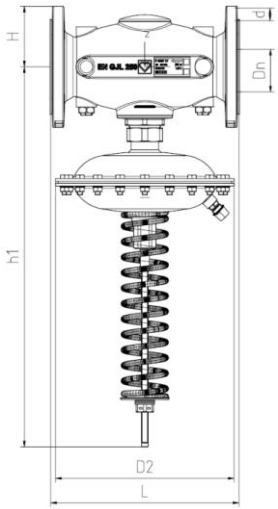
HERZ - DP Controller
flanged version

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

Dimensions in mm



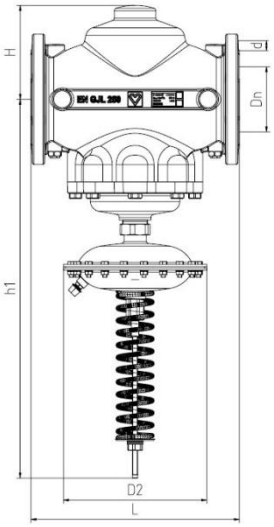
DN65-DN100

dp range:

10-40 kPa

20-80 kPa

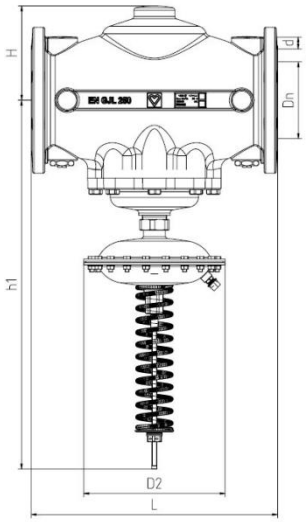
50-150 kPa



DN125

20-80 kPa

50-150 kPa



DN150

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			80				100			125		150	
L (mm)	290			310				350			400		480	
h_1 (mm)	581	567	567	603	588	603	588	603		588	727		721	
H (mm)	93			113				112			181		185	
d (mm)	19			19				19			19		23	
D_2 (mm)	275	156	156	275	156	275	156	275		156	275		275	
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 °C
Max. allowed working temperature:	110 °C
Min. working temperature:	-10 °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.

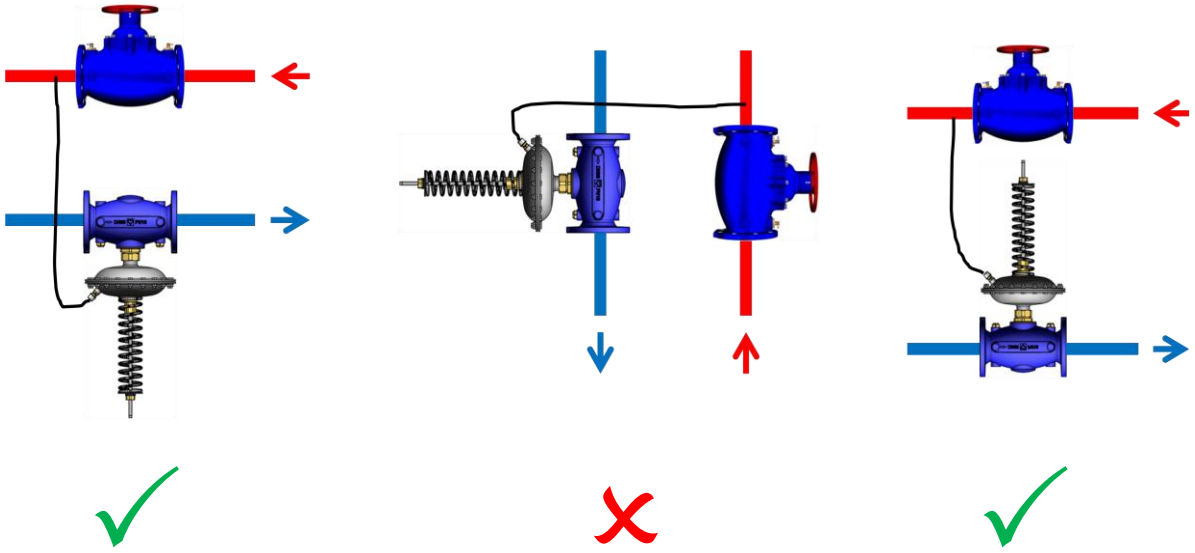
Application

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

Installation

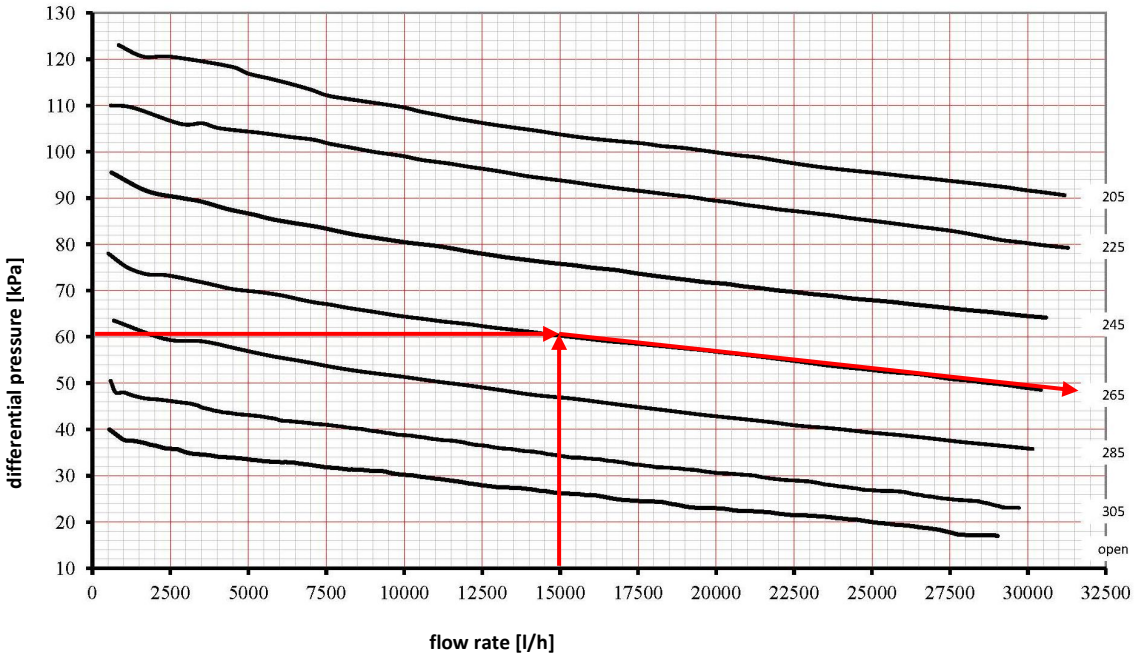
Installation is carried out in the return flow and it should be hanging or standing. The direction of the flow is in the direction of the arrow shown on the body. The impulse pipe should be connected to a commissioning valve in the supply side.

