





your pneumatic conveying and service partner

# THE ORIGINAL DOME VALVE

Heavy duty pneumatic bulk solids cut-off valve



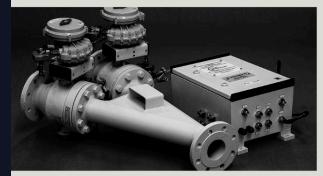


often imitated, never duplicated...

We are proud of the certificate given to our company by Clyde Pneumatic Conveying for our superior business performance as their main partner in Europe.









# CERTIFIED RESELLER CERTIFICATE





## BMT Enerji Servis A.S.

BMT Enerji Servis A.S. has been awarded the status of Certified Reseller and is hereby authorised to sell and distribute original Clyde Pneumatic Conveying Ltd Dome Valve spare parts in the Turkish markets.

It indicates that the company is holding itself with high standards, offers genuine great service and is highly competent to offer Clyde Pneumatic Conveying Dome Valve spare parts with added assurance and back-up from the original Dome Valve producer.

Craig A.Buckley

Sales & Marketing
Director

May 2024



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.



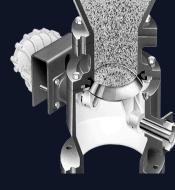




OFFICIAL AGENT of CLYDE Pneumatic Conveying

- 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 cycle
- fast acting cylinder or vane actuation
- low operational expenditure





Valve Fully Open Position

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:

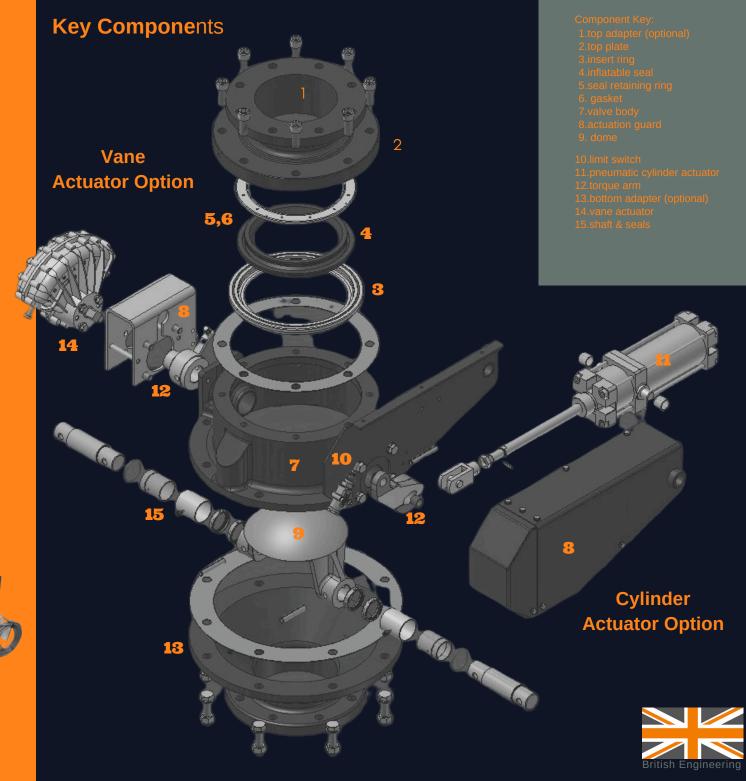
- 1. Chrome for sticky or abrasive materials
- 2. ENP or Tungsten Carbide for abrasive materials
- 3. Epoxy Resin for corrosive materials

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**



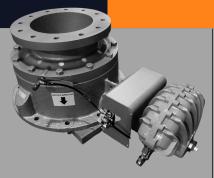
#### **DVS Dome Valve**

STANDARD BULKHEAD

Inlet side pressure tight up to 0.5 bar(g)
Outlet side pressure tight up to 7 bar(g)

PFA -20°C to 135°C

135°C to 220°C



#### **DVT Dome Valve**

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

PFA -20°C to 135°C

PHV 135°C to 220°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 -20°C to 135°C

