

# PRODUCT SHEET

## DEMACO CRYOGENIC VALVE - PNEUMATIC VALVE ON/OFF

Transfer Lines

Conditioning Equipment

Components

Johnston Coupling

Welded Coupling

Blindcap / Endpiece

VI Demaco valve

Gas lock

Highly flex

Pipe end heater

Filling Stations

Controlling

The Demaco Cryogenic on/off Valve offers a premium regulating valve for liquid and gaseous media for cryogenic systems with an extremely low heat loss value due to vacuum insulation. Through its streamlined valve body, an accurate control of the media as well as a high flow rate can be guaranteed.

The valve is applicable under EC 1935/2004 and FDA, which allows Demaco to integrate this valve in any market including the food, medical and pharmaceutical industry.

Through its Self-adjusting spindle packing with V-seals, intermediate relief and wiper, this valve assures a long service life.

With its compact industrial design, the Demaco Cryogenic on/off Valve can be integrated in all our cryogenic infrastructures as well as our conditioning equipment.



### BENEFITS

Low heat loss values due to vacuum insulation

No ice

Compact industrial design with a long service life for optimal use in cryogenic/food/hygienic environment

Remote operation of media flow

Many configurations possible

High flow value by the streamlined valve body

Maintenance-free under normal conditions

### APPLICATION

Suitable flow media for liquid and gaseous like (Group 2): Nitrogen, Argon and Carbon dioxide

Actuator facing up and maximum 45° from vertical plane

Integrated in Demaco cryogenic infrastructure

Integrated in Demaco conditioning equipment

### FEATURES

All stainless steel

Applicable under EC 1935/2004 and FDA

Excellent seat tightness due to PTFE soft sealing

Self-adjusting spindle packing with V-seals, intermediate relief and wiper

Spring return normally open or normally closed

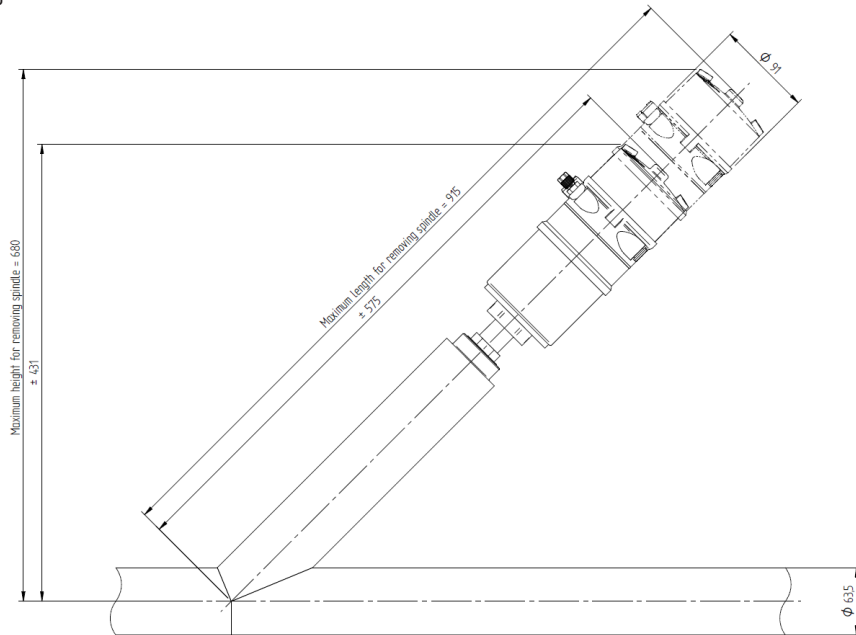
TIG welded according highest standards (ISO3834-2)

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PIPE SIZE	Design Pressure FTO-NC [barg]	Design pressure FTO-NO / FTC-NC [barg]	Maximum pilot pressure [barg]	Kv [m3/h]	Heat loss indication [W]
DN15	25	16	10	4.5	1.7
DN25	16	16	10	20	2.6
1-inch	16	16	10	20	2.6

\*FTO: Flow To Open / FTC: Flow To



Types	Interface connections	
	Pilot air port push-in connector for external $\varnothing 6$ mm or $\frac{1}{4}$ " tube	Circular plug-in connector M12 x 1, 8-pole
Model 2: Pneumatic activated valve with solenoid 24 VDC including limit switches	X	X

### MATERIALS

Body:	Stainless steel
Spindle:	Stainless steel
Actuator:	PPS and Stainless steel
Spindle elements:	FKM and EPDM
Spindle sealing:	PTFE V-rings with spring compensation (with silicone grease)
Seat sealing swivel plate:	PTFE
Spindle guide:	PEEK

### DESIGN SPECIFICATIONS

Leakrate to vacuum jacket <  $1 \times 10^{-9}$  mbar.l/sec