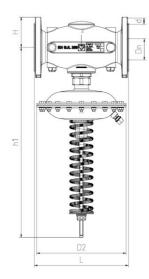


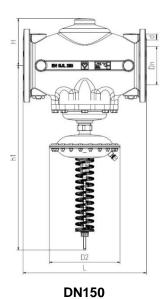
HERZ - DP Controller flanged version

data sheet for **F 4007**, Issue 0317

Dimensions in mm



DN125



DN65-DN100

dp range:

10-40 kPa

20-80 kPa

50-150 kPa

20-80 kPa 50-150 kPa 20-80 kPa 50-150 kPa

	F 4007 07	F 4007 17	F 4007 27	F 4007 08	F 4007 18	F 4007 38	F 4007 28	F 4007 09	F 4007 19	F 4007 29	F 4007 20	F 4007 30	F 4007 21	F 4007 31
DN		65			8	0			100		12	25	15	50
L (mm)		290			32	10			350		40	00	48	30
h ₁ (mm)	581	567	567	603	588	603	588	60	03	588	72	27	72	21
H (mm)		93			13	13			112		18	31	18	35
d (mm)		19			1	9			19		1	9	2	3
D ₂ (mm)	275	156	156	275	156	275	156	27	75	156	27	75	27	7 5
dp setting range (kPa)	10- 40	20- 80	50- 150	10- 40	20- 80	20- 80	50- 150	10- 40	20- 80	50- 150	20- 80	50- 150	20- 80	50- 150



Technical data

Max. working pressure: 16 bar
Testing pressure: 25 bar

Max. differential pressure over the valve:

4 bar

Min. working temperature: $2 \,^{\circ}\text{C}$ Max. allowed working temperature: $110 \,^{\circ}\text{C}$

Min. working temperature: -10 $^{\circ}$ C (with anti freeze)

Valve body material: EN-GJL-250 acc. to EN 1561

Type of connection: Flange (EN 1092-2)
Diaphragm: EPDM with textile

O-Ring: EPDM

Spring: EN 10270-1-SH

Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%]

Ammonia contained in hemp can damage brass valve bodies, EPDM gaskets can be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection.

Kvs-values

	Dimensions						
Order number	DN 65	DN 80	DN 100	DN 125	DN 150		
F 4007 xx	50 m³/h	84 m³/h	96 m³/h	190 m³/h	270 m³/h		

Model

The differential pressure controller is a straight-version proportional controller and works without auxiliary energy. The required nominal differential pressure can be continuously adjusted from 10 to 40 kPa, 20 to 80 kPa or 50 to 150 kPa. The impulse line (1500 mm) is included with the valve and is connected to a circuit regulating valve in the flow.

Application

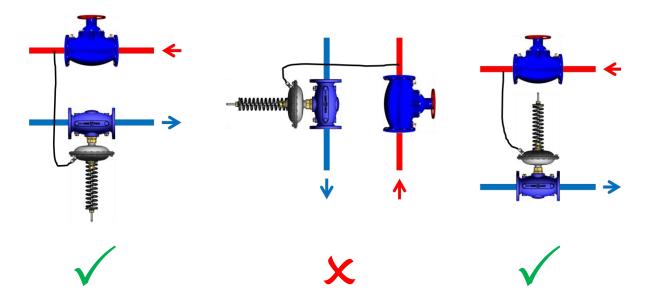
For heating and cooling systems, to ensure constant differential pressure within the control range.



☑ Installation

Installation is carried out in the return flow and it should be hanging or standing. The direction of the flow is in the direction of the arrow shown on the body. The impulse pipe should be connected to a commissioning valve in the supply side.

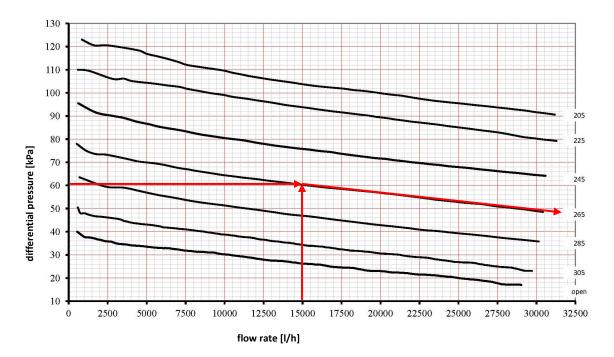
Installation of a shut-off valve both in front and behind the differential pressure controller is recommended. Also the onsite use of a ball valve in the impulse line is recommended in order to prevent pressure shocks on the membrane when filling the device.

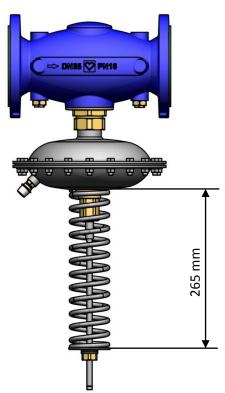




Presetting

The desired differential pressure is set by adjusting the spring. The setting range in the diagrams is in millimetre.





