


R401VTL

R402VTL

R415VTL

Description

The **VTL series valves with thermostatic option** are indicated in the radiator systems where it is expected the installation of thermostatic heads to control the room temperature in order to optimize the consumption. When the special worksite protection handwheel is fully closed, it is possible to exceed static pressure values of 10 bar with the system disabled. In any case, it is advised to connect the heating elements before carrying out the pressurised seal tests on the system.

Versions and product codes


Series	Product code	Connections		Valve type
R401VTL	R401LX033	1/2"	Iron pipe	Angle
R402VTL	R402LX033	1/2"	Iron pipe	Straight
R415VTL	R415LX033	1/2"	Iron pipe	Reverse angle

Technical data

- Fluid of use: water and glycol solutions (max. 30 %)
- Temperature range: 5÷110 °C
- Max. working pressure: 16 bar with worksite protection handwheel
10 bar in combination with thermostatic head
- Max. differential pressure with thermostatic head: 1,4 bar (1/2");
- Can be combined with thermostatic heads R469H (threaded ring nut M30 x 1,5 mm)


Materials

- Body and main components: UNI EN 12165 CW617N chrome plated brass
- Monobloc command stem: stainless steel
- Worksite protection handwheel: PP-H
- Gaskets: EPDM

Valve size	Thermostatic head in combination	Nominal flow rate q_{mNH} in combination with thermostatic head [kg/h]	Authority "a" of the stopper
1/2" (R401LX033, R415LX033)	R469H 	150	0,86
1/2" (R402LX033)		160	0,84

KEYMARK (EN215) certification

Product code	Declared hysteresis C_H	Influence of the declared water temperature W_H	Declared response time Z_H	Influence of the declared differential pressure "D _H "	Control accuracy CA_H
R469HX001	0,03 K	0,3 K	25 min.	0,15 K	0,2 K


Complies with Directive RT2012 <i>Certità con variation temporelle</i>		TELL	
Factor VT	Value VT _H	Energy efficiency class	Classification
0,15	0,2	0,25	

Installation of thermostatic heads

The R469H thermostatic head with M30 x 1,5 mm threaded connection are installed directly on the valve body after removing the worksite protection handwheel. To remove the handwheel it is necessary to counterclockwise unscrew the upper cap and then release the handwheel by levering the base using a screwdriver. The worksite protection handwheel, however, allows the valve flow rate to be partialize: by turning it anticlockwise, the valve opens; turning it clockwise the valve closes.

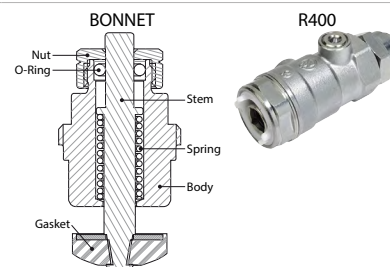


Warning.

With thermostatic head installed on the valve body, to avoid excessive loads on the seal gasket of the thermostatic bonnet (with the resulting risk of jamming and locking) during the summer months, it is recommended to place the knob in the fully open position, as marked by the symbol .

In case of malfunction of the bonnet it is possible to replace the stem O-Ring, by unscrewing the nut using an hexagonal wrench 11 mm.

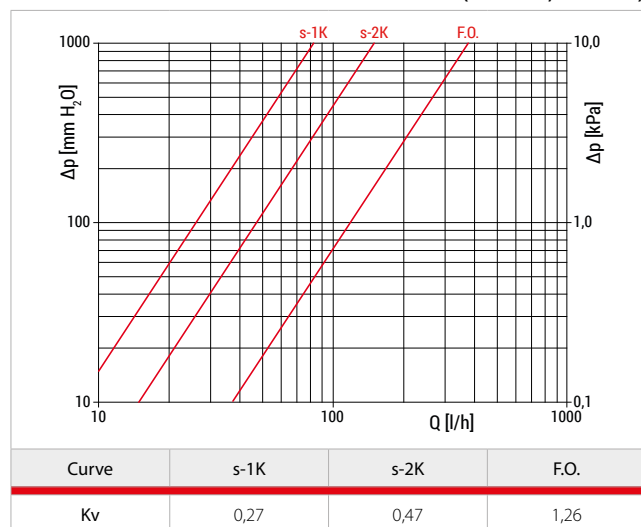
If the problem persists is also possible to replace the complete bonnet using the appropriate key R400.



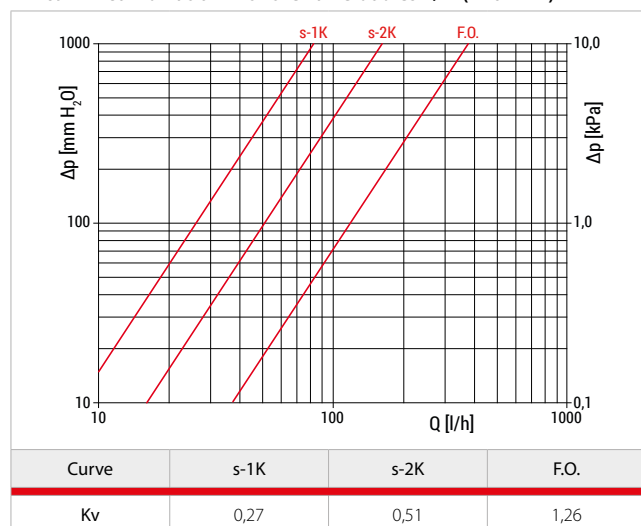
Hydraulic features

The data shown are obtained according to the specifications of the EN215 Standard.

