Data sheet

KOVM 3-Way Mixing Valve



Application:



The Danfoss KOVM is a linear 3-way mixing valve with a unique bypass design allowing for constant system pressures and flow rates. When the KOVM is combined with either the RAVK non-electric thermostatic operator or the ABV 24VAC thermo-wax actuator the linear actuation of the valve results in the control of hot or chilled water flow to radiators, convectors, fan coil units, etc.

Features:

- Unique 3-way bypass design
- Linear valve actuation
- Provides constant zone or system flow
- Designed for use with RAVK/RA 2000 wall mount non-electric thermostatic operators or ABV 24VAC thermo-wax electronic actuators

Ordering Information:

KOVM Valve

Code No.	Size	Connection	Cv⁰	Max. Differential Pressure		
				w/ By pass	w/o By pass	Δp _c ²⁾
013U3017	1/2"	NPT	1.75	23 psi (1.6 bar)	12 psi	12 psi
013U301501			2.34		(0.8 bar)	(0.8 bar)
013U302001	Rp ½" 1)	Compression			7.25 psi (0.5 bar)	7.25 psi (0.5 bar)

⁶Cv is the flow rate allowed by the valve in GPM with a pressure drop of 1 psi.

Non-Electric Operators

Code No.	Size	Connection	Cv⁰
013U8063	RAVK, thermostatic operator	77-149°F (25-65°C)	6'6" (2 m)
013G8562	RA2000, wall mount operator with	45-86°F (7-30°C)	6' (1.8 m)
013G8565	combined remote mounted sensor and		16' (4.9 m)
013G8568	dial	(7 30 €)	26' (7.9 m)
013G8564	RA2000, wall mount operator with separate remote mounted sensor and dial	45-86°F (7-30°C)	2 x 6' (2 x 1.8 m)

Electronic Actuators

Code No.	Description	Туре	Consumption	
082F0002	ABV, thermo-wax 24VAC electronic	Normally open	0) (A	
082F0052	actuator	Normally closed	9VA	

¹⁾ Rp 1/2" valves are supplied with compression rings and nuts

 $^{^{2)}}$ Δp_{c} gives the max. differential pressure across the heat exchanger controlled by the valve

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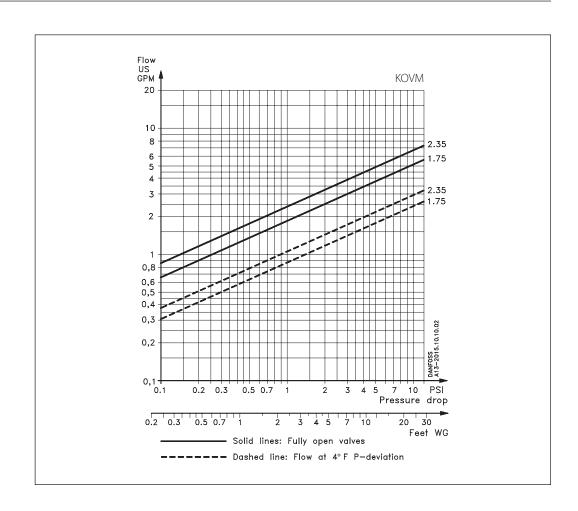
Spare Parts

Code No.	Description	
013G4116	Spare compression fitting for KOVM (consist of compression ring and nut)	
013U0070 Packing gland for KOVM		
017-4370	1/2" Brass sensor well for RAVK	

Technical Specifications:

Maximum operating pressure	145 psi (10 bar)		
Maximum operating temperature 180°F (90°C)			
Minimum operating temperature	9 36°F (2°C)		
Allamakia Anda	F	1) 100% water	
Allowable fluid	For close loop systems	2) Glycol mixture max. 30%	

Flow Diagram:



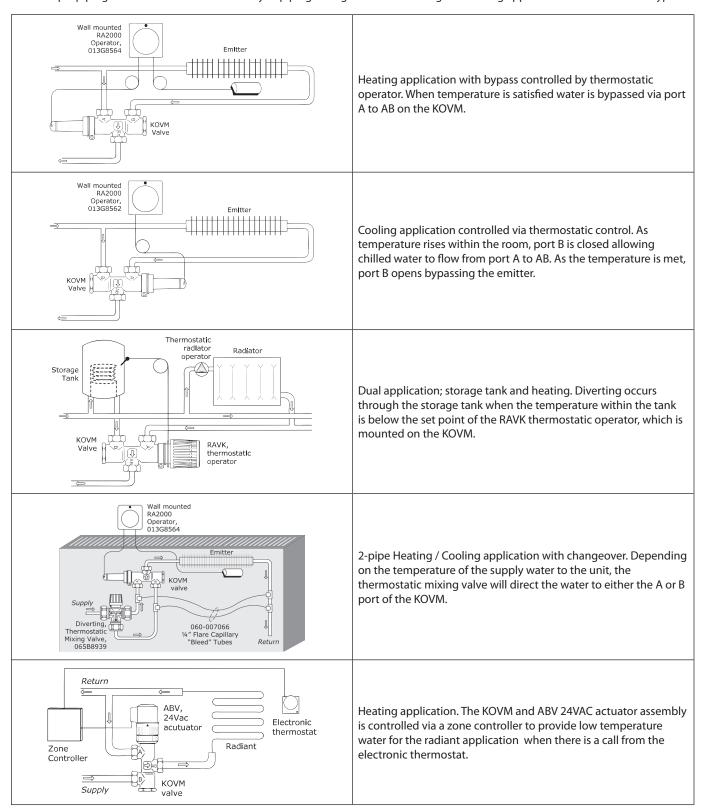
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Typical Installations:

The unique piping of the KOVM allow for a variety of piping arrangements for heating and cooling applications with or without bypass.

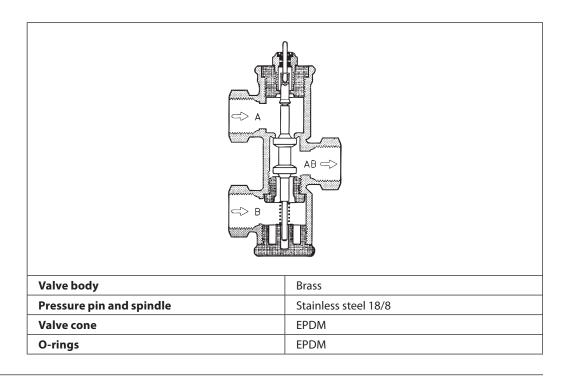


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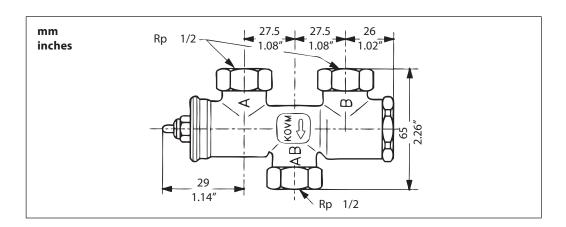
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Construction:



Dimensions:



Typical Specification:

The 3-way valve shall be made of a brass construction and have a linear actuation. The valve shall be capable of mixing or diverting applications and controlled via thermostatic

operator or actuated via 24VAC electronic actuator. The valve shall be available with female pipe threads or copper compression fittings.

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