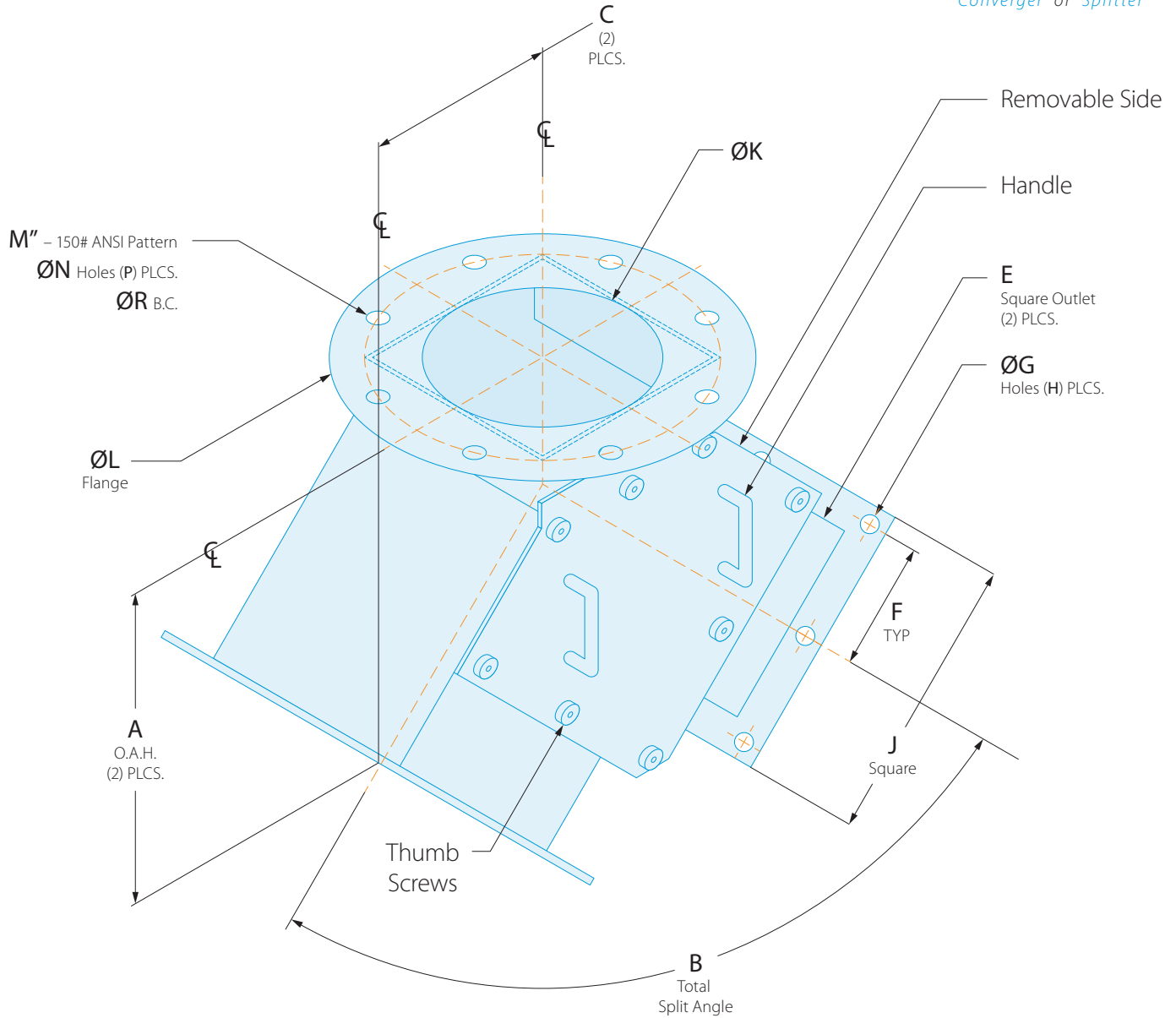
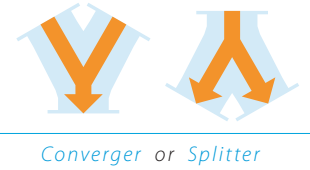
* To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-SS-W30-03-304** = (Splitter/Converger Square to Square, Wye 30 degrees, 3 inch, 304 Stainless Steel)

Square - Square WYE Converger/Splitter

Part No.	A (O.A.H.)	B	C	E	F	G	H	J
SC-SS-W30-03-XXX	9.00"	60°	3.58"	3.00"	2.62"	.44"	8	6.00"
SC-SS-W45-03-XXX	6.50"	90°	3.69"	3.00"	2.62"	.44"	8	6.00"
SC-SS-W30-04-XXX	10.50"	60°	4.22"	4.00"	3.12"	.44"	8	7.00"
SC-SS-W45-04-XXX	7.00"	90°	3.81"	4.00"	3.12"	.44"	8	7.00"
SC-SS-W30-06-XXX	11.25"	60°	4.40"	6.00"	4.00"	.44"	8	9.00"
SC-SS-W45-06-XXX	10.25"	90°	6.24"	6.00"	4.00"	.44"	8	9.00"
SC-SS-W30-08-XXX	14.00"	60°	6.02"	8.00"	3.62"	.62"	12	12.00"
SC-SS-W45-08-XXX	9.67"	90°	5.50"	8.00"	3.62"	.62"	12	12.00"
SC-SS-W30-10-XXX	16.80"	60°	7.50"	10.00"	4.25"	.62"	12	14.00"
SC-SS-W45-10-XXX	12.00"	90°	6.69"	10.00"	4.25"	.62"	12	14.00"
SC-SS-W30-12-XXX	18.63"	60°	8.07"	12.00"	5.12"	.62"	12	17.00"
SC-SS-W45-12-XXX	12.47"	90°	7.07"	12.00"	5.12"	.62"	12	17.00"

