



Description

The H 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
R401H	R401HX003	1/2"	Iron pipe	Angle
	R401HX004	3/4"		
R402H	R402HX003	1/2"	Iron pipe	Straight
	R402HX004	3/4"		
R403H	R403HX023	1/2" (LT)	Iron pipe	Double angle
	R403HX033	1/2" (RG)		
R415H	R415HX003	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"); 0,7 bar (3/4")
- Can be combined with thermostatic heads R460H, R468H, R470H (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" (R401HX003, R402HX003, R403HX023, R403X033)	R460H	170	0,87
1/2" (R415HX003)		150	0,90
3/4" (R401H, R402H)		240	0,88
1/2" (R401HX003, R402HX003, R403HX023, R403X033)	R468H	160	0,91
1/2" (R415HX003)		150	0,91
3/4" (R401H, R402H)		240	0,88
1/2" (R401HX003, R402HX003, R403HX023, R403X033)	R470H	170	0,86
1/2" (R415HX003)		150	0,89
3/4" (R401H, R402H)		240	0,87

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
R460HX011	0,35 K	0,9 K	26 min.	0,4 K	0,6 K
R468HX001	0,23 K	0,66 K	25 min.	0,15 K	0,2 K
R470HX001	0,4 K	1,2 K	26 min.	0,55 K	0,6 K

Complies with Directive RT2012 <i>Certità con variation temporelle</i>		TELL	
Factor VT	Value VT_H	Energy efficiency class	Classification
0,56	0,6	0,5	

Installation of thermostatic heads

The R460H, R468H and R470H thermostatic head with threaded ring nut M30 x 1,5 mm, 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.

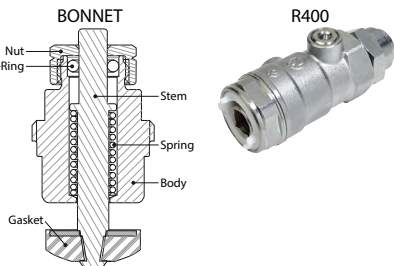
The worksite protection handwheel, however, allows the valve flow rate to be partialize: by turning it anticlockwise, the valve opens; turning it clockwise the valve closes.

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, 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.

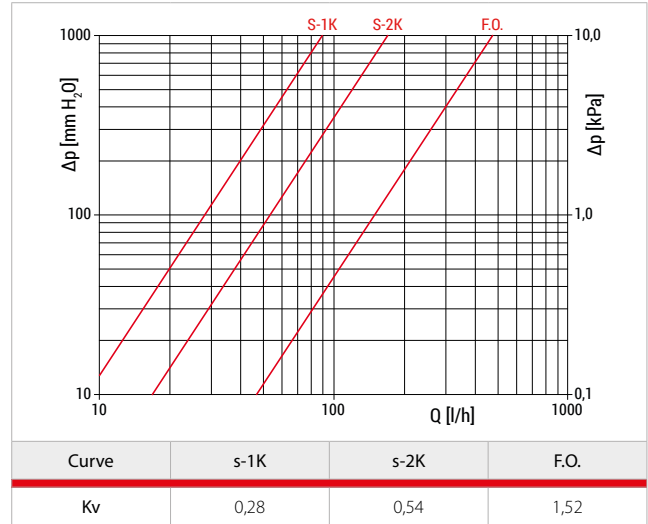


The bonnet replacement with R400 key, is not possible for the following valves: R401HX004, R402HX004

