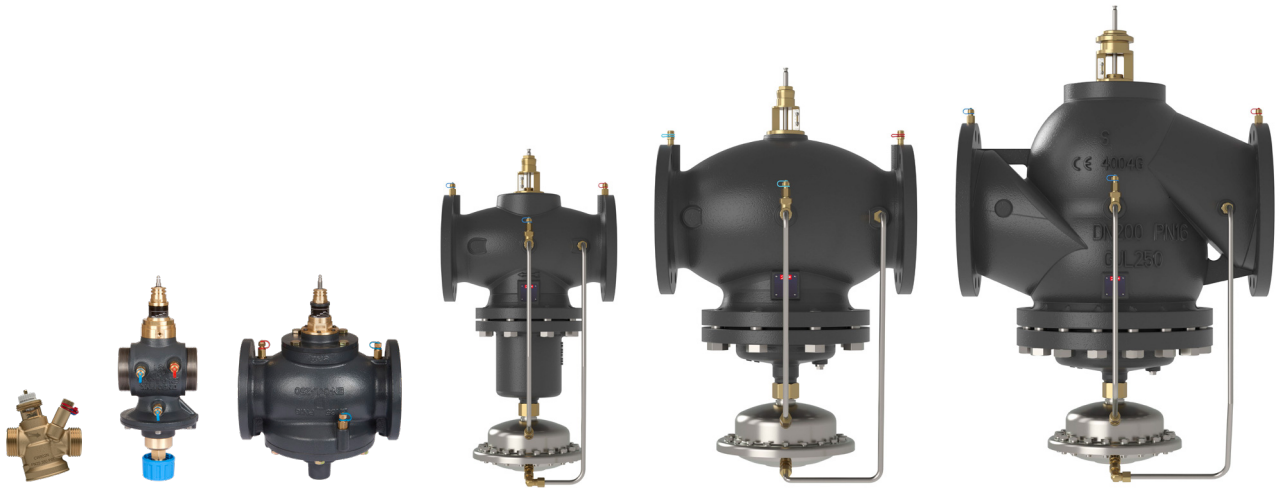


Data sheet

AB-QM 4.0 / AB-QM Pressure Independent Control Valves (PICV) DN 15-250



The AB-QM valve equipped with an actuator is a control valve with full authority and an automatic balancing function / flow limitation. Typical applications are: Temperature control with permanent automatic balancing on terminal units (chillers, air-handling units, fan coils, induction units, radiation panels and heat exchangers). Without an actuator is a flow limiter e.g for one-pipe systems.

Description

The Danfoss AB-QM is a Pressure Independent Control Valve (PICV) that combines high accuracy and durability with market leading user-friendliness. The design of the AB-QM is fully geared towards making your project run on time and on budget while delivering the most efficient HVAC system.


Pressure independent valves are control valves with an automatic balancing function. An in-built pressure controller keeps a constant differential pressure over the control valve, ensuring full authority and automatic flow limitation. By combining two functions in one, control and automatic hydronic balance, Danfoss PICVs provide a cost-efficient solution for the challenges faced by forward-looking designers of HVAC systems.

The Danfoss AB-QM delivers the lowest total cost of ownership because:

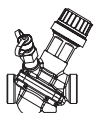
- Precise flow limitation ensures always the right flow at the right time, ensuring minimized pumping energy
- Full range from DN15 to DN250 for flows up to 407 m³/h
- Available with internal and external thread for universal applicability
- Danfoss' durability test ensures the AB-QM has best-in-class resistance to scaling and clogging
- Easy troubleshooting because of the always visible setting and the ability to measure flow through test plugs
- Minimum hysteresis for stable and precise temperature control
- Future-ready with a range of smart actuators, ready for data driven and optimized HVAC 4.0

Ordering

AB-QM 4.0 threaded version (with test plugs and without test plugs) - External thread


Type				With test plugs	Without test plugs
Picture	DN	Q _{nom.} (l/h)	Ext. thread (ISO 228/1)	Code No.	Code No.
	15 LF	200	G 3/4A	003Z8200	003Z8220
	15	600		003Z8201	003Z8221
	15 HF	1,200		003Z8202	003Z8222
	20	1,200	G 1A	003Z8203	003Z8223
	20 HF	2,200		003Z8204	003Z8224

AB-QM threaded version (with test plugs and without test plugs) - External thread

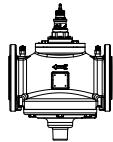
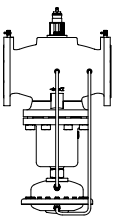
Type				With test plugs	Without test plugs
Picture	DN	Q _{nom.} (l/h)	Ext. thread (ISO 228/1)	Code No.	Code No.
	25	1,700	G 1 1/4A	003Z1214	003Z1204
	25HF	2,700		-	003Z1224
	32	3,200	G 1 1/2A	003Z1215	003Z1205
	32 HF	4,000		-	003Z1225
	40	7,500	G 2 A	003Z0770	*
	50	12,500	G 2 1/2 A	003Z0771	

