



Pressure flow controllers

AFPB 2 / AFPB-F 2 / VFQ 2 /
VFQ 22(1)

Differential pressure controllers with flow limitation

Description

The controller is a self-acting differential pressure controller with flow limitation primarily for use in district heating systems. The controller closes on rising differential pressure or when set max. flow is exceeded.

The controller has a control valve with adjustable flow restrictor, an actuator with one control diaphragm and spring for differential pressure setting.

Further on two valve versions are available:

- VFQ 2 / 22 with metallic sealing cone
- VFQ 221 with soft sealing cone

Together with Danfoss intelligent electrical actuator AMEi 6 intelligent optimization functions are available:

- iNET-intelligent network balancing

Main data:

- DN15-250
- k_{VS} 4.0-800 m³/h
- Flow limitation range 0.1-500 m³/h
- PN 16, 25, 40
- Setting range: 0.1-1 bar / 0.4 (0.5)-1.5 bar
- Temperature:
 - Circulation water / glycolic water up to 30 %: 2 ... 150°C (200 °C)
- Connections: Flange

Features & benefits

- Automated System Stability
 - Provides self-acting differential pressure control with an adjustable flow limiter, which automatically closes on rising pressure or when the set maximum flow is exceeded to ensure stable and efficient system operation.
- Intelligent Optimization & Energy Savings
 - Unlocks advanced optimization functions for remote balancing (iNET) when paired with the Danfoss AMEi 6 intelligent electrical actuator, leading to significant energy savings and enhanced performance.
- Application Flexibility
 - Offers two distinct valve versions—VFQ 2 / 22 with a metallic sealing cone and VFQ 221 with a soft sealing cone—to suit various application needs within district heating systems.

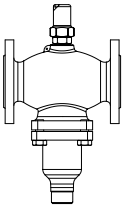
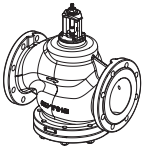


virtus.danfoss.com

Ordering

Product code numbers

VFQ 2 / VFQ 22 Valve (soft sealing cone)

Picture	DN (mm)	k_{vs} (m ³ /h)	Connections	T _{max.} (°C)	Code No.		
					PN 16	PN 25	PN 40
	15 ²⁾	4.0	Flanges acc. to EN 1092-1	150 (PN16)	065B2654	065B2667	065B2677
	20 ²⁾	6.3			065B2655	065B2668	065B2678
	25 ²⁾	8.0			065B2656	065B2669	065B2679
	32 ²⁾	16			065B2657	065B2670	065B2680
	40 ²⁾	20			065B2658	065B2671	065B2681
	50 ²⁾	32		065B2659	065B2672	065B2682	
	65	60		150	065B5570	065B5577	065B5584
	80	80			065B5571	065B5578	065B5585
	100	160			065B5572	065B5579	065B5586
	125	250			065B5573	065B5580	065B5587
	150	380	065B5574		065B5581	065B5588	
	200	650	065B5575		065B5582	065B5589	
250	800	065B5576	065B5583		065B5590		

¹⁾ At temperatures above 150°C only with seal pots (see Accessories)

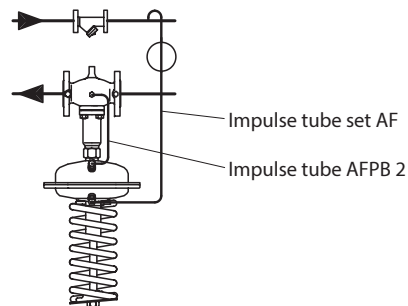
²⁾ VFQ 2 valves require ordering of 003G1780 adapter for a combination with AFPB(-F) 2 pressure actuators

Example 1:

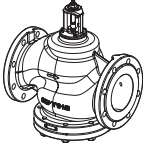
Differential pressure controller with flow limitation; return mounting; DN 65; k_{vs} 60; PN 16; metallic sealing; setting range 0.5 - 1.5 bar; T_{max} 150 °C; flange;

- 1x VFQ 22 DN 65 valve
Code no: **065B5570**
- 1x AFPB 2 actuator
Code no: **003G5608**
- 1x AFPB DN 65 impulse tubes
Code no: **003G1842**
- 1x Impulse tube set AF
Code no: **003G1391**

Products will be delivered separately.



VFQ 221 Valve (soft sealing cone)

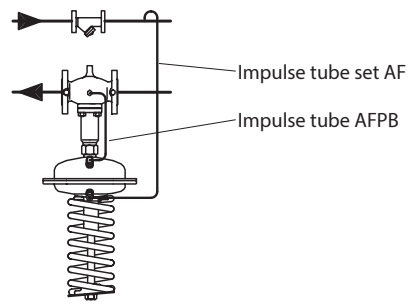
Picture	DN (mm)	k_{vs} (m ³ /h)	Connections	T _{max.} (°C)	Code No.		
					PN 16	PN 25	PN 40
	65	60	Flanges acc. to EN 1092-1	150	065B5600	065B5607	065B5614
	80	80			065B5601	065B5608	065B5615
	100	160			065B5602	065B5609	065B5616
	125	250			065B5603	065B5610	065B5617
	150	380			065B5604	065B5611	065B5618
	200	650			065B5605	065B5612	065B5619
	250	800			065B5606	065B5613	065B5620

Example 2:

Differential pressure controller with flow limitation; return mounting; DN 15; k_{vs} 4.0; PN 16; metallic sealing; setting range 0.1 - 1 bar; t_{max} 150 °C; flange;

- 1x VFQ 2 DN 15 valve
Code no: **065B2654**
- 1x AFPB 2 actuator
Code no: **003G5612**
- 1x AFPB DN 15 impulse tube
Code no: **003G1820**
- 1x Impulse tube set AF
Code no: **003G1391**
- 1x Adapter VFQ 2 - AFx 2
Code no: **003G1780**

Products will be delivered separately.



