



AMV 20 SL, 30 SL

AMV 23 SL

Electrical actuators

AMV 20 SL / AMV 23 SL / AMV
30 SL

Description

The actuators for 3-point controls with or without safety function are suitable to be used with VS2, VM2, VB2 and AVQM valves.

The safety function on AMV 23 SL is activated automatically in case of power failure or if the power supply is switched off by the safety thermostat. This function provides safety shut off on power failure.

In addition to basic function such as manual control and position indication, the actuators are also equipped with force sensitive switch-off to ensure that actuators and valves are not exposed to overload. This function automatically ensures the self-adjustment of the end positions on the valve.

Actuators are also equipped with stroke limitation that can limit flow in valves. Limitation of stroke is designed with switch that can be set in any desirable position (stroke limit from 0 to 100%).

Features & benefits

- The advanced design incorporates load related 'switch-off' to ensure that actuators and valves are not exposed to overload.
- Digital feedback end position indication signal for valve end position is available by terminal 4 or 13.
- Low weight and robust.

Ordering

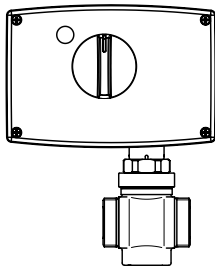
Product code numbers

Type	Supply voltage [V] AC	Code number
AMV 20 SL	230	082G3035
AMV 20 SL	24	082G3036
AMV 23 SL	230	082G3037
AMV 23 SL	24	082G3038
AMV 30 SL	230	082G3055

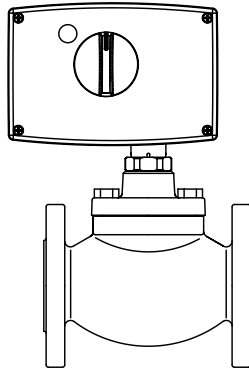
Overview

Product portfolio

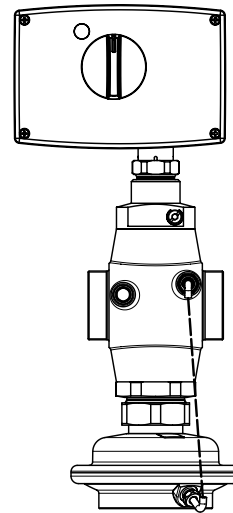
Actuator - valve combinations



*AMV 20 SL/30 SL, 23 SL +
VS2 (DN 15-25)
VM2 (DN 15-50)*



*AMV 20 SL/30 SL, 23 SL +
VB2 (DN 15-50)*



*AMV 20 SL/30 SL, 23 SL +
AVQM (see Data sheet)*

Functions

Operation

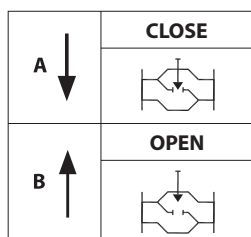
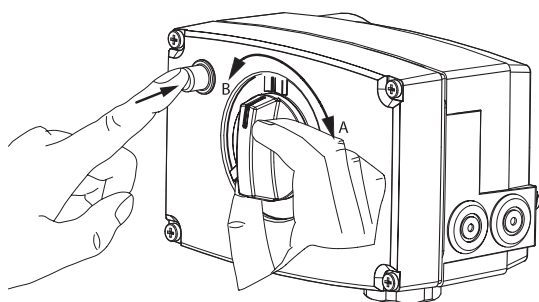
Commissioning

Complete the mechanical and electrical installation and perform the necessary checks and tests:

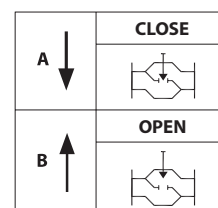
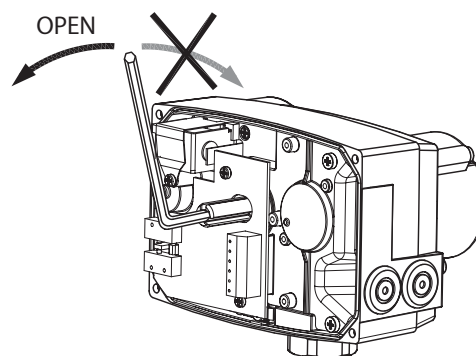
- Turn on the power.
- Set the appropriate control signal and check that the valve stem direction is correct for the application.

