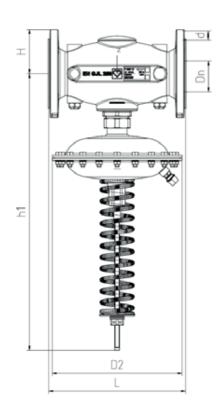
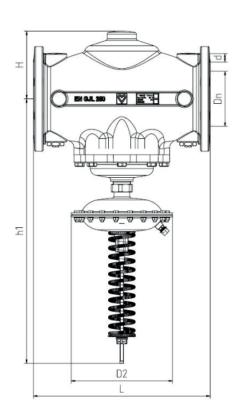


HERZ - DP Controller flanged version

Data sheet for **F 4007**, Issue 0320

☑ Dimensions in mm





	F 4007 26	F 4007 07	F 4007 17	F 4007 27	F 4007 38	F 4007 08	F 4007 18	F 4007 28	F 4007 09	F 4007 19	F 4007 29	F 4007 20	F 4007 30	F 4007 21	F 4007 31	F 4007 32
DN	50	65			80			100			125		150		200	
L (mm)	230	290			310			350		400		480		600		
h1 (mm)	566	581 567 567		603 603 588 588		603 588		727		721		808				
H (mm)	82	93		113			112		181		185		222			
d (mm)	19	19			19			19		19		23		23		
D ₂ (mm)	156	275	156	156	275	275	156	156	275 156 275 275		75	275				
dp setting range (kPa)	50- 150	10- 40	20- 80	50- 150	20- 80	10- 40	20- 80	50- 150	10- 40	20- 80	50- 150	20- 80	50- 150	20- 80	50- 150	50- 150



☑ Application

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

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 pipe (1500 mm) is included in the valve set and has to be connected to a double regulating valve on the supply side.

☑ Technical data

Max. operating pressure:16 barTesting pressure:25 barMax. differential pressure:4 barMin. operating temperature:2 ° CMax. allowed operating temperature:110 ° C

Min. operating temperature:

Valve body material:

-10 ° C (with anti freeze)

EN-GJL-250 gem. 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 ÖNORM H 5195 and VDI 2035 standards.

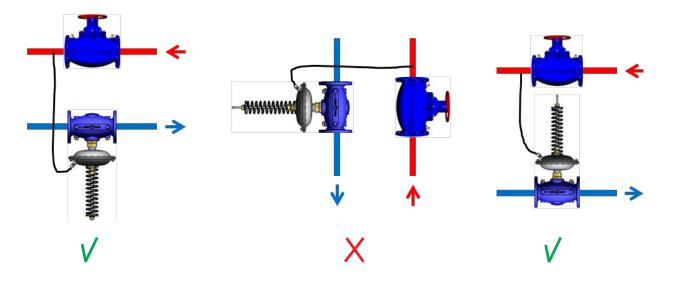
Ethylene and propylene glycol can be mixed in ratio of 25 - 50 vol. [%].

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

☑ Installation

Installation has to be carried on return flow side with the valve standing or hanging as shown below. The direction of the flow is in direction of the arrow shown on the body. The impulse pipe should be connected to a double regulating valve on the supply side.

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

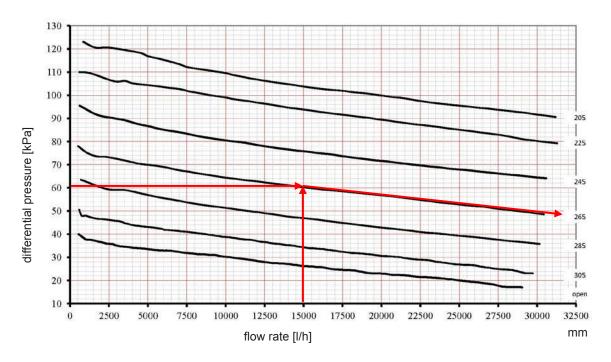


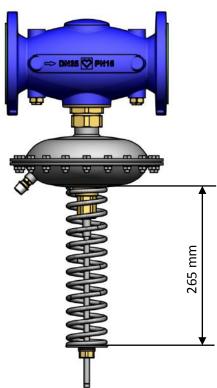
All specifications and statements within this document are according to information available at the time of printing and meant for informational purpose only. Herz Armaturen reserves the right to modify and change products as well as its technical specifications and/or its functioning according to technological progress and requirements. It is understood that all images of Herz products are symbolic representations and therefore may visually differ from the actual product. Colours may differ due to printing technology used. In case of any further questions do not hesitate to contact your closest HERZ Branch-office.



