





your pneumatic conveying and service partners

THE ORIGINAL DOME VALVE

Heavy duty pneumatic bulk solids cut-off valve





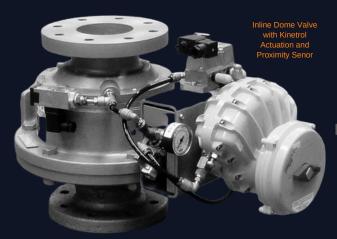
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World-wide reputation for reliability with over 100,000 installations globally.

This pressure tight actuated bulk materials cut-off valve is simple in design and construction resulting in extremely sustainable process reliability even in the most difficult of applications.

Proven in industry to be one of the toughest valves on the market to date.









- full bore unobstructed material flow
- simple, fully proven design
- can cut through moving or static columns of material
- wide range of valve sizes 50 400mm
- forms a pressure tight seal when closed
- standard valves designed for 7.0 barg but can deal with pressures up to 30 barg
- can handle temperatures from -20 to 480degC
- over 3,000,000 cycles between majo maintenance
- normal inflatable seal life 1,000,000 cycles
- fast acting cylinder or vane actuation
- low operational expenditure







Valve Fully Closed Position

A pair of inline Dome Valves used to divert material in a pneumatic conveying pipeline, also known as a Dome type Switching Valve



User options extend to the type of Dome both in terms of raw material and surface coating. The Dome is normally produced from SG Iron but other material and designs can be considered on application.

A common design is to adopt a 'flat-top' Dome configuration to help reduce build up seen with cohesive and sticky materials.

Dome surface coatings include:

- 1. Chrome for sticky or abrasive materials
- 2. ENP or Tungsten Carbide for abrasive materials 3. Epoxy Resin for corrosive materials

These coatings can also be extended to the internal surfaces of the valve body and the adapters.

All Dome Valves are capable of handling fine granular materials and hard abrasive products.

General Vane actuator models are used for materials with a grain size below 2mm. Cylinder actuated valves are used for materials with grain size above 2mm.





Dome Valve Selection Chart

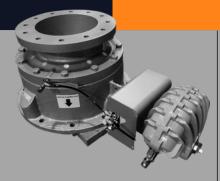


-20°C to 135°C

DVS Dome Valve

STANDARD BULKHEAD Inlet side pressure tight up to 0.5 bar(g) Outlet side pressure tight up to 7 bar(g) PFA PHV

135°C to 220°C



DVT Dome Valve

TOP INLET ADAPTER Inlet and outlet sides pressure tight up to 7 bar(g)

PFA PHV -20°C to 135°C



DVB Dome Valve

BOTTOM OUTLET ADAPTER Inlet side pressure tight up to 0.5 bar(g) Outlet side pressure tight up to 7 bar(g) PFA PHV

135°C to 220°C

DV 200 BVCO

PFA

DV 200 IFCO

PHV

DV 200 IVCO

135°C to 220°C -20°C to 135°C

135°C to 220°C -20°C to 135°C

SIZES (mm)				KINETROL ACT	UATOR MODELS			
50							DV 50 IFVO	DV 50 IVVO
80))			DV 80 IFVO	DV 80 IVVO
100	DV 100 SFVO	DV 100 SVVO	DV 100 TFVO	DV 100 TVVO	DV 100 BFVO	DV 100 BVVO	DV 100 IFVO	DV 100 IVVO
150	DV 150 SFVO	DV 150 SVVO	DV 150 TFVO	DV 150 TVVO	DV 150 BFVO	DV 150 BVVO	DV 150 IFVO	DV 150 IVVO
200	DV 200 SFVO	DV 200 SVVO	DV 200 TFVO	DV 200 TVVO	DV 200 BFVO	DV 200 BVVO	DV 200 IFVO	DV 200 IVVO
250	DV 250 SFVO	DV 250 SVVO	DV 250 TFVO	DV 250 TVVO	DV 250 BFVO	DV 250 BVVO	DV 250 IFVO	DV 250 IVVO
300	DV 300 SFVO	DV 300 SVVO	DV 300 TFVO	DV 300 TVVO	DV 300 BFVO	DV 300 BVVO	DV 300 IFVO	DV 300 IVVO
SIZES				CYLINDER ACTI	UATOR MODELS			
(mm)				O I EINDEN AO I	OA TOIL MODELO			

