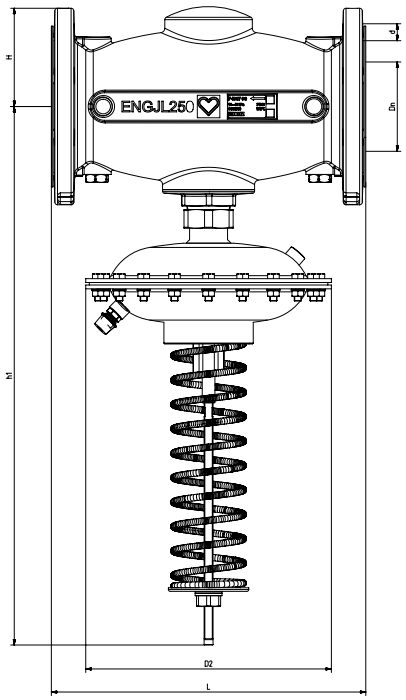
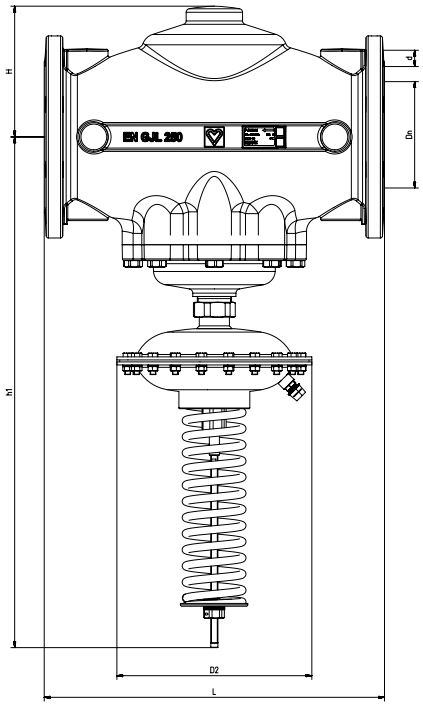
HERZ - DP Controller flanged version

Data sheet for **F 4007**, Issue 1023

Dimensions in mm





	DN50	DN65-DN100	DN125	DN150	DN200
dp range:	50-150 kPa	50-150 kPa 20-80 kPa 10-40 kPa	50-150 kPa 20-80 kPa	50-150 kPa 20-80 kPa	50-150 kPa

	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		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
Kvs	39,2	50	50	50	84	84	84	84	96	96	96	190	190	270	270	654

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.

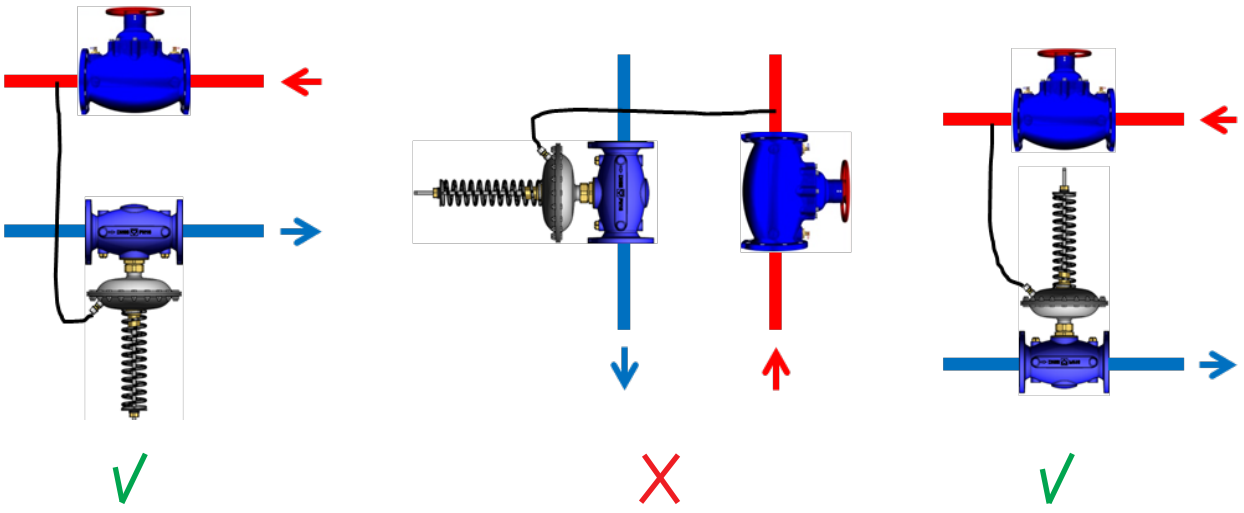
Technical data

Max. operating pressure:	16 bar
Testing pressure:	25 bar
Max. differential pressure:	4 bar
Min. operating temperature:	2 ° C
Max. allowed operating temperature:	110 ° C
Min. operating temperature:	-10 ° C (with anti freeze)
Valve body material:	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.