* AB-QM DN 15-32 w/o TP can not be upgraded to version with TP




AB-QM 4.0 threaded version (with test plugs and without test plugs) - Internal thread


Type				With test plugs	Without test plugs
Picture	DN	Q _{nom.} (l/h)	Int. thread (ISO 7/1)	Code No.	Code No.
	15 LF	200	Rp 1/2	003Z8300	003Z8320
	15	600		003Z8301	003Z8321
	15 HF	1,200		003Z8302	003Z8322
	20	1,200	Rp 3/4	003Z8303	003Z8323
	20 HF	2,200		003Z8304	003Z8324

AB-QM flanged version

Picture	DN	Q _{nom.} (l/h)	Flange connection (EN 1092-1)	Code No.
	50	12,500	PN 16	003Z0772
	65	20,000		003Z0773
	65 HF	25,000		003Z0793
	80	28,000		003Z0774
	80 HF	40,000		003Z0794
	100	38,000		003Z0775
	100 HF	59,000		003Z0795
	125	90,000		003Z0705
	125 HF	110,000		003Z0715
	150	145,000		003Z0706
	150 HF	190,000		003Z0716
	200	200,000		003Z0707
	200 HF	270,000		003Z0717
	250	300,000		003Z0708
	250 HF	370,000		003Z0718

Ordering (continuous) Accessories & spare parts

Type	Comments		Code No.
	To pipe	To valve	
Union connection (CW617N) (1 pcs.) 	R 1/2	DN 15	003Z0232
	R 3/4	DN 20	003Z0233
	R 1	DN 25	003Z0234
	R 1 1/4	DN 32	003Z0235
	R 1 1/2	DN 40	003Z0279
	R 2	DN 50	003Z0278
Tailpiece welding (W. Nr. 1.0308) (1 pcs.) 	Weld.	DN 15	003Z0226
		DN 20	003Z0227
		DN 25	003Z0228
		DN 32	003Z0229
		DN 40	003Z0270
		DN 50	003Z0276
	Weld.	DN 15	003Z1271
		DN 20	003Z1272
		DN 25	003Z1273
		DN 32	003Z1274
		DN 40	003Z1275
		DN 50	003Z1276
Tailpieces for soldering (CW614N) (2 nuts, 2 gaskets, 2 soldering plugs)	15x1 mm	DN 15	065Z7017
Handle AB-QM (necessary accessory if installing valve without actuator)		DN 40-100	003Z0695
		DN 125-150	003Z0696
		DN 200-250	003Z0697
Stem heater for AB-QM DN 40-100 / AME 435 QM			065Z0315
Stem heater for AB-QM DN 125, 150 / AME 55 QM / AME 655			065Z7022
Elbow test plug extension (1 pcs.)			003Z3944
Straight test plug extension (1 pcs.)			003Z3945
Straight plug extension set (1 pcs.)			003Z3946

 Click on icon to get more information

Technical data

		DN	AB-QM 4.0 (threaded version)					AB-QM (threaded version)						
Nominal diameter		DN	15 LF	15	15 HF	20	20 HF	25	25 HF	32	32 HF	40	50	
Flow range	Q _{nom} (100 %)¹)	l/h	200	600	1.200	1.200	2.200	1.700	2.700	3.200	4.000	7.500	12.500	
	Q _{high} ³)		200	600	1.200	1.200	2.200	1.870	2.970	3.520	4.400	7.500	12.500	
Setting range ¹), ²)		%	10-100					20-110				40-100		
Diff. pressure ³), ⁴)	Δp _{min}	kPa	16	16	32	16	32	20 (25)	35 (40)	25 (30)	35 (40)	30		
	Δp _{max}		600											
Pressure stage		PN	25					16						
Control range			1:1000											
Control valve's characteristic			Linear (could be converted by actuator to equal percentage)											
Leakage rate with recommended actuators			IEC 60534-4:2007 class IV					IEC 60534-4:2007 class III						
For shut off function			Acc. to ISO 5208 class A - no visible leakage											
Flow medium			Water and water mixture for closed heating and cooling systems according to plant type I for DIN WN 14868. When used in Plant type II for DIN EN 14868 appropriate protective measures are taken. The requirements of VDI 2035, part 1+2 are observed											
Medium temperature		°C	-10 ... +95					(-10*) + 2 ... 120						
Storage and transport temp.			-40 ... +70											
Stroke		mm	4					4.5				10		
Connection	ext. thread (ISO 228/1)		G ¾ A			G 1 A		G 1¼ A		G 1½ A		G 2 A	G 2 ½ A	
	int. thread (ISO 7/1)		Rp ½	Rp ½	Rp ½	Rp ¾	Rp ¾	-						
	actuator		M30 x 1.5										Danfoss standard	
Materials and medium														
Materials in the medium	Valve bodies		DZR Brass										Grey iron EN-GJL-250 (GG25)	
	Membranes and O-rings		EPDM											
	Shutter guide		PPSU					N/A						
	Shutter		DZR Brass					-						
	Springs		W.Nr.1.4310					W.Nr.1.4310, W.Nr. 1.4568						
	Spring support		PPSU					-						
	Cone (Pc)		-					W.Nr. 1.4305				CW 614N, W.Nr.1.4305		
	Cone (Cv)		PPSU					CW 614N						
	Seat (Pc)		-					EPDM				W.Nr. 1.4305		
	Seat (Cv)		DZR Brass										W.Nr. 1.4305	
Materials out of medium	Screw		-					Stainless steel A2						
	Plastic parts		PA6					PA				POM		
	Insert parts and outer screws		-					CW 614N, W.Nr. 1.4310, W.Nr. 1.4401						