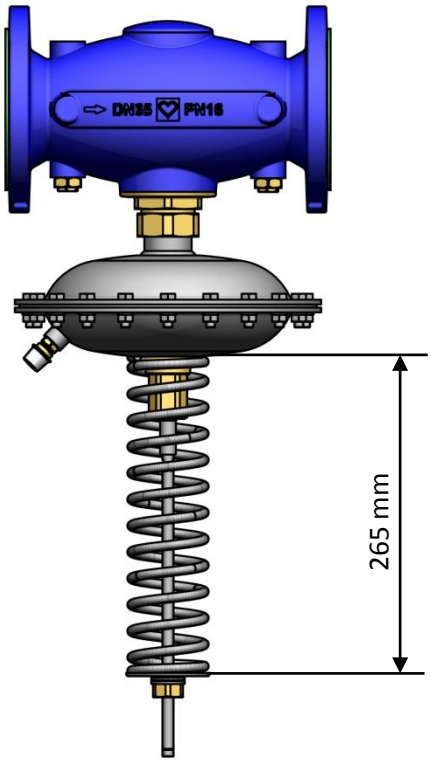
Installation of a shut-off valve both in front and behind the differential pressure controller is recommended. Also the onsite use of a ball valve in the impulse line is recommended in order to prevent pressure shocks on the membrane when filling the device.