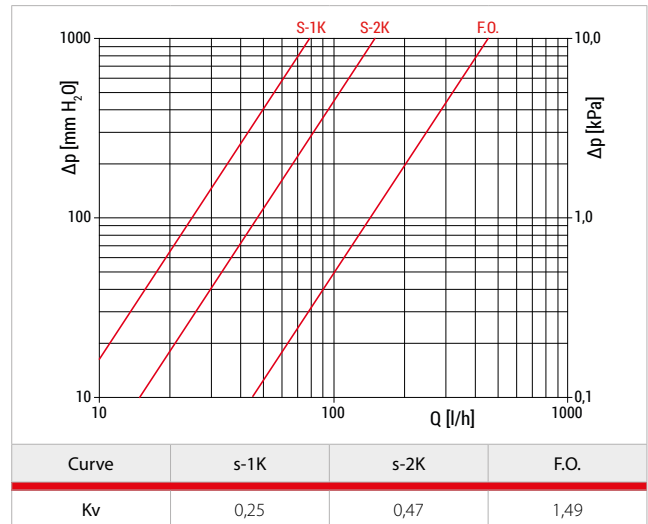
Hydraulic features

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

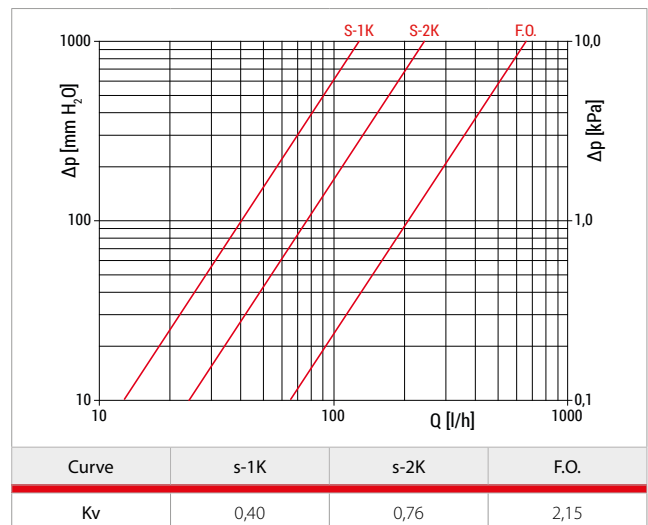
• R460H in combination with the valve bodies 1/2" (R401H, R402H, R403H)



• R460H in combination with the valve bodies 1/2" (R415H)

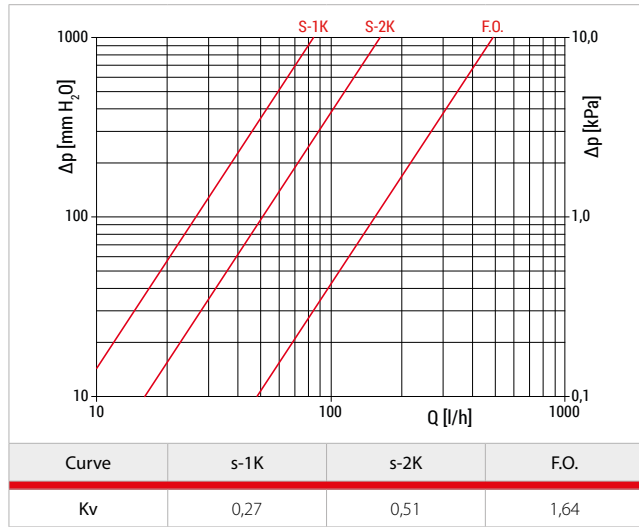


• R460H in combination with the valve bodies 3/4" (R401H, R402H)