Round to Square Wye Converger/Splitter



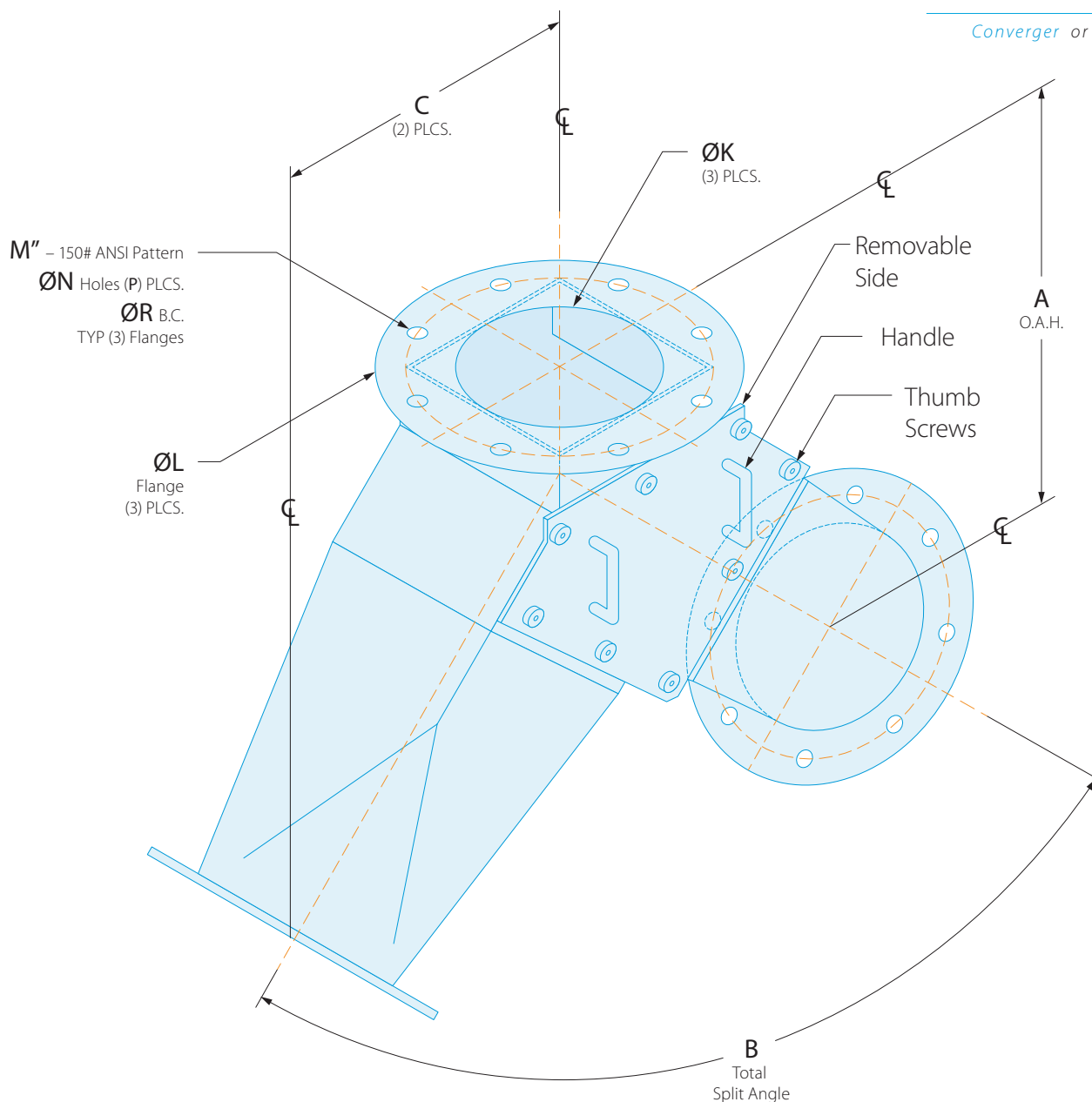
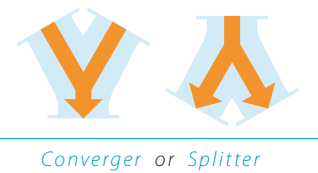
* To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-RS-W30-03-304** = (Splitter/Converger Round to Square, Wye 30 degrees, 3 inch, 304 Stainless Steel)

Round - Square Wye Converger/Splitter

Part No.	A (O.A.H.)	B	C	E	F	G	H	J	K	L	M	N	P	R
SC-RS-W30-03-XXX	9.00"	60°	3.58"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-RS-W45-03-XXX	6.50"	90°	3.69"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-RS-W30-04-XXX	10.50"	60°	4.22"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-RS-W45-04-XXX	7.00"	90°	3.81"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-RS-W30-06-XXX	11.25"	60°	4.40"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-RS-W45-06-XXX	10.25"	90°	6.24"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-RS-W30-08-XXX	14.00"	60°	6.02"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-RS-W45-08-XXX	9.67"	90°	5.50"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-RS-W30-10-XXX	16.80"	60°	7.50"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RS-W45-10-XXX	12.00"	90°	6.69"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RS-W30-12-XXX	18.63"	60°	8.07"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"
SC-RS-W45-12-XXX	12.47"	90°	7.07"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"

Round to Round Wye Converger/Splitter



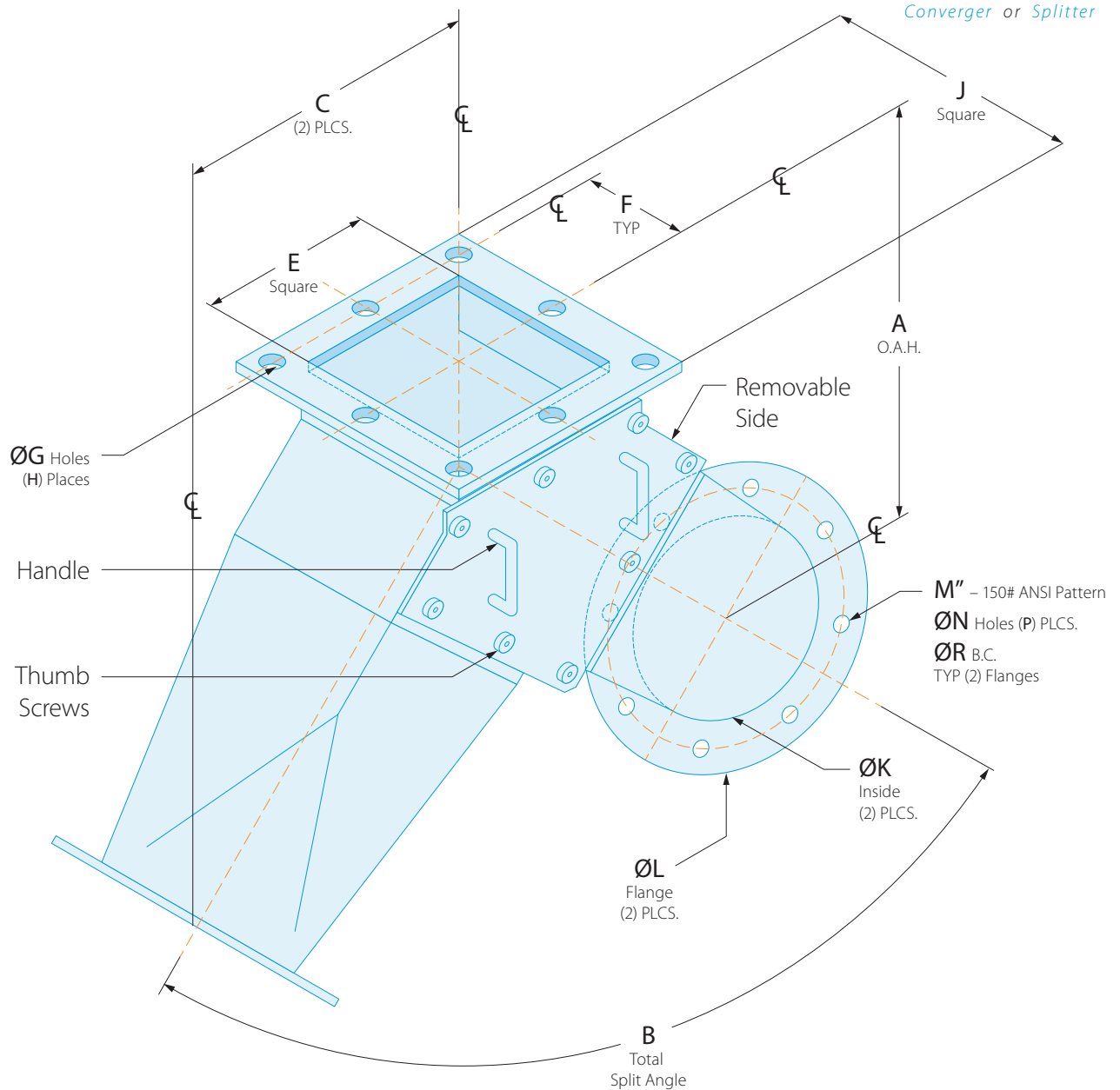
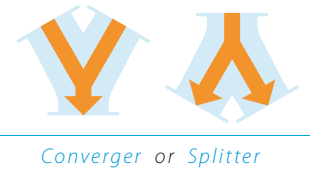
*To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-RR-W30-03-304** = (Splitter/Converger Round to Round, Wye 30 degrees, 3 inch, 304 Stainless Steel)

