

3 - way valve (PN 10) KOVM - internal thread

Description



KOVM is 3-way mixing valve which can, among others, be used for the water-side regulation of terminals in the form of "fan-coils" or as induction units.

It can be combined with:

- RAVI and RAVK self-acting thermostatic actuators
- RA 8564 remote setting element

Main data:

- DN 15
- k_{vs} 0.63 2.0 m³/h
- PN 10
- Temperature:
 - Circulation water / glycolic water up to 30%:
 2 ... 90 °C
 - Connections:
 - Int. thread

Ordering

Example:

3-way valve, DN 15, k_{vs} 1.5, PN 10, t_{max} 90 °C, int. thread,

- 1x KOVM DN 15 valve Code No: 013U3015

Option:

- 1x Comp. fittings Code No: **013G4112**

KOVM valve

Distant	-	k _{vs} 1)	Connection	Different	ial pressure max	. (bar)	Co do No
Picture	DN	(m ³ /h)	ISO 7/1	with bypass	without bypass	$\Delta p_c^{2)}$	Code No.
<u>a</u>		0.63			0.8	0.8	013U3014
	15	1.5	R _P 1/2	1.6	0.8	0.8	013U3015
C. D		2.0			0.5	0.5	013U3020
₽ <u></u>			·				

 k_{VS} gives the water flow with fully open valve and differential pressure across the valve $\Delta p_v = 1$ bar

²⁾ Δp_c gives the max. differential pressure across the heat exchanger controlled by the value

Accessories

Picture	Type designations	Connection	Dimensions	Code No. 3)
			Ø 12 × 1	013G4112
		C 1/ A	Ø 14 × 1	013G4114
	Compression fittings ^{1), 2)}	G ½ A	Ø 15 × 1	013G4115
			Ø 16 × 1	013G4116

¹⁾ Compression fitting consist of compression ring and nut

²⁾ For steel and copper pipe

³⁾ The products can only be ordered in multiple packing containing 10 pieces each

Service kits

Picture	Type designations	Code No.
	Valve stuffing box	065F0006 ¹⁾

¹⁾ The products can only be ordered in multiple packing containing 10 pieces each



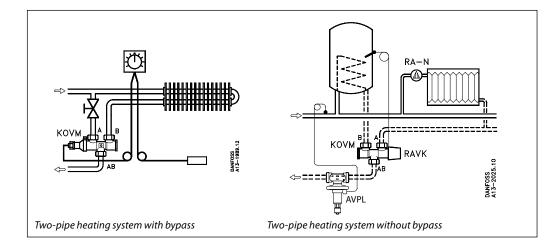
3 - way valve KOVM (PN 10)

Technical data

Nominal diameter	DN	15		
k _{vs} value	m³/h	0.63	1.5	2.0
Stroke mm		1.5		
Cavitation factor z		≥ 0.5		
Nominal pressure PN		10		
Medium		Circulation water / glycolic water up to 30%		
Medium pH		Min. 7, max. 10		
Medium temperature	°C	2 90		
Connections		Int. thread		
Materials				
Valve body ¹⁾		Brass		
Pressure pin and spindle		Stainless steel 18/8		
Valve cone	EPDM			
O-rings		EPDM		

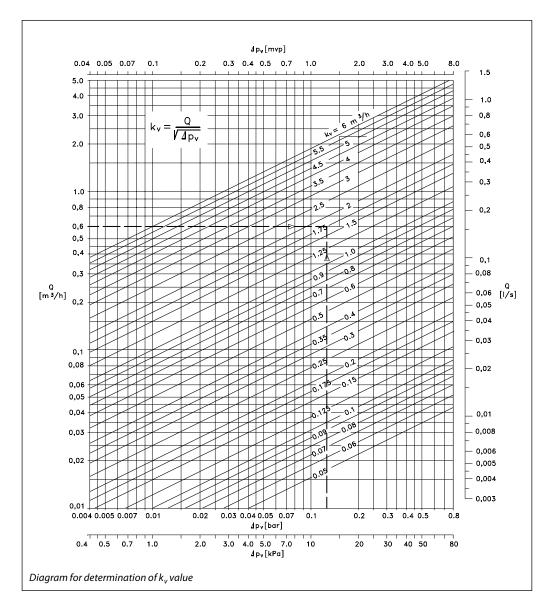
¹⁾ The valve body material does not permit the valve being used for service hot water.

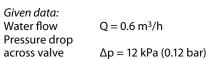
Application principles



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Sizing





The k_v value can be calculated from the formula:

$$k_v = \frac{Q}{\sqrt{\Delta p}} = \frac{0.6}{\sqrt{0.12}} = 1.73 \, \text{m}^3 \, / \, \text{h}$$

or be read from the diagram on the sloping lines for 1.75 m³/h, where the horizontal dotted line for Q = 0.6 m³/h intersects the vertical dotted line for Δp = 0.12 bar.

The selection is thus a valve with a $k_{\nu s}$ value of 2.0 $m^3/h.$

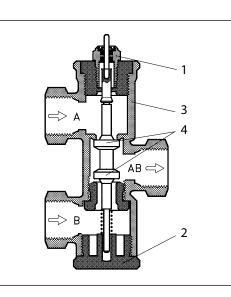
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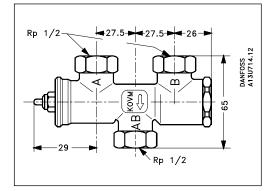
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Design

- 1. Valve stuffing box
- 2. Bottom screw
- Valve body
 Valve cone



Dimensions



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