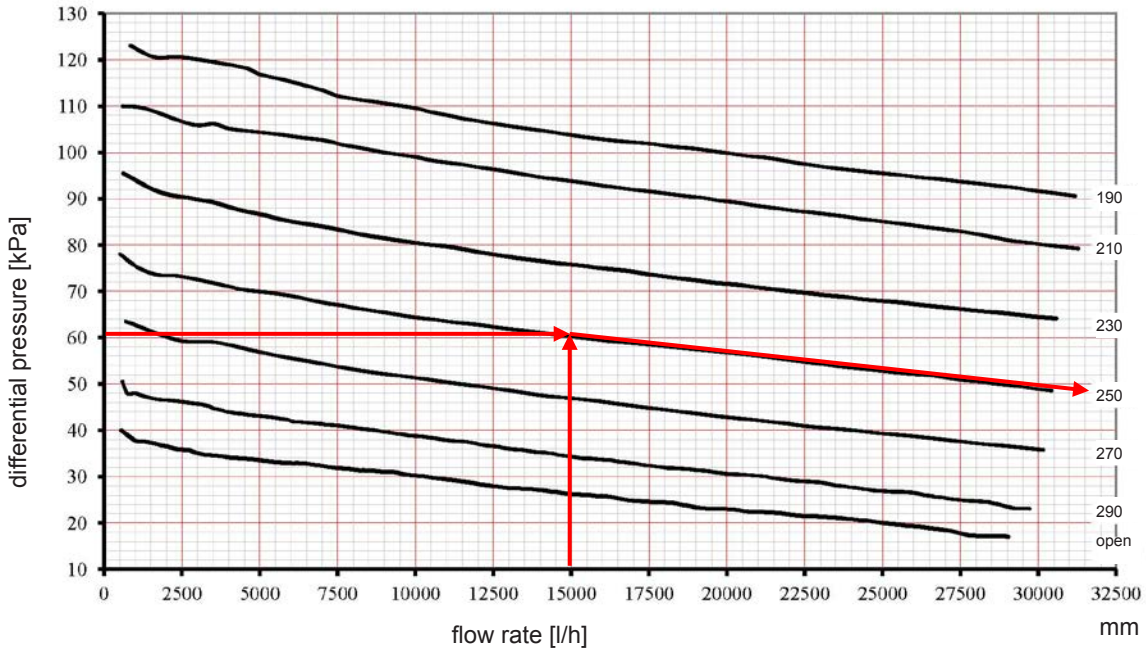
Installation

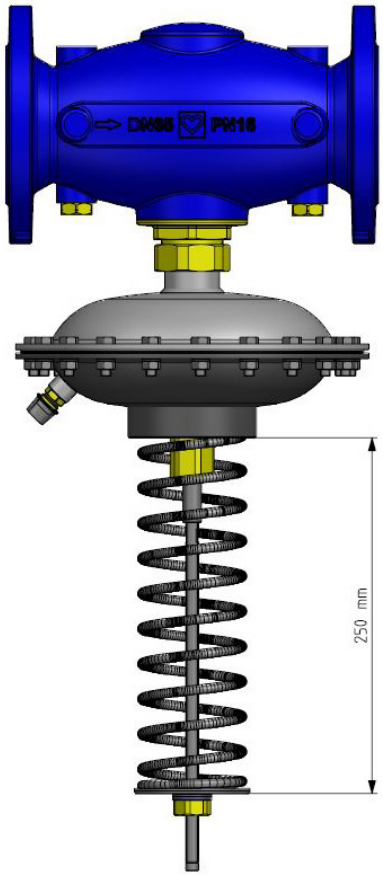
Installation has to be carried out on return flow side with the valve standing or hanging as shown below. The direction of the flow is in direction of the arrow shown on the body. The impulse pipe should be connected to a double regulating valve on the supply side.
Installation of a shut-off valve both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



Presetting

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





General information

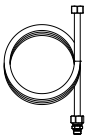
Intended Use
This product is only intended for the purpose intended by the manufacturer. This also includes compliance with all associated product regulations. Changes or conversions are not permitted.

Disposal
Local and currently applicable legislation must be observed for disposal. The disposal of HERZ differenzial pressure controller must not endanger the health or the enviroment.