AFPB 2 / AFPB-F 2 Actuators

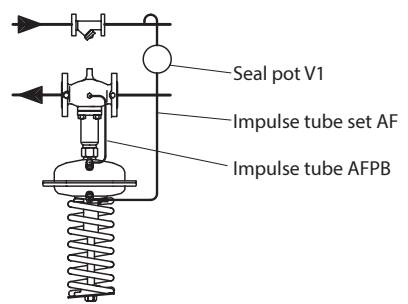
Picture	Δp setting range (bar)	for DN	Actuator size (cm ²)	Spring colour	Code No.	
					PN16	PN40
	0.5 - 1.5	DN15-125	160	yellow	003G5608	003G5618
	0.4 - 1.5	DN150-250	320	red	003G5609	003G5619
	0.1 - 1	DN15-125	160	blue	003G5612	003G5622
	0.1 - 1	DN150-250	320	orange	003G5610	003G5620
	0.2	DN15-125	160	-	003G5600	003G5602
	0.5			-	003G5601	003G5603
	0.2	DN150-250	320	-	003G5596	003G5598
	0.5			-	003G5597	003G5599

Example 3:

Differential pressure controller with flow limitation; return mounting; DN 15; k_{vs} 4.0; PN 25; metallic sealing; setting range 0.1 - 1 bar; t_{max} 200 °C; flange;

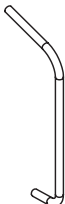
- 1x VFQ 2 DN 15 valve
Code no: **065B2667**
- 1x AFPB 2 actuator
Code no: **003G5622**
- 1x AFPB DN 15 impulse tube
Code no: **003G1820**
- 1x Impulse tube set AF
Code no: **003G1391**
- 1x Seal pot V1
Code no: **003G1392**
- 1x Adapter VFQ 2 - AFx 2
Code no: **003G1780**

Products will be delivered separately.

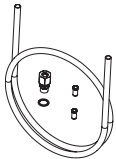

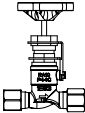

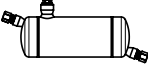
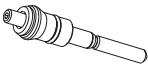
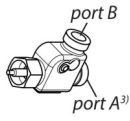
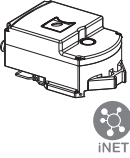


Accessories code numbers

Accessories - Impulse tubes

Picture	Type	For controller	Actuator size (cm ²)	Valve (DN)	Code No.
	Impulse tubes (stainless steel)	AFPB(-F) 2	160	15	003G1820
				20	
				25	003G1821
				32	
				40	003G1822
				50	003G1823
				65	003G1842
				80	003G1856
				100	003G1857
				125	003G1858
			320	150	003G1859
				200	003G1860
				250	003G1861

Accessories

Picture	Type designation	Description	Connections	Code No.
	Impulse tube set AF	– 1× Copper tube Ø10 × 1 × 1500 mm – 1× compression fitting for imp. tube connection to pipe (G 1/4) – 2× socket	–	003G1391
	Compression fitting ²⁾	For impulse tube Ø10 connections to controller	G 1/4	003G1468
	Shut off valve	For impulse tube Ø10	–	003G1401
	Static throttle valve			065B2909
	Seal pot V1 ¹⁾	Capacity 1 liter; with compression fittings for imp. tube Ø10	–	003G1392
	Adapter VFQ 2 - AFPB(-F) 2	For combination of new Virtus pressure actuators AFx 2, with old generation of valves VFx 2	–	003G1780
	Combination piece KF3	For combination with pressure actuators. Electrical actuator connected on side (port B) only for ON/OFF function	G 1 1/4 2 × G 1 1/4	003G1441
	Combination piece KF2	For combination with thermostat - side connection to port B		003G1440
	AMEi 6 iNET el. actuator 230 V	Intelligent Δp actuator with iNET function ⁴⁾	–	082G4302
	AMEi 6 iNET el. actuator 24 V			082G4303

¹⁾ Seal pot has to be used on impulse tubes always when $T_{max} \geq 150^{\circ}C$

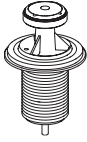
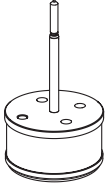
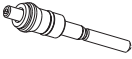

²⁾ Consist of a nipple, compression ring and nut

³⁾ Port A - for connection of any type of actuator

⁴⁾ Only available for AFPB 2 with external spring

Spare parts code numbers

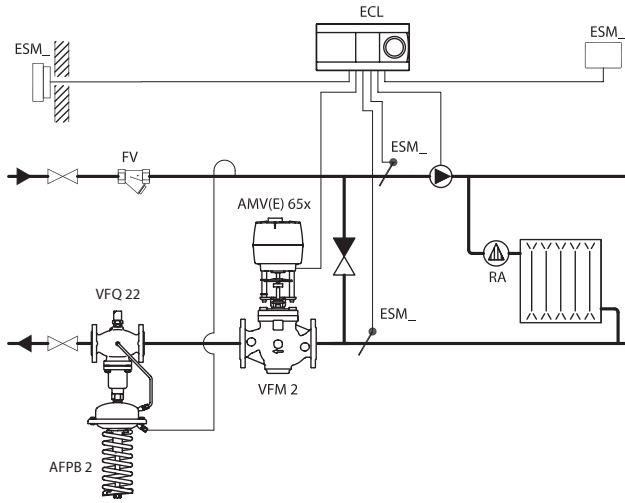
Service kits

Picture	Type designation	DN (mm)	k_{vs} (m ³ /h)	Code No.
	Valve insert for VFQ 2	15	4.0	065B2796
		20	6.3	065B2797
		25	8.0	065B2798
		32	16	
		40	20	065B2799
		50	32	
	Pressure control insert VFG/Q 22	65	60	003G1800
		80	80	003G1801
		100	160	003G1802
		125	250	003G1803
		150	380	On demand
		200	650	On demand
		250	800	On demand
	Pressure control insert VFG/Q 221	65	60	003G1807
		80	80	003G1808
		100	160	003G1809
		125	250	003G1810
		150	380	On demand
		200	650	On demand
		250	800	On demand
	Adapter (sealing cone) VFQ 2 - AFPB(-F) 2	15-250	-	003G1780
	Pressure stuffing box VFG/Q 22(1)	65-125	-	003G1730
		150-200		003G1731
		250		003G1732