¹⁾ Factory setting of the valve is done at nominal setting range.

²⁾ Regardless of the setting, the valve can modulate below 1 % of set flow.

³⁾ When set above 100 %, minimum starting pressure needed is higher, see figures in the ().

⁴⁾ At min differential pressure valve reaches at least 90% of nominal flow. Declaration of performance is available upon request.

^{*} If the medium temperature when using AB-QM DN 15-32 is below 2 °C, than ice forming on the spindle must be prevented, there fore valve and actuator should be insulated. For AB-QM DN40-100 stem heaters must be used: Code 065B2171, 065Z0315 or 065Z7022.

According suitability and usage especially in not oxygen tight systems please mind the instructions given by the coolant producer.

Pc - pressure controller part

Cv - Control valve part

Technical data (continuous)

AB-QM (flanged version)

Nominal diameter		DN	50	65	65 HF	80	80 HF	100	100 HF
Flow range	Q _{nom} (100 %) ¹⁾	l/h	12,500	20,000	25,000	28,000	40,000	38,000	59,000
	Q _{high}		12,500	20,000	25,000	28,000	40,000	38,000	59,000
Setting range ^{1), 2)}		%	40-100						
Diff. pressure ^{3), 5)}	Δp _{min}	kPa	30		60	30	60	30	60
	Δp _{max}		600						
Pressure stage		PN	16						
Control range			Acc. to standard IEC 534 control range is high as Cv characteristic is linear. (1:1000)						
Control valve's characteristic			Linear (could be converted by actuator to equal percentage)						
Leakage rate with recommended actuators			max. 0.05 % of Q _{nom}						
For shut off function			Acc. to ISO 5208 class A - no visible leakage						
Flow medium			Water and water mixture for closed heating and cooling systems according to plant type I for DIN EN 14868. When used in plant Type II for DIN EN 14868 appropriate protective measures are taken. The requirements of VDI 2035, part 1 + 2 are observed.						
Medium temperature		°C	-10 ... +120						
Storage and transport temp.			-40 ... 70						
Stroke		mm	10	15					
Connection	flange	PN 16							
	actuator	Danfoss standard							
Materials in the water									
Valve bodies			Grey iron EN-GJL-250 (GG25)						
Membranes/ Bellow			EPDM						
O-rings			EPDM						
Springs			W.Nr. 1.4568, W.Nr. 1.4310						
Cone (Pc)			CuZn40Pb3 - CW 614N, W.Nr. 1.4305						
Seat (Pc)			W.Nr. 1.4305						
Cone (Cv)			CuZn40Pb3 - CW 614N						
Seat (Cv)			W.Nr. 1.4305						
Screw			Stainless Steel (A2)						
Flat gasket			NBR						

Nominal diameter		DN	125	125 HF	150	150 HF	200	200 HF	250	250 HF
Flow range	Q_{nom} (100 %) ¹⁾	l/h	90,000	110,000	145,000	190,000	200,000	270,000	300,000	370,000
	Q_{high} ³⁾		100,000	120,000	160,000	209,000	220,000	300,000	330,000	407,000
Setting range ²⁾		%	40-110							
Diff. pressure <small>3), 4), 5)</small>	Δp_{min}	kPa	40 (60)	60 (80)	40 (60)	60 (80)	45 (65)	60 (80)	45 (65)	60 (80)
	Δp_{max}		600	600	600	600	600	600	600	600
Pressure stage		PN	16							
Control range		1:1000								
Control valve's characteristic		Linear (could be converted by actuator to equal percentage)								
Leakage rate with recommended actuators		max.0.01 % of Q_{nom}								
Flow medium		Water and water mixture for closed heating and cooling systems according to plant type I for DIN EN 14868. When used in plant Type II for DIN EN 14868 appropriate protective measures are taken. The requirements of VDI 2035, part 1 + 2 are observed.								
Medium temperature		°C	-10 ... +120							
Storage and transport temp.			-40 ... 70							
Stroke		mm	30							
Connection	flange	PN 16								
	actuator	Danfoss standard								
Materials in the water										
Valve bodies		Grey iron EN-GJL-250 (GG 25)								
Membranes/ Bellow		W.Nr.1.4571			EPDM					
O-rings		EPDM								
Springs		W.Nr.1.4401			W.Nr.1.4310					
Cone (Pc)		W.Nr.1.4404NC			W.Nr.1.4021					
Seat (Pc)		W.Nr.1.4027								
Cone (Cv)		W.Nr.1.4404NC			W.Nr.1.4021					
Seat (Cv)		W.Nr.1.4027								
Screw		W.Nr.1.1181								
Flat gasket		Graphite gasket			Non asbestos					

¹⁾ Factory setting of the valve is done at nominal setting range.