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

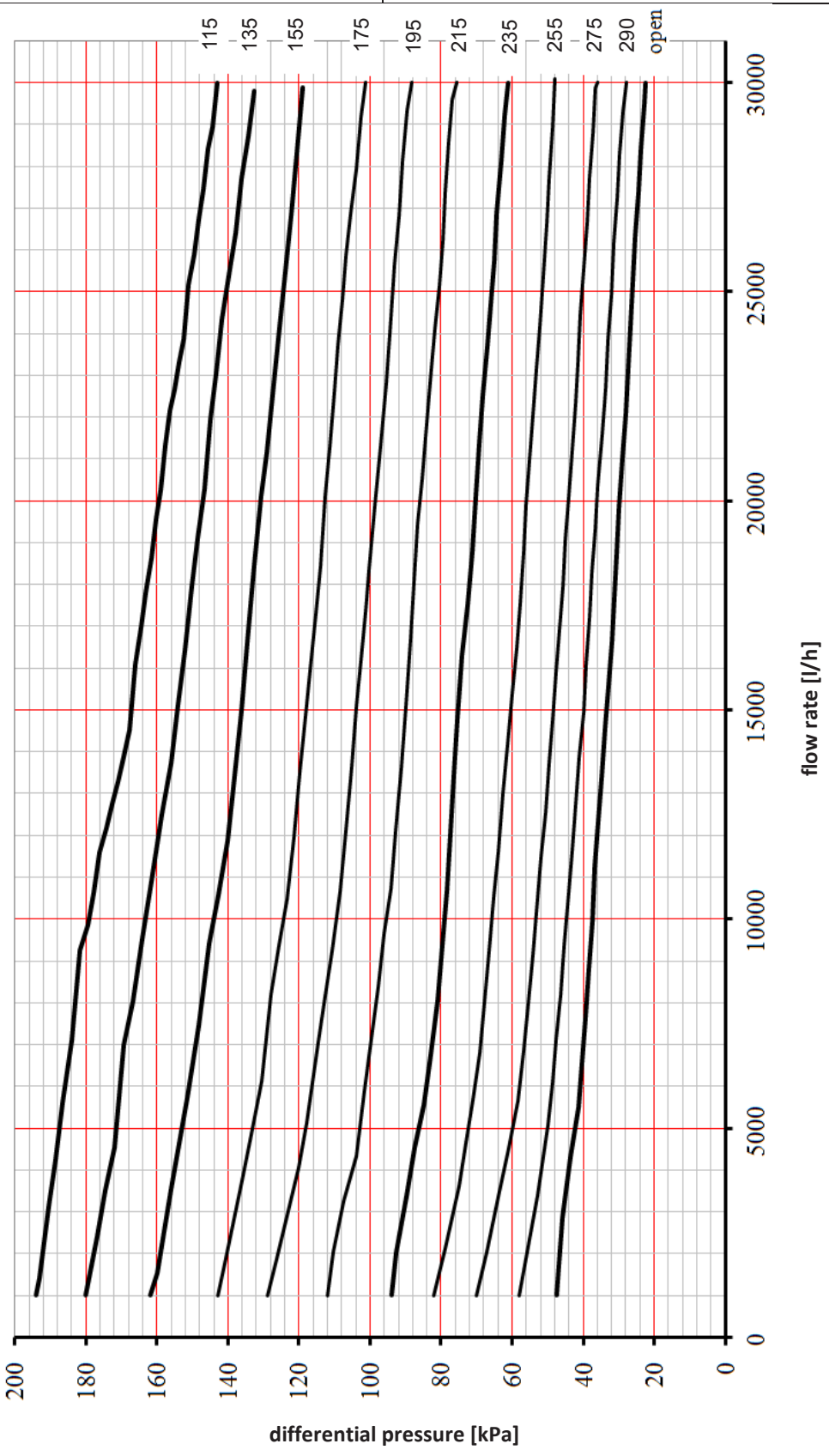
Material
Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component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