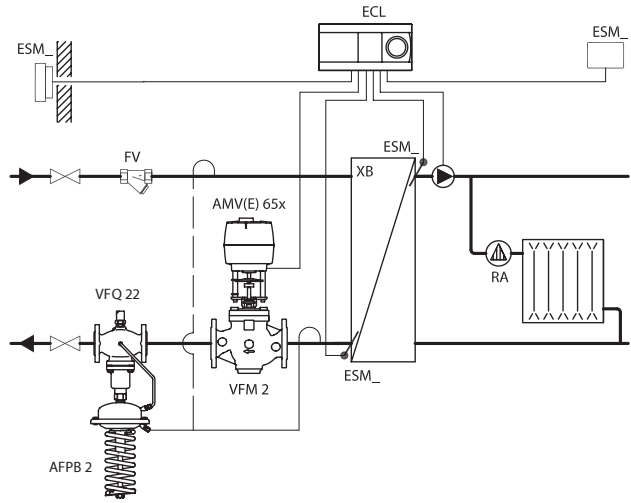
Overview

Application examples

Return mounting



Direct-connected heating system



Indirectly connected heating system

Product details

General data

VFQ 2 / VFQ 22(1) Valve

Nominal diameter					DN	15	20	25	32	40	50	65	80	100	125	150	200	250					
k _{VS} value of Δp controller					m ³ /h	4.0	6.3	8.0	16	20	32	60	80	160	250	380	650	800					
Range of max. flow setting 1)	Δp _{SP}	Δp _{SYSTEM}	Δp _b	from		0.05	0.15	0.25	0.4	0.6	0.9	3	4	7	9	13	15	22					
	0.2	0.1	0.1	to		1.4	2.1	2.5	5	6.5	10	19	25	51	79	120	206	253					
	0.5	0.3	0.2	to		2	3	4	7	11	16	28	40	63	100	160	270	360					
	1.0	0.5	0.5	to		3	4.5	6	10	16	24	42	60	95	150	240	340	500					
Cavitation factor z					0.6	0.6	0.6	0.55	0.55	0.5	0.65	0.55	0.4	0.4	0.4	0.35	0.3						
Leakage acc. to standard IEC 534 (% of k _{VS})		VFQ 2 / VFQ 22		≤ 0.03												≤ 0.05							
		VFQ 22(1)		≤ 0.01																			
Nominal pressure					PN	16, 25, 40																	
Min. differential pressure					bar	see remark 2)																	
Max. differential pressure PN 16						16						16						15	15	12	10	10	
Max. differential pressure PN 25/40						20						20											
Pressure relieve system						Bellows (Stainless steel 1.4571)						Chamber relieved											
Media					Circulation water / glycolic water up to 30 %																		
Media pH					Min. 7, Max. 10																		
Media temperature		VFQ 2		°C	2 ... 150 / 2 ... 200 3)						2 ... 150												
		VFQ 22(1)			2 ... 150																		
Connections					Flange																		
Materials																							
Valve body		PN 16		Grey cast iron EN-GJL-250 (GG-25)																			
		PN 25		Ductile iron EN-GJS-400 (GGG-40.3)																			
		PN 40		Cast steel GP240GH (GS-C 25)																			
Valve seat		Stainless steel, mat. No. 1.4021																					
Valve cone		Stainless steel, mat. No. 14404						Stainless steel, mat. No. 14021															
Sealing		VFQ 2		Metal																			
		VFQ 22																					
		VFQ 21		EPDM																			
		VFQ 22(1)																					

¹⁾ Max. flow rate depends on the differential pressure over the system (dp System). System is part of the application where differential pressure is controlled by AFPB(-F) and for this part the resistance is well known/defined. Flow rates in table are specified for 3 different situations.

$$\Delta p_{SP} = \Delta p_{SYSTEM} + \Delta p_b$$

Δp_{SP} - differential pressure set point

Δp_{SYSTEM} - system differential pressure

Δp_b - differential pressure over flow restrictor

²⁾ Depends on the flow rate and valve k_{VS}; For $Q_{set} = Q_{max} \rightarrow \Delta p_{min} \geq 0.5 \text{ bar}$; For $Q_{set} < Q_{max} \rightarrow \Delta p_{min} = \left(\frac{Q}{k_{VS}}\right)^2 + \Delta p_b$

³⁾ at temperatures above 150 °C only with seal pots (see Accessories)

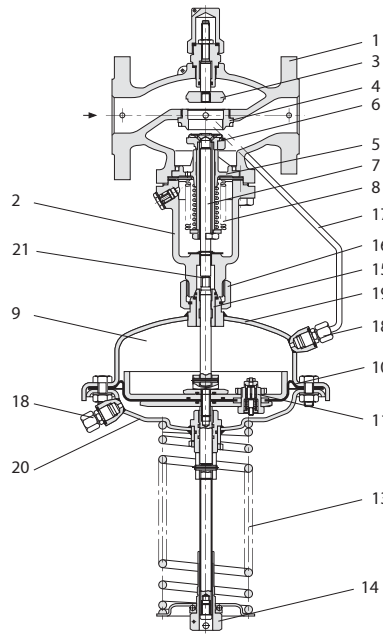
AFPB(-F) 2 Actuator

Type		AFPB 2				AFPB(-F) 2	
Actuator size	cm ²	160		320		160	320
Max. operating pressure	bar	16, 40					
Diff. pressure setting ranges and spring colour		0.1 - 1	0.5 - 1.5	0.1 - 1	0.4 - 1.5	0.2 / 0.5	
		blue	yellow	orange	red	-	-
For valve DN		15-125		150-250		15-125	150-250
Materials							
Actuator housing		Steel, mat. No. 1.0345, zinc plated					
Control diaphragm		EPDM (Rolling; fibre enforced)					