²⁾ Regardless of the setting, the valve can modulate below 1 % of set flow.

³⁾ When set above 100 %, minimum starting pressure needed is higher, see figures in the ().

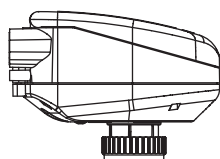
⁴⁾ In case AB-QM is used above 400 kPa differential pressure contact Danfoss design center to assure proper design.

⁵⁾ At min differential pressure valve reaches at least 90% of nominal flow. Declaration of performance is available upon request.

Pc - pressure controller part

Cv - Control valve part

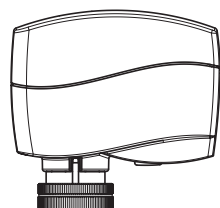
Actuators overview AB-QM DN 15-32



NovoCon® S

NovoCon® S is a high accuracy multi-functional field bus actuator, specifically designed for use in combination with the Pressure Independent Balancing Control Valve type AB-QM in sizes from DN 15 LF-32 HF. The actuator with AB-QM is used to control water supply to fan coil units, chilled beams, induction units, small re-heaters, re-coolers, AHU's and other terminal units for zone control, in which heating/ chilled water is the controlled medium.

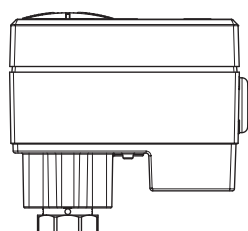
Type	Speed	Power supply	Control signal	Communication protocol	Enclosure	Code No.
NovoCon® S	3/6/12/24 s/mm	24 V ac/dc	0-10 V, 2-10V, 0-20mA, 4-20mA	BACnet MS/TP, Modbus RTU	IP 54 (IP40 if mounted upside down)	003Z8504



AME 110/120 NL

The AME 110 and 120 are high precision modulating gear actuators that can be mounted on the AB-QM for precise control. They have a calibration function so the travel of the actuator always matches the stroke of the AB-QM perfectly. The actuator is suitable for both linear and logarithmic characteristics. The AME 110/120 fits to AB-QM DN 15 LF to DN 32 HF.

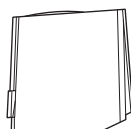
Type	Speed	Feedback signal	Power supply	Control signal	Enclosure	Code No.
AME 110 NL	24 s/mm	No	24 V ac	0-10 V, 2-10V, 0-20mA, 4-20mA	IP 42	082H8057
AME 110 NLX	24 s/mm	Yes				082H8060
AME 120 NL	12 s/mm	No				082H5059



AME 13 SU/SD

The AME 13 is a precision gear actuator that has a built-in spring that will close the valve (Spring Down, SD) or open the valve (Spring Up, SU) if the power on the actuator is lost. The characteristic can be set to Logarithmic or Linear with a dip switch. The AME 13 SU/SD fits to AB-QM DN 15 LF to DN 32 HF.

Type	Speed	Spring	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 13 SU-1	14 s/mm	Spring to open	24 V ac	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V	IP 42	082H5006
AME 13 SD-1	14 s/mm	Spring to close					082H5007



ABNM-A5

The ABNM is a thermal modulating actuator. It can be used to modulate the AB-QM if speed or precision is not the first concern. ABNM has either a Logarithmic (LOG) or a Linear (LIN) characteristic which should be chosen to fit the application. It is available in Normally Open (NO) and Normally Closed (NC) versions, as well as in 24V DC and AC . The ABNM-A5 fits to AB-QM DN 15 LF to DN 32 HF.

Type	NO/NC	LOG/LIN	Supply voltage	Stroke	Full stroke time	Enclosure	Code No.
ABNM-A5	NC	LOG	24 V ac	5 mm	3-5 min	IP 54	082F1160
ABNM-A5	NC	LIN		5 mm			082F1161
ABNM-A5	NC	LOG		6.5 mm			082F1162
ABNM-A5	NO	LOG		6.5 mm			082F1163
ABNM-A5	NC	LIN		6.5 mm			082F1164
ABNM-A5	NO	LIN	24 V dc	6.5 mm			082F1165
ABNM-A5	NC	LOG		6.5 mm			082F1166
ABNM-A5	NO	LOG		6.5 mm			082F1167

Note: ABN & ABNM A5 with 5mm stroke are only able to open AB-QM DN 25-32 90%.

