



Electrical actuators

AMV 55 / AMV 56

Description

The actuators are used with valves:

- VFM2 (DN 65-150) only in combination with AMV 55,
- VFS 2 (DN 15-50) only in combination with AMV 56 and clutch **065Z7551**,
- VFS 2 (DN 65-100),
- VL 2/3 (DN 100),
- VF 2/3 (DN 100-150),
- VL 2/3 & VF 2/3 (DN 65, 80) only in combination with AMV 56 and adapter **065Z0312**,
- or AFQM (DN 65-125) and AFQM 6 (DN 40-50)

Features & benefits

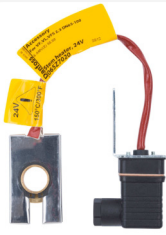
- Load related "switch off" function that prevents overloading
- Optional auxiliary switches, feedback potentiometer and valve stem heater are available.

Ordering

Product code numbers

Type	Supply voltage [V] AC	Code number	VVS DK
AMV 55	24	082H3020	460946155
AMV 55	230	082H3021	460946156
AMV 56	24	082H3023	460946356
AMV 56	230	082H3024	460946357

Accessories code numbers



065Z7022

Stem heater AMV55/56

Stem heater AMV55/56



082H7036

Accessories - Electr Act

ADD.POTENTIOMETER
(10K/40mm)AMV 55,56

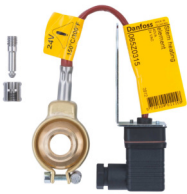
082H7039

Accessories - Electr Act

ADD.POTENTIOMETER
(1K,40mm)AMV 55,56

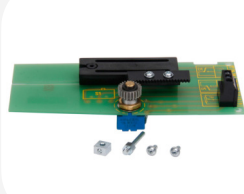
082H7035

Accessories - Electr Act

ADD.POTENTIOMETER
(10K/30mm)AMV 55,56

065Z0315

Stem heater for AMV(E) 335/435, AME 435 QM, NovoCon M

Stem heater for AMV(E)
335/435, AME 435 QM,
NovoCon M

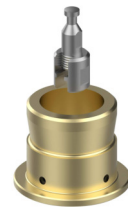
082H7038

Accessories - Electr Act

ADD.POTENTIOMETER
(1K,30mm)AMV 55,56

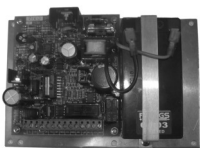
065Z7551

Spare part Clutch for AMV(E) 55/56 for VFS DN15-DN50

Spare part Clutch for AMV(E)
55/56 for VFS DN15-DN50

065Z0312

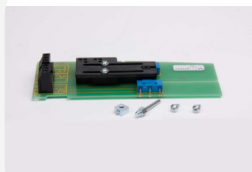
AdapAMx55/56/y23- VRB/G,VF/L2009dn65-80

AdapAMx55/56/y23-
VRB/G,VF/L2009dn65-80

082H7090

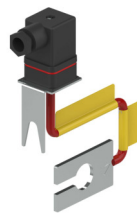
AM-PBU 25, Supply voltage [V] AC: 24

AM-PBU 25



082H7037

Accessories - Electr Act

ADDITIONAL SWITCH 2S FOR
AMV 55/56

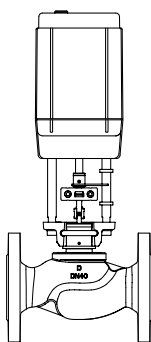
065Z7020

STEM HEATER

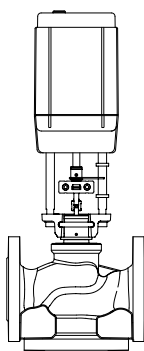
STEM HEATER

Accessory code numbers only for Danish market:

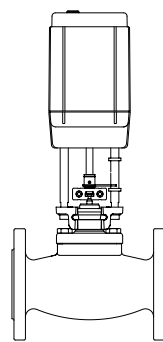
Code No.	VVS nr.
082H7035	46 0946.863
082H7036	46 0946.864
082H7038	46 0946.861
082H7039	46 0946.862
082H7037	46 0946.811
065Z0315	46 0946.906
065Z7020	46 0946.903
065Z7022	46 0946.904
065Z0312	46 0946.914