The unit is now fully commissioned.

Manual override



AMV 20 SL, AMV 30 SL



AMV 23 SL

Product details

General data

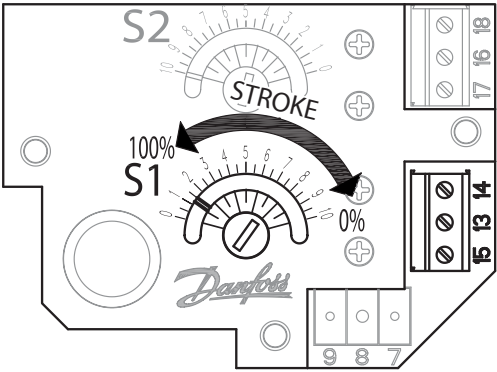
Technical data

Type	AMV 20 SL	AMV 23 SL	AMV 30 SL
Power supply (Vac)	24~, 230~, +10 to -15 %	24~, 230~, +10 to -15 %	230~, +10 to -15 %
Power consumption (VA)	2.15	7	7
Frequency (Hz)	50/60	50/60	50/60
Safety function	-	yes	-
Control input	3-point	3-point	3-point
Closing force (N)	450	450	450
Spindle travel (mm)	10	10	10
Spindle speed (s/mm)	15	15	3
Max. medium temperature inside the pipe (°C)	150	150	150
Ambient temperature (°C)	0 ... 55	0 ... 55	0 ... 55
Storage and transport temperature (°C)	-40 ... 70	-40 ... 70	-40 ... 70
Ambient humidity	5-95 % r.h., non-condensing	5-95 % r.h., non-condensing	5-95 % r.h., non-condensing
Protection Class	I (230 V); III (24 V)	I (230 V); III (24 V)	I (230 V); III (24 V)
Grade of enclosure	IP 54	IP 54	IP 54
Weight (kg)	1.4	1.45	1.4

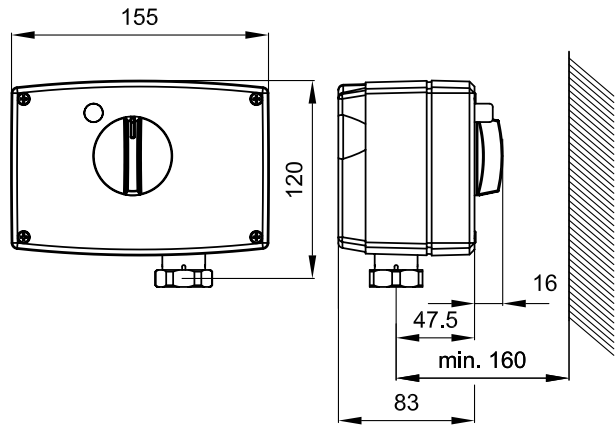
Note: Do not use safety activations for ON/OFF regulation.