Round - Round Wye Converger/Splitter

Part No.	A (O.A.H.)	B	C	K	L	M	N	P	R
SC-RR-W30-03-XXX	10.75"	60°	4.59"	3.00"	7.50"	3	.75"	4	6.00"
SC-RR-W45-03-XXX	8.00"	90°	5.19"	3.00"	7.50"	3	.75"	4	6.00"
SC-RR-W30-04-XXX	12.25"	60°	5.23"	4.00"	9.00"	4	.75"	8	7.50"
SC-RR-W45-04-XXX	9.00"	90°	5.81"	4.00"	9.00"	4	.75"	8	7.50"
SC-RR-W30-06-XXX	14.25"	60°	6.16"	6.00"	11.00"	6	.75"	8	9.50"
SC-RR-W45-06-XXX	12.75"	90°	8.71"	6.00"	11.00"	6	.75"	8	9.50"
SC-RR-W30-08-XXX	19.17"	60°	9.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-RR-W45-08-XXX	13.23"	90°	9.06"	8.00"	13.50"	8	.75"	8	11.75"
SC-RR-W30-10-XXX	20.13"	60°	9.42"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RR-W45-10-XXX	15.92"	90°	10.61"	10.00"	16.00"	10	1.00"	12	14.25"
SC-RR-W30-12-XXX	23.38"	60°	10.82"	12.00"	19.00"	12	1.00"	12	17.00"
SC-RR-W45-12-XXX	17.50"	90°	12.10"	12.00"	19.00"	12	1.00"	12	17.00"

Square to Round Wye Converger/Splitter



*To indicate material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SC-SR-W30-03-304** = (Splitter/Converger Square to Round, Wye 30 degrees, 3 inch, 304 Stainless Steel)

Square - Round Wye Converger/Splitter

Part No.	A (O.A.H.)	B	C	E	F	G	H	J	K	L	M	N	P	R
SC-SR-W30-03-XXX	10.75"	60°	4.59"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-SR-W45-03-XXX	8.00"	90°	5.19"	3.00"	2.62"	.44"	8	6.00"	3.00"	7.50"	3	.75"	4	6.00"
SC-SR-W30-04-XXX	12.25"	60°	5.23"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-SR-W45-04-XXX	9.00"	90°	5.81"	4.00"	3.12"	.44"	8	7.00"	4.00"	9.00"	4	.75"	8	7.50"
SC-SR-W30-06-XXX	14.25"	60°	6.16"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-SR-W45-06-XXX	12.75"	90°	8.71"	6.00"	4.00"	.44"	8	9.00"	6.00"	11.00"	6	.75"	8	9.50"
SC-SR-W30-08-XXX	19.17"	60°	9.00"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-SR-W45-08-XXX	13.23"	90°	9.06"	8.00"	3.62"	.62"	12	12.00"	8.00"	13.50"	8	.75"	8	11.75"
SC-SR-W30-10-XXX	20.13"	60°	9.42"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-SR-W45-10-XXX	15.92"	90°	10.61"	10.00"	4.25"	.62"	12	14.00"	10.00"	16.00"	10	1.00"	12	14.25"
SC-SR-W30-12-XXX	23.38"	60°	10.82"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"
SC-SR-W45-12-XXX	17.50"	90°	12.10"	12.00"	5.12"	.62"	12	17.00"	12.00"	19.00"	12	1.00"	12	17.00"

Process Transitions

by **Roto-Disc®**

Full Range of Process Transitions for Original Equipment or Retrofit Powder Bulk Solid: Vessels, Valves, Screeners, Mixers and Piping

Have you ever been frustrated with process transition fabrication?

It seems easy, but material thickness, flange precision and overall lengths can all affect outcome. Many times the transition isn't specified properly or the fabricator doesn't understand the end result that is needed. Roto-Disc has taken all of the hassle out of precision standard transitions that install just as expected, right out of the box.

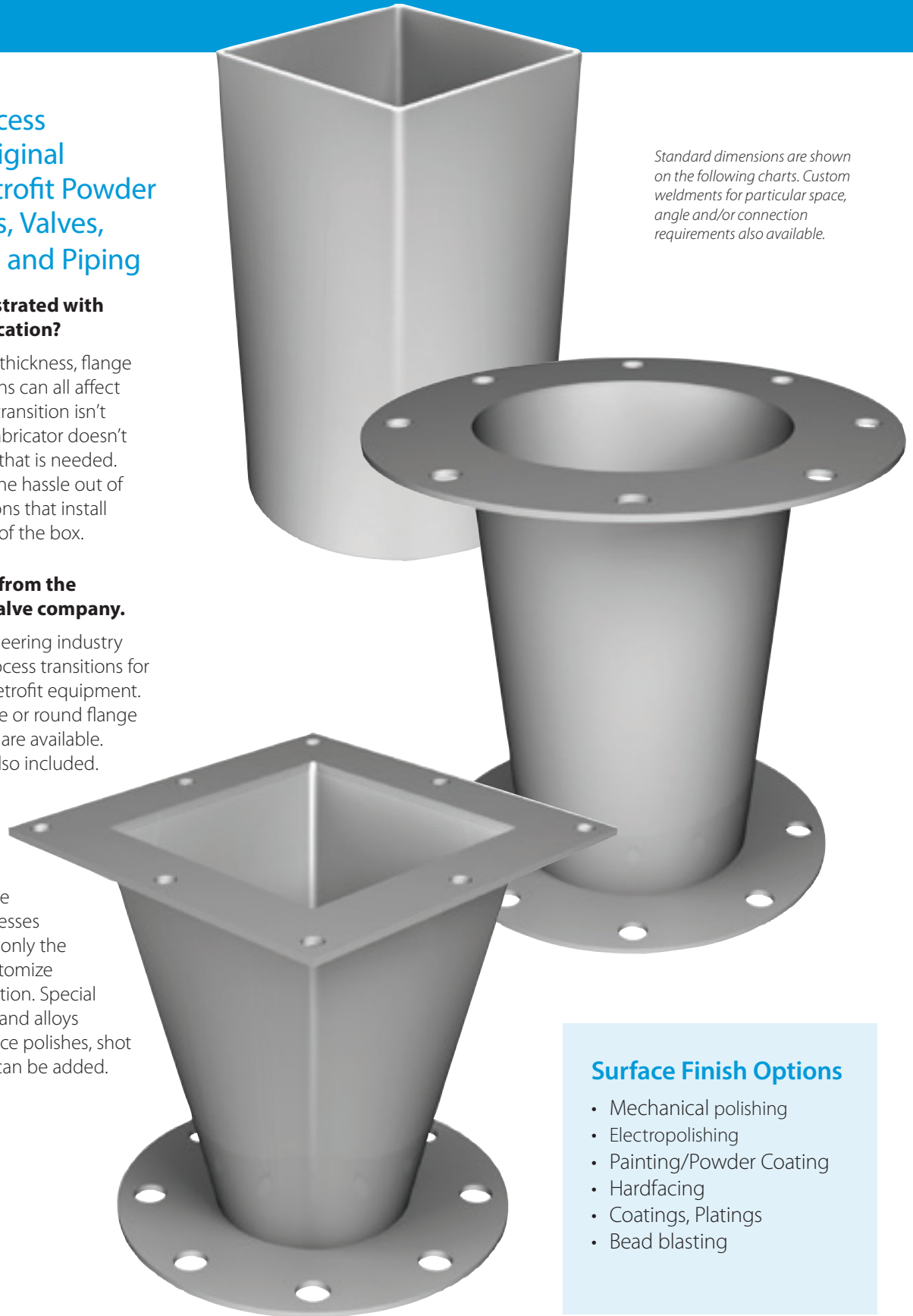
A process industry first from the "When-All-Else-Fails" valve company.

Now the power bulk engineering industry has a stock selection of process transitions for the installation of new or retrofit equipment. A complete range of square or round flange dimensions and diameters are available. Flangeless transitions are also included.

Custom sizes, materials and surface finishes.

The following pages outline many sizes, material thicknesses and end types, but they're only the start of our capacity to customize your specific process transition. Special dimensions, stainless steel and alloys materials, food-grade surface polishes, shot blast or polymer coatings can be added.