Overview**Product portfolio****Actuator - valve combinations**

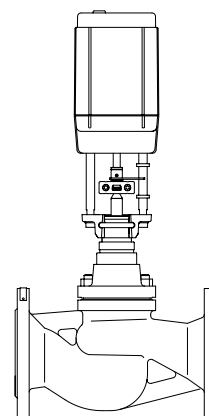
AMV 56 +
VL 2, VF 2 (DN 65-80) +
adapter **065Z0312**



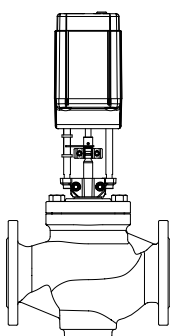
AMV 56 +
VL 3, VF 3 (DN 65, 80) +
adapter **065Z0312**



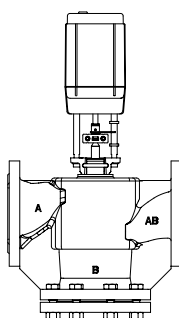
AMV 56 +
VFS 2 (DN 15-50) +
clutch **065Z7551**



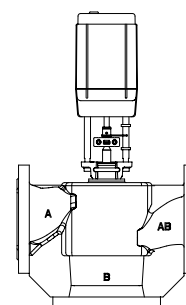
AMV 55, AMV 56 +
VF 2 (DN 65-100)



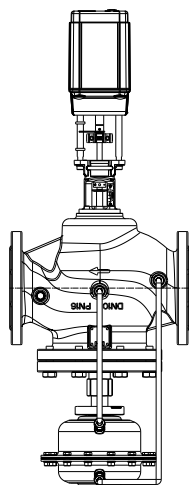
AMV 55 +
VFM 2 (DN 65-150)



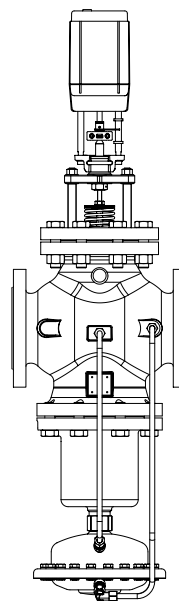
AMV 55, AMV 56 +
VL 2 (DN 100)
VF 2 (DN 100-150)



AMV 55, AMV 56 +
VL 3 (DN 100)
VF 3 (DN 100-150)



*AME 55 + AFQM 2 (DN 65-250),
AME 56 + AFQM 2 (DN 65-125)*



*AMV 55, AMV 56 +
AFQM (DN 65-125)
AFQM 6 (DN 40-50)*

Functions

Operation

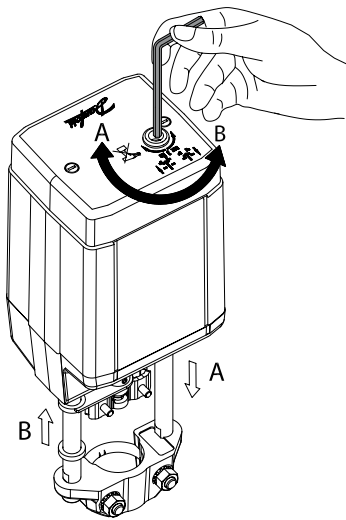
Commissioning

The following mechanical and electrical installation and the necessary checks and tests are to be completed in order to commission the unit:

- Turn on the power.
- Set the appropriate control signal and check the valve stem direction is correct for the application.

The unit is now fully commissioned.

Manual override



The manual override is applied by rotating the 4 mm Allen key (not supplied) to the required position. Observe the direction of the rotation symbol.

- Disconnect control signals
- Adjust valve position using an Allen key
- Set valve to closed position
- Restore control signals