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HERZ standard diagram	HERZ F4007 10 – 40 kPa			
Order Nr.: F 4007 07	Dim. DN 65			
145	245 265 265 305 305 0 pen			
	22500			
	20000			
	17500			
	15000			
	12500			
	10000 flow rate [l/h]			
	7500			
	2000			
	2500			
50 45 40 30 30 25	10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
differential pressure [kPa]				



HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F 4007 17	Dim. DN 65
	20 20 2500 5000 7500 10000 12500 17500 20000 22500 27500 30000 32500 flowrate [l/h]



HERZ standard diagram	HERZ F4007 50 – 150 kPa	
Order Nr.: F 4007 27	Dim. DN 65	
140	205 225 225 245 265 265 285 305 open 50000	
	45000	
	40000	
	35000	
	30000	
	25000	
	20000 flow rate [I/h]	
	15000	
	10000	
	2000	
00 00 100 100 differentia	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

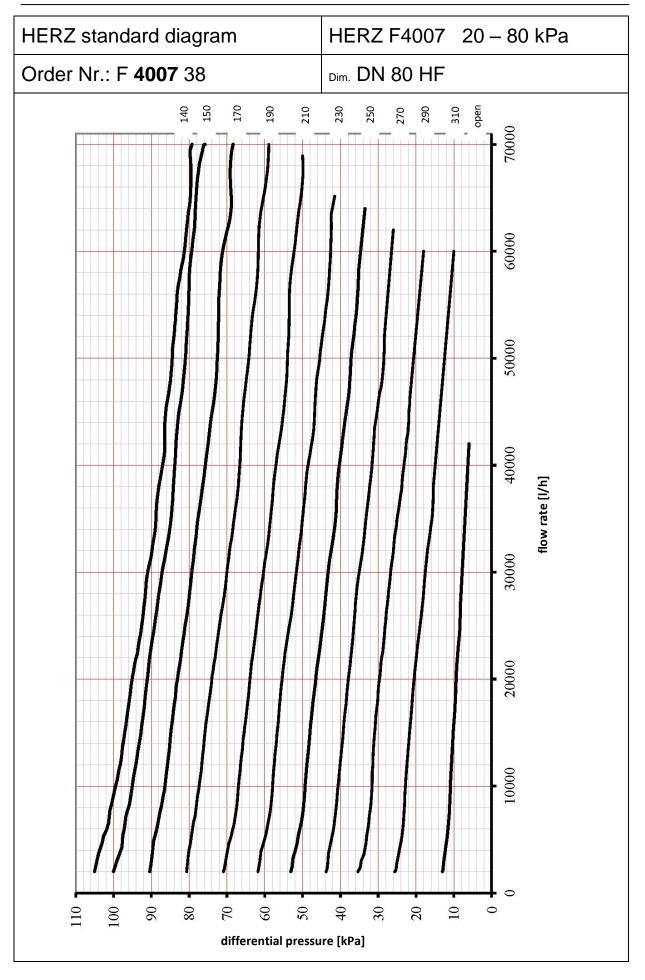


HERZ standard diagram	HERZ F4007 10 – 40 kPa
Order Nr.: F 4007 08	Dim. DN 80
45 50 70 145 145 145 145 145 145 145 145 145 145	0 2500 5000 7500 10000 12500 17500 20000 22500 25000 27500 30000 32500 37500 flowrate [l/h]



HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F 4007 18	Dim. DN 80
130 110 100 90 80 80 70	20 2500 7500 10000 12500 17500 20000 22500 25000 10000 11500 17500 20000 22500 25000







HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F 4007 28	Dim. DN 80
210 200 190 180 170 160 150 140 130 110	answard 90



HERZ standard diagram	HERZ F4007 10 – 40 kPa		
Order Nr.: F 4007 09	Dim. DN 100		
165 185 205 225	245 265 285 310 open		
	40000		
	35000		
	30000		
	25000		
	00 20000 flow rate [I/h]		
	150		
	000 110000		
	0 \$0000		
0 4 4 5 6 5 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			



HERZ standard diagram	HERZ F4007 20 – 80 kPa			
Order Nr.: F 4007 19	Dim. DN 100			
Order Nr.: F 4007 19				
110 100 100 100 100 100 100 100 100 100				
differentia	al pressure [kPa]			



HERZ standard diagram	HERZ F4007 50 – 150 kPa				
Order Nr.: F 4007 29	Dim. DN 100				
145	225 245 265 285 310 open 70000				
	00009				
	20000				
	40000				
	30000 flow rate [I/h]				
	20000				
	10000				
220 200 180 140 100	22 200 500 1140 140 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
differential pressure [kPa]					



HERZ standard diagram	HERZ F4007 20 – 80 kPa	
Order Nr.: F 4007 20	Dim. DN 125	
170	250 270 290 305 open	
	160000	
	140000	
	120000	
	100000	
	80000 g	
	00009	
	40000	
	20000	
0 6 8 P 9 9 OS differential pressure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	



HERZ standard diagram	HERZ F4007 50 – 150 kPa	
Order Nr.: F 4007 30	Dim. DN 125	
Order Nr.: F 4007 30	20000 40000 60000 80000 120000 140000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 1600000 1600000 160000 160000 160000 1600000 160000 160000 160000 160000 160	
00 70 00 80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		



HERZ standard diagram	HERZ F4007 20 – 80 kPa	
Order Nr.: F 4007 21	Dim. DN 150	
170	250 270 180000	
	160000	
	140000	
	120000	
	100000 [i/h]	
	80000 I flow rate [I/h]	
	00009	
	40000	
	0 20000	
100 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
differential pressure [kPa]		



HERZ standard diagram	HERZ F4007 50 – 150 kPa	
Order Nr.: F 4007 31	Dim. DN 150	
	2000 40000 60000 80000 120000 140000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 1600000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160	
160 140 170 80	0 70 0	
differential pressure [kPa]		