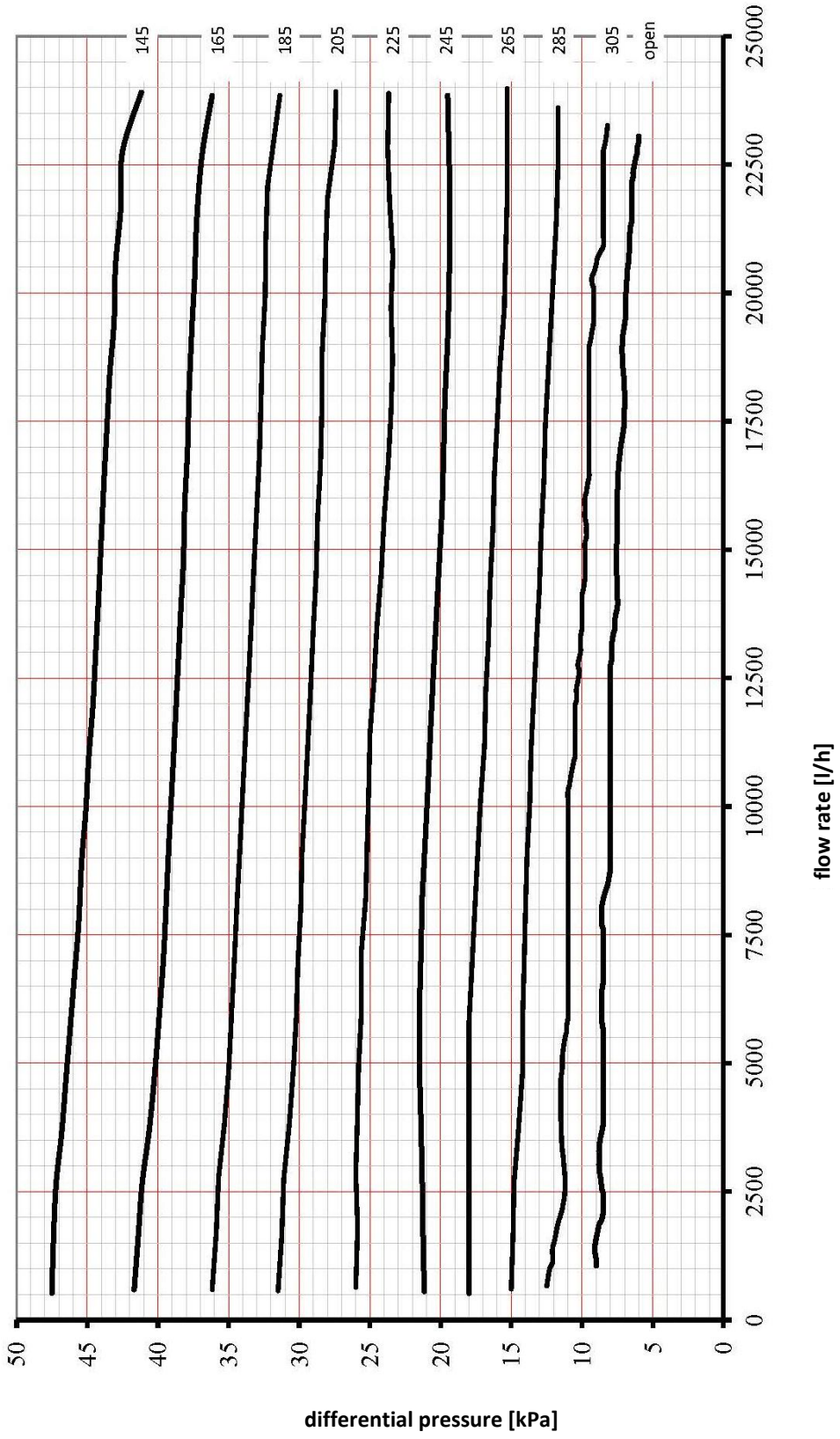
Presetting

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

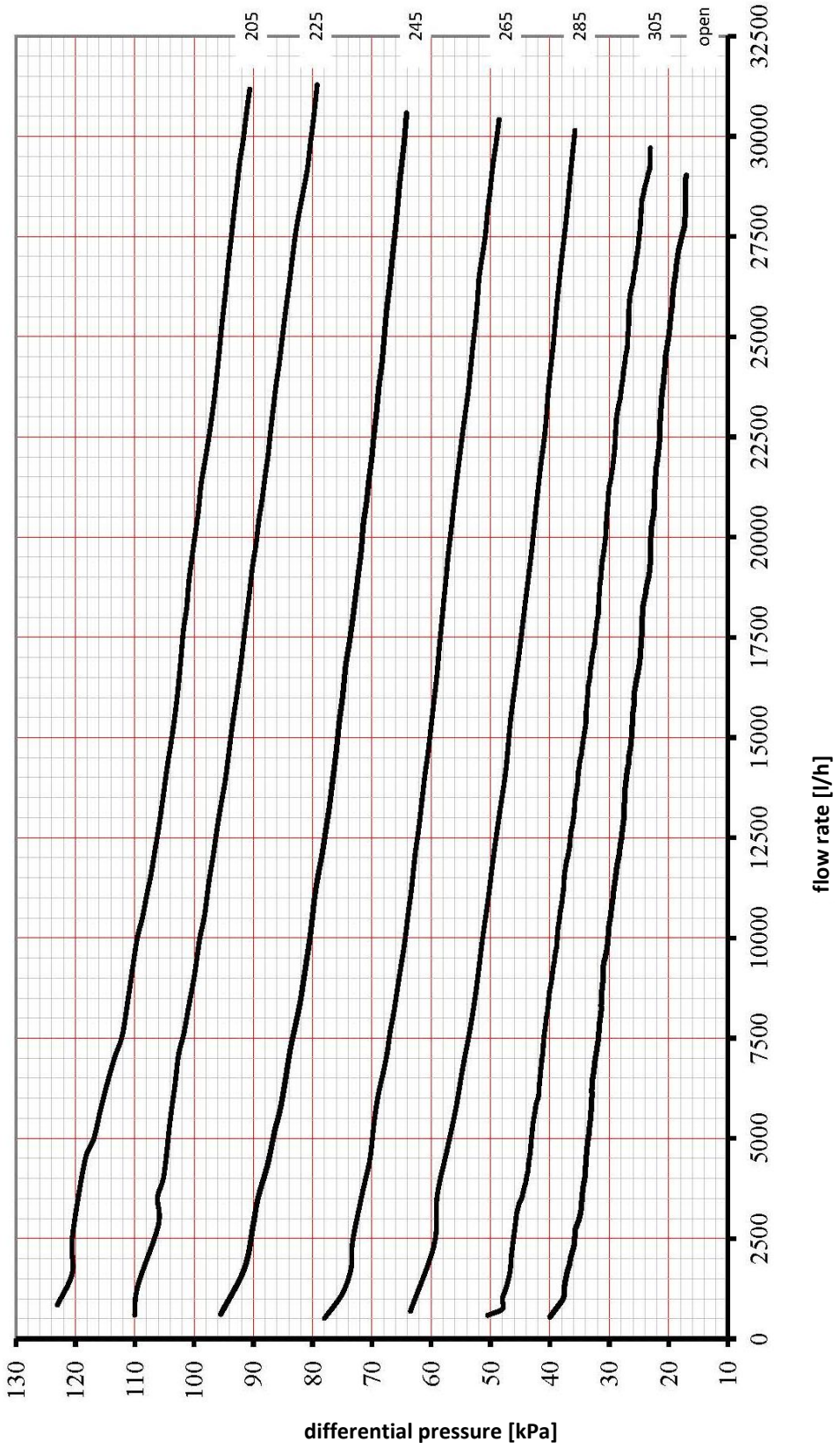




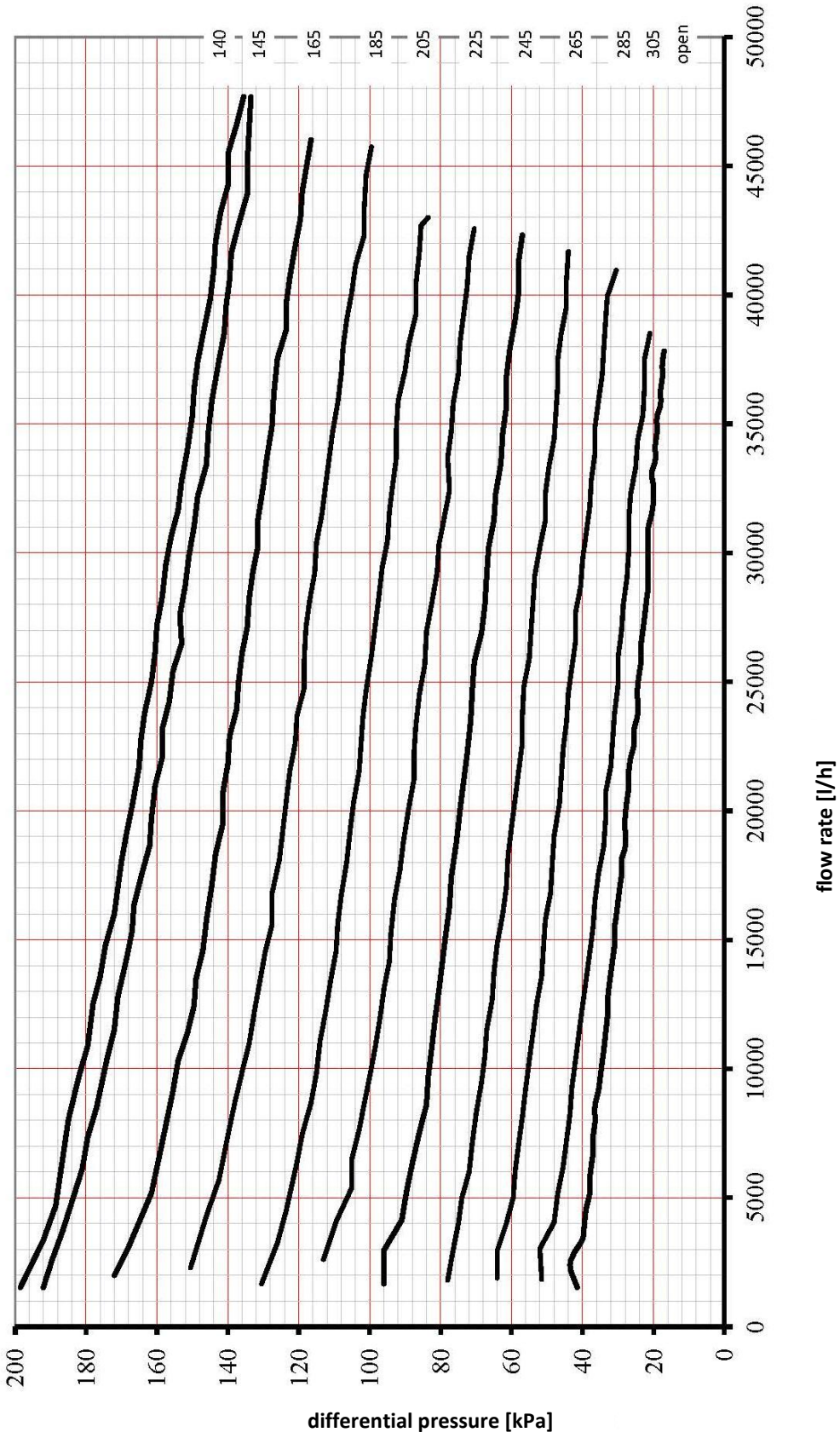
HERZ standard diagram	HERZ F4007 10 – 40 kPa
Order Nr.: F **4007** 07	Dim. DN 65



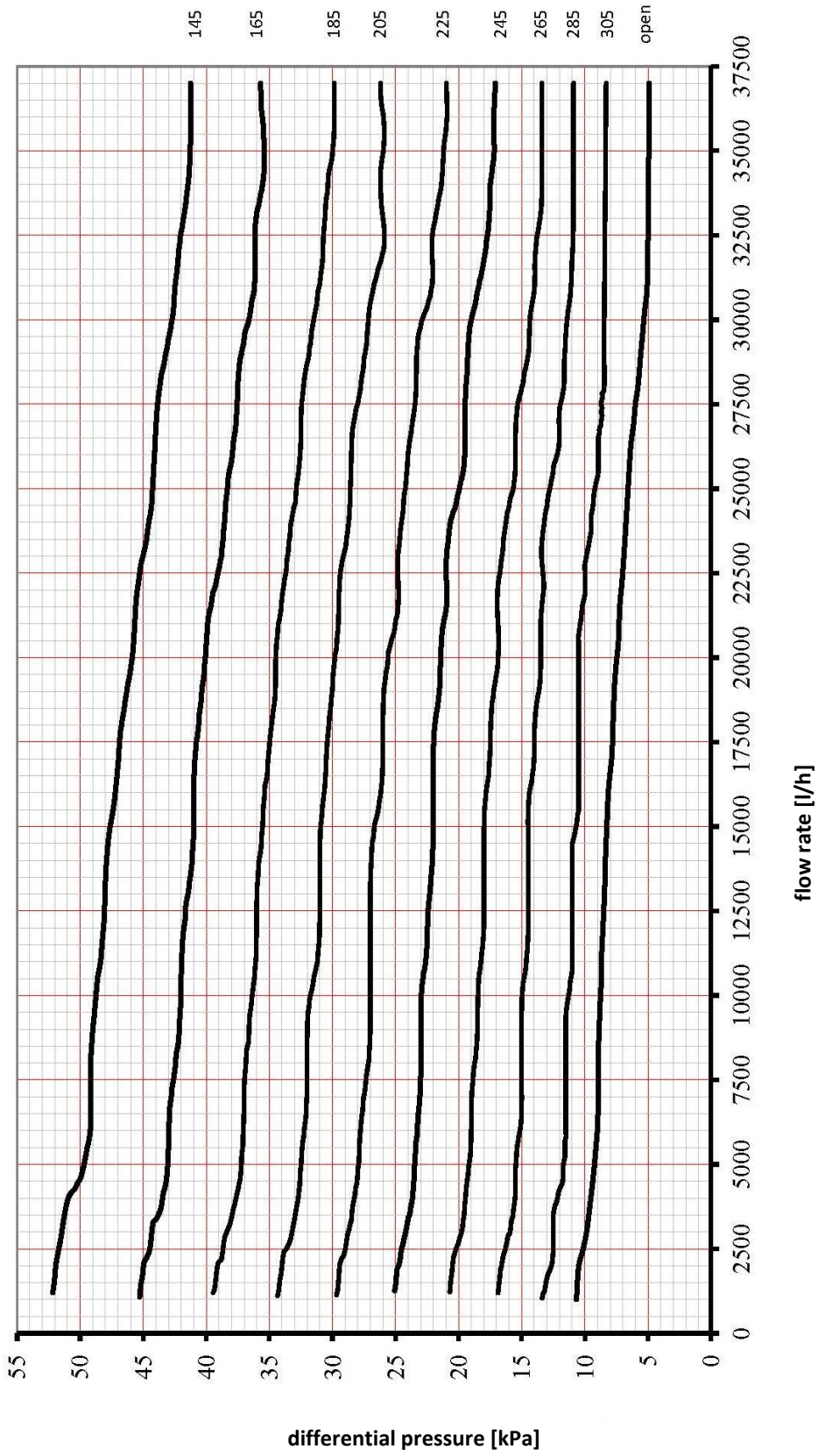
HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 17	Dim. DN 65