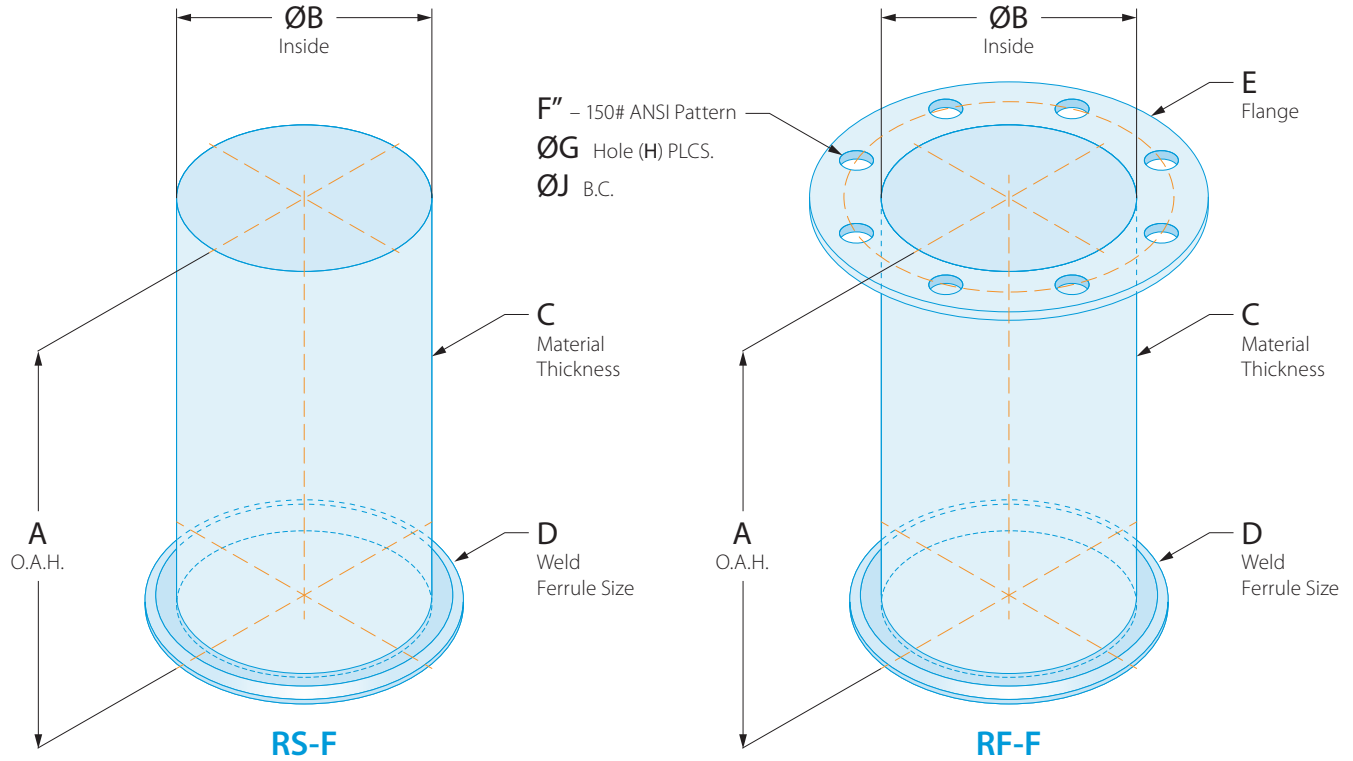
Standard dimensions are shown on the following charts. Custom weldments for particular space, angle and/or connection requirements also available.



Surface Finish Options

- Mechanical polishing
- Electropolishing
- Painting/Powder Coating
- Hardfacing
- Coatings, Platings
- Bead blasting

Sanitary Clamp Ferrule Connections

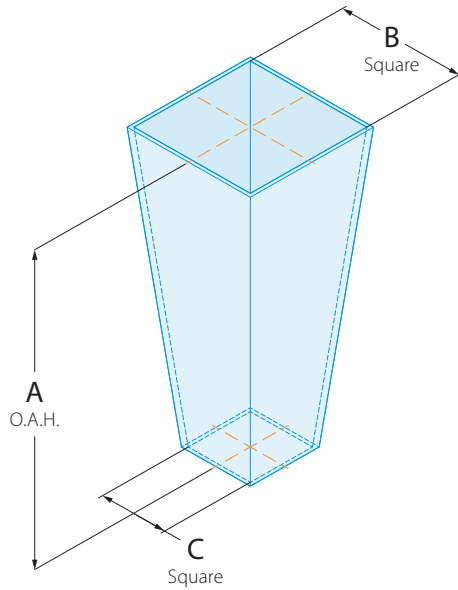


* To indicate duty grade and material preference add the following to the end of each part number: 1) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

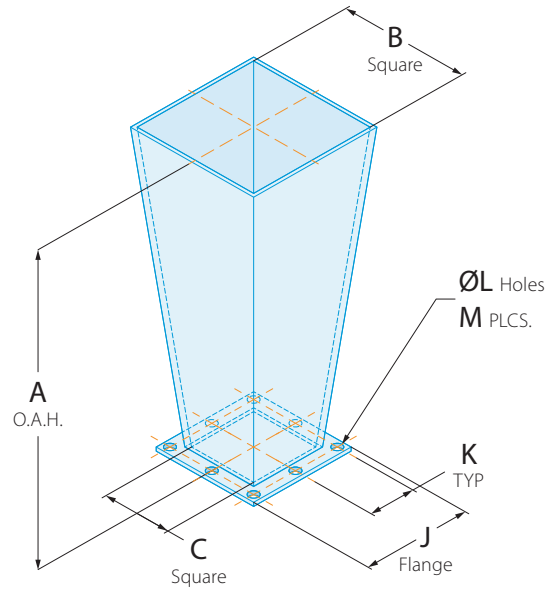
Part Number Example: **RS-F-03-316** = (Round Stub to Ferrule, 3", 316 Stainless Steel)

RS-F Round Stub to Ferrule					RF-F Round Flange to Ferrule					
Part No.	A Min	B	C	D	Part No.	E	F	G	H	J
RS-F-03-XXX	2.00"	2.870"	#16ga (.0598")	3.00"	RF-F-03-XXX	7.50"	3"	.75"	4	6.00"
RS-F-04-XXX	2.00"	3.834"	#14ga (.0747")	4.00"	RF-F-04-XXX	9.00"	4"	.75"	8	7.50"
RS-F-06-XXX	2.00"	5.782"	#11ga (.1196")	6.00"	RF-F-06-XXX	11.00"	6"	.75"	8	9.50"
RS-F-08-XXX	2.00"	7.782"	#11ga (.1196")	8.00"	RF-F-08-XXX	13.50"	8"	.75"	8	11.75"
RS-F-10-XXX	2.00"	9.732"	#11ga (.1196")	10.00"	RF-F-10-XXX	16.00"	10"	1.00"	12	14.25"
RS-F-12-XXX	2.00"	11.732"	#11ga (.1196")	12.00"	RF-F-12-XXX	19.00"	12"	1.00"	12	17.00"

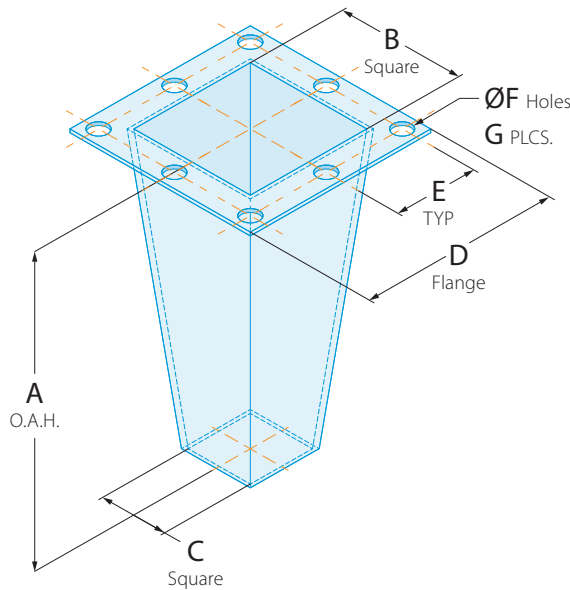
Square to Reduced Square Transition (SRS)