PHV 135°C to 220°C



#### **DVI Dome Valve**

INLINE

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

PFA -20°C to 135°C PHV 135°C to 220°C

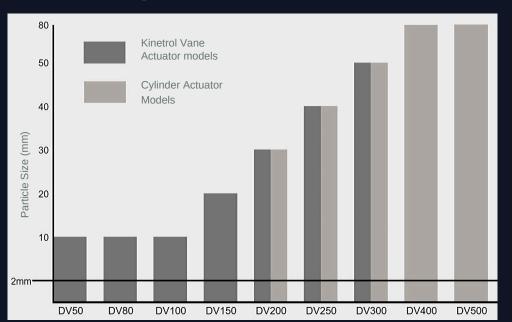
SIZES KINETROL ACTUATOR MODELS (mm) **DV 50 IFVO DV 50 IVVO** 50 DV 80 IFVO 80 **DV 80 IVVO** DV 100 TVVO **DV 100 SFVO DV 100 SVVO** DV 100 TFVO **DV 100 BFVO DV 100 BVVO DV 100 IFVO** 100 **DV 100 IVVO DV 150 SVVO** DV 150 TFVO **DV 150 BFVO DV 150 IVVO** 150 **DV 150 SFVO DV 150 TVVO DV 150 BVVO DV 150 IFVO DV 200 SVO** DV 200 TFVO **DV 200 TVVO** DV 200 BFVO DV 200 IFVO **DV 200 IVVO** 200 DV 200 SFVO **DV 200 BVVO DV 250 SVVO DV 250 TFVO DV 250 IFVO DV 250 IVVO DV 250 SFVO DV 250 TVVO** DV 250 BFVO 250 **DV 250 BVVO** DV 300 TFVO **DV 300 TVVO** 300 **DV 300 SFVO DV 300 SVVO DV 300 BFVO DV 300 BVVO DV 300 IFVO DV 300 IVVO** SIZES CYLINDER ACTUATOR MODELS (mm) **DV 200 TVCO** DV 200 BVCO DV 200 IFCO 200 DV 200 SFCO DV 200 SVCO DV 200 TFCO DV 200 BFCO **DV 200 IVCO** DV 250 TFCO DV 250 TVCO 250 DV 250 SFCO DV 250 SVCO **DV 250 BFCO** DV 250 BVCO **DV 250 IFCO** DV 250 IVCO DV 300 SFCO DV 300 SVCO DV 300 TFCO DV 300 BVCO DV 300 IFCO DV 300 IVCO 300 **DV 300 TVCO DV 300 BFCO** DV 350 SFCO DV 350 SVCO DV 350 TFCO DV 350 TVCO DV 350 BFCO DV 350 BVCO DV 350 IFCO 350 **DV 350 IVCO** DV 400 SFCO **DV 400 TFCO** DV 400 TVCO DV 400 BFCO **DV 400 IVCO** 400 DV 400 SVCO **DV 400 BVCO DV 400 IFCO** DV 450 TFCO DV 450 BVCO 450 **DV 450 SFCO DV 450 IFCO DV 450 SVCO DV 450 TVCO DV 450 BFCO DV 450 IVCO** DV 500 SFCO 500 DV 500 SVCO **DV 500 TFCO DV 500 TVCO** DV 500 BFCO DV 500 BVCO DV 500 IFCO **DV 500 IVCO** 

DV	DOME VALVE M	odel 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			
V	ACTUATOR TYPE					
	V=DOUBLE ACTING VAI	NE	C=CYLINDER			
0	SPECIAL FEATURES					
	O=NO SPECIAL FEATUR	RES	S=SPECIAL FEATURE REQUIRED			

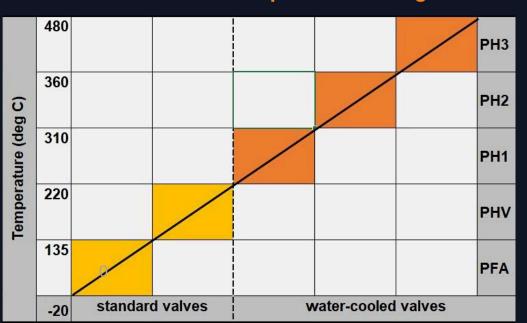
DV	200	1	V	С	0
DOME VALVE	.200mm	INLINE	135oC to 220oC	CYLINDER	NO SPECIAL FEATURES



### Moving & static column cut-off



## **Dome Valve Temperature Ratings**



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

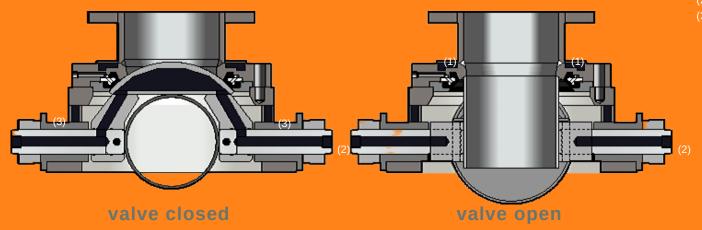
Vane actuator models can cut through static columns of material up to 2mm particle size. They can also cut through moving columns of powders and granular products similar to Limestone above 2mm.

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
- 2) PH2 as PH1 with additional water cooled Dome
- PH3 as PH2 with additional water cooled body

Valve Size	PH1 Litres/min	PH2 Litres/min	PH3 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	-	-	-

## **REFERENCES**







# THE ORIGINAL DOME VALVE

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### **BMT SITE SERVICE**

- Assembly control of the assembled pneumatic conveying system
- Cold and Hot perfomance test of pneumatic system
- Detailed check up and reporting of the dome valves and auxiallary equipment
- Detailed reporting on commissioned equipment and spare parts requirements
- Technical support and training of the existing equipment
- Fault detection and solution suggestions on the equipment

## **HEAD OFFICE**

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