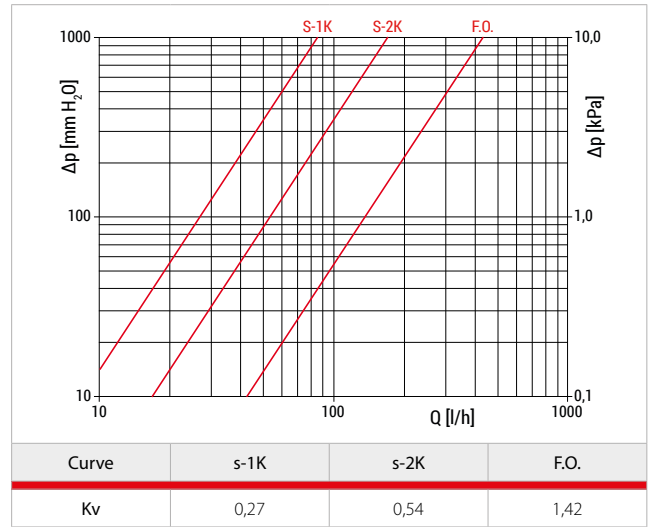




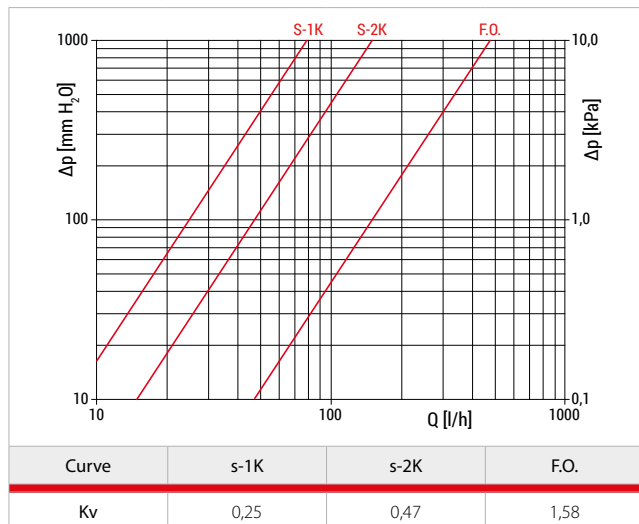
• R468H in combination with the valve bodies 1/2" (R401H, R402H, R403H)



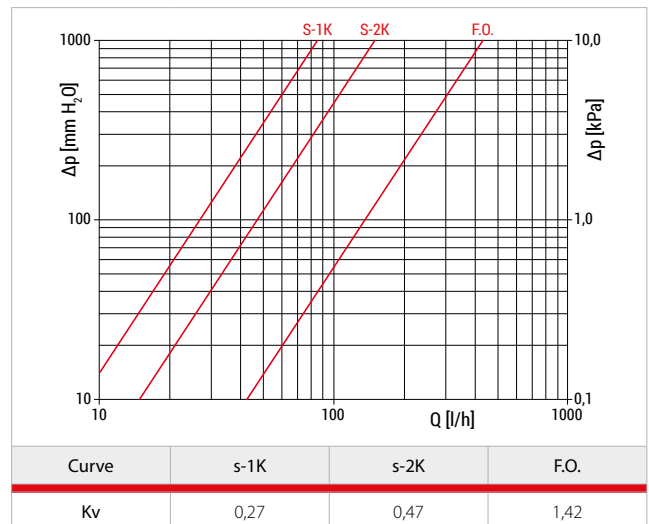
• R470H in combination with the valve bodies 1/2" (R401H, R402H, R403H)



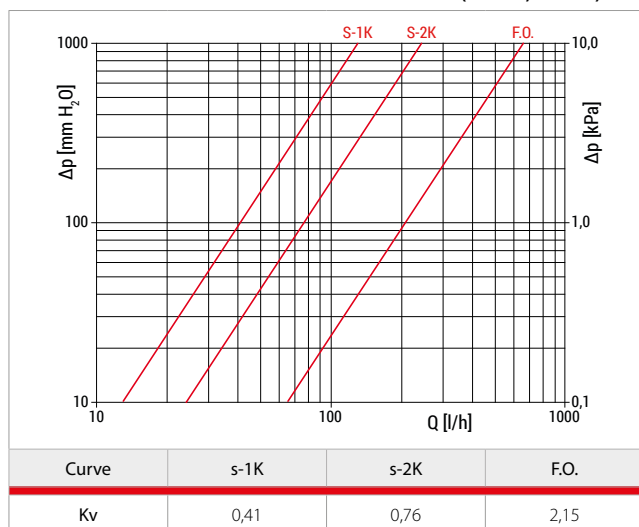
• R468H in combination with the valve bodies 1/2" (R415H)