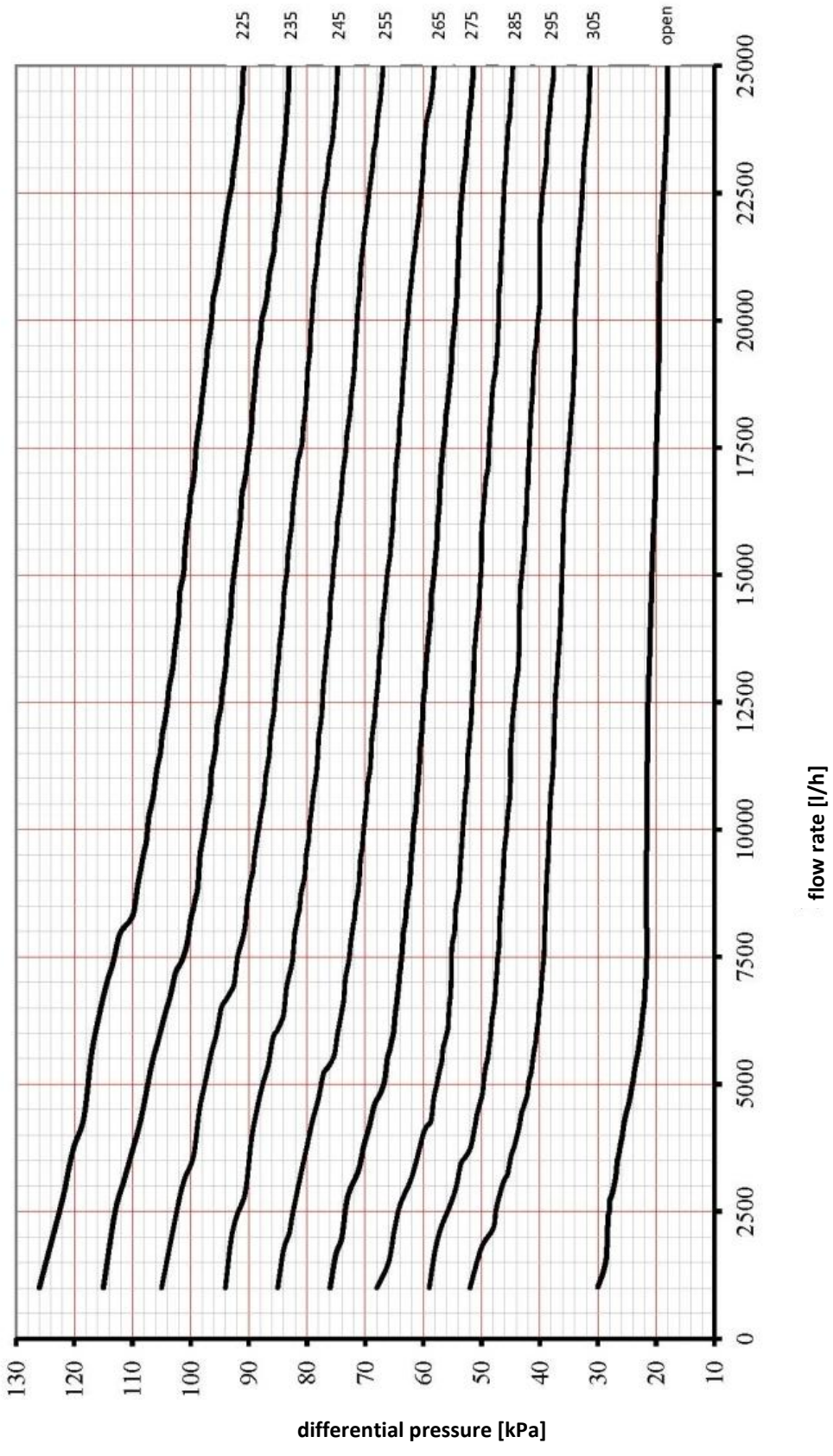
HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F **4007** 27	Dim. DN 65



