

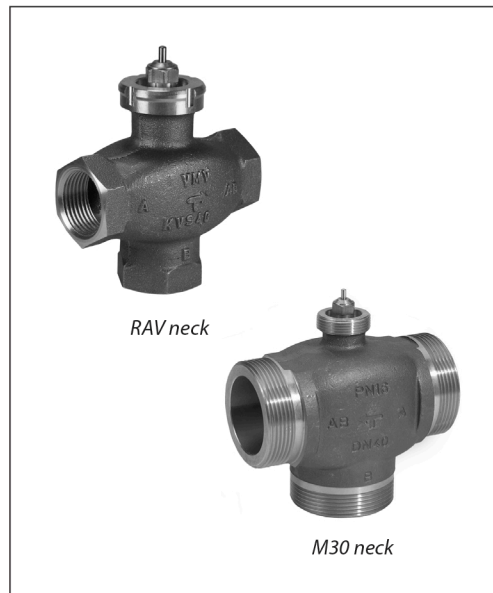


Data sheet

# 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:

- 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 actuators RAVK

Main data:

- DN 15-40
- $k_{vs}$  2.5-12 m<sup>3</sup>/h
- PN 16
- Temperature:
  - Circulation water / glycolic water up to 30 %: 2 ... 120 °C
- Connections:
  - Internal (RAV neck) and external thread (M30 neck)

Ordering

Example:  
3-way seated valve, DN 15,  $k_{vs}$  2.5;  
PN 16,  $T_{max}$  120 °C, ext. thread

- 1x VMV DN 15 valve  
Code No: **065F6015**

Option:  
- 1x Ext. thread tailpieces  
Code No: **065Z7010**

VMV valve

Picture	DN	$k_{vs}$ (m <sup>3</sup> /h)	Connection	Actuator connection	Code No.
	15	2.5	Internal thread acc. to ISO 7/1	R <sub>p</sub> 1/2	<b>065F0015</b>
	20	4.0		R <sub>p</sub> 3/4	<b>065F0020</b>
	25	6.3		R <sub>p</sub> 1	<b>065F0025</b>
	32	10		R <sub>p</sub> 1 1/4	<b>065F0032</b>
	40	12		R <sub>p</sub> 1 1/2	<b>065F0040</b>
	15	2.5	Cylindrical external thread acc. to ISO 228/1	G 3/4 A	<b>065F6015</b>
	20	4.0		G 1 A	<b>065F6020</b>
	25	6.3		G 1 1/4 A	<b>065F6025</b>
	32	10		G 1 1/2 A	<b>065F6032</b>
	40	12		G 2 A	<b>065F6040</b>

Accessories

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

<sup>1)</sup> Only for valves with RAV neck

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

Service kits

Type designations	Code No.
Valve stuffing box	<b>065F0006</b> <sup>1)</sup>

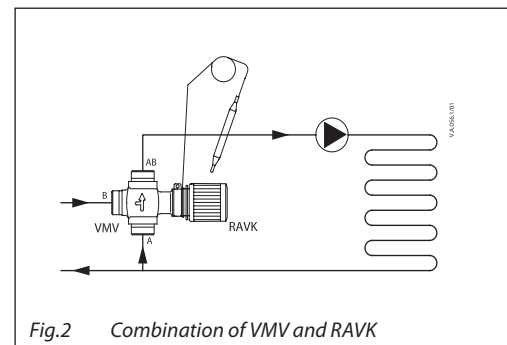
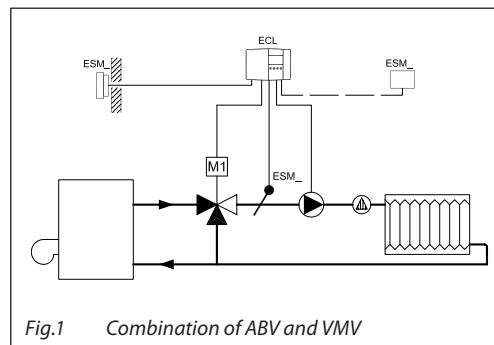
<sup>1)</sup> The products can only be ordered in multiple packing containing 10 pieces each