Accessory and spare part

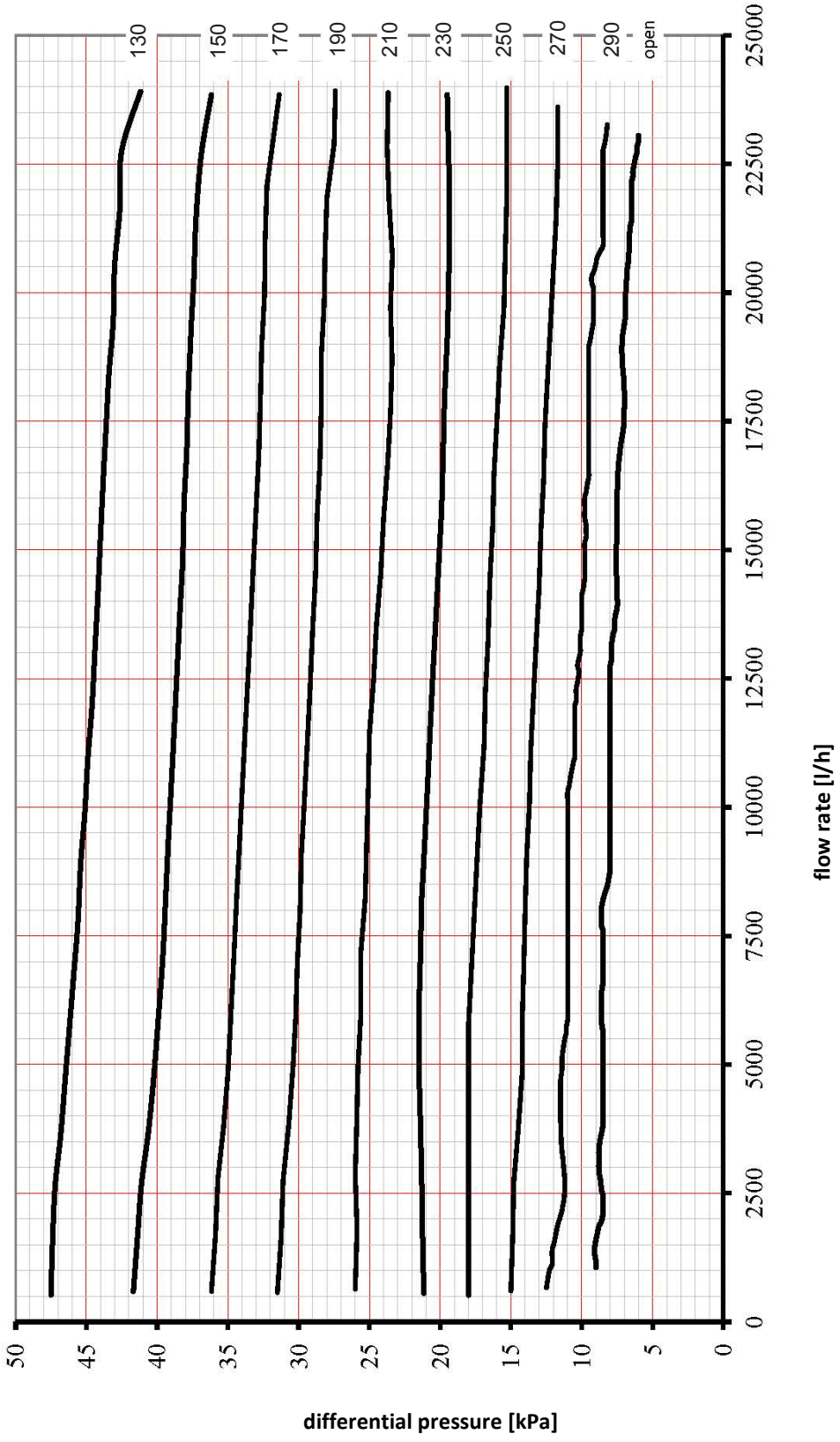


F **6307** 01 Capillary for differential pressure controller with connection nipple 3/8“ x 1/4“.
The length is 1.5 m.

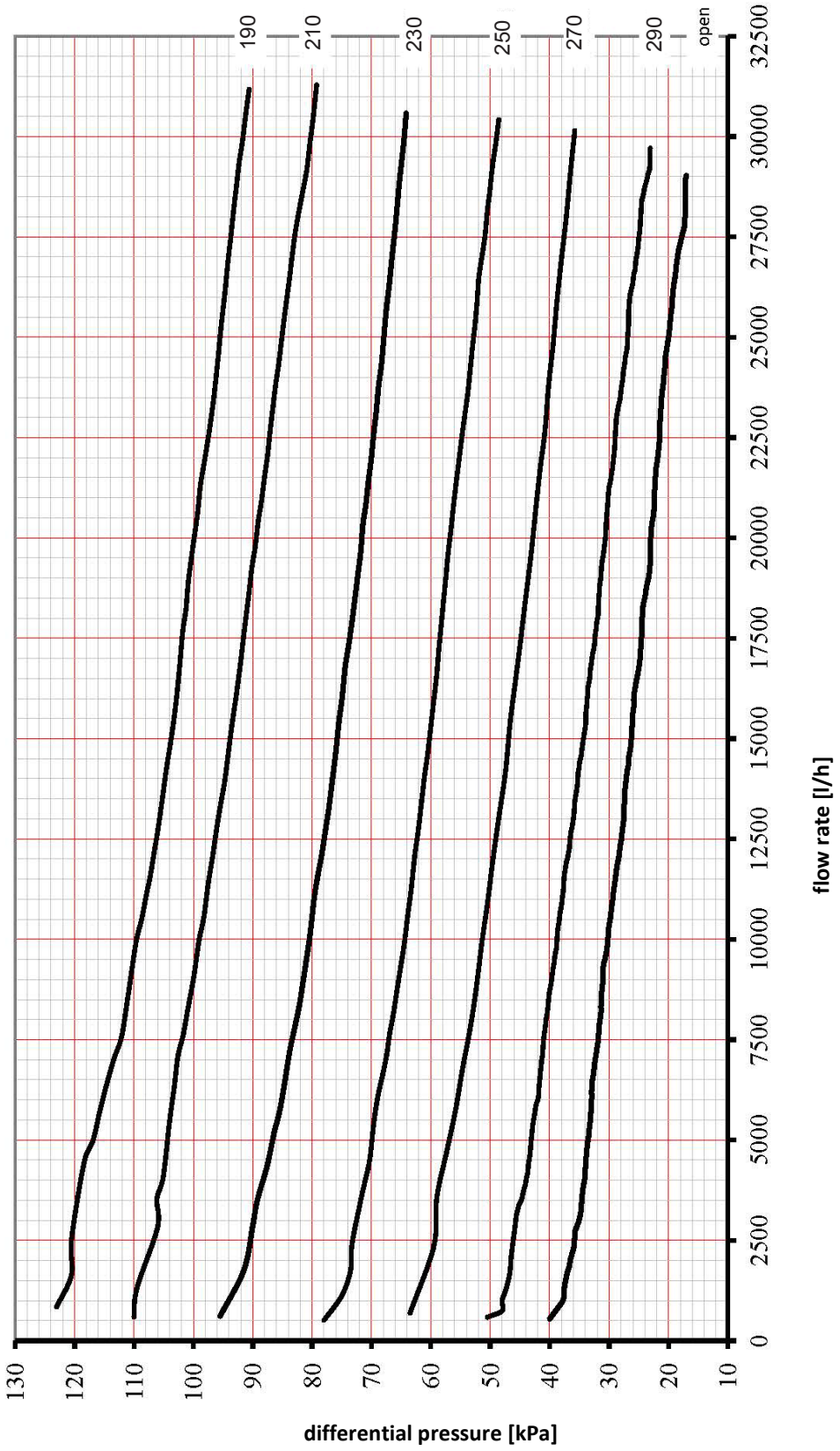
HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 26	Dim. DN 50



