



ABV

Features & benefits

- 24 V or 230/240 V
- Direct-acting or reverse-acting versions
- Power consumption 9 VA
- Built-in manual operation
- Built-in k_v limiting
- For type RAV, VMA and VMT 2-way valves
- For type VMV and KOVM 3-way valves

Ordering

Product code numbers

Type	Description	Supply voltage [V] AC	Power consumption [W]	Code number	VVS DK
ABV	ABV NO-220V AKT	230	9.0	082F0001	460947730
ABV	ABV NO-24V AKTU	24	9.0	082F0002	460947710
ABV	ABV NC-220V AKT	230	9.0	082F0051	460947770
ABV	ABV NC-24V AKTU	24	9.0	082F0052	460947750
ABV	ABV NC-220V	230	9.0	082F6003	

Note:

ABV actuators are available in normally open (NO) and normally closed (NC) versions. The indicated type refers to the valve position when de-energized.

For **2-way valves** (VMA/VMT/RAV), NO = open and NC = closed.

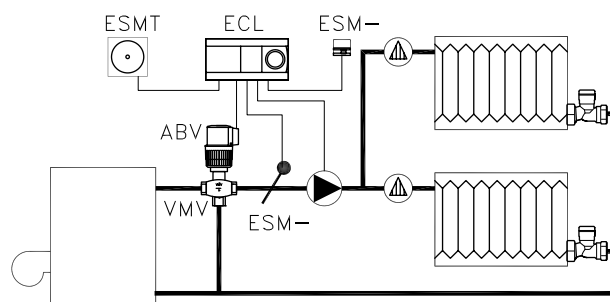
For **3-way valves** (VMV/KOVM), NO = A-AB closed / B-AB open, and NC = A-AB open / B-AB closed.

Overview

Application examples

ABV thermohydraulic motor is used with small Danfoss seated valves to control:

- Flow temperature
- Floor heating systems
- Hot water service systems
- Zone valves
- District heating systems



Application table

Valve type	Application										
	Flow temperature control								ON/OFF control		
	Oil and gas burners				District heating				Zone control	Hot water control	
	Mixing with boiler shunt	Burner control with hot water priority	Mixing loop system		Mixing loop system		Heat exchanger			Storage cylinder	
	ABV	ABV	ABV	ABV	ABV		ABV		ABV		
NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	
RAV-/2, RAV-/8			x	x		x	x	x	x	x	x
VMT-/2, VMT-/8			x	x		x	x	x	x	x	x
VMA			x	x		x	x	x	x	x	x
VMV 15 - 20	x		x					x		x	
VMV 25 - 40	x		x					x		x	
KOVM										x	x

Note: Only applications as indicated in table are valid.

Product details

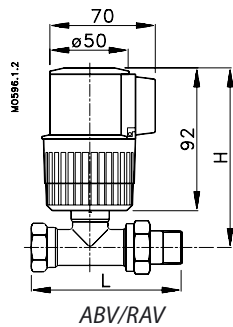
General data

Technical data

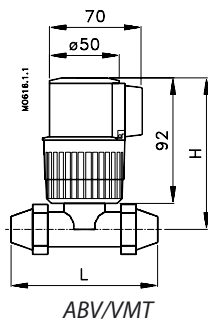
Supply voltage (V)	24 AC/DC; 30 to –15 % 230 AC; 10 to –15 % 240 AC; 6 to –15 %
Frequency (Hz)	50 - 60
Consumption (VA)	9
Time for full spindle travel, ABV-NO (min)	10 - 12
Time for full spindle travel, ABV-NC (min)	8 - 10
Max. permissible spindle travel, ABV-NO (mm)	4
Max. permissible spindle travel, ABV-NC (mm)	2.2
Ambient temperature (°C)	0 ... 60
Enclosure	IP 41
Weight (kg)	0.3
Mounting	Any position



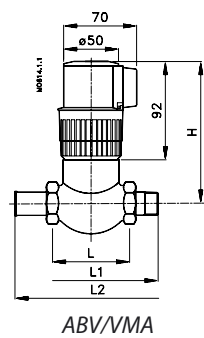
Dimensions



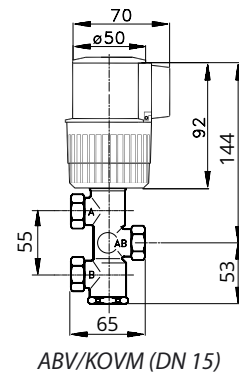
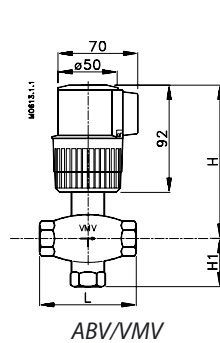
DN	Type	H (mm)	L (mm)
15	RAV/8	111	95
20	RAV/8	111	106
25	RAV/8	124	125



DN	Type	H (mm)	L (mm)
15	VMT/8	111	105
20	VMT/8	111	123
25	VMT/8	124	146



DN	Type	H (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)
15	VMA	127	65	131	139
20	VMA	127	70	142	154
25	VMA	132	75	159	159

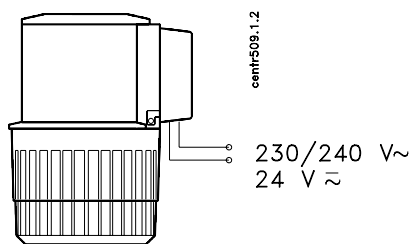


DN	Type	H (mm)	H ₁ (mm)	L (mm)
15	VMT/8	111	35	105
20	VMT/8	111	40	123
25	VMT/8	124	45	146
32*	VMV	130	50	105
40*	VMV	135	60	120

* ABV-NO only

Connections

Electrical connections



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
EAC Declaration	EAC KZ 7100841.13.12.01046	EAC - Eurasian Customs Union	EMC
EAC Declaration	EAC KZ 7100841.13.12.01045	EAC - Eurasian Customs Union	LVD
Export Control Declaration	Actuators pressure flow and temperature	Danfoss	

Contact details

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