• R469H in combination with the valve bodies 1/2" (R401VTL, R415VTL)

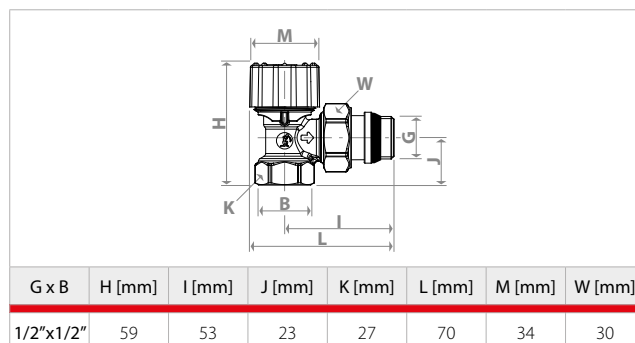


• R469H in combination with the valve bodies 1/2" (R402VTL)

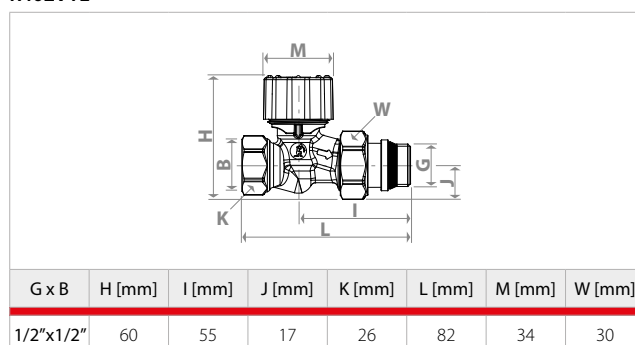


Dimensions

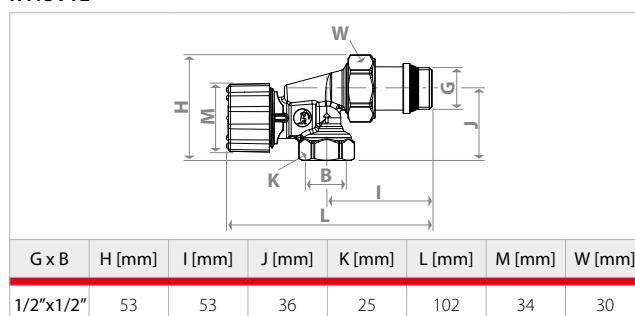
R401VTL



R402VTL



R415VTL



Product specifications

R401VTL

Angle valve with thermostatic option and threaded connection M30 x 1,5 mm, chrome plated, with iron pipe connection. Body and main components: UNI EN 12165 CW617N chrome plated brass. Monobloc command stem: stainless steel. Worksite protection handwheel: PP-H. Gaskets: EPDM. Fluid of use: water and glycol solutions (max. 30 %). Temperature range: 5÷110 °C. Max. working pressure: 16 bar with worksite protection handwheel; 10 bar in combination with thermostatic head. Max. differential pressure with thermostatic head: 1,4 bar (1/2"). Can be combined with thermostatic heads R469H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

R402VTL

Straight valve with thermostatic option and threaded connection M30 x 1,5 mm, chrome plated, with iron pipe connection. Body and main components: UNI EN 12165 CW617N chrome plated brass. Monobloc command stem: stainless steel. Worksite protection handwheel: PP-H. Gaskets: EPDM. Fluid of use: water and glycol solutions (max. 30 %). Temperature range: 5÷110 °C. Max. working pressure: 16 bar with worksite protection handwheel; 10 bar in combination with thermostatic head. Max. differential pressure with thermostatic head: 1,4 bar (1/2"). Can be combined with thermostatic heads R469H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

R415VTL

Reverse angle valve with thermostatic option and threaded connection M30 x 1,5 mm, chrome plated, with iron pipe connection. Body and main components: UNI EN 12165 CW617N chrome plated brass. Monobloc command stem: stainless steel. Worksite protection handwheel: PP-H. Gaskets: EPDM. Fluid of use: water and glycol solutions (max. 30 %). Temperature range: 5÷110 °C. Max. working pressure: 16 bar with worksite protection handwheel; 10 bar in combination with thermostatic head. Max. differential pressure with thermostatic head: 1,4 bar (1/2"). Can be combined with thermostatic heads R469H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

Additional information

For more information, go to www.giacomini.com or contact our technical assistance service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotto@giacomini.com
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