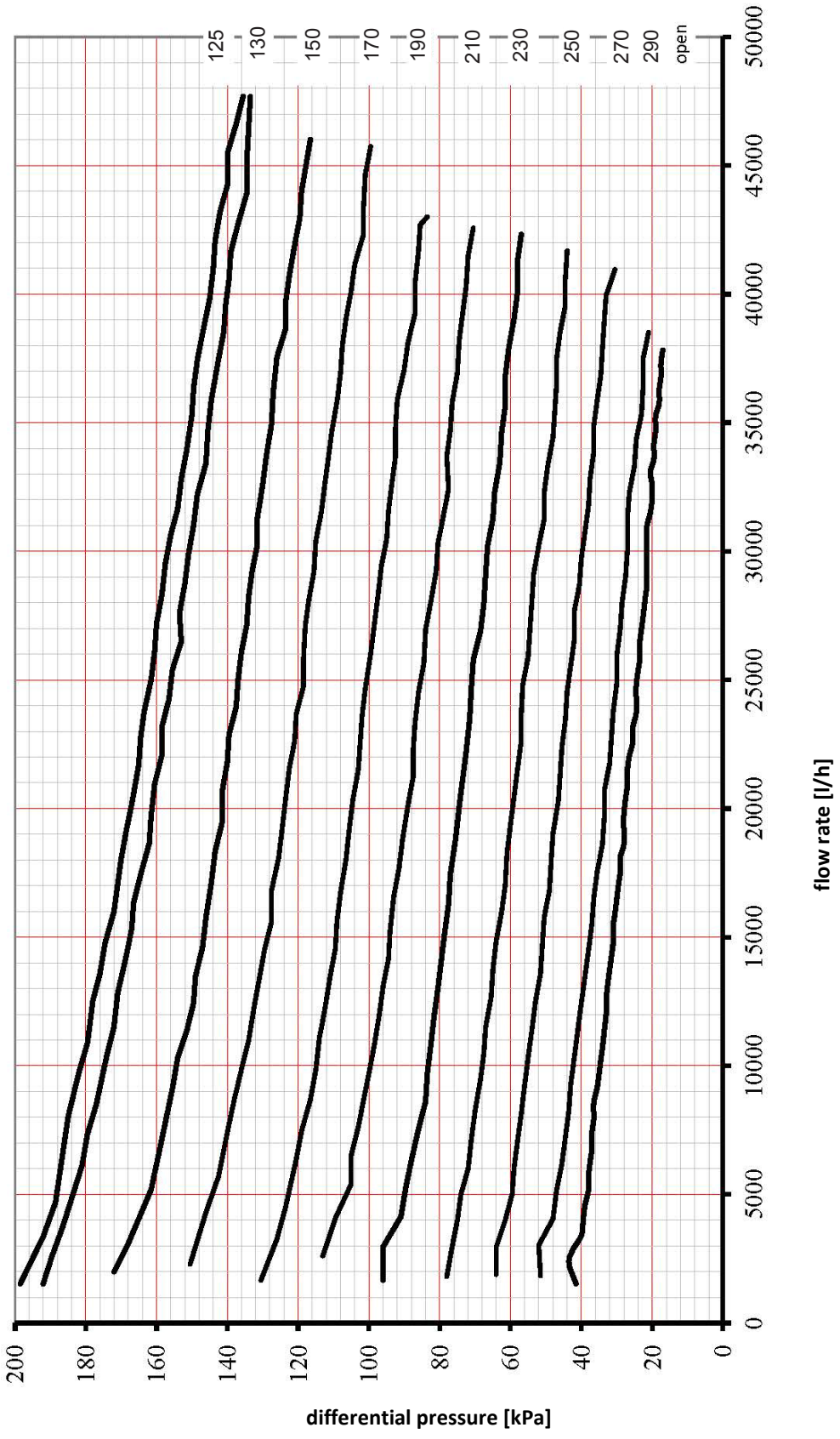
HERZ standard diagram	HERZ F **4007** 10 – 40 kPa
Order Nr.: F **4007** 07	Dim. DN 65