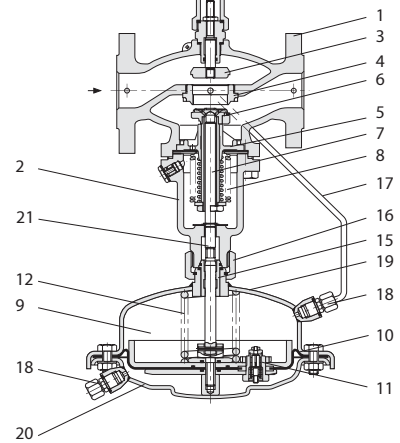
Design

DN 15-50

1. Valve body
2. Cover
3. Adjustable flow restrictor
4. Valve seat
5. Valve insert
6. Pressure relieved valve cone
7. Valve stem
8. Bellows for pressure relief of valve cone
9. Actuator
10. Control diaphragm for differential pressure and flow control
11. Excess pressure safety valve
12. Built in spring for differential pressure and flow control
13. Setting spring for diff. pressure control
14. Adjuster for diff. pressure setting, prepared for sealing
15. Stuffing cone
16. Union nut
17. Impulse tube
18. Compression fitting for impulse tube
19. Upper casing of diaphragm
20. Lower casing of diaphragm
21. Adapter VFQ 2 - AFPB(-F) 2



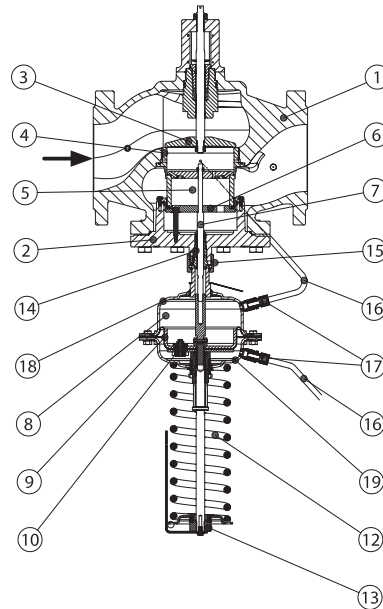
AFPB 2 / VFQ 2, DN15-50



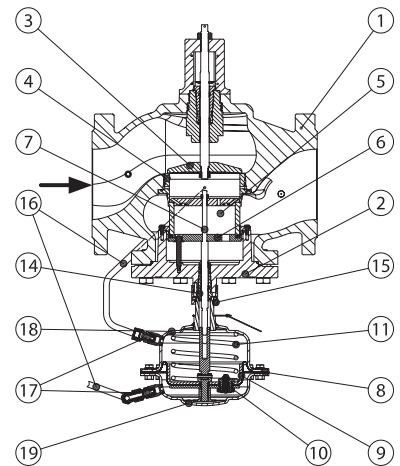
AFPB(-F) 2 / VFQ 2, DN15-50

DN 65-250

1. Valve body
2. Cover
3. Adjustable flow restrictor
4. Valve seat
5. Valve insert
6. Pressure relieved valve cone
7. Valve stem
8. Actuator
9. Control diaphragm for differential pressure and flow control
10. Excess pressure safety valve
11. Built in spring for differential pressure and flow control
12. Setting spring for diff. pressure control
13. Adjuster for diff. pressure setting, prepared for sealing
14. Stuffing cone
15. Union nut
16. Impulse tube
17. Compression fitting for impulse tube
18. Upper casing of diaphragm
19. Lower casing of diaphragm



AFPB 2 VFQ 22(1), DN 65-250



AFPB-F 2 VFQ 22(1), DN 65-250

Function

Pressure changes from flow and return pipes are being transferred through the impulse tubes to the actuator chambers and act on control diaphragm for diff. pressure and flow control. The diff. pressure is controlled by means of setting spring for diff. pressure control. Control valve closes on rising differential pressure and opens on falling differential pressure to maintain constant differential pressure. Flow volume is limited by means of the flow restrictor.

Controller is equipped with excess pressure safety valve, which protects control diaphragm for diff. pressure and flow control from too high differential pressure.

Settings

Differential pressure setting

Differential pressure setting is being done by the adjustment of the setting spring for diff. pressure control. This is done by rotating the differential pressure setting nut. Set differential pressure should be checked by observing the pressure indicators.

Flow setting

Flow setting is being done by the adjustment of the flow restrictor position. The adjustment can be performed on the basis of flow adjustment diagram (see relevant instructions) and/or by the means of heat meter.

