

How does the FullX fit in your application?

Our experts would be pleased to consult you and assist you with the planning and use of HEROSE valves in your individual application.

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FullX protects against undesired evaporation

Applications

- ▶ Pressure vessels down to -269 °C (He, H2 and O2)
- ▶ Air separation plants
- ▶ Coldbox systems
- ▶ Fuelling systems for aerospace and space technology
- ▶ Vacuum-insulated pipelines
- ▶ Cryostats

Technical Details

	Values
Sizes	DN10 up to DN50
Pressure	up to PN63
Working temperature	-269°C up to +80°C
Connections	butt weld
Material	stainless steel
Approved media	hydrogen, air gases, steam and cryogenically liquified gases
Versions	manual/pneumatic actuation
Body types	straight, angle type or Y type body

Options Bellow, bellow monitoring, check function, control function, throttle function



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One system – many benefits

- ▶ **Maintenance without the loss of vacuum**
The top-entry design enables the top part including stem and disc to be removed without having to open the pipework or insulation. This not only saves you time during maintenance, but also reduces your costs.
- ▶ **Absolutely reliable with longer service life**
High-quality materials and the manufacturing from solid material provide the highest quality for the FullX.
- ▶ **High internal and external leak tightness**
The use of a solid material body ensures the required high level of tightness for vacuum-insulated systems. The additional option of bellows supports this and increases the tightness to atmosphere.

Leak rate – to vacuum: 1*10⁻⁹ mbar*/sec
Leak rate – seat tightness: 1*10⁻⁴ mbar*/sec
Leak rate – to atmosphere: 1*10⁻⁸ mbar*/sec
1*10⁻⁹ mbar*/sec (Option with bellow)
- ▶ **Reduction of heat losses during cooling and heating processes**
The use of ideal material combinations for the components ensures a high level of tightness, which is required for vacuum-insulated systems. This reduces losses of medium during cooling and heating processes.
- ▶ **Installation independent of position**
By using the bottom bellows, the FullX can be installed in your system in any position. For you, this allows you to make better use of narrow installation space and plan very flexibly.
- ▶ **Prevention of backflow**
By using the check function of the FullX allows your liquids and gases to flow only in one direction. The backflow is prevented and therefore your system is protected from serious damage.
- ▶ **Regulation of the medium flow**
By using the control function of the FullX, you can adjust the flow of your fluids and gases to the required system conditions. This prevents unnecessary loss of your medium.
- ▶ **Throttling of the opening- and closing characteristics**
By using the throttle function of the FullX, you prevent pressure peaks in your system when the valve opens and closes.

Globe Valve FullX Type 11C01



PERFECT FOR VACUUM-INSULATED SYSTEMS TO -269 °C

The FullX modular system

For configurable products, the HEROSE part number is structured as follows:

Nomenclature	A Type	B Serie	C Size code	D Option codes
e. g.	11C01.	A001.	0250.	ESR-MYJ-BCQ-XZE-KCZ-JRB-LYV-SNP-HTW-GCX

Put the FullX Valve together precisely according to **your requirements** in a **few steps**.

1. Determine the nominal size and note the dimension code.
2. Select your options and write down the codes of your selection.
3. The individual part number can be formed from your selection.

On the basis of this part number you will receive a personal offer from your HEROSE contact person.

Selection of the type **A**

Product group	Type
Globe Valve FullX	11C01

Serie	www
Increased external tightness, medium pressure rating, additional approval not selected	A001

Selection of the nominal size **C**

Nominal size	Dimension code
10	0100
15	0150
20	0200
25	0250
32	0320
40	0400
50	0500

Selection of the options **D**

Pressure	Code	Approvals	Code
PN63	ESR	DGRL DIN EN 1626	MYJ

Body types	Code
Body angle type	CBQ
Straight body	HJC
Body Y type	PYU

Kugelfunktion	Code
Lockable function	KCZ
Lockable check function	JDA
Lockable control function	SWX
Lockable throttle function	WVV