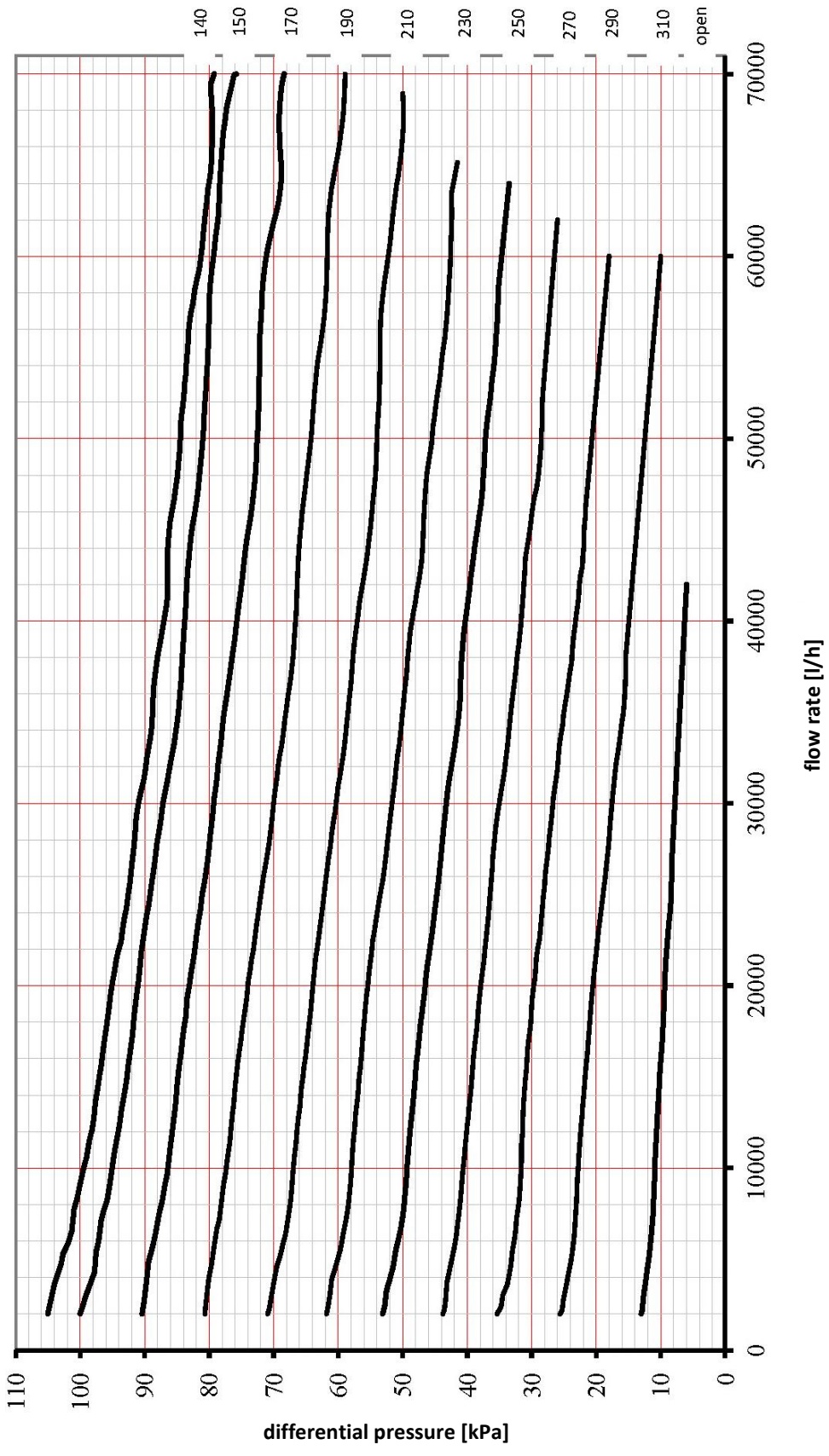
HERZ standard diagram	HERZ F4007 10 – 40 kPa
Order Nr.: F **4007** 08	Dim. DN 80



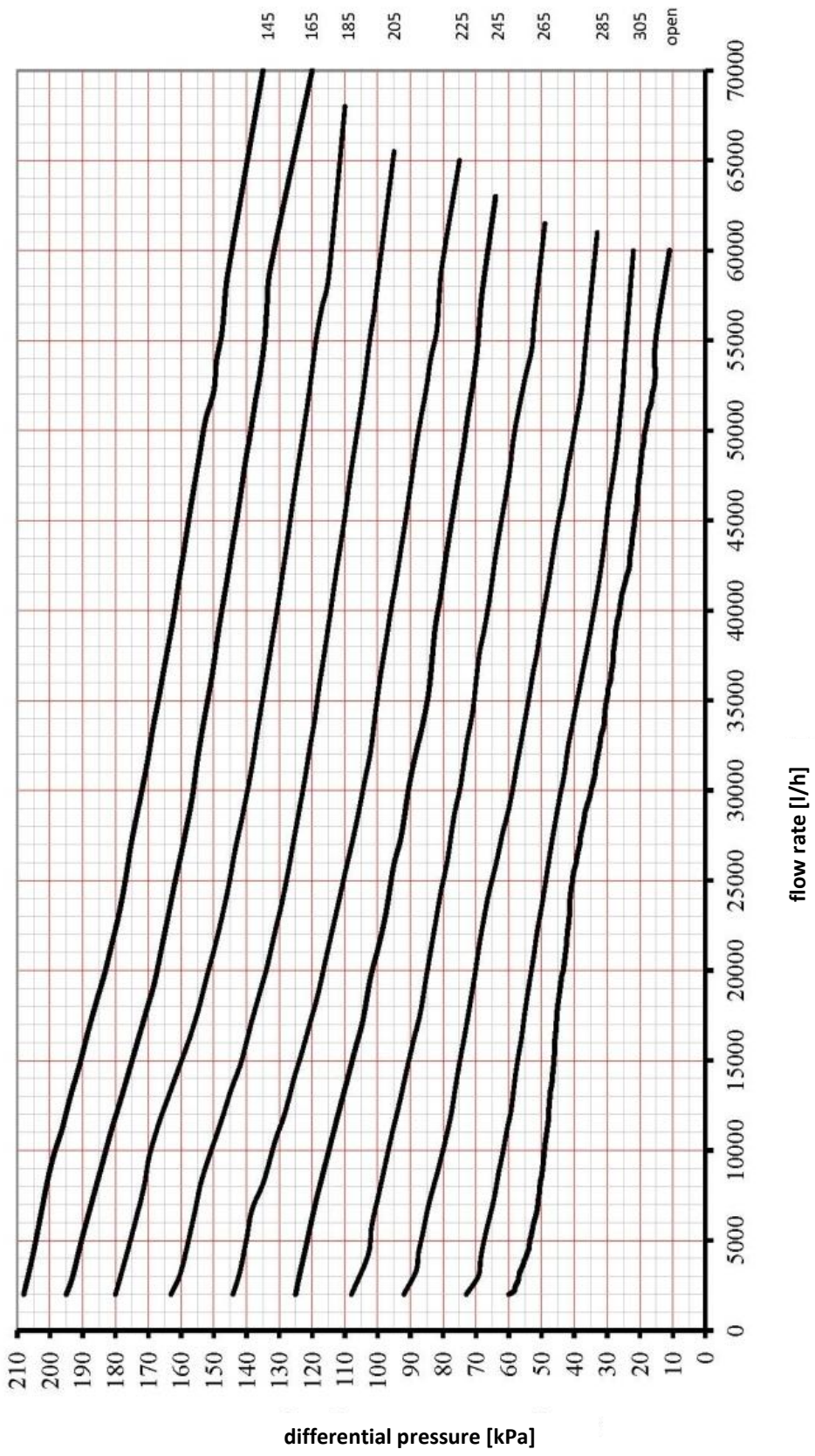
HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 18	Dim. DN 80



