PC DIVERTER VALVES

Procol PC Diverters are designed to route product flow in dilute and medium phase pneumatic conveying systems handling mild or none abrasive products.

They are available in three standard configurations:

'ST' Type (Straight through)
'Y' Type

Parallel

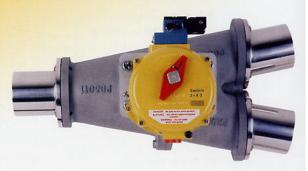
Procol PC Diverters have cast bodies fitted with stainless steel vane

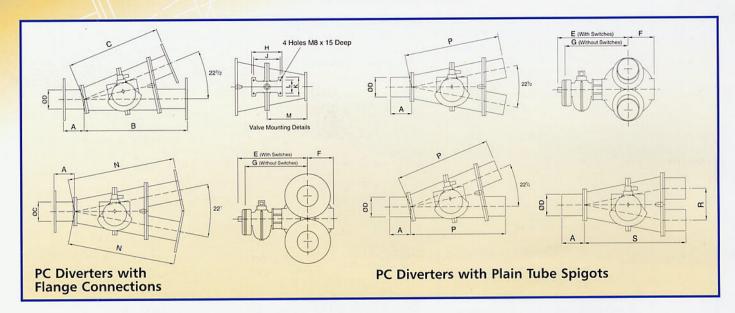
assemblies mounted in phosphor bronze bearings. The vane has a self adjusting polyurethane seal which bears on a fully machined surface to ensure a high sealing efficiency. Changes in cross sectional area are minimised through the valve to reduce conveying line pressure drop.

The Diverters are supplied with plain spigot connections as standard. Flanged connections conforming to a wide variety of pipe standards are available as an option.

Valve actuation may be manual,

pneumatic or electrically operated and are available with with various material options.



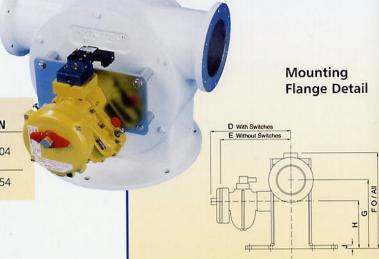


Valve Size	A	В	c	D	E	F	G	Н	J	К	L	M	N	P	R	s
50 - 2"	80	390	340	2"	245	80	190	140	124	80	60	136	450	340	100	330
75 - 3"	85	530	480	3"	265	100	210	140	124	80	60	169	550	395	120	390
100 - 4"	110	660	610	4"	340	125	295	160	140	100	70	210	600	495	150	490
125 - 5"	110	800	750	5"	390	175	345	160	140	100	70	327	650	625	200	615
150 - 6"	110	830	780	6"	390	175	345	160	140	100	70	300	750	665	216	655

Rotary Scale Valves

Valve Size	A	В	С	D	E	F	G	Н	J	K	L	M	N
50	2"												
75	3"	100	575	285	240	325	245	170	12	300	330	256	104
100	4"												
125	5"	150	675	355	320	440	320	220	12	400	430	356	154
150	6"	150	0,5	555	320	110	320		10000	100	150		







TWIN VANE SCALE VALVES

Procol Twin Vane Diventors (Scale Valves) are designed to transfer product directly from a pneumatic conveying system into a weigh hopper. They are also used in multiple silo installations where they allow the use of a single conveying line and venting system. Considerable cost savings can be achieved by using Diventors in this way.

The valves are similar in design to

Procol PC Diverter Valves. To ensure consistent weighments the vanes are operated by twin pneumatic actuators which operate simultaneously to affect a snap action cut-off

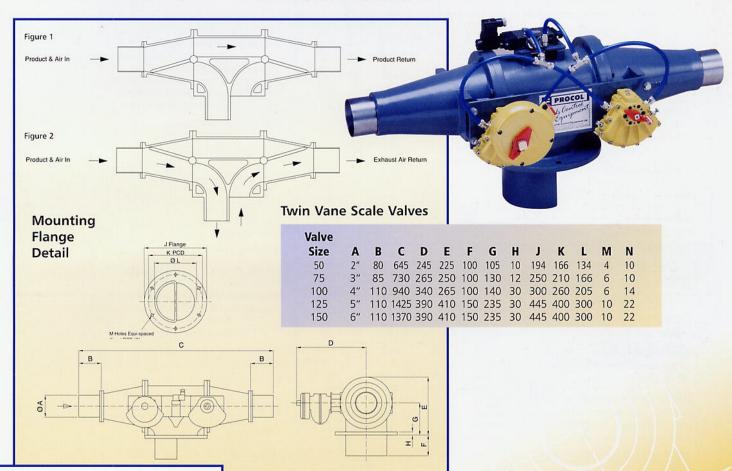
Various material options are available and the valves can be supplied with flanged connections if required.

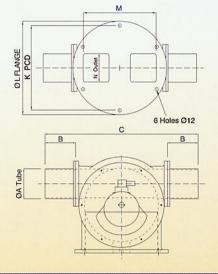
OPERATING METHOD

The valves are initially set with both vanes in the lower position as shown in Figure 1. This isolates the weigh hopper from the conveying system and allows product to pass over the

hopper. When the valve is operated the vanes move to the raised position shown in Figure 2. which allows product and air to enter the weigh hopper. The product and air separate in the hopper and the air is returned to the conveying line via the return port in the valve base.

When the correct weight is reached the vanes snap to the lower position which again isolates the hopper from the conveying line and allows excess product to be returned to the main store silo via the conveying system.





ROTARY SCALE VALVES

Rotary Scale Valves are designed for in-flow product diversion directly from a pneumatic conveying system into bulk storage and weigh hoppers. They are suitable for handling powders and granules in a wide range of industries.

The valve has a precision machined cast iron body and endplates. It is fitted with a cast iron precision machined vane, supported by phosphor bronze bushes within the

endplates and operated by a direct coupled pneumatic actuator. The valves are supplied complete with indicator switches and a solenoid operated spring return air control valve.

Rotary Scale Valves are available in two body sizes. However the use of connecting tube adaptors enable them to be used in conveying systems from 11/2" to 6" diameter.

The valves may be used with product flow from either direction and with various solenoid voltages but other variations are not available.