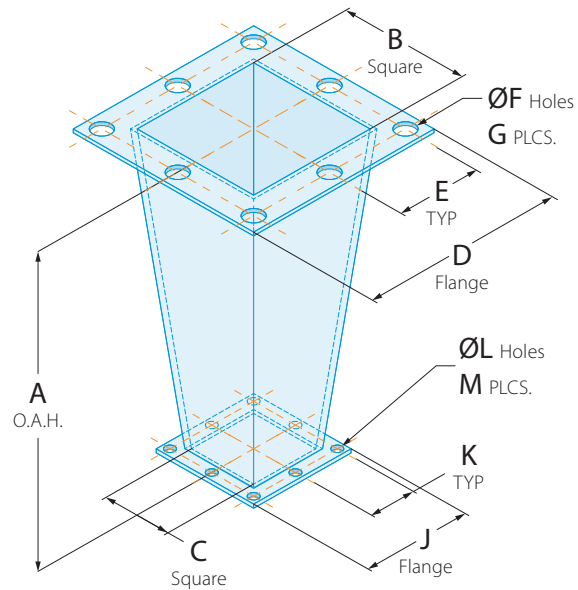
SRS-SE



SRS-SF



SRS-LF



SRS-BF

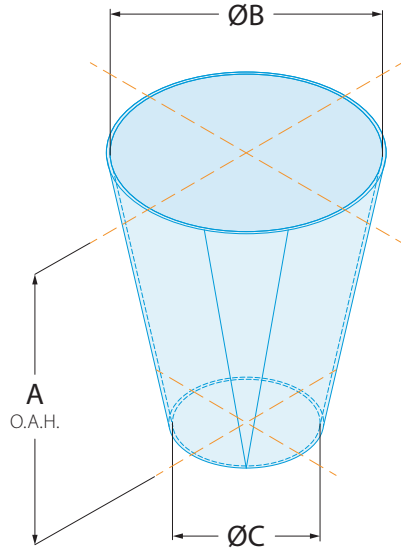
* To indicate duty grade and material preference add the following to the end of each part number: 1) Duty Grade: **L** = Light; **M** = Medium; **H** = Heavy; 2) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SRS-SE-03-L-316** = (Square to Reduced Square, Stub End, 3", Light Duty, 316 Stainless Steel)

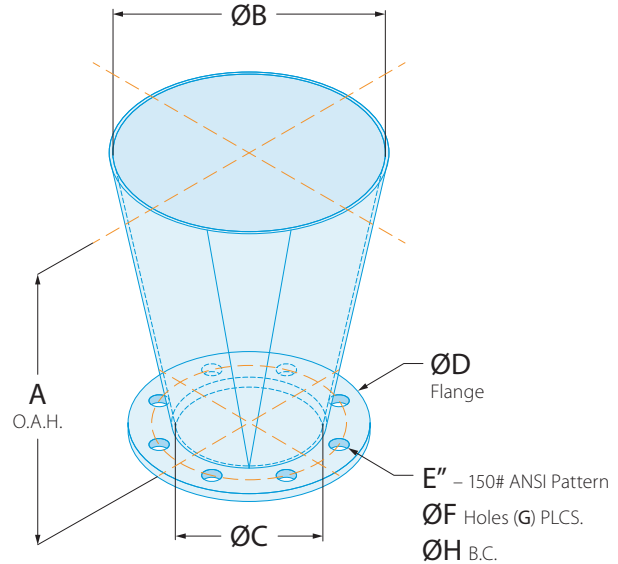
SRS-SE Square to Reduced Square, Stub Ends				SRS-LF Square to Reduced Square, Large Flange					SRS-SF Square to Reduced Square, Small Flange					SRS-BF Both Flanges
Part No.	A Min	B	C	Part No.	D	E	F	G	Part No.	J	K	L	M	Part No.
SRS-SE-03-XXX	2.25"	3.00"	2.00"	SRS-LF-03-XXX	6.00"	2.62"	.44"	8	SRS-SF-03-XXX	4.00"	1.62"	.31"	8	SRS-BF-03-XXX
SRS-SE-04-XXX	3.00"	4.00"	3.00"	SRS-LF-04-XXX	7.00"	3.12"	.44"	8	SRS-SF-04-XXX	6.00"	2.62"	.44"	8	SRS-BF-04-XXX
SRS-SE-06-XXX	4.50"	6.00"	4.00"	SRS-LF-06-XXX	9.00"	4.00"	.44"	8	SRS-SF-06-XXX	7.00"	3.12"	.44"	8	SRS-BF-06-XXX
SRS-SE-08-XXX	6.00"	8.00"	6.00"	SRS-LF-08-XXX	12.00"	3.62"	.62"	12	SRS-SF-08-XXX	9.00"	4.00"	.44"	8	SRS-BF-08-XXX
SRS-SE-10-XXX	7.50"	10.00"	8.00"	SRS-LF-10-XXX	14.00"	4.25"	.62"	12	SRS-SF-10-XXX	12.00"	3.62"	.62"	12	SRS-BF-10-XXX
SRS-SE-12-XXX	9.00"	12.00"	10.00"	SRS-LF-12-XXX	17.00"	5.12"	.62"	12	SRS-SF-12-XXX	14.00"	4.25"	.62"	12	SRS-BF-12-XXX

Material Thickness: Light: **#14ga** = .0747" Medium: **#11ga** = .1196" Heavy: **#7ga** = .1793"

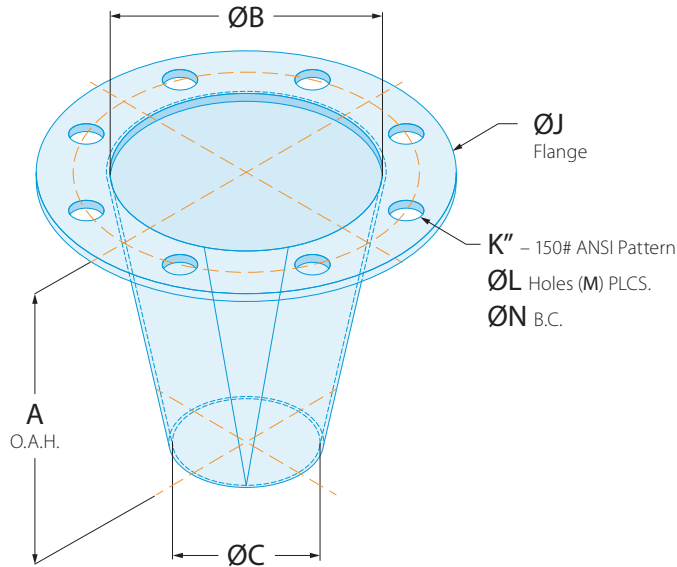
Round to Reduced Round Transition (RRR)