TWA-Z

TWA-Z is a thermal actuator that is used for On/Off applications, where control precision and speed are not prioritized. It is available in Normally Open (NO) and Normally Closed (NC) versions and in 24 and 230 Volt. TWA-Z has a position indicator to show if it is open or closed. The TWA-Z fits to AB-QM DN 15 LF to DN 32 HF.

Type	NO/NC	Voltage	Stroke	Full stroke time	Enclosure	Code No.
TWA-Z	NO	24 V ac	min 2.8 mm	3 min (if warm, otherwise 6 min)	IP 41	082F1260
TWA-Z	NC	24 V ac				082F1262
TWA-Z	NO	230 V ac				082F1264
TWA-Z	NC	230 V ac				082F1266

Note: TWA-Z can not open the AB-QM fully, if the setting on DN15, 20 is above 65% and DN25, 32 above 60%. Please contact your Danfoss representative if higher settings are needed.

ABN A5

The ABN A5 on/off thermal actuator has been specifically designed for use with AB-QM valves DN15LF to DN 32 HF in heating and cooling applications.

Type	Supply voltage	Normally Open/Closed	Cable	End Switch	Code No.
ABN A5, with VA 41 adapter, without cable	24 V ac/dc	NC	Plug-in, not included	No	082F1150
		NO			082F1151
	230 V ac	NC			082F1152
		NO			082F1153

Actuators overview AB-QM DN 40-100

AME 435 QM

The AME 435 QM is a high precision modulating gear actuator that can be mounted on the AB-QM for precise control. It has a calibration function, so the travel of the actuator always matches the stroke of the AB-QM perfectly. The actuator is suitable for both linear and logarithmic characteristics. The AME 435 QM fits to AB-QM DN 40 to DN 100 HF.

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 435 QM	7.5/15 s/mm	24 V ac/dc	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V	IP 54	082H0171

AME 25 SU/SD

The AME 25 SU/SD is a precision gear actuator that has a built-in spring that will close the valve (Spring Down, SD) or open the valve (Spring Up, SU) if the power on the actuator is lost. The characteristic can be set to Logarithmic or Linear with a dip switch. The AME 25 SU/SD fits to AB-QM DN 40 to DN 100 HF.

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 25 SD	15 s/mm	24 V ac	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V	IIP 54	082H3038
AME 25 SU						082H3041

Please consider adapter is needed **003Z0694**

Actuators overview AB-QM DN 125-150

AME 55 QM

AME 55 QM and AME 655-1 actuators are used with pressure independent balancing and control valve type AB-QM DN 125 and DN 150.

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 55 QM	8 s/mm	24 V ac	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V	IP 54	082H3078

AME 655-1

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 655-1	2/6 s/mm	24 V ac/dc	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V, 0-20mA, 4-20mA	IP 54	082H5010

AME 658 SU/SD-1

AME 658 SU/SD-1 actuator is used together with pressure independent balancing and control valves type AB-QM DN 125 and DN 150. The AME 658 SU/SU-1 is a precision gear actuator that has a built-in spring that will close the valve (Spring Down, SD) or open the valve (Spring Up, SU) if the power on the actuator is lost. The characteristic can be set to Logarithmic or Linear with a dip switch.

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 658 SU-1	4/6 s/mm	24 V ac/dc	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V, 0-20mA, 4-20mA	IP 54	082H5012
AME 658 SD-1						082H5011

Actuators overview AB-QM DN 200-250

AME 85 QM

AME 85 QM and AME 685-1 are used together with large pressure independent balancing and control valves type AB-QM DN 200 and DN 250.

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 85 QM	8 s/mm	24 V ac	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V	IP 54	082G1453

AME 685-1

Type	Speed	Power supply	Control signal	Feedback signal	Enclosure	Code No.
AME 685-1	3/6 s/mm	24 V ac/dc	0-10 V, 2-10V, 0-20mA, 4-20mA	0-10 V, 2-10V, 0-20mA, 4-20mA	IP 54	082H5013

Click on icon to get more information

Presetting

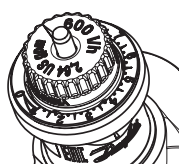
DN 15-32

The calculated flow can be adjusted easily without using special tools. The change of presetting (factory setting is 100% (10) follow steps below:

1. Remove the blue protective cap or the mounted actuator
2. Raise the pointer (DN 25-32)
3. Turn the pointer (clockwise to decrease) to the new setting
4. Press pointer back into lock position (DN 25-32) the presetting scale indicates values from 100% flow to 0% (DN 25-32) and 10-0 (DN 15-20). Clockwise turning would decrease the flow value while counter clockwise would increase it.