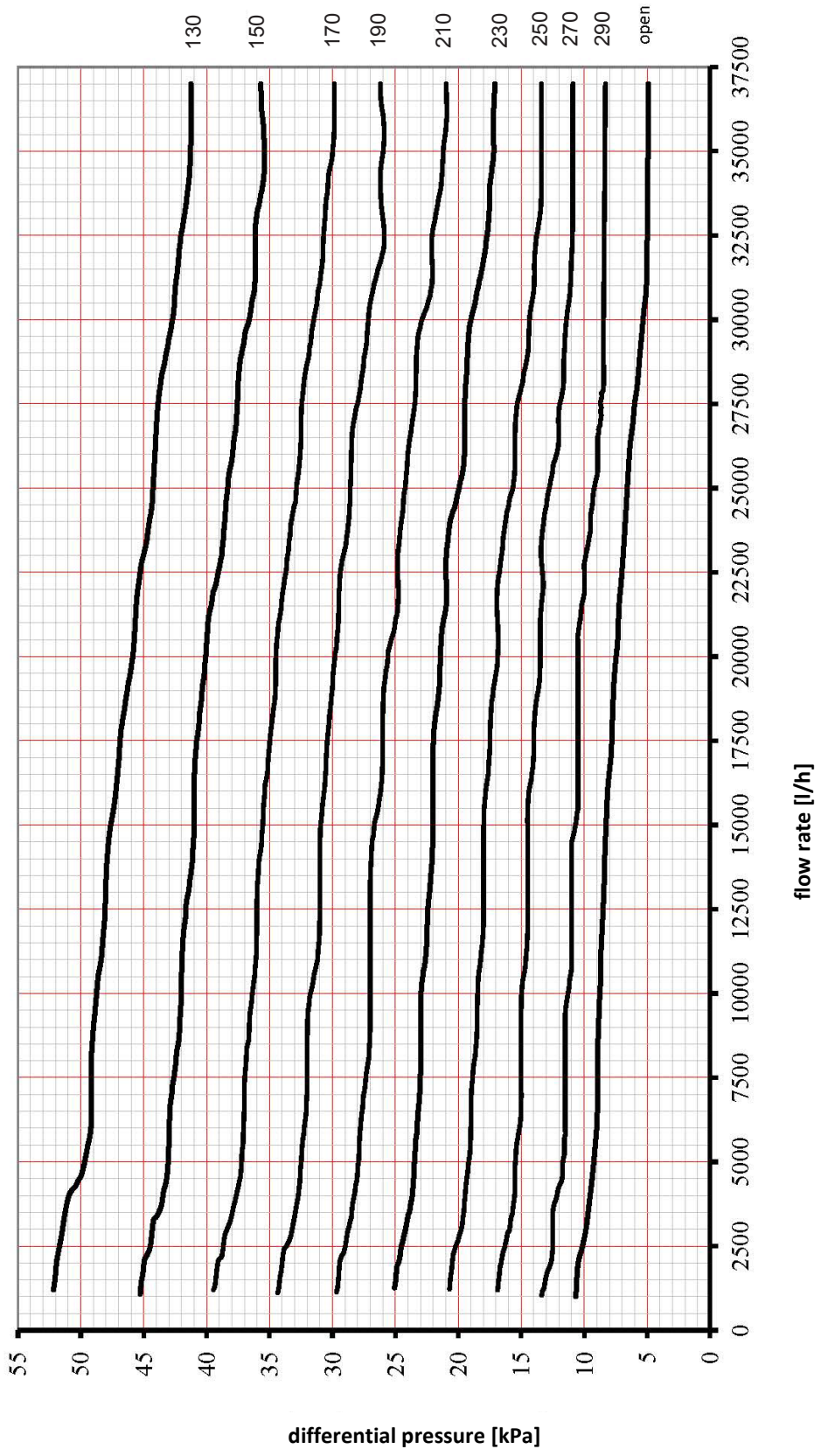
HERZ standard diagram	HERZ F **4007** 20 – 80 kPa
Order Nr.: F **4007** 17	Dim. DN 65