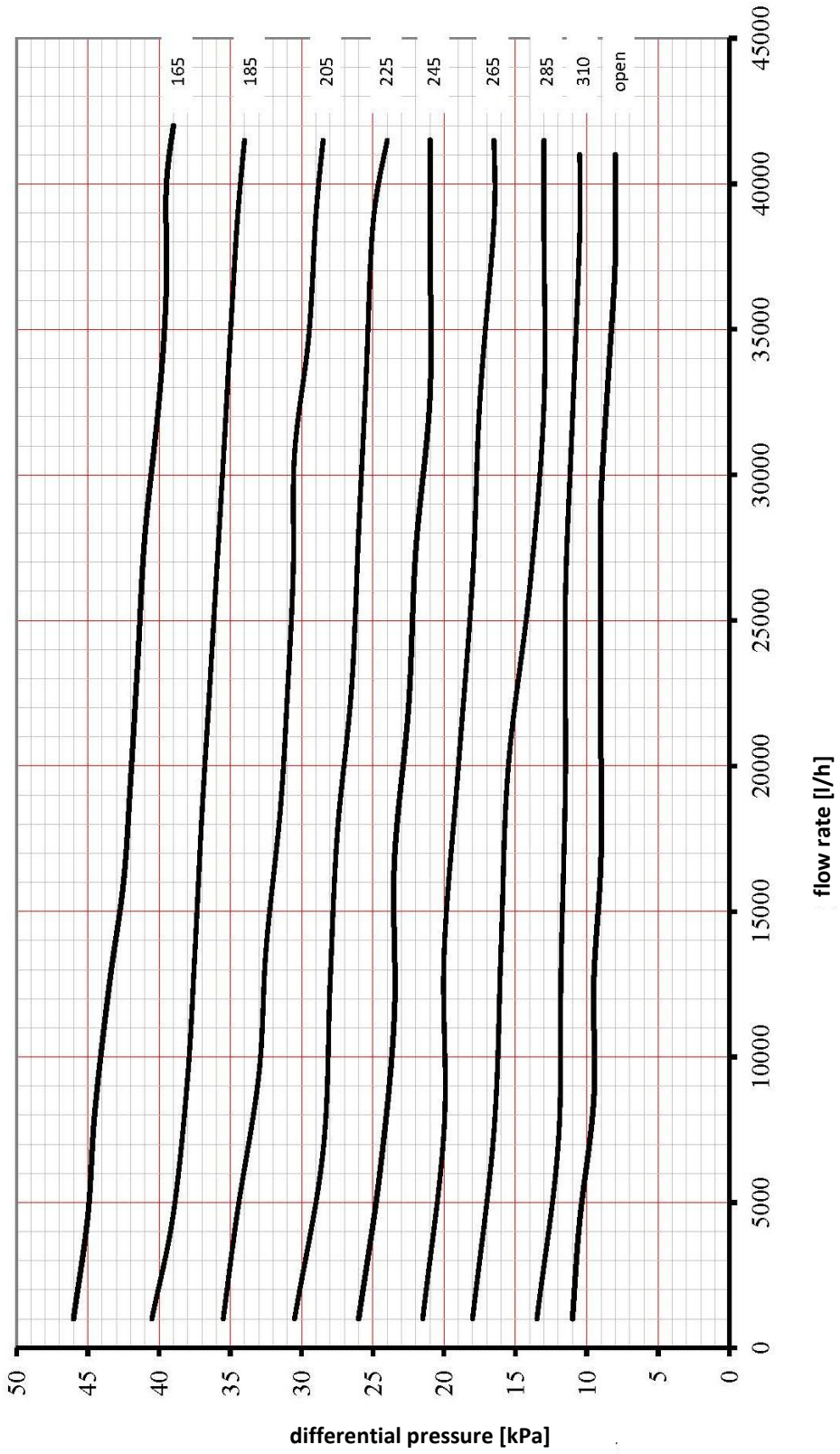
HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 38	Dim. DN 80 HF



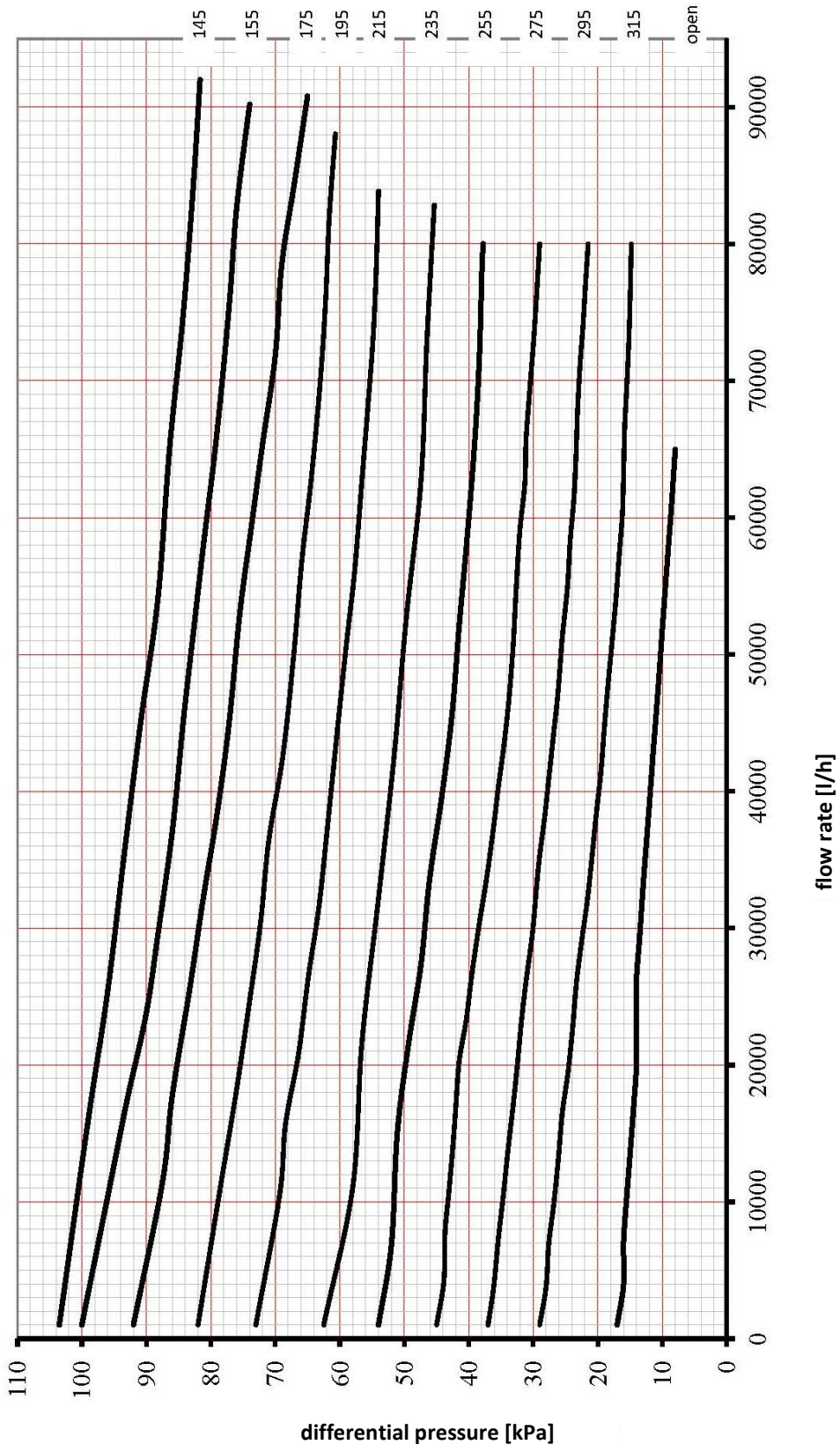
HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F **4007** 28	Dim. DN 80