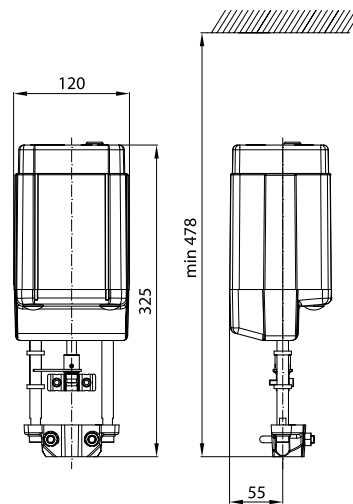
Product details

General data

Technical data

Type	AMV 55	AMV 56
Power supply (V)	24, 230 ; $\pm 10\%$	24, 230 ; $\pm 10\%$
Power consumption (VA)	7	17.5
Frequency (Hz)	50/60	50/60
Control input	3-point	3-point
Close of force (N)	2000	1500
Max. stroke (mm)	40	40
Speed (s/mm)	8	4
Max. medium temperature (°C)	200	200
Ambient temperature (°C)	0 ... 55	0 ... 55
Storage and transport temperature (°C)	-40 ... 70	-40 ... 70
Ambient humidity	95 % r.h., non-condensing	95 % r.h., non-condensing
Protection class	I (230 V); III (24 V)	I (230 V); III (24 V)
Grade of enclosure	IP 54	IP 54
Weight (kg)	3.8	3.8

Dimensions



Installation

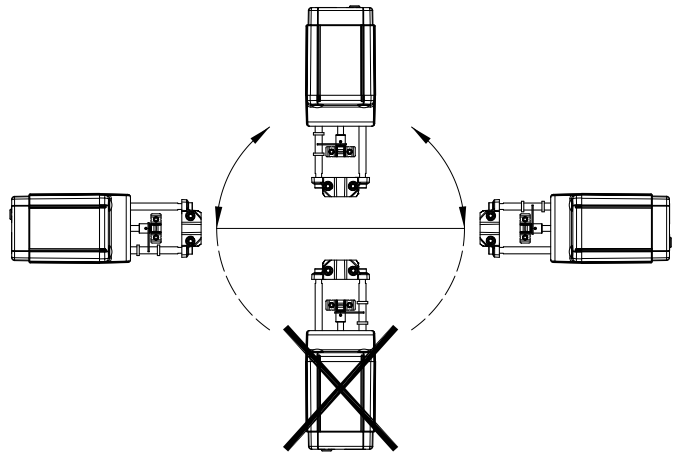
Mechanical

The actuator should be mounted with the valve stem (use a 4 mm Allen key -not supplied) in either horizontal position or pointing upwards. Use a M8/SW13 key (not supplied) to fit the actuator to the valve body. Allow for necessary clearance for maintenance purposes.

The valve has position indication rings which should be pushed together before commissioning; after stroking they indicate the ends of the stroke.

Electrical

Electrical connections can be accessed by removing the cover. Two M16 × 1,5 cable entries are provided. Both entries are provided with a rubber grommet for use with flexible cable. Note that in order to maintain the enclosure IP rating, appropriate cable glands must be used.

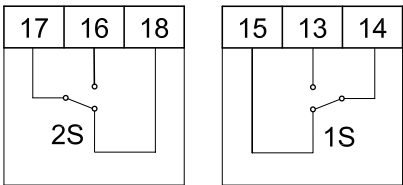
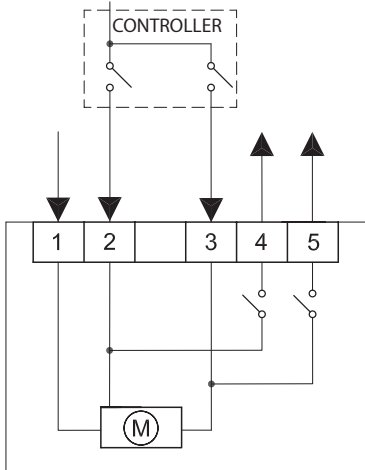


Wiring

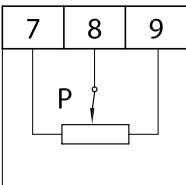


230 V AC version:
Do not touch anything on the PCB! Lethal voltage!

24 V AC, 230 V AC, 50/60 Hz



Two additional switches 2S



Additional potentiometer P

1	0 V		Neutral	
2	Input power supply		082H3020 082H3023	24 V
3			082H3021 082H3024	230 V
4			Output	
5				

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
UA Declaration	UA Actuators 2024-06-27	Danfoss	LVD
UA Declaration	UA Controllers 2024-07-25	Danfoss	LVD
Export Control Declaration	Actuators pressure flow and temperature	Danfoss	
EU Declaration	Danfoss EU 221011EN0815101	Danfoss	LVD

Contact details

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