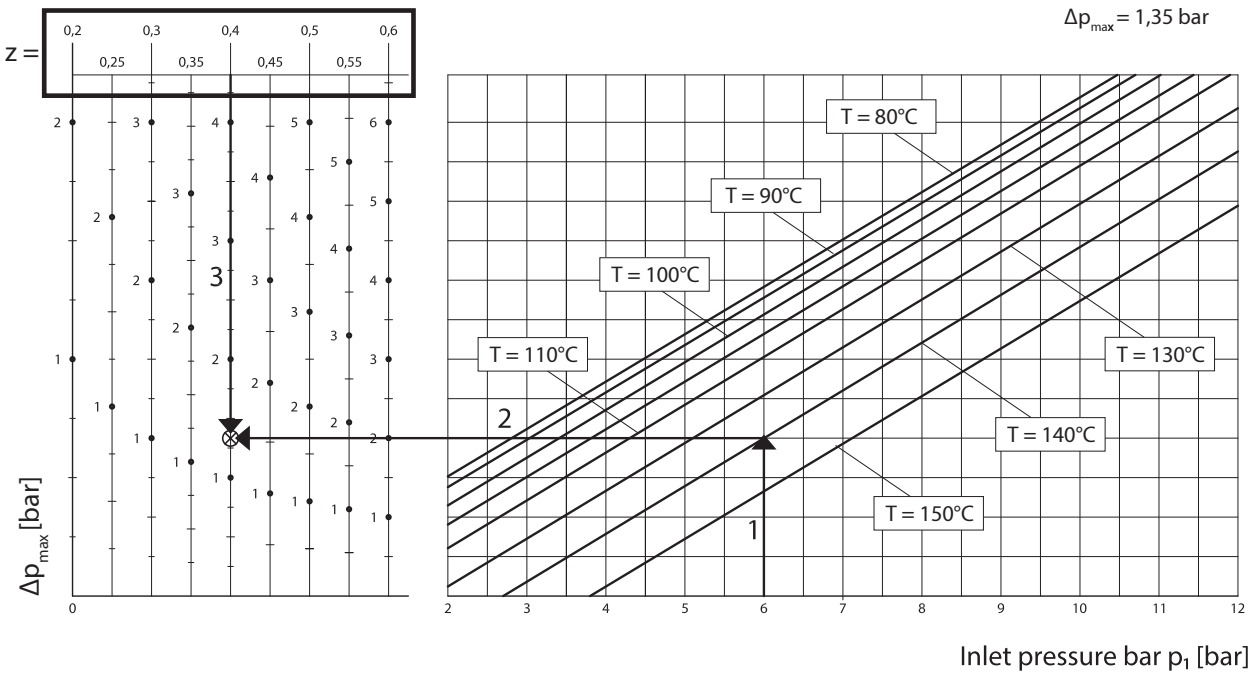
Pressure and temperature data

Operating area

Maximum allowed differential pressure over the controller (Δp_{max}) at different cavitation factors (z)

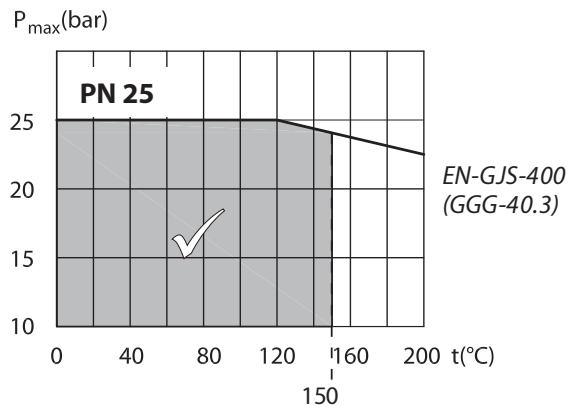
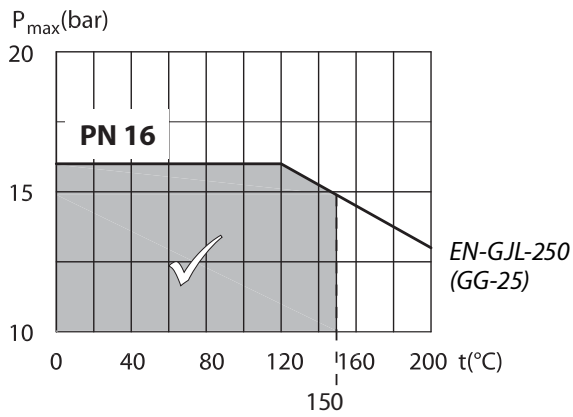
Δp_{max} at z = 0,2 ... 0,6 [bar]

Example ☉:
 $p_1 = 6$ bar
 $T = 140^\circ\text{C}$
 $z = 0,4$
 $\Delta p_{max} = 1,35$ bar

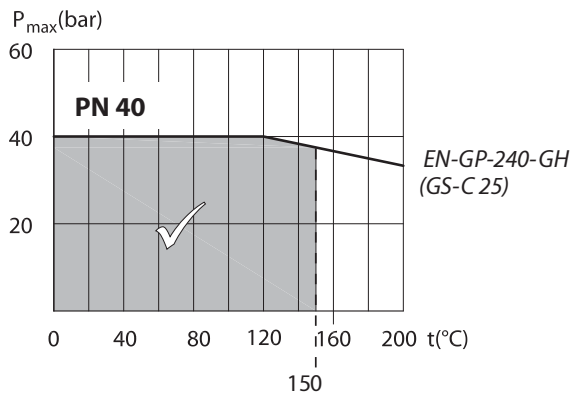


Pressure temperature diagram

Working area is below P-T line and it ends at T_{max} for each valve



Maximum allowed operating pressure as a function of media temperature (according to EN 1092-2)



Maximum allowed operating pressure as a function of media temperature (according to EN 1092-1)

Sizing

Directly connected heating system

Example 1

Motorised control valve (MCV) for mixing circuit in direct-connected heating system requires differential pressure of 0.3 bar (30 kPa) and flow less than 25.000 l/h.

Given data:

$$Q_{\max} = 25 \text{ m}^3/\text{h} \text{ (25.000 l/h)}$$

$$\Delta p_{\min} = 0.7 \text{ bar (70 kPa)}$$

$$\Delta p_{\text{circuit}}^{1)} = 0.1 \text{ bar (10 kPa)}$$

$$\Delta p_{\text{MCV}} = 0.3 \text{ bar (30 kPa) selected}$$

$$\Delta p_b^{2)} = 0.1 \text{ bar (10 kPa) assumption}$$

Remark:

¹⁾ $\Delta p_{\text{circuit}}$ corresponds to the required pump pressure in the heating circuit and is not to be considered when sizing the AFPB.