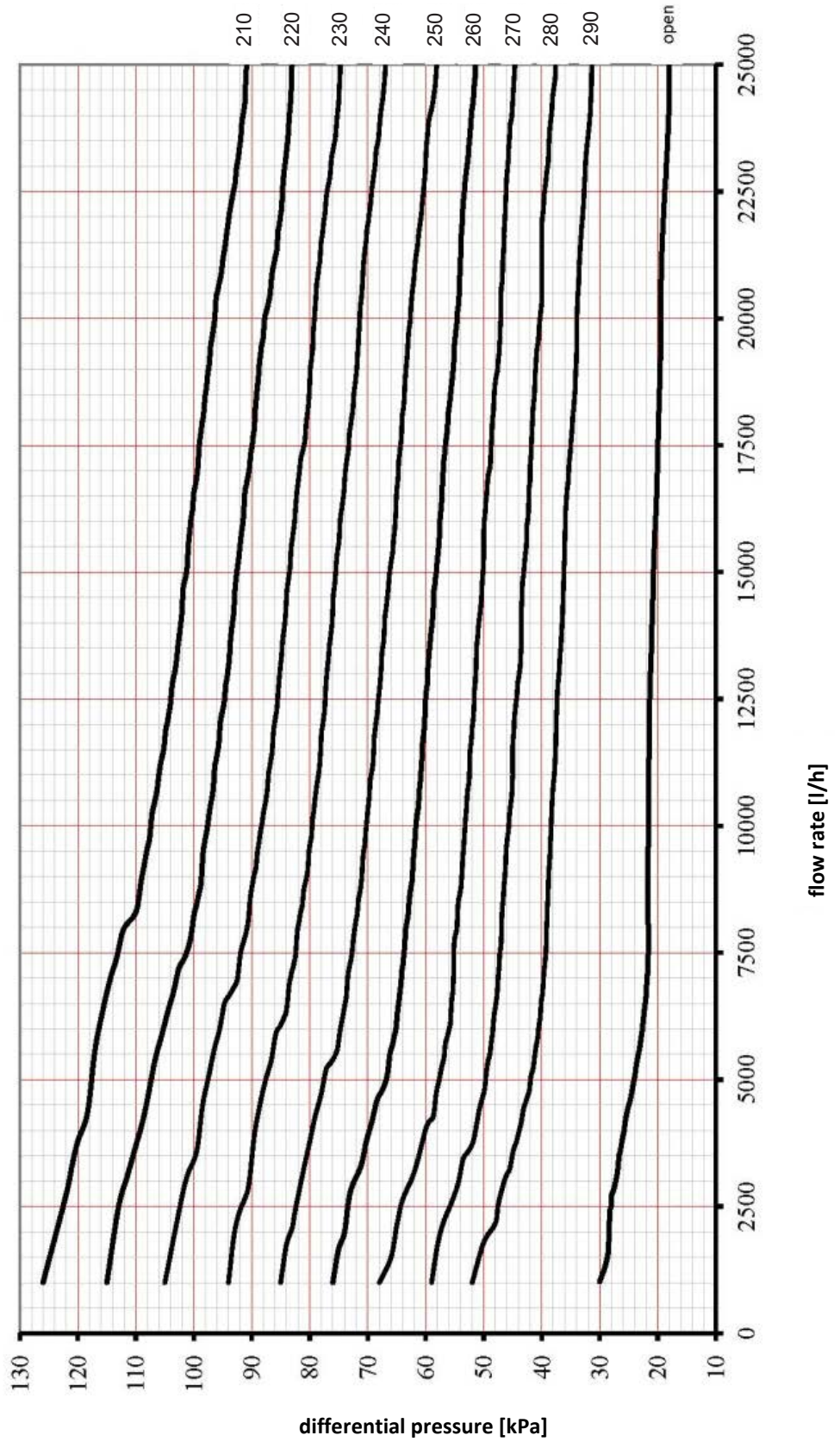
HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 27	Dim. DN 65



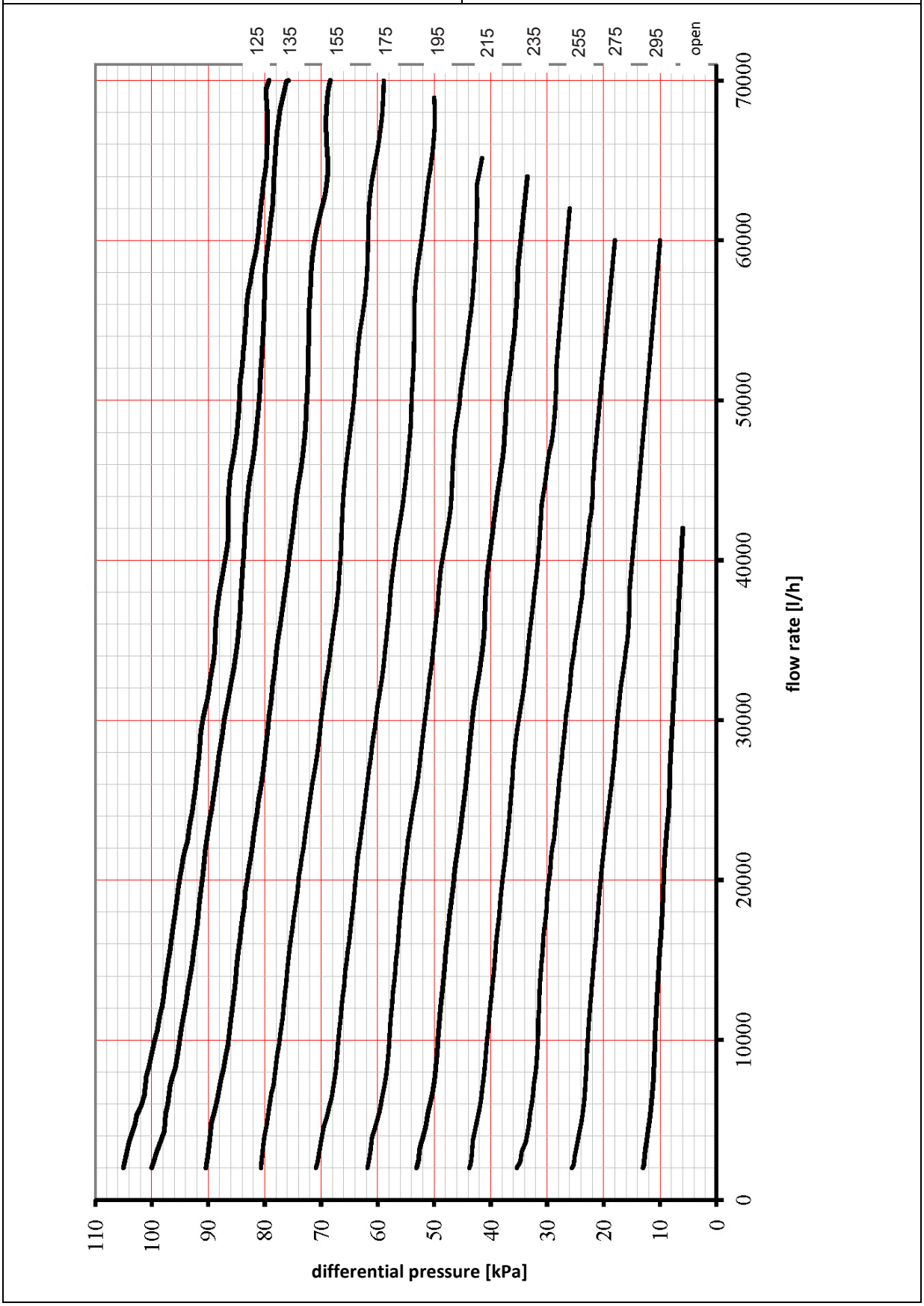
HERZ standard diagram	HERZ F **4007** 10 – 40 kPa
Order Nr.: F **4007** 08	Dim. DN 80