Technical data

VMV valve

Nominal diameter	DN	15	20	25	32	40
$k_{VS}$ value	m <sup>3</sup> /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		$\geq 0.5$				
Leakage acc. to standard IEC 534		$A-AB \leq 0.05\% \text{ of } k_{VS}$				
		$B-AB \leq 0.1\% \text{ of } k_{VS}$				
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				
<b>Materials</b>						
Valve body		Red bronze CuSn5ZnPb (Rg5)				
Valve seat		Red bronze CuSn5ZnPb (Rg5)				
Valve cone		EPDM				
Spindle		Stainless steel				

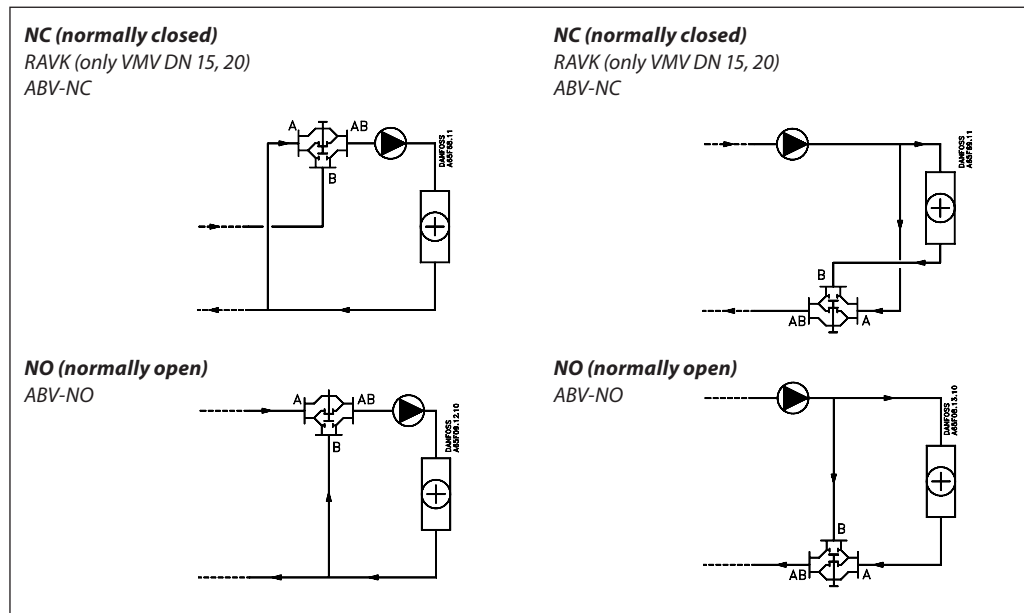
Application principles



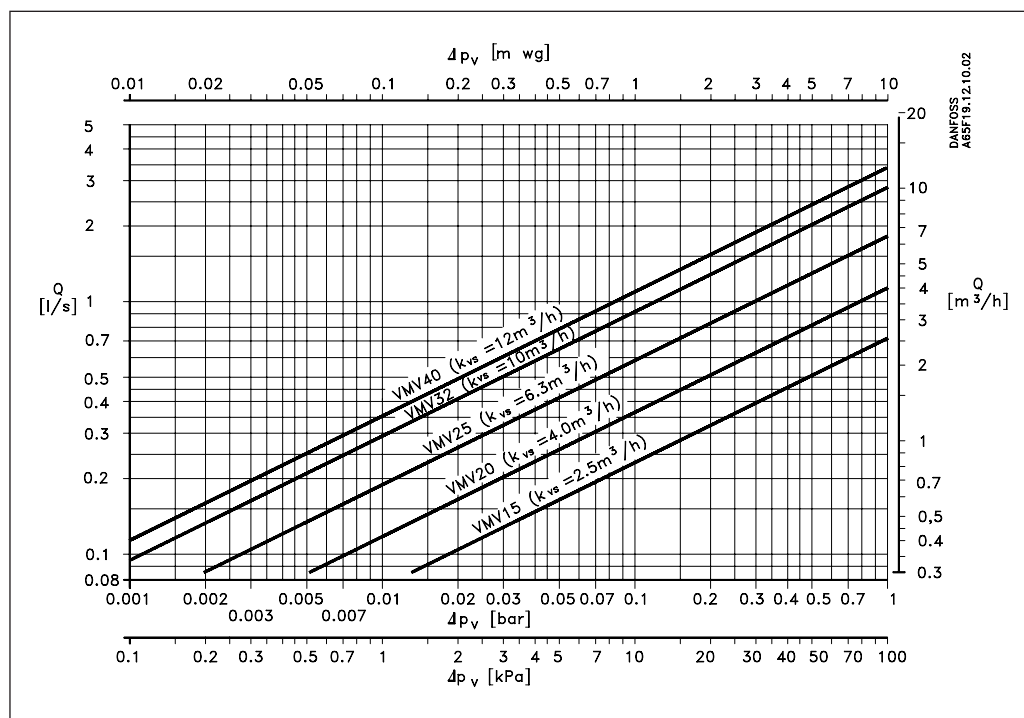
Installation

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.

