

# 2-way Control Valve type H1FBE

Nodular cast iron, Single seat balanced, PN 25, DN 200 - 250 mm, Flanged ends

0-2.5.03.02-B

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## TECHNICAL DATA

### Materials:

- Valve body	Nodular cast iron EN-GJS-400-15
- Spring	1.4568
- Cone	1.4408, 1.4305
- Gasket	TFM and PVMQ
- Bolts, Nuts	4 CrMo 4/A4
Nominal pressure	PN 25
Seating	Single seated balanced
Flow characteristic	Equal percentage
Leakage rate	≤ 0.01% of Kvs Class IV
Regulating capability	Kvs/Kvr > 25

### Flanges drilled according to

EN 1092-2 PN 25  
(ANSI)  
(JIS)

### Counter flanges

DIN2634

### Adjustable seat interspace

## APPLICATIONS

Control valves type H1FBE are designed for regulating steam and hot water systems. The valves are used in conjunction with our temperature or pressure regulators for controlling industrial processes, district or central heating plants or marine installations.

## DESIGN

The valve components - spindle, seat and cone - are made of stainless steel. The valve body is made of nodular cast iron EN-GJS-400-15 with flanges drilled according to EN 1092-2. The leakage rate is 0.01% Class IV of the full flow (according to VDI/VDE 2174)

## FUNCTION

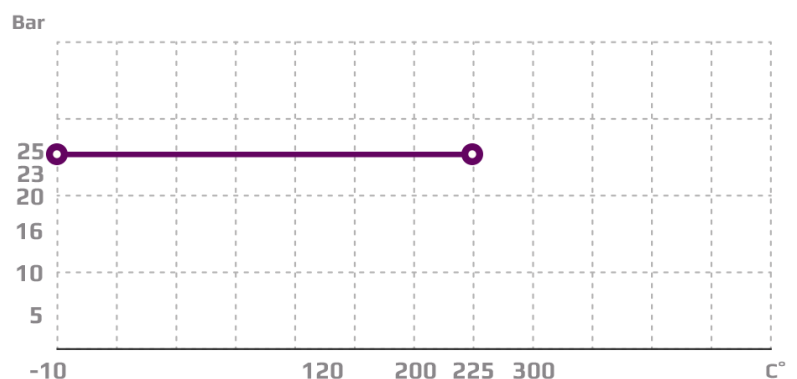
With pressure on the spindle the valve will close. Because of the balanced plug, the closing force is pressure independent. In connection with our pneumatic or electric actuators, the valves will close at rising temperatures. For cooling circuits the valve can be used in conjunction with a reverse acting electric actuator or positioner. The equal percentage characteristic will not cease, until the flow has dropped below 4% of the full flow.

## FEATURES

- Simple design secures reliable controls.
- Location of the pack box in the actuator makes the valve service friendly
- Easy maintenance
- Hand wheel for manual override

## PRESSURE/TEMPERATURE DIAGRAM

According to DIN 2401

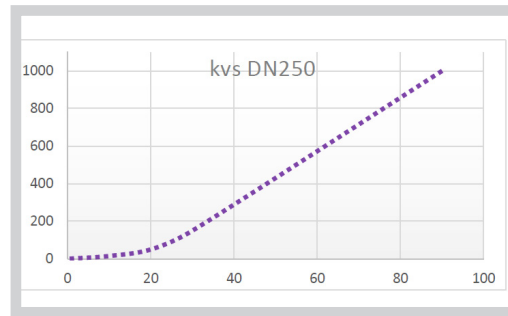
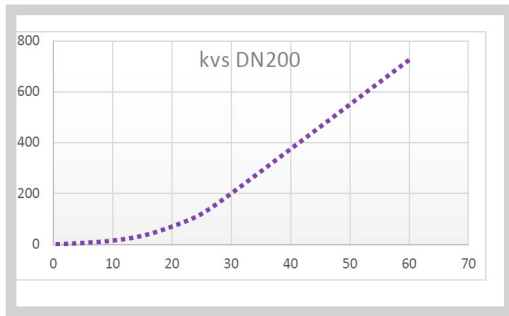


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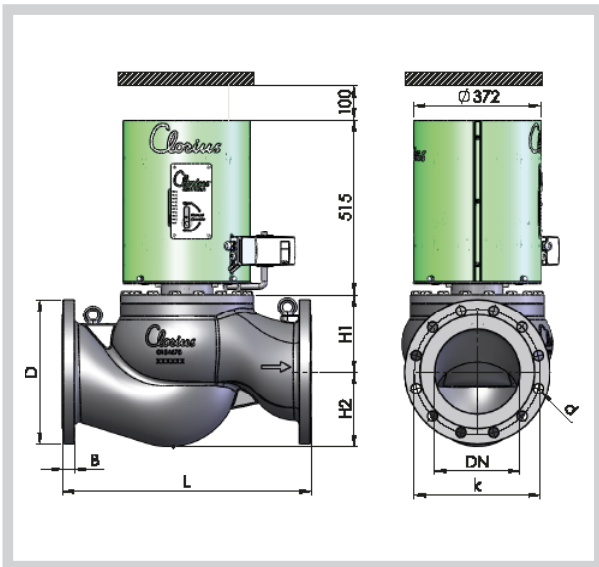
**MOUNTING**

The valve can be installed with vertical as well as horizontal spindles.

**CHARACTERISTICS**



**DIMENSION SKETCH**



Type	L (mm)	H1 (mm)	H2 (mm)	D (dia.) (mm)	b (mm)	k (dia.) (mm)	d mm dia. (number)
200 G1F	600	238	180	360	32	310	12xø26
250 G1F	730	227	220	425	35	370	12xø30

**SPECIFICATIONS**

Type	Flange connection DN in mm	Opening mm	$k_{vs}$ -value $m^3/h$	Lifting height mm	Weight kg
200 G1F	DIN1092 PN25	200	725	80	220*
250 G1F	DIN1092 PN25	250	1000	95	258*

\*including actuator