☑ Presetting

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







☑ General information

Intended Use

This product is only intended for the purpose intended by the manufacturer. This also includes compliance with all associated product regulations. Changes or conversions are not permitted.

Disposal

Local and currently applicable legislation must be observed for disposal.

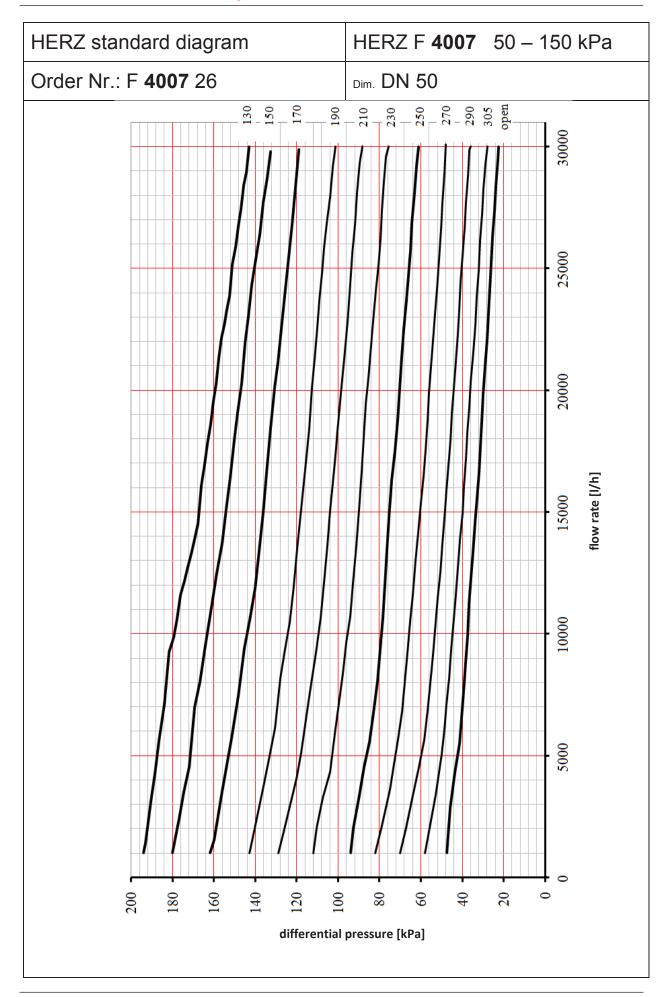
Note

All schemes are symbolic in nature and do not claim to be complete.