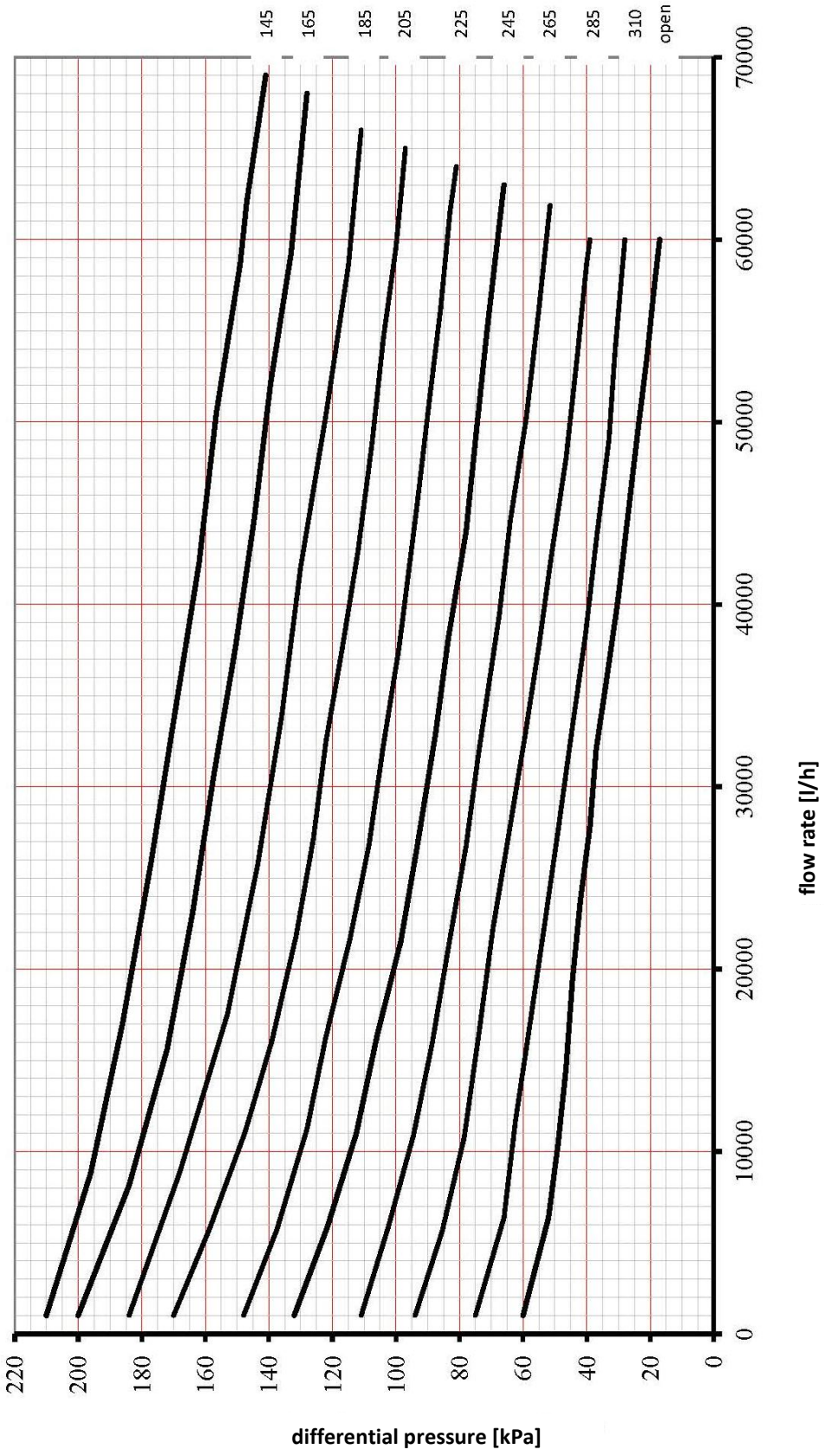
HERZ standard diagram	HERZ F4007 10 – 40 kPa
Order Nr.: F **4007** 09	Dim. DN 100



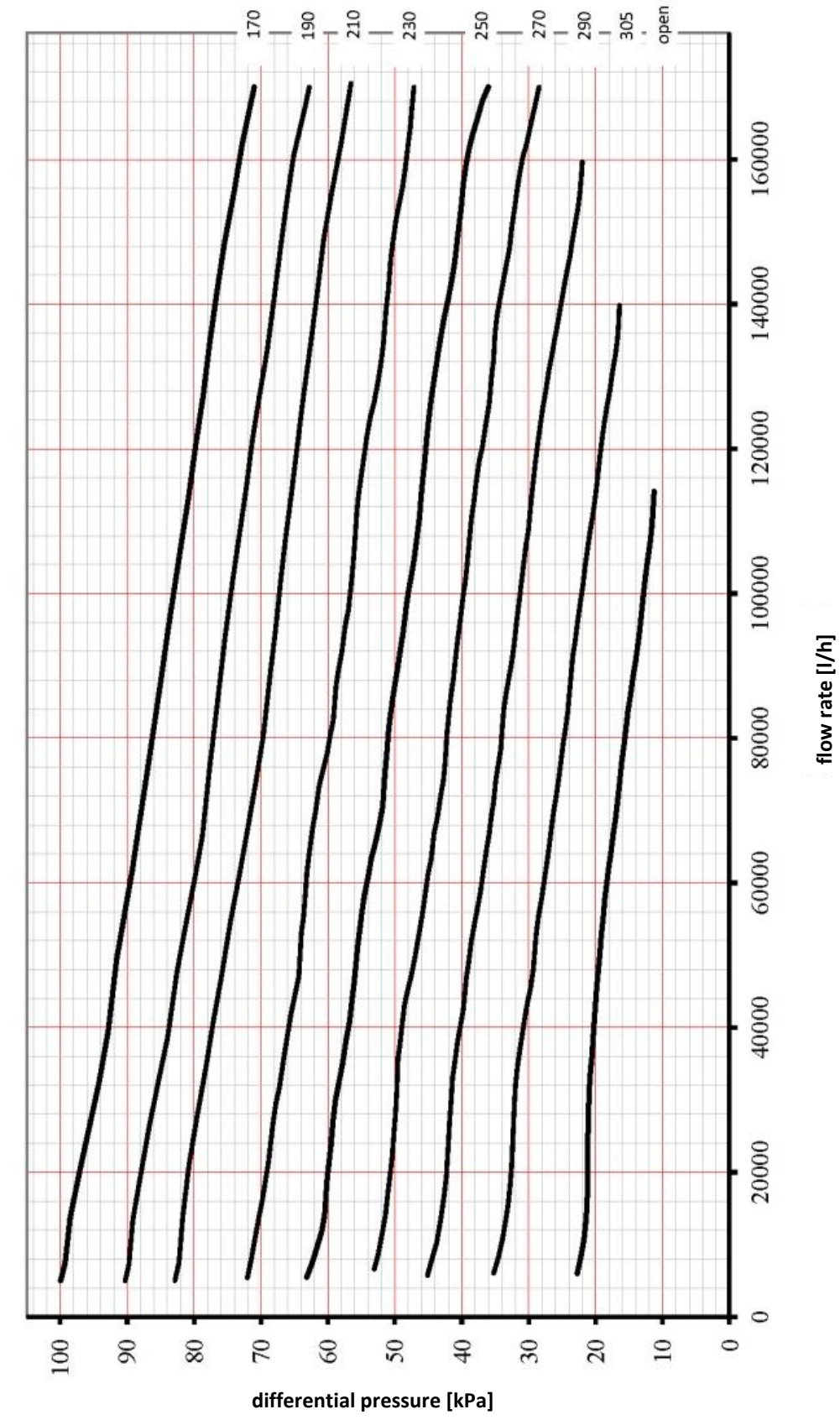
HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 19	Dim. DN 100