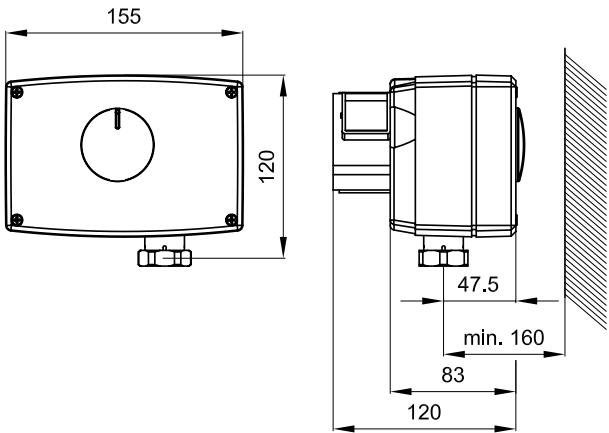
Stroke limitation



Dimensions

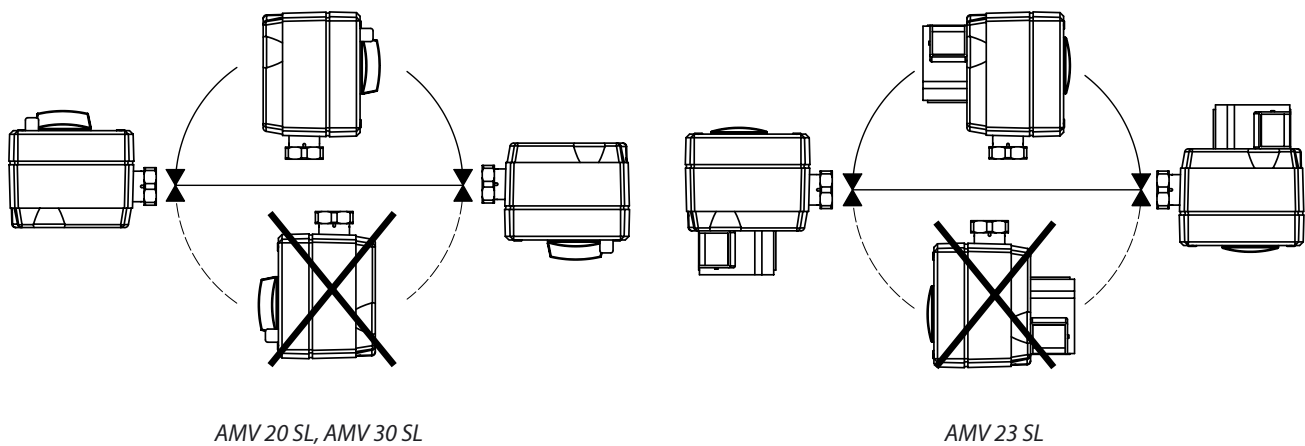


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Installation



Mechanical

The actuator should be mounted with the valve stem in either horizontal position or pointing upwards.

The actuator is fixed to the valve body by means of a mounting ring, which requires no tools for mounting. The ring should be tightened by hand.

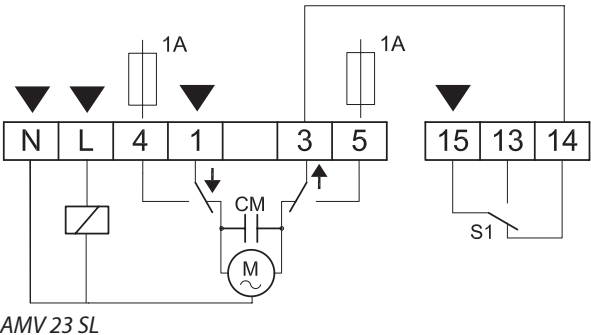
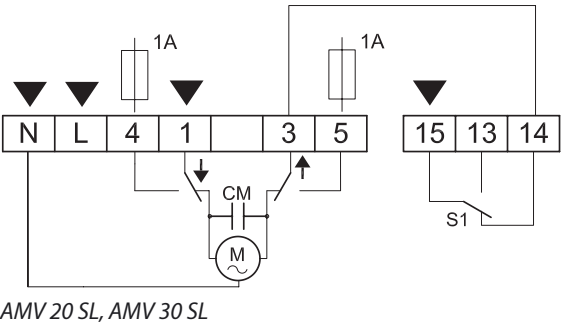
Electrical

Important: It is strongly recommended that the mechanical installation is completed before the electrical installation.

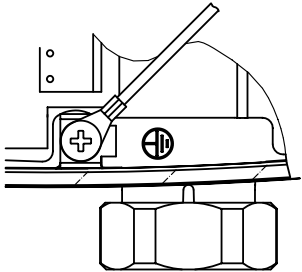
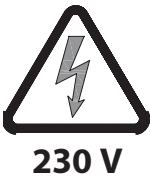
Note: Two cable entries are provided for M 16×1.5 cable glands. One entry is provided with a rubber grommet. Note that in order to maintain the enclosure's IP rating, appropriate cable glands must be used.



Wiring



N	0 V		Neutral
L	24/230 Vac		Power supply
1	24/230 Vac		Input
15			
4, 13			Output



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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	Electrical actuators	Danfoss	

Contact details

Online support

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