

# PRODUCT SHEET

## DEMACO CRYOGENIC VALVE - CONTROL VALVE

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 Control Valve offers a first-rate regulating valve for gaseous and liquid 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.

There are multiple flow value configurations possible as the valve comes with three standard Kv-values sets per line.

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 Control 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

Accurate control of media flow

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

Many flow value configurations possible by optimum valve selection for the application through three standard Kv values sets per line

Straight flow path of the medium

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

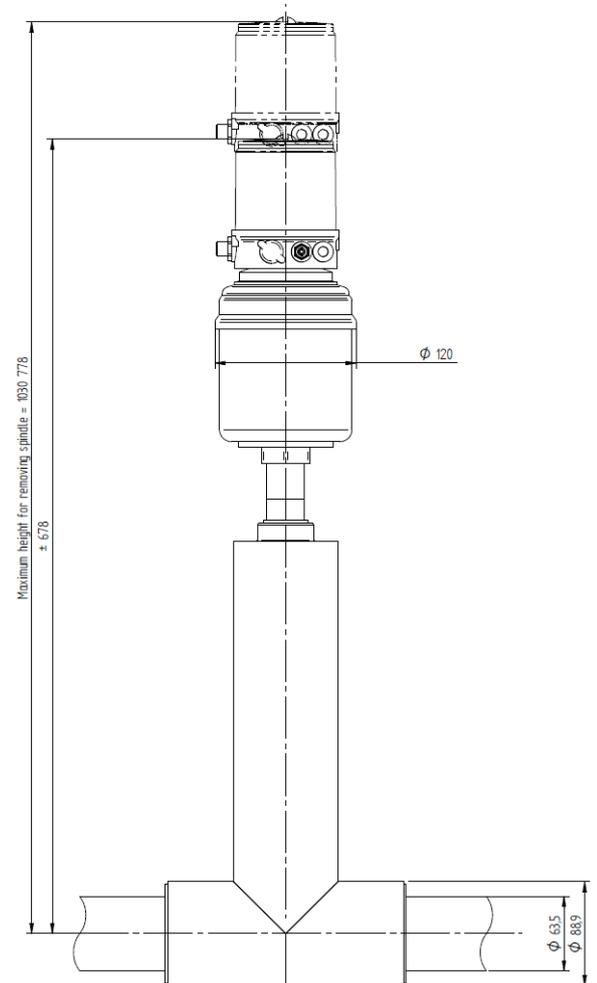
TIG welded according highest standards (ISO3834-2)

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## DEMACO CRYOGENIC VALVE - CONTROL VALVE

PIPE SIZE	DESIGN PRESSURE (barg)	VALVE SEAT SIZE (mm)	KV (m <sup>3</sup> /h)	HEAT LOSS INDICATION (W)
DN15 (Ø18x1) ½" (Ø21.34x1.6)	16	Ø4	0.5	Max. 1.8
		Ø6	1.2	
		Ø8	2.1	
		Ø10	3.1	
		Ø15	4.3	
DN25 (Ø28x1) 1" (Ø33.7x1.6)	16	Ø15	5.3	Max. 2.9
		Ø20	7.2	
		Ø25	12.0	

### Control valve



### OPTIONS

Analogue output

AS-interface communication

DeviceNet communication

### DESIGN SPECIFICATIONS

Seat leakages IEC 534-4/EN 1349: Shut-off class VI

Leakrate to vacuum jacket < 1x10<sup>-9</sup> mbar.l/sec

### 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

### INTERFACES

Pilot air port push-in connector for external Ø6 mm or ¼" tube

Circular plug-in connector M12 x 1, 8-pole, 24 V DC, 0/4-20 mA

o Current consumption max. 150 mA

o Power consumption max. 3.5 W