²⁾ Δp_b is differential pressure over flow restrictor.

The differential pressure set value is:

$$\Delta p_{\text{set value}} = \Delta p_b + \Delta p_{\text{MCV}} = 0.1 + 0.3$$

$$\Delta p_{\text{set value}} = 0.4 \text{ bar (40 kPa)}$$

The total pressure loss across the controller is:

$$\Delta p_{\text{AFPB}} = \Delta p_{\min} - \Delta p_{\text{MCV}} = 0.7 - 0.3$$

$$\Delta p_{\text{AFPB}} = 0.4 \text{ bar (40 kPa)}$$

Possible pipe pressure losses in tubes, shut-off fittings, heatmeters, etc. are not included. k_v value is calculated according to formula:

$$k_v = \frac{Q_{\max}}{\sqrt{\Delta p_{\text{AFPB}} - \Delta p_b}} = \frac{25}{\sqrt{0.4 - 0.1}}$$

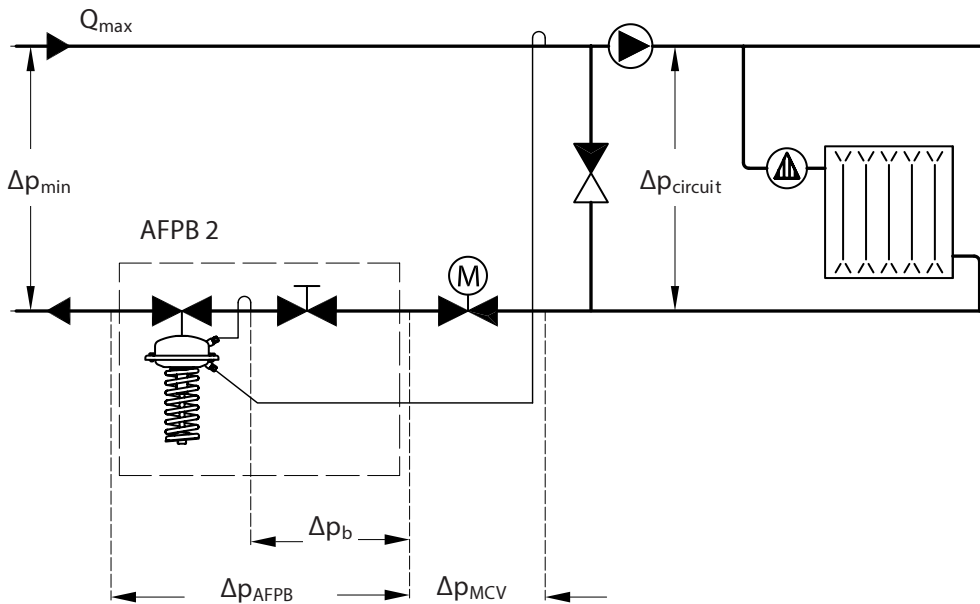
$$k_v = 45.6 \text{ m}^3/\text{h}$$

Solution:

The example selects AFPB 2/VFQ 22 DN 80; k_{vs} value 80 m^3/h ; with differential pressure setting range 0.1-1 bar; maximum flow 25 m^3/h .

If other differential pressure is assumed than $\Delta p_b = 0.1$ bar, in order to maintain the k_{vs} value, the flow has to be adjusted using the flow restrictor screw. The new set value (Q_{setting}) of the assumed differential pressure ($\Delta p_{b\text{NEW}} = 0.2$ bar) is calculated according to formula:

$$Q_{\text{setting}} = \frac{\sqrt{\Delta p_b}}{\sqrt{\Delta p_{b\text{NEW}}}} \times Q_{\max}$$



Indirectly connected heating system

Example 2

Motorised control valve (MCV) for indirectly connected heating system requires differential pressure of 0.5 (50 kPa) bar and flow less than 24.000 l/h.

Given data:

$$Q_{max} = 24 \text{ m}^3/\text{h} \text{ (24.000 l/h)}$$

$$\Delta p_{min} = 1 \text{ bar (100 kPa)}$$

$$\Delta p_{exchanger} = 0.1 \text{ bar (10 kPa)}$$

$$\Delta p_{MCV} = 0.5 \text{ bar (50 kPa) selected}$$

$$\Delta p_b^{1)} = 0.2 \text{ bar (20 kPa)}$$

Remark:

¹⁾ Δp_b is differential pressure over flow restrictor

The differential pressure set value is:

$$\Delta p_{set \text{ value}} = \Delta p_b + \Delta p_{exchanger} + \Delta p_{MCV} = 0.2 + 0.1 + 0.5$$

$$\Delta p_{set \text{ value}} = 0.8 \text{ bar (80 kPa)}$$

The total pressure loss across the controller is:

$$\Delta p_{AFPB} = \Delta p_{min} - \Delta p_{exchanger} - \Delta p_{MCV} = 1 - 0.1 - 0.5$$

$$\Delta p_{AFPB} = 0.4 \text{ bar (40 kPa)}$$

Possible pipe pressure losses in tubes, shut-off fittings, heatmeters, etc. are not included.

k_v value is calculated according to formula:

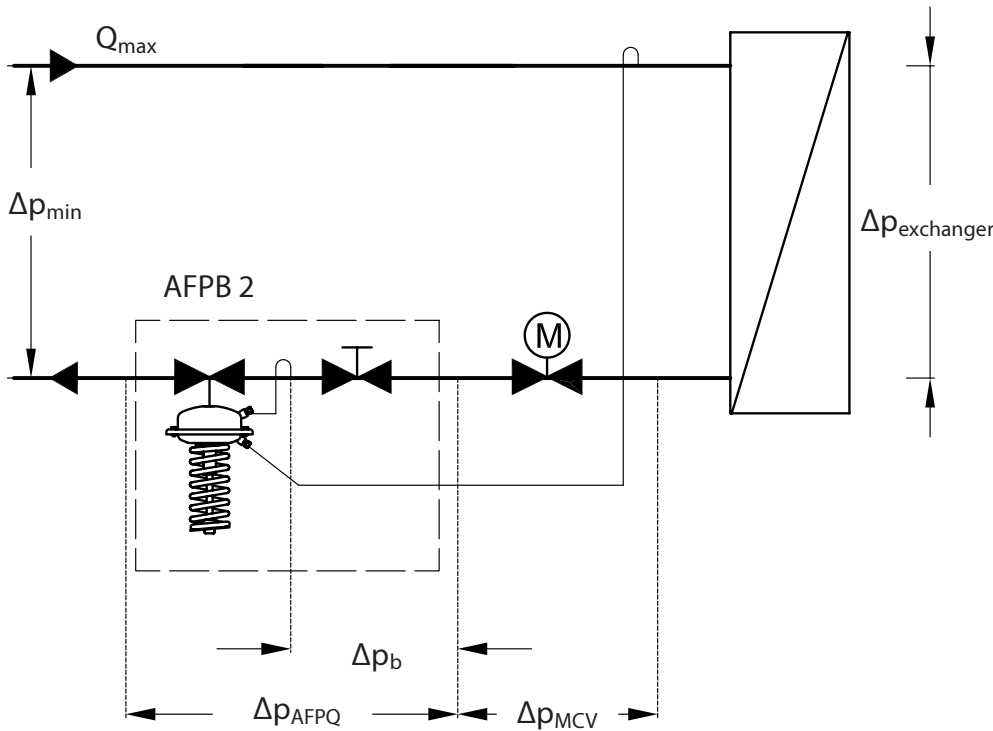
$$k_v = \frac{Q_{max}}{\sqrt{\Delta p_{AFPB} - \Delta p_b}} = \frac{24}{\sqrt{0.4 - 0.2}}$$

$$k_v = 53.7 \text{ m}^3/\text{h}$$

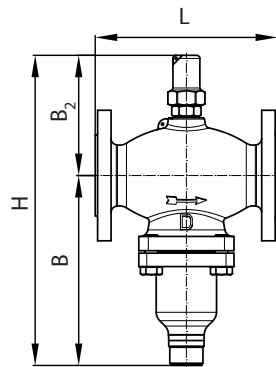
Solution:

The example selects AFPB 2/VFQ 22 DN 65; k_{vs} value 60 m^3/h ; with differential pressure setting range 0.1-1 bar; maximum flow 28 m^3/h . If other differential pressure is assumed than $\Delta p_b = 0.1$ bar, in order to maintain the k_{vs} value, the flow has to be adjusted using the flow restrictor screw. The new set value ($Q_{setting}$) of the assumed differential pressure ($\Delta p_{bNEW} = 0.2$ bar) is calculated according to formula:

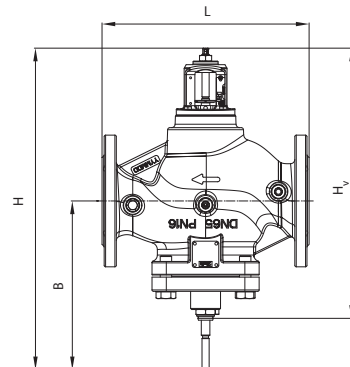
$$Q_{setting} = \frac{\sqrt{\Delta p_b}}{\sqrt{\Delta p_{bNEW}}} \times Q_{max}$$



Dimensions



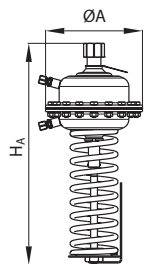
VFQ 2 DN15-50



VFQ 22(1) DN65-250

VFQ 2, VFQ 22, VFQ 221 Valves

DN	L	B	B ₂	H	H _v	Weight		
						PN16	PN25	PN40
15	130	213	124	337	-	8	8	8
20	150	213	124	337	-	9	9	9
25	160	239	135	374	-	10.5	10.5	10.5
32	180	239	135	374	-	12.5	12.5	12.5
40	200	241	152	393	-	15.5	15.5	15.5
50	230	241	152	393	-	18.5	18.5	18.5
65	290	237	-	473	396	28	29	31
80	310	237	-	473	396	33	34	36
100	350	272	-	547	472	52	53	57
125	400	268	-	582	514	71	72	79
150	480	326	-	670	610	123	126	135
200	600	361	-	773	713	230	236	286
250	730	419	-	843	783	382	392	441

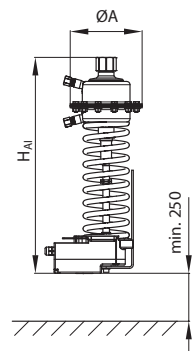


AFPB 2 Actuator

AFPB 2 Actuator

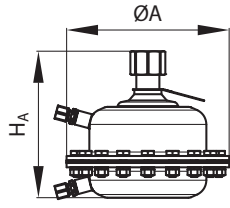
Size cm ²	ØA mm	H _A mm	H _{AI} mm	Weight (kg)			
				AFPB 2 PN 16	AFPB 2 PN 16 + AMEi 6	AFPB 2 PN 40	AFPB 2 PN 40 + AMEi 6
160	230	490	590	12.5	15	25	27.5
320	300	490	590	17	19.5	37	39.5

Total installation height of the controller (VFQ 22(1) valve + AFPB 2 pressure actuator) is sum of H_v and H_A (H_{AI})



