2-way Control Valve type H2F

Cast Steel, PN 25, DN 100 – 150 mm / PN 25, DN 150 mm

0-2.4.06-L

APPLICATIONS

Control valves type H2F are designed for use in regulating high pressure hot water, steam and heat transfer oil. The valves are used in conjunction with temperature or pressure differential regulators for controlling district or central heating plants, industrial processes or marine installations.

DESIGN

The valve components – spindle, seats and cone – are made of stainless steel. The valve body is made of cast steel GP240GH (GS-C25) with flanges drilled according to EN 1092-1. The connection thread for the actuator is G1B ISO 228. The valves are double-seated. The leakage rate is less than 0.5% of the full flow (according to VDI/VDE 2174).

FUNCTION

Without the actuator being connected, the valve is held in open position by means of a spring. With pressure on the spindle the valve will close. In connection with our thermostats, 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. Alternatively a reverse acting valve can be used with our self-acting thermostats. The linear 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
- Reliable and secure due to internal parts of stainless steel

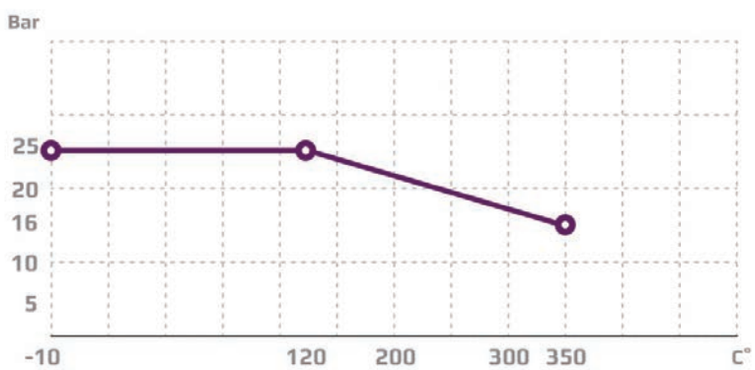
TECHNICAL DATA

Materials:	
- Valve body	Cast steel GP240GH (GS-C25)
- Components	Stainless steel
- Bolts, nuts	24 CrMo 4/A4
- Gaskets	Stainless steel foil and copper
Nominal pressure	PN 25
Seating	Double seated
Flow characteristic	Almost quadratic
Function	Closing with pressure on spindle
Leakage rate	≤ 0.5% of Kvs
Regulating capability	Kvs/Kvr > 25
Flanges drilled according to	EN 1092-1 PN 25
Counter flanges	DIN 2635

Note
All Clorius valves are approved in accordance to the Pressure Equipment Directive (PED). Valve type 150 H2F in only approved for nominal pressure PN 16, but for applications not effected by the PED, valve type 150 H2F can be delivered for nominal pressure PN 25

PRESSURE/TEMPERATURE DIAGRAM

According to DIN 2401

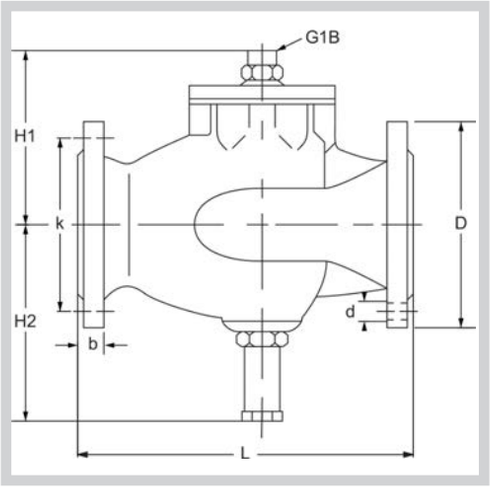


Subject to change without notice.

MOUNTING

The valve can be installed with vertical as well as horizontal spindles. For valve temperatures of max. 170 ºC, the thermostat/ actuator can be fitted below or above the valve. For valve mounted with thermostats in media temperatures above 170 ºC, a cooling unit has to be applied with connection downwards (please refer to data sheet for thermostat accessories). For electric actuators a high temperature adaptor must be used (please refer to datasheets for the electric actuators).

DIMENSION SKETCH



Type	L mm	H1 mm	H2 mm	D (dia.) mm	b mm	k (dia.) mm	d mm dia. (number)
100 H2F	350	185	209	235	24	190	23x(8)
125 H2F	400	240	230	270	26	220	27x(8)
150 H2F	400	240	230	300	28	250	27x(8)

SPECIFICATIONS

Type	Flange connection DN in mm	Opening (mm)	k_{vs}-value m^3/h	Lifting height (mm)	Weight (kg)
100 H2F	100	100	125	20	38
125 H2F	125	125	215	20	73
150 H2F	150	150	310	20	76