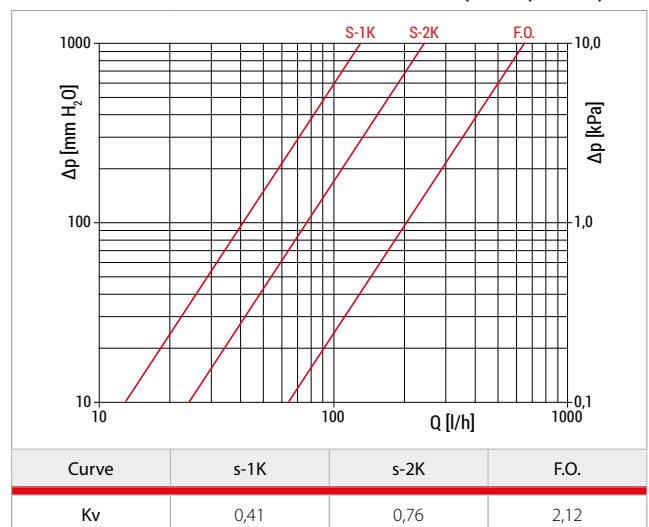
• R470H in combination with the valve bodies 1/2" (R415H)



• R468H in combination with the valve bodies 3/4" (R401H, R402H)

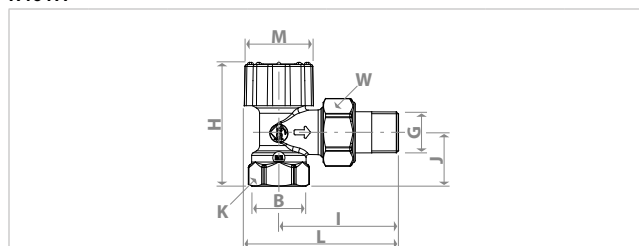


• R470H in combination with the valve bodies 3/4" (R401H, R402H)



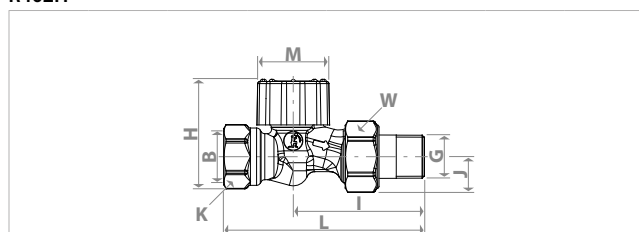
Dimensions

R401H



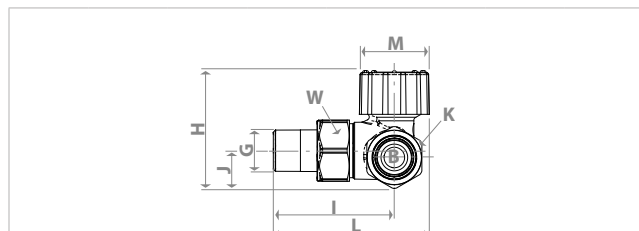
G x B	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	W [mm]
1/2"x1/2"	61	59	27	27	76	34	30
3/4"x3/4"	65	66	29	32	85	34	37

R402H



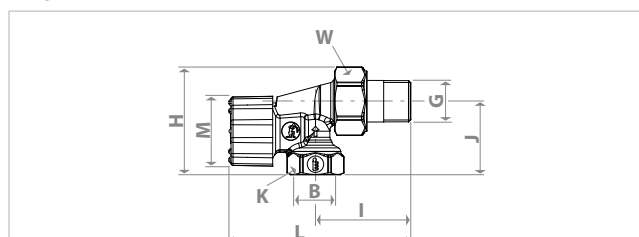
G x B	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	W [mm]
1/2"x1/2"	53	62	17	27	94	34	30
3/4"x3/4"	62	70	22	32	108	34	37

R403H



G x B	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	W [mm]
1/2"x1/2"	58	59	19	27	76	34	30

R415H



G x B	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	W [mm]
1/2"x1/2"	53	47	36	25	89	34	30

Product specifications

R401H

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"); 0,7 bar (3/4"). Can be combined with thermostatic heads R460H, R468H, R470H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

R402H

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"); 0,7 bar (3/4"). Can be combined with thermostatic heads R460H, R468H, R470H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

R403H

Double 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 R460H, R468H, R470H (M30 x 1,5 mm connection). KEYMARK (EN215) certification.

R415H

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 R460H, R468H, R470H (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.prodotti@giacomini.com
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