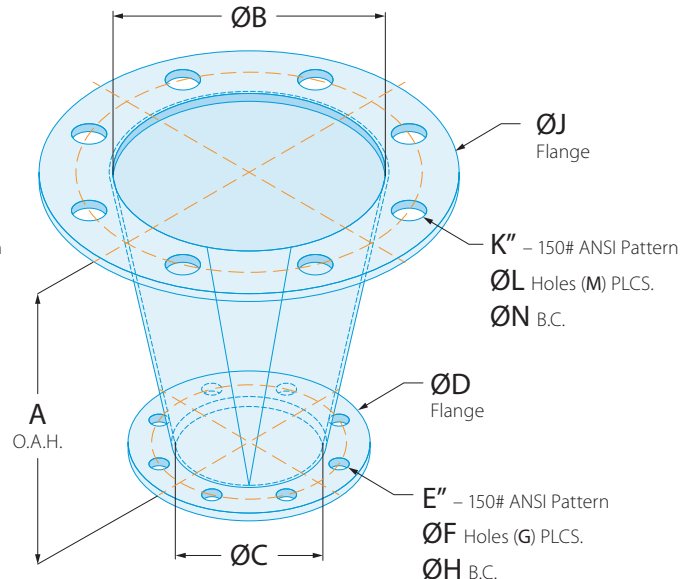
RRR-SE



RRR-SF



RRR-LF



RRR-BF

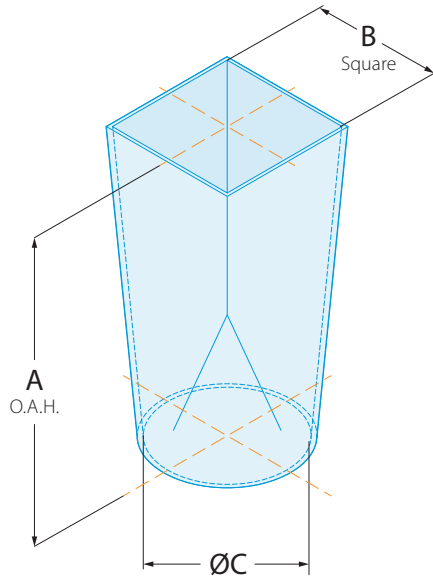
* To indicate duty grade and material preference add the following to the end of each part number: 1) Duty Grade: **L** = Light; **M** = Medium; **H** = Heavy; 2) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **RRR-SE-03-L-316** = (Round to Reduced Round, Stub End, 3", Light Duty, 316 Stainless Steel)

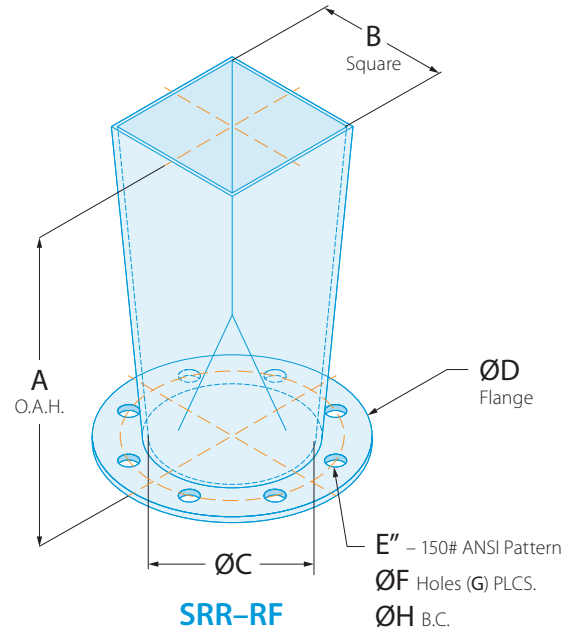
RRR-SE Round to Reduced Round, Stub Ends				RRR-SF Round to Reduced Round, Small Flange						RRR-LF Round to Reduced Round, Large Flange						RRR-BF Both Flanges
Part No.	A Min	B	C	Part No.	D	E	F	G	H	Part No.	J	K	L	M	N	Part No.
RRR-SE-03-XXX	2.25"	3.00"	2.00"	RRR-SF-03-XXX	6.00"	2"	.75"	4	4.75"	RRR-LF-03-XXX	7.50"	3"	.75"	4	6.00"	RRR-BF-03-XXX
RRR-SE-04-XXX	3.00"	4.00"	3.00"	RRR-SF-04-XXX	7.50"	3"	.75"	4	6.00"	RRR-LF-04-XXX	9.00"	4"	.75"	8	7.50"	RRR-BF-04-XXX
RRR-SE-06-XXX	4.50"	6.00"	4.00"	RRR-SF-06-XXX	9.00"	4"	.75"	8	7.50"	RRR-LF-06-XXX	11.00"	6"	.75"	8	9.50"	RRR-BF-06-XXX
RRR-SE-08-XXX	6.00"	8.00"	6.00"	RRR-SF-08-XXX	11.00"	6"	.75"	8	9.50"	RRR-LF-08-XXX	13.50"	8"	.75"	8	11.75"	RRR-BF-08-XXX
RRR-SE-10-XXX	7.50"	10.00"	8.00"	RRR-SF-10-XXX	13.50"	8"	.75"	8	11.75"	RRR-LF-10-XXX	16.00"	10"	1.00"	12	14.25"	RRR-BF-10-XXX
RRR-SE-12-XXX	9.00"	12.00"	10.00"	RRR-SF-12-XXX	16.00"	10"	1.00"	12	14.25"	RRR-LF-12-XXX	19.00"	12"	1.00"	12	17.00"	RRR-BF-12-XXX

Material Thickness: Light: #14ga = .0747" Medium: #11ga = .1196" Heavy: #7ga = .1793"

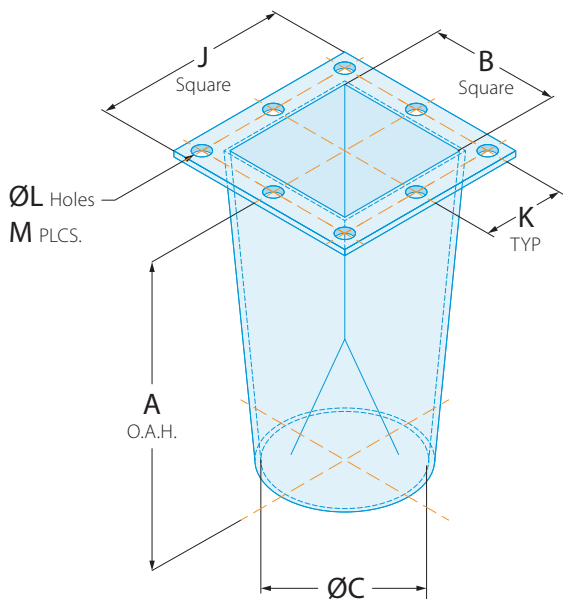
Square to Reduced Round Transition (SRR)