Material

Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

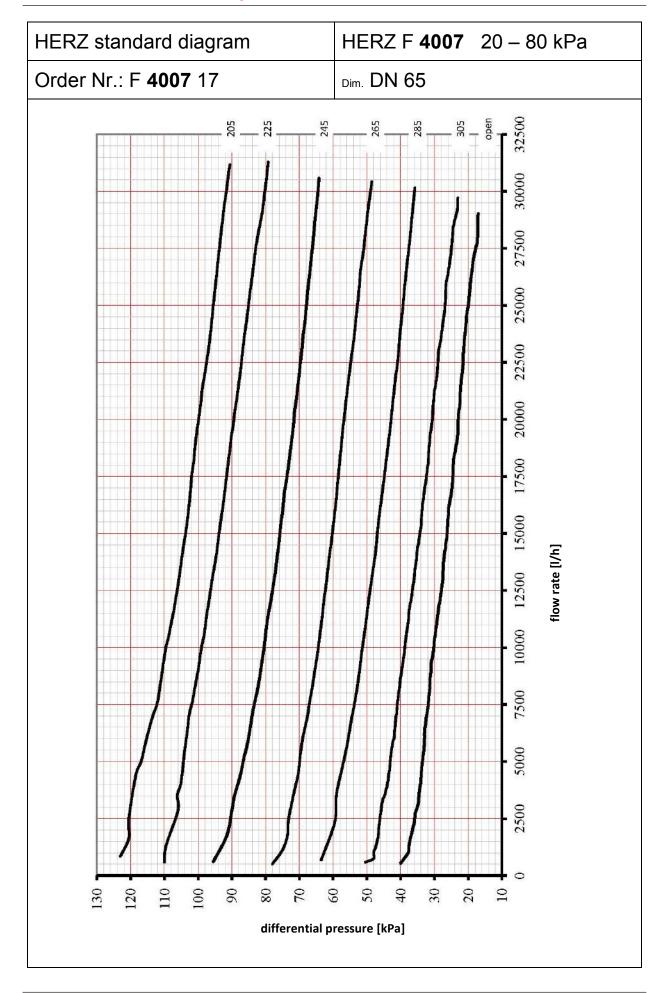






HERZ standard diagram	HERZ F 4007 10 – 40 kPa						
Order Nr.: F 4007 07	Dim. DN 65						
145 145 165 165 205 205 225 225 245 245 245 265 265 265 275 285 285 285 285 285 285 285 285 285 28							
	22500						
	20000						
	17500						
	15000						
	12500						
	10000 flow rate [I/h]						
	7500						
	2000						
	2500						
50 40 40 30 25	10 10 0 0 0 0						
differential pressure [kPa]							