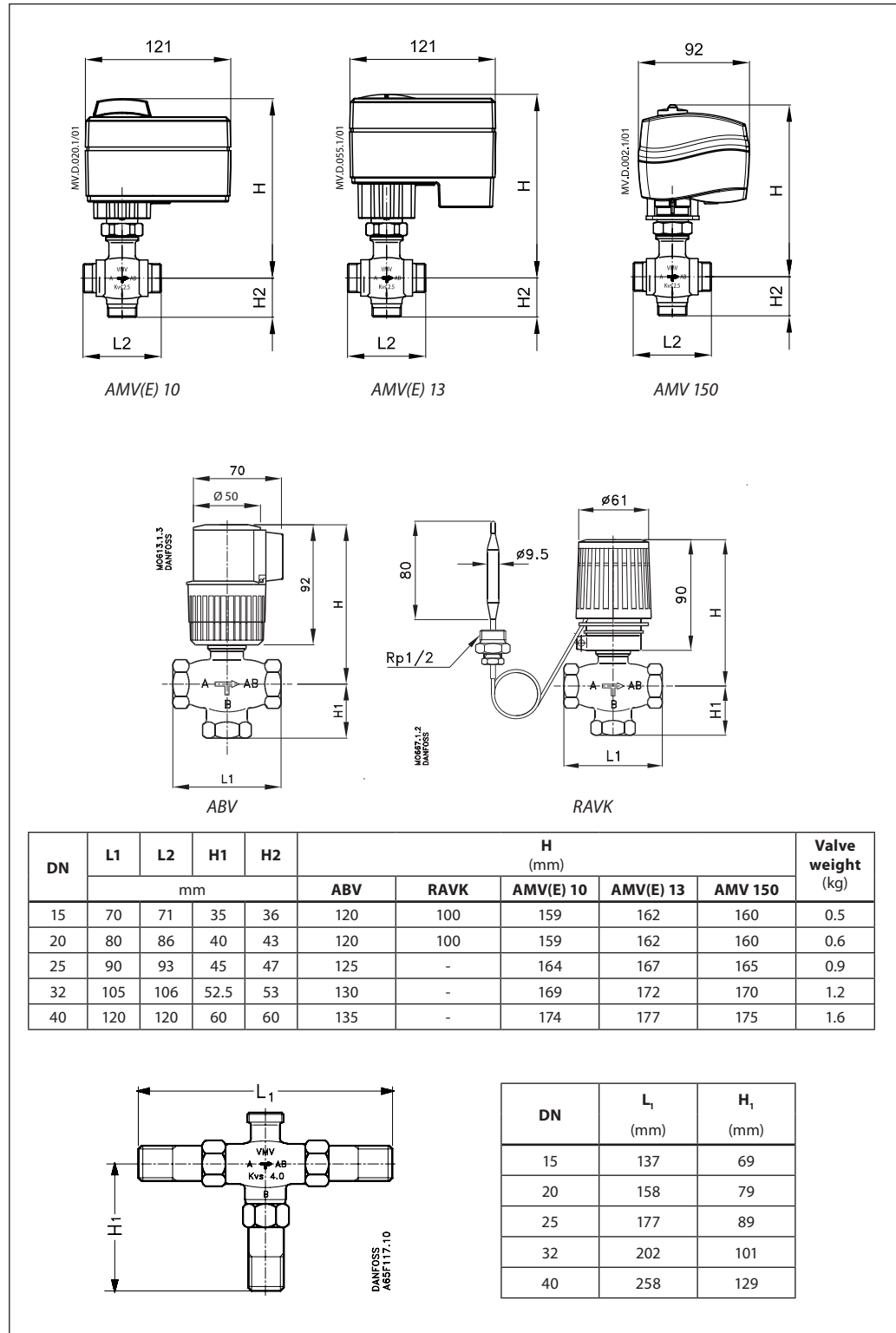
Combination of VMV and RAVK (see "Application principles", Fig.2): Inlet must be on port A and port B, return on port AB.



Sizing



Dimensions



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