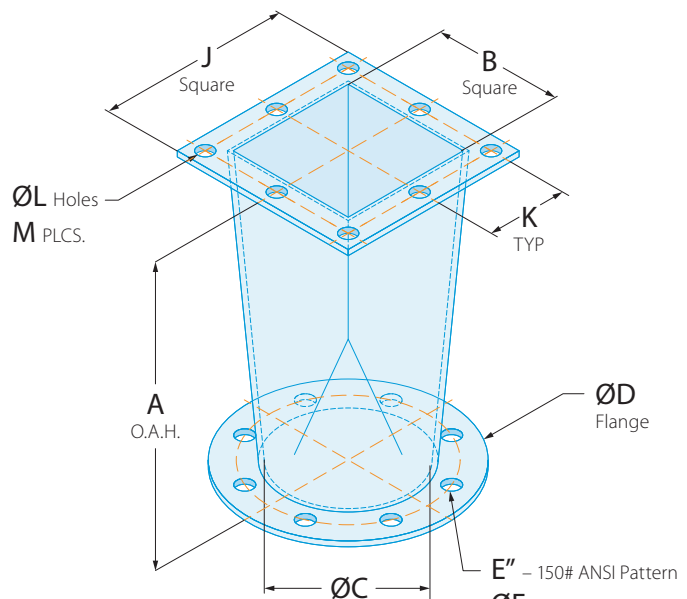
SRR-RE



SRR-RF



SRR-SF



SRR-BF

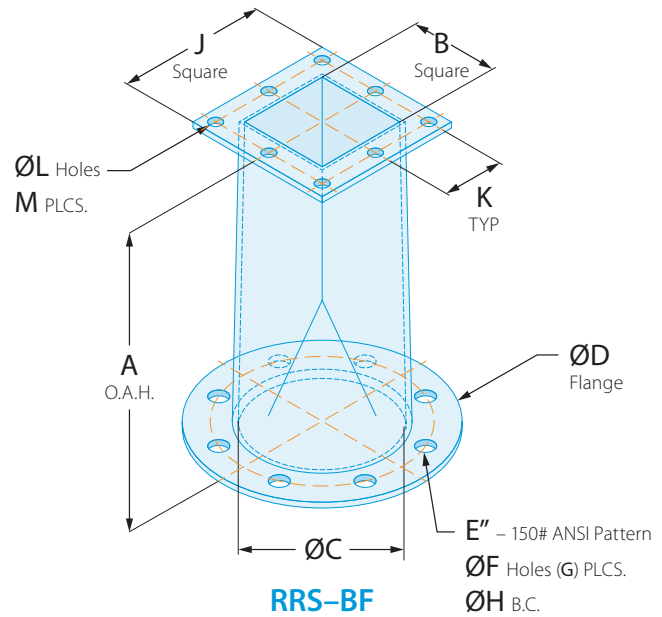
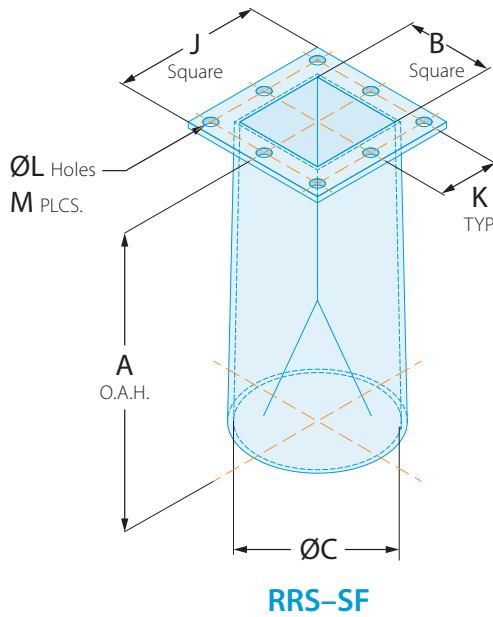
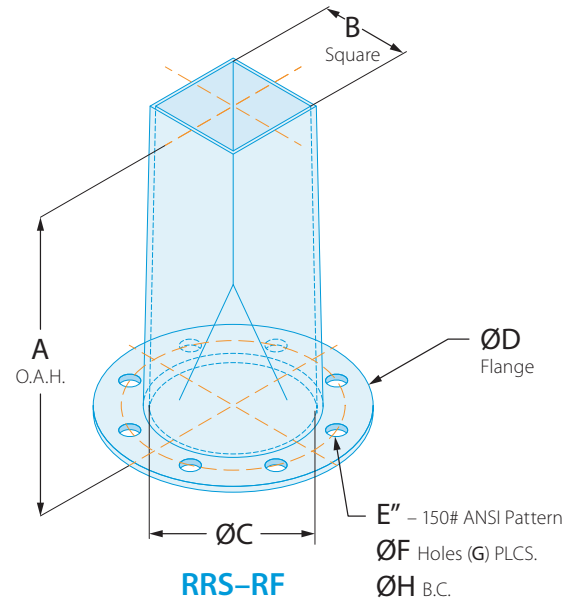
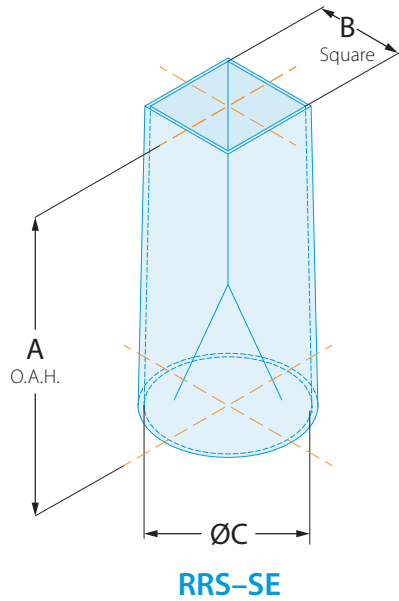
* To indicate duty grade and material preference add the following to the end of each part number: 1) Duty Grade: **L** = Light; **M** = Medium; **H** = Heavy; 2) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **SRR-SE-03-L-316** = (Square to Reduced Round, Stub End, 3", Light Duty, 316 Stainless Steel)

SRR-SE Square to Reduced Round, Stub Ends				SRR-RF Square to Reduced Round, Round Flange/Sq Flange					SRR-SF Square to Reduced Round, Both Flanges					SRR-BF Both Flanges	
Part No.	A Min	B	C	Part No.	D	E	F	G	H	Part No.	J	K	L	M	Part No.
SRR-SE-03-XXX	2.25"	3.00"	2.00"	SRR-RF-03-XXX	6.00"	2"	.75"	4	4.75"	SRR-SF-03-XXX	6.00"	2.62"	.44"	8	SRR-BF-03-XXX
SRR-SE-04-XXX	3.00"	4.00"	3.00"	SRR-RF-04-XXX	7.50"	3"	.75"	4	6.00"	SRR-SF-04-XXX	7.00"	3.12"	.44"	8	SRR-BF-04-XXX
SRR-SE-06-XXX	4.50"	6.00"	4.00"	SRR-RF-06-XXX	9.00"	4"	.75"	8	7.50"	SRR-SF-06-XXX	9.00"	4.00"	.44"	8	SRR-BF-06-XXX
SRR-SE-08-XXX	6.00"	8.00"	6.00"	SRR-RF-08-XXX	11.00"	6"	.75"	8	9.50"	SRR-SF-08-XXX	12.00"	3.62"	.62"	12	SRR-BF-08-XXX
SRR-SE-10-XXX	7.50"	10.00"	8.00"	SRR-RF-10-XXX	13.50"	8"	.75"	8	11.75"	SRR-SF-10-XXX	14.00"	4.25"	.62"	12	SRR-BF-10-XXX
SRR-SE-12-XXX	9.00"	12.00"	10.00"	SRR-RF-12-XXX	16.00"	10"	1.00"	12	14.25"	SRR-SF-12-XXX	17.00"	5.12"	.62"	12	SRR-BF-12-XXX

Material Thickness: Light: **#14ga** = .0747" Medium: **#11ga** = .1196" Heavy: **#7ga** = .1793"

Round to Reduced Square Transition (RRS)