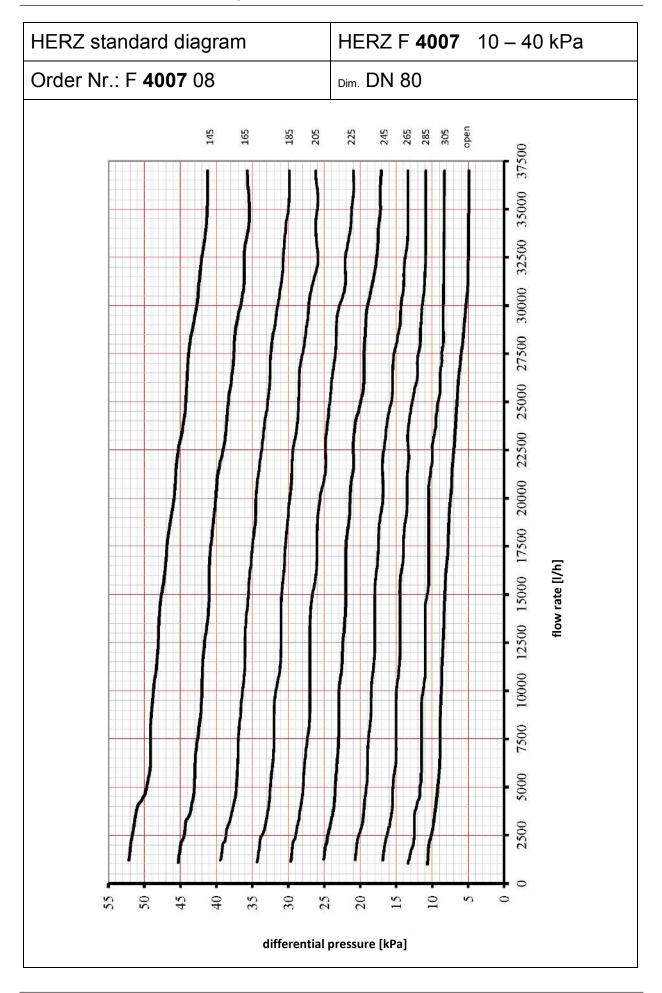




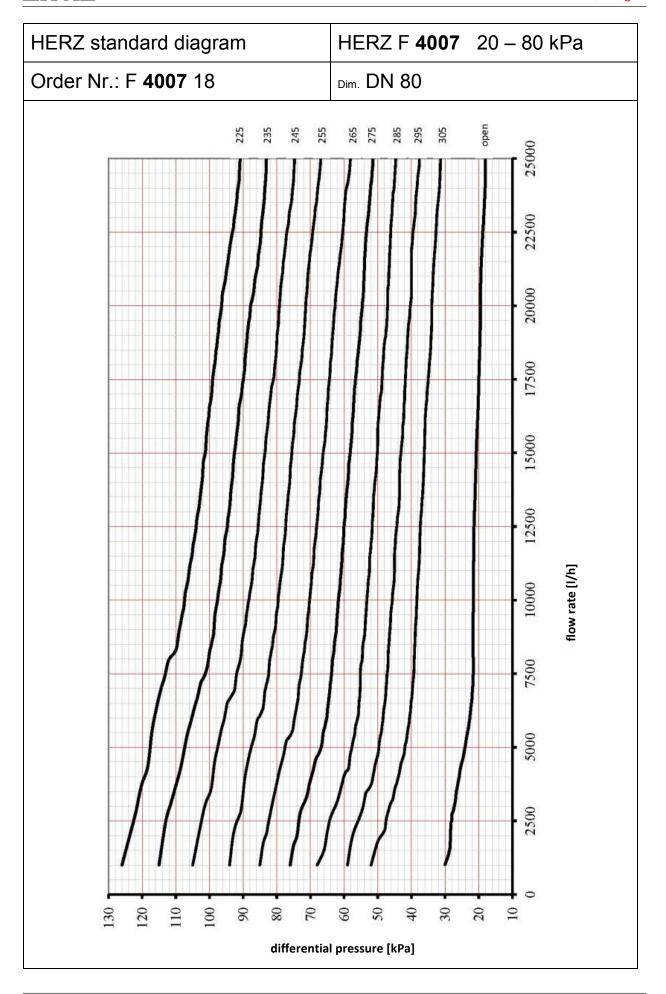


HERZ standard diagram HERZ F 4007 50 – 150 kP						
Order Nr.: F 4007 27	Dim. DN 65					
140 140 145 145 165 205 205 205 205 205 205 205 205 205 20						
	45000					
	40000					
	35000					
	30000					
	25000					
	20000 flow rate [l/h]					
	15000					
	10000					
///////////////////////////////////////	2000					
00 00 17 00 00 00 00 00 00 00 00 00 00 00 00 00	08 09 04 07 0 al pressure [kPa]					