DV 200 BFCO 200 DV 200 SFCO DV 200 SVCO DV 200 TFCO DV 200 TVCO

250 DV 250 SFCO DV 250 TVCO DV 250 BFCO DV 250 IFCO DV 250 SVCO DV 250 TFCO DV 250 BVCO **DV 250 IVCO** 300 DV 300 SFCO DV 300 SVCO DV 300 TFCO DV 300 TVCO DV 300 BFCO DV 300 BVCO DV 300 IFCO DV 300 IVCO 350 DV 350 SFCO DV 350 SVCO DV 350 TFCO DV 350 TVCO DV 350 BFCO DV 350 BVCO DV 350 IFCO DV 350 IVCO 400 DV 400 SFCO DV 400 SVCO DV 400 TFCO DV 400 TVCO DV 400 BFCO DV 400 BVCO DV 400 IFCO DV 400 IVCO 450 DV 450 SFCO DV 450 SVCO DV 450 TFCO DV 450 TVCO DV 450 BFCO DV 450 BVCO DV 450 IFCO **DV 450 IVCO** 500 DV 500 SFCO DV 500 SVCO DV 500 TFCO DV 500 TVCO DV 500 BFCO DV 500 BVCO DV 500 IFCO DV 500 IVCO

DV	DOME VALVE Model Code	References
100	SIZE (mm)	
S	CONFIGURATION	
	S=BULKHEAD	T=TOP ADAPTER
	B=BOTTOM ADAPTER	I=INLINE
F	TEMPERATURE	
	F= -20°C to 135°C	V= 135°C to 220°C
٧	ACTUATOR TYPE	
	V=DOUBLE ACTING VANE	C=CYLINDER
0	SPECIAL FEATURES	
	O=NO SPECIAL FEATURES	S=SPECIAL FEATURE REQUIRED

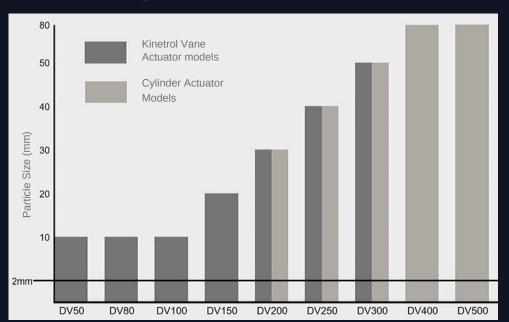
DV	200	- 1	v	С	0
DOME VALVE	200mm	INLINE	135oC to 220oC	CYLINDER	NO SPECIAL FEATURES



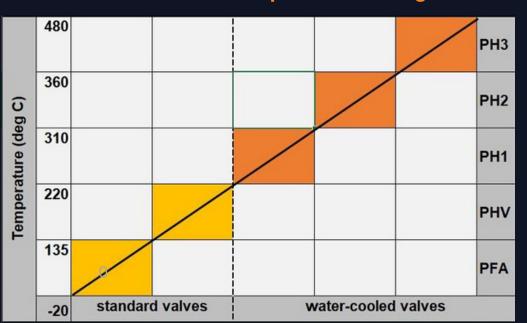


INLINE Inlet and outlet sides pressure tight up to 7 bar(g)

Moving & static column cut-off



Dome Valve Temperature Ratings



All Dome Valves are capable of handling fine materials and hard abrasive products.

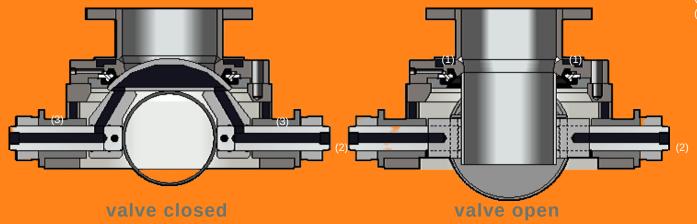
Vane actuator models can cut through static columns of material up to 2mm particle size. They can also cut through moving columns of powders and granular products similar to Limestone above 2mm.

Cylinder actuated models have the added capability of being able to cut through static columns of material above 2mm.

PFA standard -20 --- 135 deg C
PHV standard -20 --- 220 deg C
PH1 water-cooled -20 --- 310 deg C
PH2 water-cooled -20 --- 360 deg C
PH3 water-cooled -20 --- 480 deg C



Water Cooled Dome Valve cross section



- PH1 water-cooled top plate
- PH2 as PH1 with additional water cooled Dome
- (3) PH3 as PH2 with additional water cooled body

Valve Size	PH1 Litres/min	PH2 Litres/min	PH3 Litres/min	
	Litres/min	Litres/min	Litres/min	
50mm	2	-	4	
80mm	2	-	6	
100mm	3	6	10	
125mm	5	11	17	
150mm	5	11	17	
200mm	6	13	20	
250mm	8	18	27	
300mm	10	22	33	
400mm	-	-	-	
500mm	-	-		





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