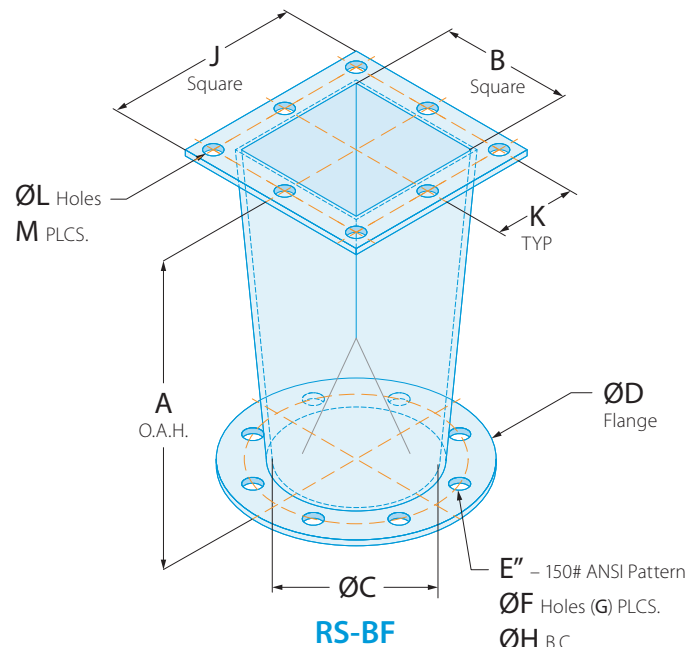
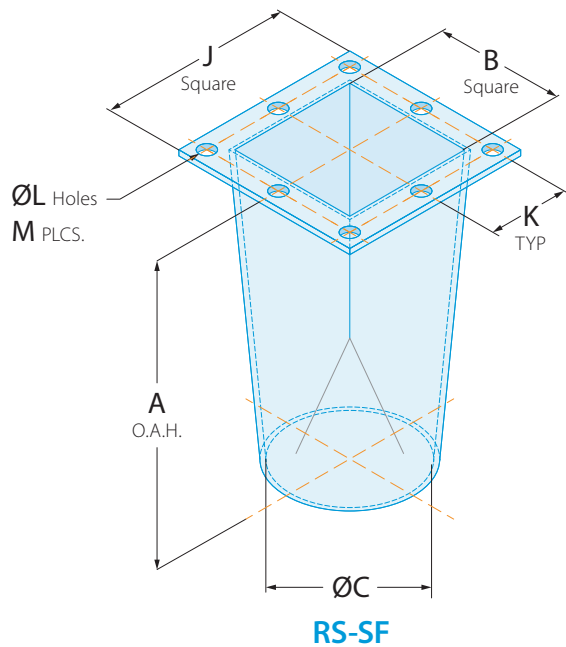
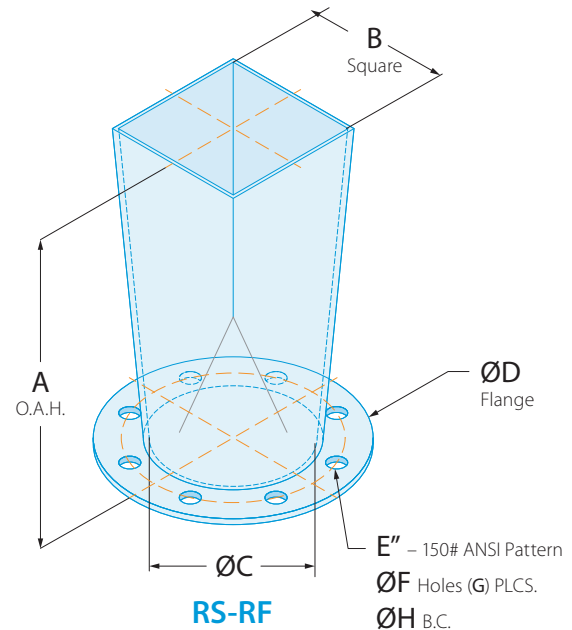
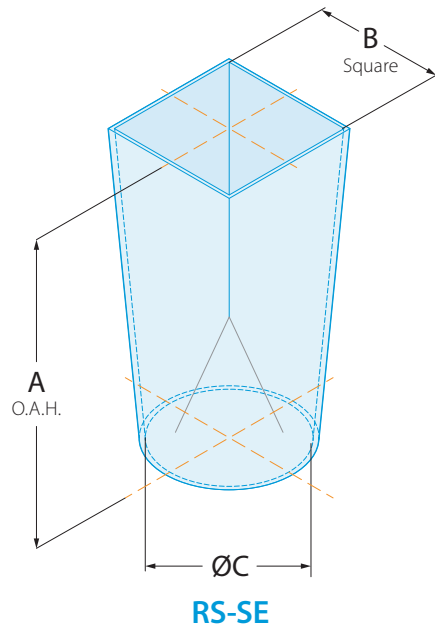
* To indicate duty grade and material preference add the following to the end of each part number: 1) Duty Grade: **L** = Light; **M** = Medium; **H** = Heavy; 2) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **RRS-SE-03-L-316** = (Round to Reduced Square, Stub End, 3", Light Duty, 316 Stainless Steel)

RRS-SE Round to Reduced Square, Stub Ends				RRS-RF Round to Reduced Square, Round Flange						RRS-SF Round to Reduced Square, Square Flange					RRS-BF Both Flanges
Part No.	A Min	B	C	Part No.	D	E	F	G	H	Part No.	J	K	L	M	Part No.
RRS-SE-03-XXX	2.25"	2.00"	3.00"	RRS-RF-03-XXX	7.50"	3"	.75"	4	6.00"	RRS-SF-03-XXX	4.00"	1.62"	.31"	8	RRS-BF-03-XXX
RRS-SE-04-XXX	3.00"	3.00"	4.00"	RRS-RF-04-XXX	9.00"	4"	.75"	8	7.50"	RRS-SF-04-XXX	6.00"	2.62"	.44"	8	RRS-BF-04-XXX
RRS-SE-06-XXX	4.50"	4.00"	6.00"	RRS-RF-06-XXX	11.00"	6"	.75"	8	9.50"	RRS-SF-06-XXX	7.00"	3.12"	.44"	8	RRS-BF-06-XXX
RRS-SE-08-XXX	6.00"	6.00"	8.00"	RRS-RF-08-XXX	13.50"	8"	.75"	8	11.75"	RRS-SF-08-XXX	9.00"	4.00"	.44"	8	RRS-BF-08-XXX
RRS-SE-10-XXX	7.50"	8.00"	10.00"	RRS-RF-10-XXX	16.00"	10"	1.00"	12	14.25"	RRS-SF-10-XXX	12.00"	3.62"	.62"	12	RRS-BF-10-XXX
RRS-SE-12-XXX	9.00"	10.00"	12.00"	RRS-RF-12-XXX	19.00"	12"	1.00"	12	17.00"	RRS-SF-12-XXX	14.00"	4.25"	.62"	12	RRS-BF-12-XXX

Material Thickness: Light: **#14ga** = .0747" Medium: **#11ga** = .1196" Heavy: **#7ga** = .1793"

Square to Round Transition (RS)



* To indicate duty grade and material preference add the following to the end of each part number: 1) Duty Grade: **L** = Light; **M** = Medium; **H** = Heavy; 2) Material: **304** = CF8; **316** = CF8M; **MST** = Mild Steel

Part Number Example: **RS-SE-03-L-316** = (Round to Square, Stub End, 3", Light Duty, 316 Stainless Steel)

RS-SE Round to Square, Stub Ends				RS-RF Round to Square, Round Flange						RS-SF Round to Square, Square Flange					RS-BF Both Flanges
Part No.	A Min	B	C	Part No.	D	E	F	G	H	Part No.	J	K	L	M	Part No.
RS-SE-03-XXX	2.25"	3.00"	3.00"	RS-RF-03-XXX	7.50"	3"	.75"	4	6.00"	RS-SF-03-XXX	6.00"	2.62"	.44"	8	RS-BF-03-XXX
RS-SE-04-XXX	3.00"	4.00"	4.00"	RS-RF-04-XXX	9.00"	4"	.75"	8	7.50"	RS-SF-04-XXX	7.00"	3.12"	.44"	8	RS-BF-04-XXX
RS-SE-06-XXX	4.50"	6.00"	6.00"	RS-RF-06-XXX	11.00"	6"	.75"	8	9.50"	RS-SF-06-XXX	9.00"	4.00"	.44"	8	RS-BF-06-XXX
RS-SE-08-XXX	6.00"	8.00"	8.00"	RS-RF-08-XXX	13.50"	8"	.75"	8	11.75"	RS-SF-08-XXX	12.00"	3.62"	.62"	12	RS-BF-08-XXX
RS-SE-10-XXX	7.50"	10.00"	10.00"	RS-RF-10-XXX	16.00"	10"	1.00"	12	14.25"	RS-SF-10-XXX	14.00"	4.25"	.62"	12	RS-BF-10-XXX
RS-SE-12-XXX	9.00"	12.00"	12.00"	RS-RF-12-XXX	19.00"	12"	1.00"	12	17.00"	RS-SF-12-XXX	17.00"	5.12"	.62"	12	RS-BF-12-XXX

Material Thickness: Light: **#14ga** = .0747" Medium: **#11ga** = .1196" Heavy: **#7ga** = .1793"



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