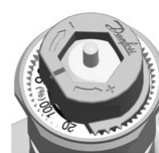
DN 15 - 32

DN 15, 20



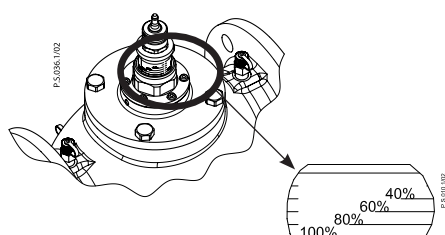
0 - 10

DN 25, 32

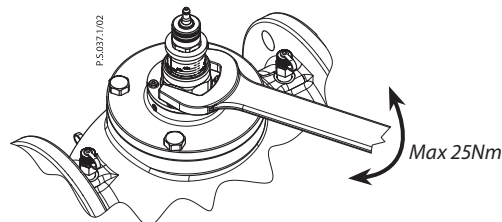


0 - 100 %

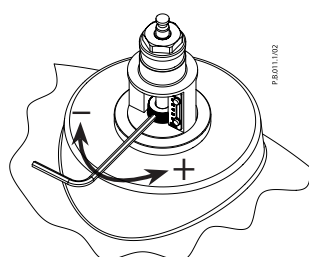
DN 40 - 100



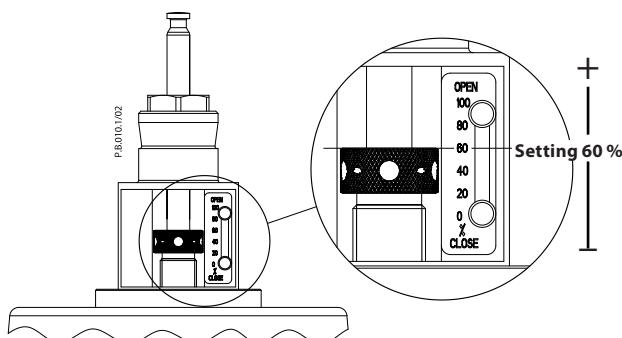
Note: 1 turn = 10 %



DN 125-250



Note:
1 turn = 5 %



Service

DN 15-32

For the service shut off function, it is recommended to install the valve in the supply water pipe.

DN 40-100

For the service shut-off function, the valve can be installed in either supply or return pipe.

Valves are equipped with manual shut-off for isolating function up to 16 bar.

DN 125-250

For the service shut-off function, the valve can be installed in either supply or return pipe.

For shut-off set the valve to 0%.

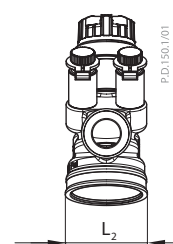
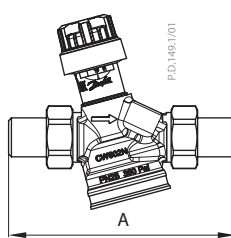
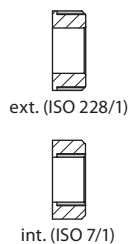
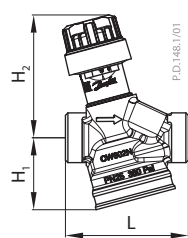
Tender text

A pressure independent balancing and control valve with a linear control characteristic that is independent of the available pressure and setting. Make: Danfoss AB-QM or equivalent.

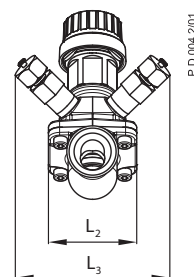
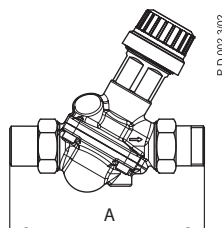
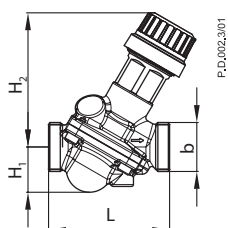
The pressure independent valve should have the following features:

- Automatic flow limitation function
- Membrane driven design for reduced clogging risk
- Modulating below 1% of set flow, regardless of the setting
- Maximum flow clearly marked on the valve
- Authority of 1 at all settings
- Ability to close against 16 Bar of differential pressure.
- Linear control characteristic
- Linear setting
- Control ratio 1:1000
- Test plugs for pump optimization and flow verification for DN 15-250. Available in the range from DN 10 – 250 from one supplier.
- Option to change the characteristic from linear to equal percentage at all sizes by adjusting actuator settings.
- Leakage rate of no visible leakage (IEC 60534-4:2007 class IV) for DN 15 - DN 20 in combination with recommended actuator
- Leakage of 0.05 % of the Q_{nom} for DN 25 - DN 100 (IEC 60534-4:2007 class III) in combination with recommended actuator
- Leakage of 0.01 % of the Q_{nom} for DN 125 - DN 250 (IEC 60534-4:2007 class IV) in combination with recommended actuator
- Flow measurements (AB-QM DN 15, 20) according to BS7350:1990