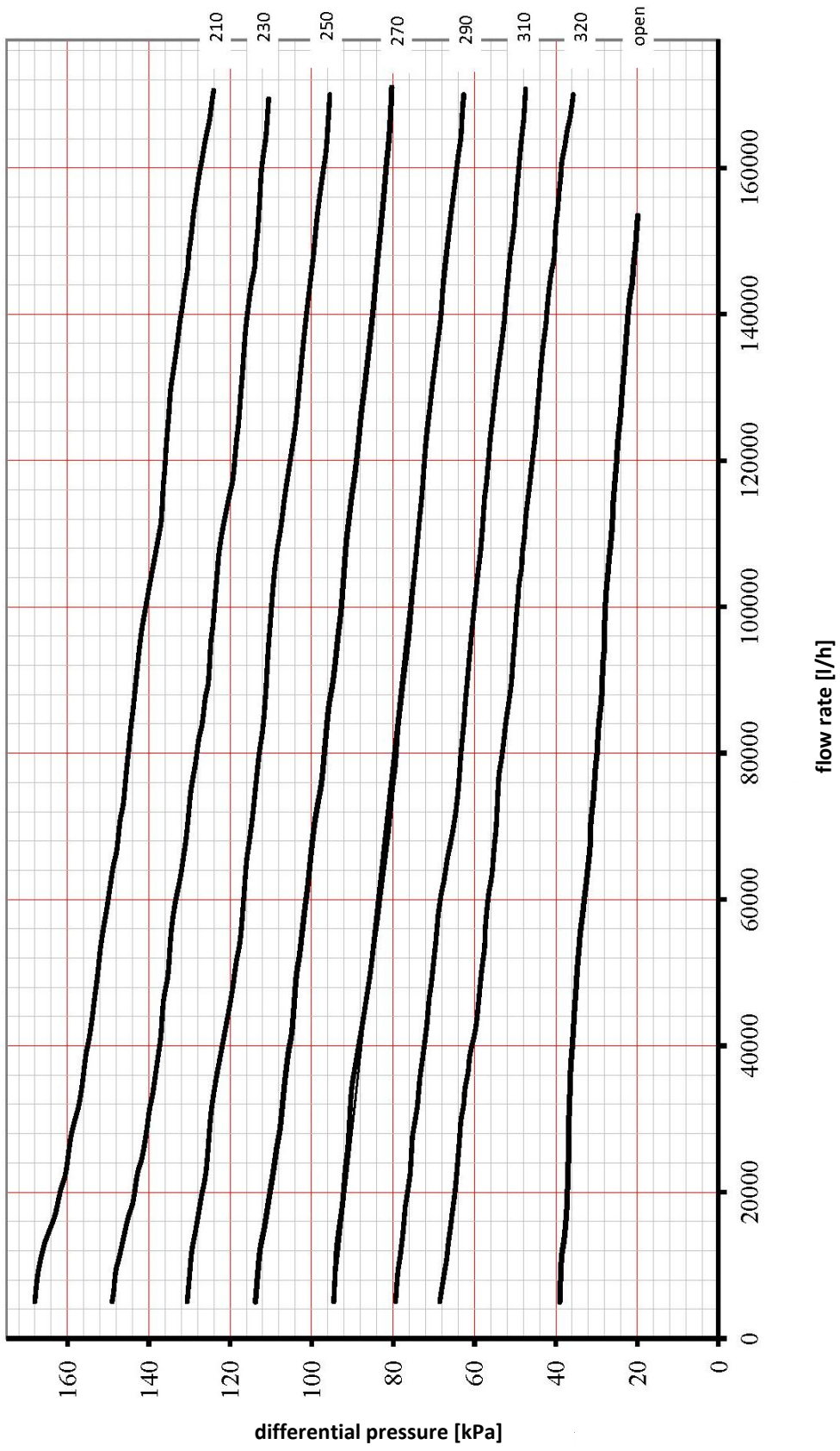
HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F **4007** 29	Dim. DN 100



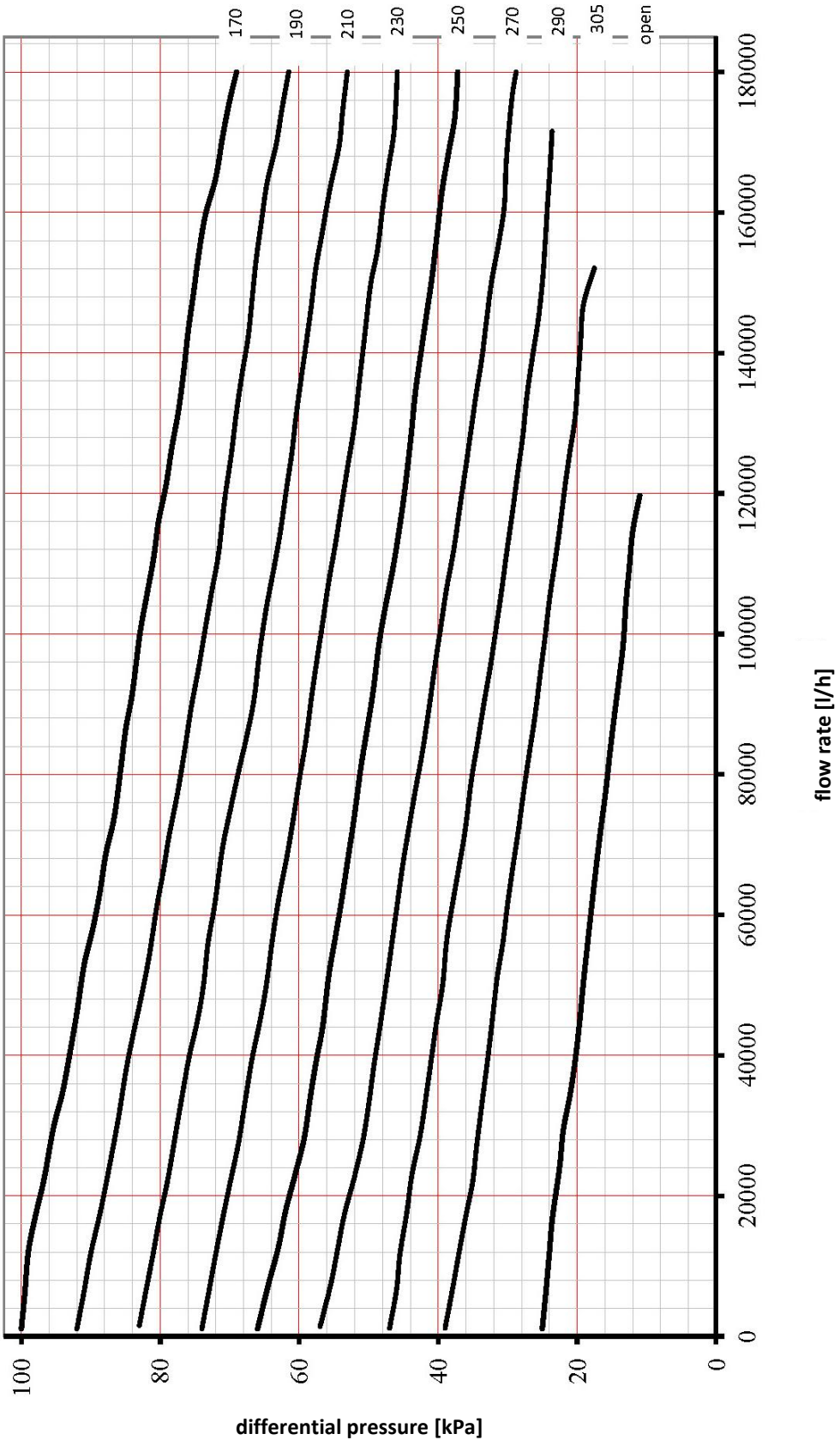
HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 20	Dim. DN 125



HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F **4007** 30	Dim. DN 125



HERZ standard diagram	HERZ F4007 20 – 80 kPa
Order Nr.: F **4007** 21	Dim. DN 150



HERZ standard diagram	HERZ F4007 50 – 150 kPa
Order Nr.: F **4007** 31	Dim. DN 150