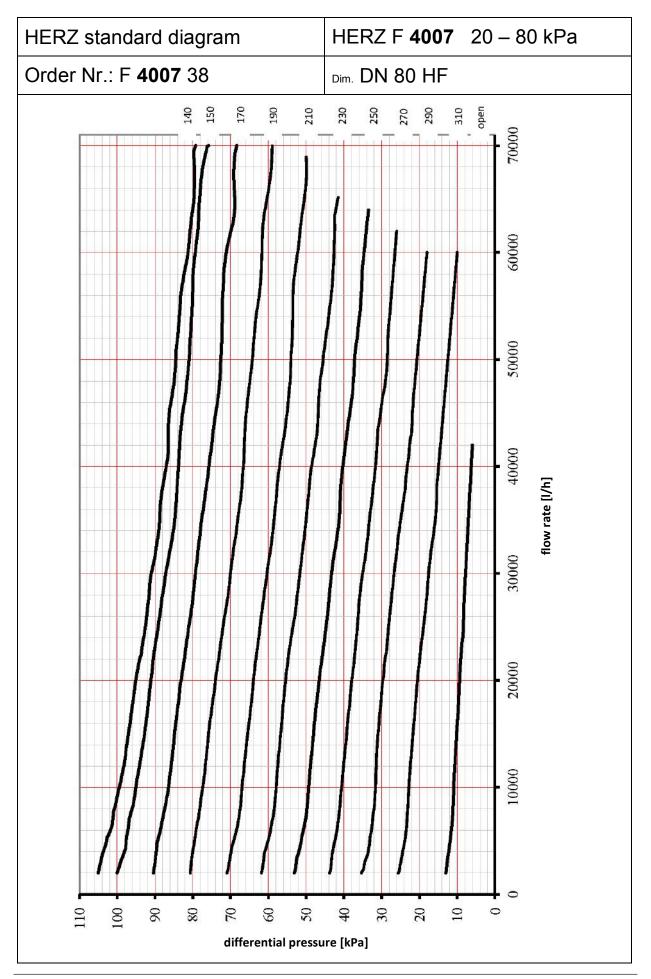










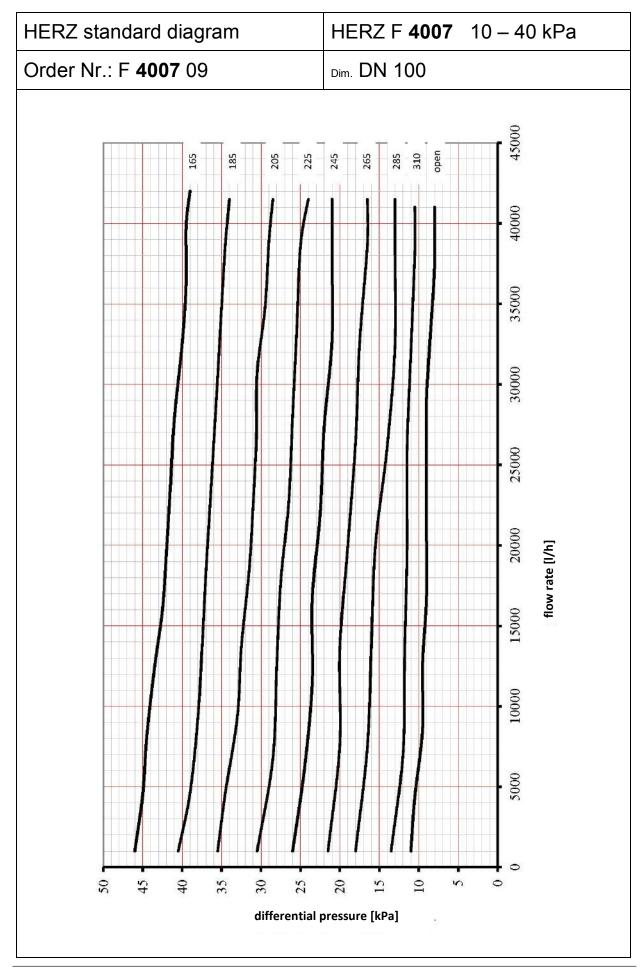




RZ standard diagrar	n	HERZ F 4007 50 – 150 kPa				
der Nr.: F 4007 28		Dim. DN 80				
	145 165 185 205	225 245 265 285 305 open				
	7 7 7 7	9 3 2 5 5	70000			
	111,		00059			
	+++	111111	00009			
1	1//		55000			
	III	11111				
			\$0000			
			45000			
		11111	40000			
	111	11111				
	HHH	11111	35000			
			[1/h]			
	'		= =			
	111	1111	- 64			
	111		20000			
		/ / / /				
			15000			
	////		10000			
	III	111	2000			

differential pressure [kPa]







HERZ standard diagram HERZ F 4007 20 – 80 kPa					
Order Nr.: F 4007 19	Dim. DN 100				
	235 255 275 275 295 295 315 80000 90000				
	70000				
	00009				
	20000				
	40000 flow rate [I/h]				
	30000				
	20000				
	0 10000				
01 00 06 08 02 09 05 04 08 02 01 0 differential pressure [kPa]					



Order Nr.: F 4007 29 1000 1000 20000 30000 40000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	HERZ standard diagram	HERZ F 4007 50 – 150 kPa				
0 10000 20000 40000 50000 60000 7000	Order Nr.: F 4007 29	Dim. DN 100				
0 10000 20000 30000 40000 50000 frow rate [l/h]	145 165 165 205 205 205 205 205 205 205 205 205 20					
0 10000 20000 40000 flow rate [l/h]		00009				
0 10000 20000 30000 flow rate [l/h]		20000				
0 10000 20000 How rail		40000				
		30000 flow rate [I/h]				
		20000				
differential pressure [kPa]						