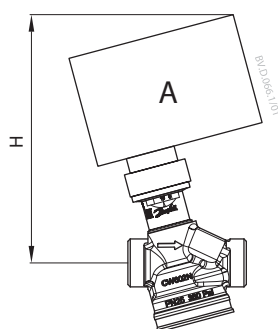
Dimensions



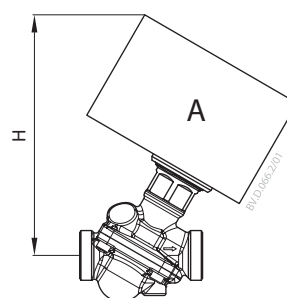
DN	Length				Heigth		Threaded	Welded	L ₂ (mm)
	external		internal		H ₁	H ₂	A		
	L (mm)	b	L (mm)	b	(mm)				
15	65	G ¾A	75	Rp ½	46.6	36.7	120	139	42.6
20	82	G 1A	85	Rp ¾	66.2	43.9	143	166	49.4



DN	Lenght		Height		Threaded	Welded	L ₂	L ₃
	L (mm)	b	H ₁	H ₂	A			
			(mm)				(mm)	
25	104	G 1 ¼	42	82	174	188	71	79
32	130	G 1 ½	50	93	207	214	90	79



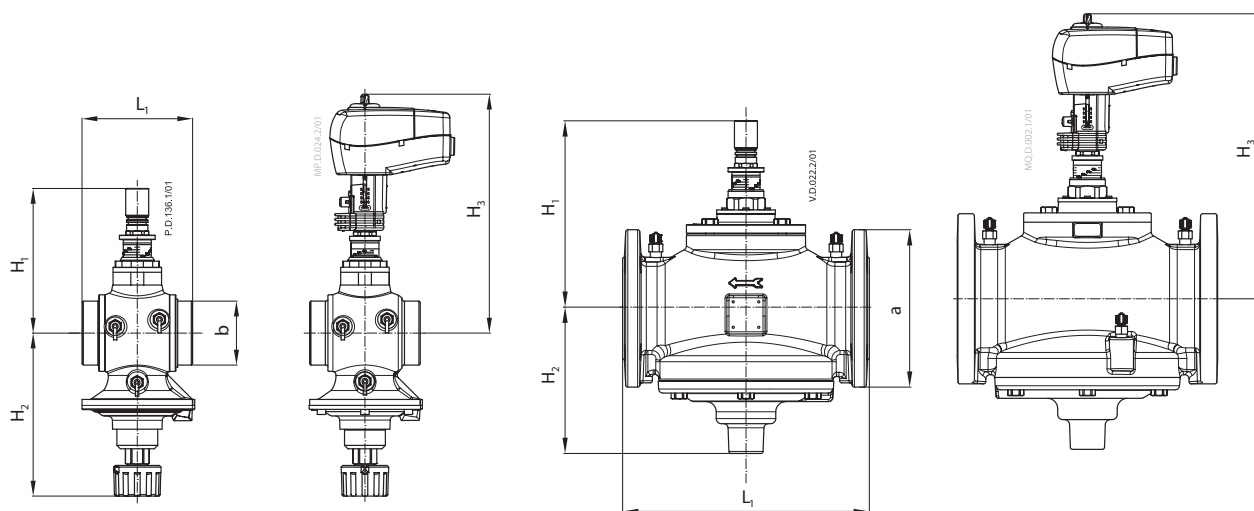
DN 15, 20



DN 25, 32

DN	TWA-Z	ABNM	AME/AMV 110NL, 120 NL, AMI 140	NovoCon™	AME 13 SU	Valve weight (kg)	
	H (mm)					external	internal
15	101.3	97.8	131.3	130.1	210.7	0.56	0.59
20	102.5	99	132.5	131.3	212.1	0.75	0.73
25	117	124	155	153	233.9	1.45	
32	128	136	166	164	245	2.21	

Dimensions (continuous)



AB-QM DN 40, 50

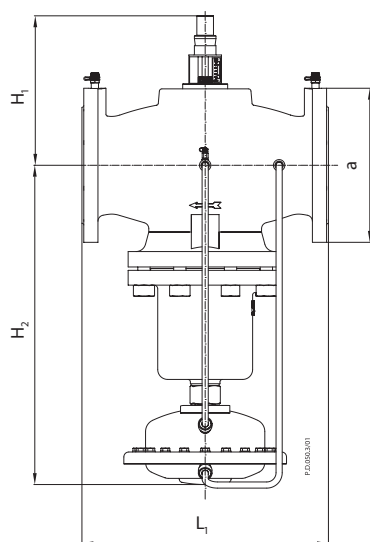
AB-QM + AME 435 QM

AB-QM DN 50-100

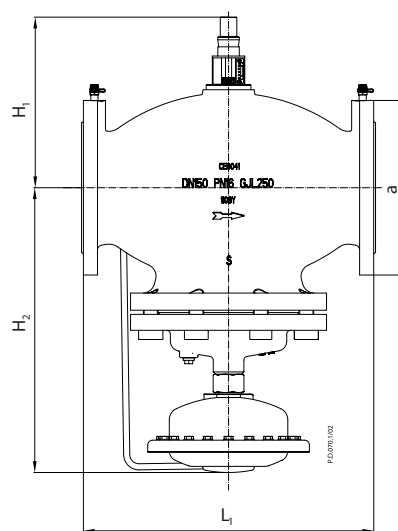
AB-QM + AME 435 QM

DN	L ₁	H ₁	H ₂	H ₃	b (ISO 228/1)	Weight (kg)
	mm					
40	110	170	174	280	G 2	6.9
50	130	170	174	280	G 2 ½	7.8