Handwheel options	Code
Material 1.4409 silver	JRB

Operation	Code
manual	YFW
actuated	RQZ

CONNECTION

DN	Body types	Connection options	Code
10	Body angle type	Butt weld 17.2 × 1.8 mm	QXY
10	Straight body	Butt weld 17.2 × 1.8 mm	KSP
10	Body Y type	Butt weld 17.2 × 1.8 mm	PKL
15	Body angle type	Butt weld 21.3 × 2.0 mm	CVP
15	Straight body	Butt weld 21.3 × 2.0 mm	MZE
15	Body Y type	Butt weld 21.3 × 2.0 mm	FYB
20	Body angle type	Butt weld 26.9 × 2.3 mm	BNN
20	Straight body	Butt weld 26.9 × 2.3 mm	DPN
20	Body Y type	Butt weld 26.9 × 2.3 mm	WHZ
25	Body angle type	Butt weld 33.7 × 2.3 mm	XZE
25	Straight body	Butt weld 33.7 × 2.3 mm	PKY
25	Body Y type	Butt weld 33.7 × 2.3 mm	CXP
32	Body angle type	Butt weld 42.4 × 2.6 mm	ZKC
32	Straight body	Butt weld 42.4 × 2.6 mm	GLU
32	Body Y type	Butt weld 42.4 × 2.6 mm	HHY
40	Body angle type	Butt weld 48.3 × 2.6 mm	WUW
40	Straight body	Butt weld 48.3 × 2.6 mm	RJE
40	Body Y type	Butt weld 48.3 × 2.6 mm	JBM
50	Body angle type	Butt weld 60.3 × 2.9 mm	BGA
50	Straight body	Butt weld 60.3 × 2.9 mm	WPW
50	Body Y type	Butt weld 60.3 × 2.9 mm	UXB



COLLAR

DN	Body types	Ø	Position	Height	Code
10 15	Body angle type/ Straight body	60.0 mm	330.0 mm	5.0	SNP
10 15	Body Y type	60.0 mm	370.0 mm	5.0	GEM
10 15	Body angle type/ Straight body	71.5 mm	330.0 mm	5.0	BBK
10 15	Body Y type	71.5 mm	370.0 mm	5.0	DGJ
20 25	Body angle type/ Straight body	71.5 mm	330.0 mm	5.0	BBK
20 25	Body Y type	71.5 mm	375.0 mm	5.0	EMK
20 25	Body angle type/ Straight body	60.0 mm	330.0 mm	5.0	SNP
20 25	Body Y type	60.0 mm	375.0 mm	5.0	WLU
32 40	Body angle type/ Straight body	84.0 mm	440.0 mm	5.0	WBE
32 40	Body Y type	84.0 mm	500.0 mm	5.0	QWB
50	Body angle type/ Straight body	109.0 mm	520.0 mm	5.0	JUP
50	Body Y type	109.0 mm	595.0 mm	5.0	GSH

Bellow	Position	Monitoring	Dimension bellow monitoring	Code
Not selected	Not selected	Not selected	Not selected	LYV
Selected	Top	Not selected	Not selected	MUR
Selected	Bottom	Not selected	Not selected	FYX
Selected	Top	Selected	DIN EN ISO 8434-1-WDS-S6	GXD
Selected	Bottom	Selected	DIN EN ISO 8434-1-WDS-S6	XHA

Material selection	Code
Body material 1.4571 Sealing material made out of PCTFE	HTW

VALVE HEIGHT

DN	Body types	Valve height	Code
10 15	Body angle type/Straight body	535.0 mm	GCX
10 15	Body Y type	430.0 mm	HDP
20 25	Body angle type/Straight body	535.5 mm	GCX
20 25	Body Y type	440.5 mm	VCG
32 40	Body angle type/Straight body	690.5 mm	AKQ
32 40	Body Y type	570.5 mm	WAM
50	Body angle type/Straight body	775.0 mm	QJN
50	Body Y type	640.0 mm	FTP