

Data sheet

3-way seated valve VMV (PN 16)

- version with RAV neck, internal thread

- version with M30 neck, external thread

Description



VMV is 3-way seated mixing valve primarily use for flow temperature control.

It can be combined with:

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- AMV(E) 10, 13 electrical actuator
- AMV 150 + AMV(E) 130/140 electrical actuator
 ABV thermohydraulic actuator *
- *NC version only for DN15 and DN20
 VMV DN 15 and DN 20 can additionally be combined with self-acting thermostatic

combined with self-acting thermost actuators RAVK

Main data:

- DN 15-40
- k_{vs}2.5-12 m³/h
- PN 16
- Temperature:
 - Circulation water / glycolic water up to 30 %: 2 ... 120 $^\circ \! C$
- Connections:
- Internal (RAV neck) and external thread (M30 neck)

Ordering

Example:

Option:

3-way seated valve, DN 15, k_{vs} 2.5; PN 16, T_{max} 120 °C, ext. thread - 1× VMV DN 15 valve Code No: **065F6015**

> 1× Ext. thread tailpieces Code No: **065Z7010**

VMV valve

Picture	DN	k vs (m³/h)	Conne	ection	Actuator connection	Code No.
	15	2.5	Internal thread acc. to ISO 7/1	R _p 1/2	RAV neck	065F0015
	20	4.0		R _p ³ /4		065F0020
	25	6.3		R _p 1		065F0025
	32	10		R _p 11/4		065F0032
	40	12		R _p 11/2		065F0040
_	15	2.5	Cylindrical external thread acc. to ISO 228/1	G 3/4 A	M30 neck	065F6015
É	20	4.0		G 1 A		065F6020
•	25	6.3		G 11⁄4 A		065F6025
	32	10		G 1/2 A		065F6032
	40	12		G 2 A		065F6040

Accessories

Туре	Type designations	DN	Code No.
VMVH ¹⁾	Manual operation unit		065F0005
External thread tailpieces ²⁾		15	065Z7010
		20	065Z7011
		25	065Z7012
		32	065Z7013
		40	065Z7014
Adapter RAV / M30 neck			065Z7018

¹⁾ Only for valves with RAV neck

²⁾ Only for valves with external thread (M30 neck); incl. 3 tailpieces per code number

Service kits

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

 $^{\scriptscriptstyle 1)}$ The products can only be ordered in multiple packing containing 10 pieces each

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Technical data

VMV	valve
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Nominal diameter	DN	15	20	25	32	40
k _{vs} value	m³/h	2.5	4.0	6.3	10	12
Stroke	mm	2.0	2.1	2.6	3.1	3.3
Control ratio	1:50					
Control characteristic	Approximately linear					
Cavitation factor z	≥ 0.5					
Leakage acc. to standard IEC 534		$A-AB \le 0.05 \% \text{ of } k_{vs}$				
		$B-AB \le 0.1$ % of k_{vs}				
Nominal pressure PN		16				
Medium	Circulation water / glycolic water up to 30 %					
Medium pH	Min. 7, max. 10					
Medium temperature °C		2 120				
Connections	Int. and ext. thread					
Materials						
Valve body	Red bronze CuSn5ZnPb (Rg5)					
Valve seat	Red bronze CuSn5ZnPb (Rg5)					
Valve cone	EPDM					
Spindle	Stainless steel					

Application principles





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Installation

VMV must always be installed as a mixing valve (two inlet ports-one outlet port), according to flow direction arrows cast into the valve body. VMV closes across main ports A-AB on rising spindle travel.

Combination of VMV and RAVK (see "Application principles", Fig.2): Inlet must be on port A and port B, return on port AB.





 $Q = k_{VS} \sqrt{\Delta p_v}$

Туре	Max Δpv		
VMV 15	0.6 bar		
VMV 20	0.5 bar		
VMV 25	0.3 bar		
VMV 32	0.2 bar		
VMV 40	0.2 bar		

Sizing



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Dimensions



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