AMEi 6 intelligent actuator with iNET functionality should be ordered separately

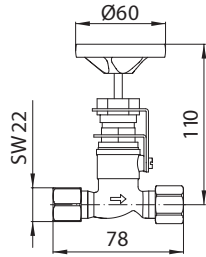
AFPB-F 2 Actuator



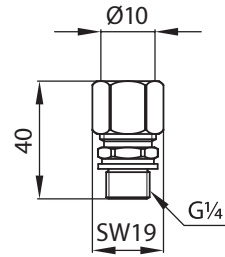
AFPB-F 2 Actuator

Size	$\varnothing A$	H_A	Weight	
			PN 16	PN 40
cm ²	mm		kg	
160	230	200	8	10
320	300	200	13	19

Total installation height of the controller (VFQ 22(1) valve + AFPB-F 2 pressure actuator) is sum of H_v and H_A



Shut off valve

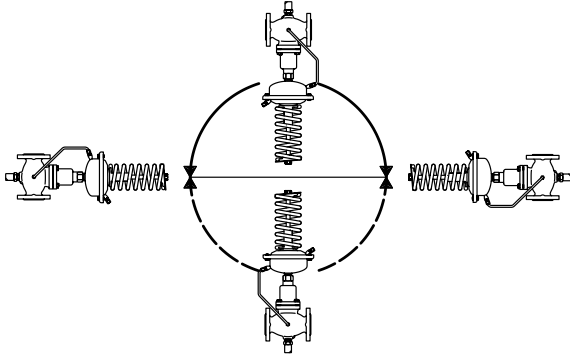


Compression fitting

Installation

DN 15-50

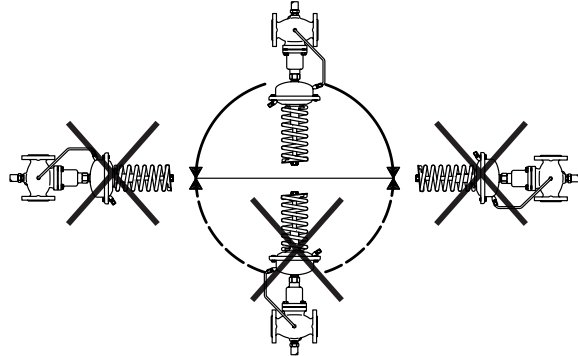
$T_{\max} \leq 120^{\circ}\text{C}$



The controllers can be installed in any position.

DN 15-50

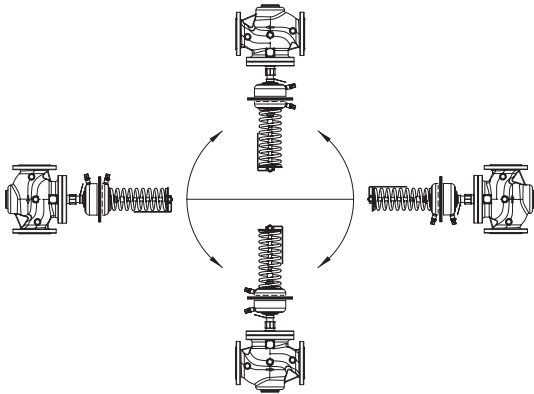
$T_{\max} > 120^{\circ}\text{C}$



The controllers can be installed in horizontal pipes only, with a pressure actuator oriented downwards.

DN 65-250

$T_{\max} \leq 150^{\circ}\text{C}$



The controllers can be installed in any position.

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 7100841.13.12.02339	EAC - Eurasian Customs Union	MD
EU Declaration	Danfoss EU 230612EN0854103.05	Danfoss	PED, Pressure
Export Control Declaration	Actuators pressure flow and temperature	Danfoss	
EU Declaration	Danfoss EU 230530EN0858104.06	Danfoss	PED, Pressure
UA Declaration	Danfoss UA 10.01.23 Heat Control Valves	Danfoss	
Export Control Declaration	Pressure flow controllers	Danfoss	
Pressure Safety Certificate	CE-0062-PED-H-DAF 002-24-DNK-rev-A	BV - Bureau Veritas	PED, Pressure

Contact details

Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.



The Danfoss Design center

Discover the Design Center, our advanced digital platform that streamlines product selection. With integrated tools and enhanced type pages, it's simpler than ever to access product information and documentation, and to select the right products. Check the availability of Danfoss products at partner locations and enjoy seamless transitions from selection to purchase with our basket-to-basket functionality. Whether you're buying from our distributors or directly from the Product Store, the Design Center simplifies your experience. Learn more at: designcenter.danfoss.com.



The Danfoss product store

The Danfoss Product Store is a one-stop shop available 24/7 for our customers, no matter where you are in the world or what area of industry you work in. Browse our catalog, check product details and documentation, view your prices and product availability, and quickly finalize your purchase. Start browsing at: store.danfoss.com.



Danfoss Partner Portal/Product Data tool

Designed to support you with easy access to product data extracts, essential resources, tools, and information. The Partner Portal provides a centralized hub for product documentation, training materials, marketing assets, and technical support, ensuring you have everything you need to succeed and grow your business with Danfoss. The Partner Portal is available 24/7 at: partner.danfoss.com and is ready to support your business.



Find technical documentation

Find technical documentation you need to get your project up running. Get direct access to our official collection of data sheets, certificates and declarations, manuals and guides, 3D models and drawings, case stories, brochures, and much more. Start searching now at: documentation.danfoss.com.



Danfoss Learning

Danfoss Learning is a free online learning platform. It features courses and materials specifically designed to help engineers, installers, service technicians, and wholesalers better understand the products, applications industry topics, and trends that will help you do your job better. Find your local Danfoss website here: learning.danfoss.com.



Get local information and support

Local Danfoss websites are the main sources for help and information about our company and products. Find product availability, get the latest regional news, or connect with a nearby expert - all in your own language. Find your local Danfoss website here: danfoss.com.

Danfoss A/S

Climate Solutions . danfoss.com . +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues description, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the products. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.