DN	L ₁	H ₁	H ₂	H ₃	a (EN 1092-2)	Weight (kg)
	mm					
50	230	170	174	280	165	14.2
65	290	220	172	330	185	38.0
80	310	225	177	335	200	45.0
100	350	240	187	350	220	57.0



AB-QM DN 125



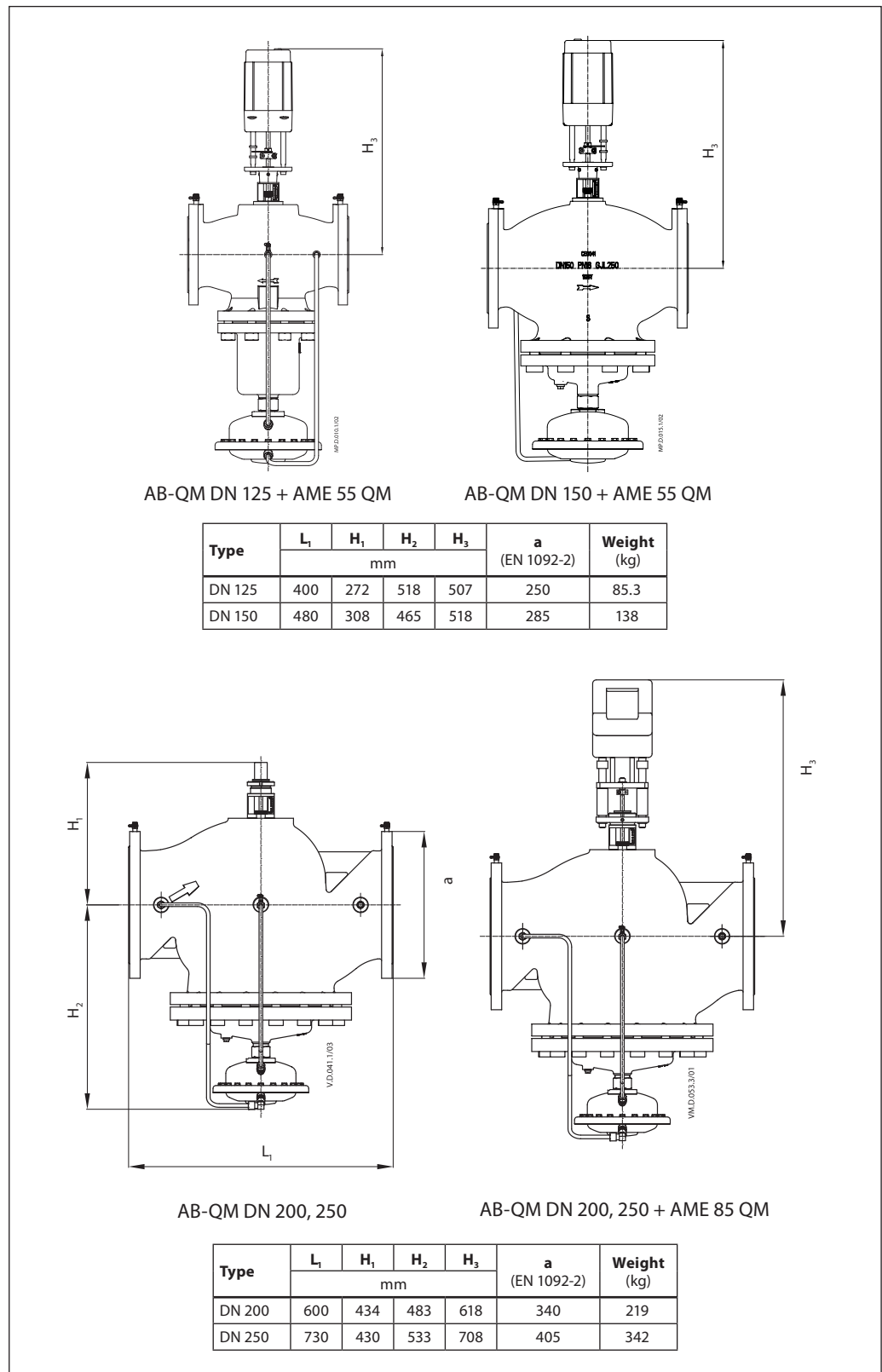
AB-QM DN 150

DN	L ₁	H ₁	H ₂	a (EN 1092-2)	Weight (kg)
	mm				
125	400	272	518	250	85.3
150	480	308	465	285	138

Data sheet

AB-QM DN 15-250

Dimensions (continuous)



Danfoss A/S

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