

Dynamic Thermostatic Valves

Precise temperature control and automatic balancing



☑ Overview

The HERZ dynamic thermostatic valve TS-120-V SMART has an integrated differential pressure controller. This makes it possible for the dynamic thermostatic valve to keep the flow at the radiator constant under changing pressure conditions. Pressure fluctuations caused by the opening or closing of other radiators in the system are compensated for completely automatically. Neither system changes nor system extensions require readjustment or a change of setting on the dynamic thermostatic valve, which keeps the effort for hydraulic balancing low.

The proven HERZ thermostatic valve insert in combination with the HERZ thermostatic heads results in a highly efficient and operationally reliable room temperature control. Precision, accuracy and efficiency meet the high expectations of a HERZ thermostatic valve.

HERZ DYNAMIC THERMOSTATIC VALVES IN 3 VERSIONS AND 2 FORMS

with female thread



with male thread, cone-sealing



☑ Benefits

- ☑ Optimal energy-efficient room temperature control with HERZ thermostatic heads
- ☑ Precise flow control independent of differential pressure
- ☑ No readjustment effort for plant modifications
- ☑ Self-acting mode of operation



Field of application

The HERZ-TS-120-V-SMART thermostatic valve is used for temperature control and automatic hydronic balancing in a two-pipe heating and cooling system.



IG / AG Straight
1 **7623** 91



IG / AG Angle
1 **7624** 91



IG / AG Reverse angle
1 **7628** 91

Technical data

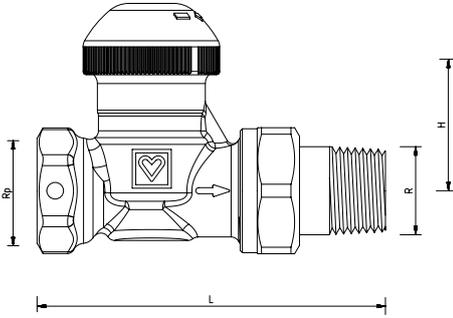
<input checked="" type="checkbox"/> Max. operating temperature	120 °C
<input checked="" type="checkbox"/> Max. operating pressure	10 bar
<input checked="" type="checkbox"/> Regulated flow range	10 l/h – 95 l/h
<input checked="" type="checkbox"/> Fully open, “ ” setting	120 l/h
<input checked="" type="checkbox"/> Setting	continuous and readable
<input checked="" type="checkbox"/> Min. differential pressure	10 kPa
<input checked="" type="checkbox"/> Max. differential pressure	60 kPa
<input checked="" type="checkbox"/> Thermostatic head connection	M 28×1,5
<input checked="" type="checkbox"/> Radiator connection	½" MT (conical screw connection to TS-valve)
<input checked="" type="checkbox"/> Pipe connection	½" FT for threaded pipe and compression adapter connection

Functions

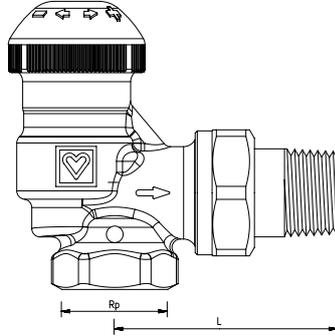
- Setting of the desired flow rate
- Dynamic constant maintenance of the set flow rate at the radiator
- Automatic regulation of pressure fluctuations due to integrated differential pressure regulator
- Thermostatic head mounting
- Connection thread of thermostatic head M 28×1,5
- Precise control of radiator output in combination of thermostatic valve and thermostatic head
- Continuous precise room temperature control
- Energy-efficient operation of the entire system in changing conditions

Dimensions

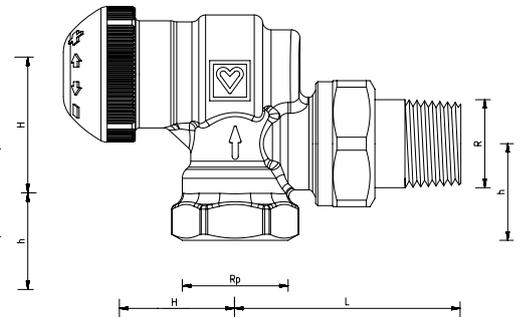
1 7623 91



1 7624 91

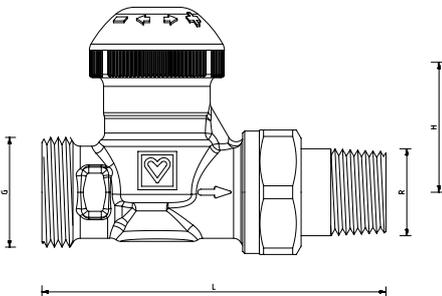


1 7628 91

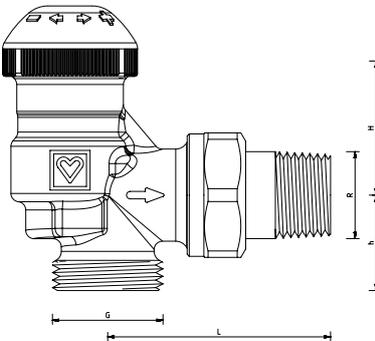


Order number	Description	DN	Rp, "	R, "	L, mm	H, mm	h, mm	k _{vs} value, m ³ /h at 2 K
1 7623 91	Straight	15	1/2	1/2	82,3	31,5	-	0,35
1 7624 91	Angle	15	1/2	1/2	53,3	32,5	23	0,35
1 7628 91	Reverse angle	15	1/2	1/2	53,3	40,6	23	0,35

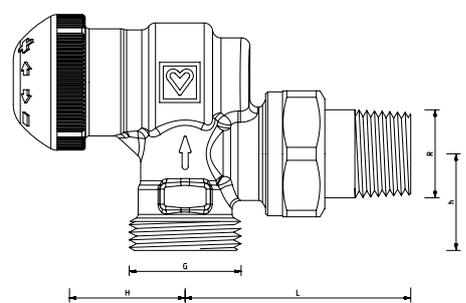
1 7633 91



1 7634 91



1 7638 91



Order number	Description	DN	G, "	R, "	L, mm	H, mm	h, mm	k _{vs} value, m ³ /h at 2 K
1 7633 91	Straight	15	3/4	1/2	82,3	31,5	-	0,39
1 7634 91	Angle	15	3/4	1/2	53,3	32,5	23	0,39
1 7638 91	Reverse angle	15	3/4	1/2	53,3	27,5	23	0,39