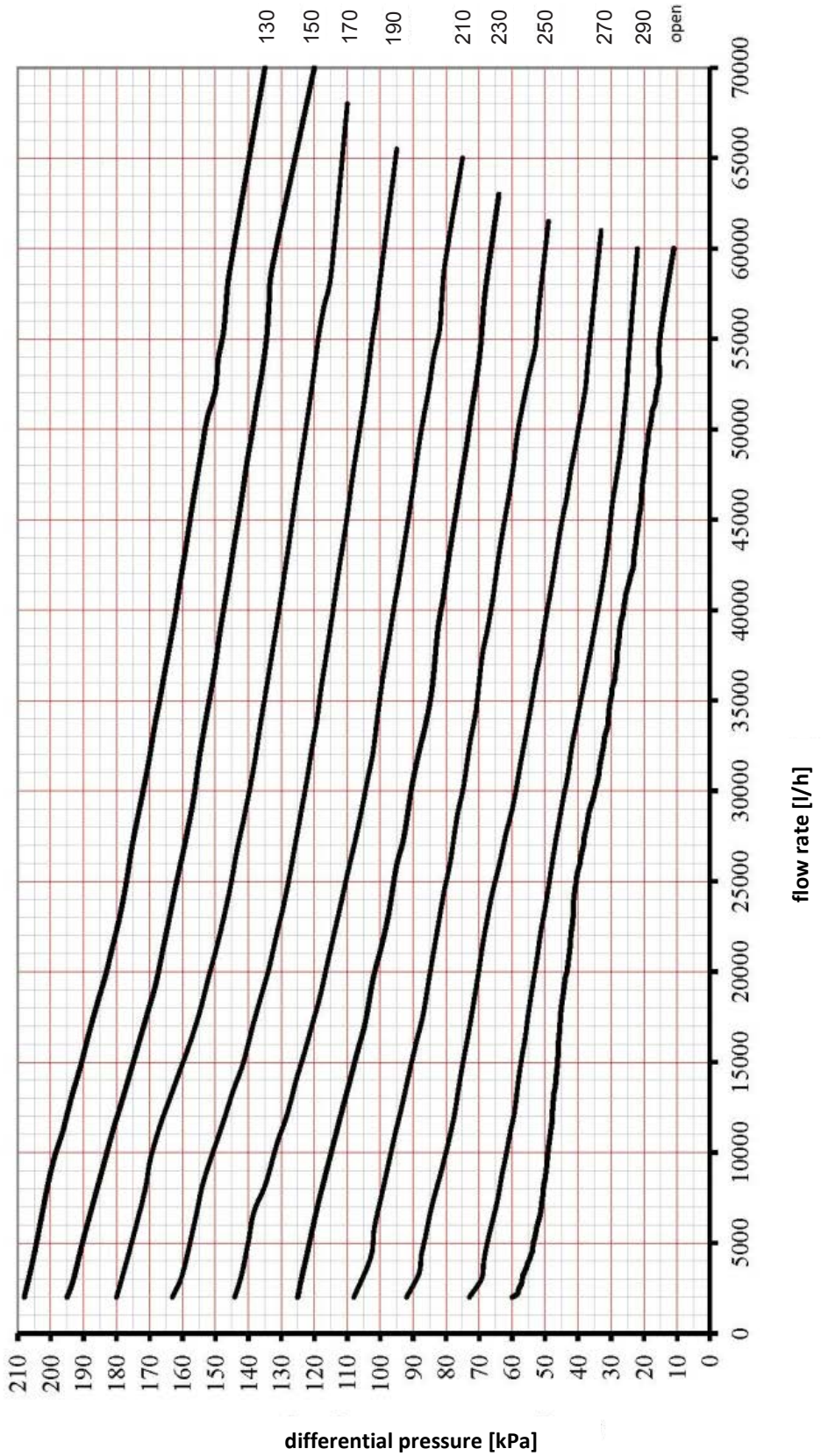
HERZ standard diagram	HERZ F **4007** 20 – 80 kPa
Order Nr.: F **4007** 18	Dim. DN 80



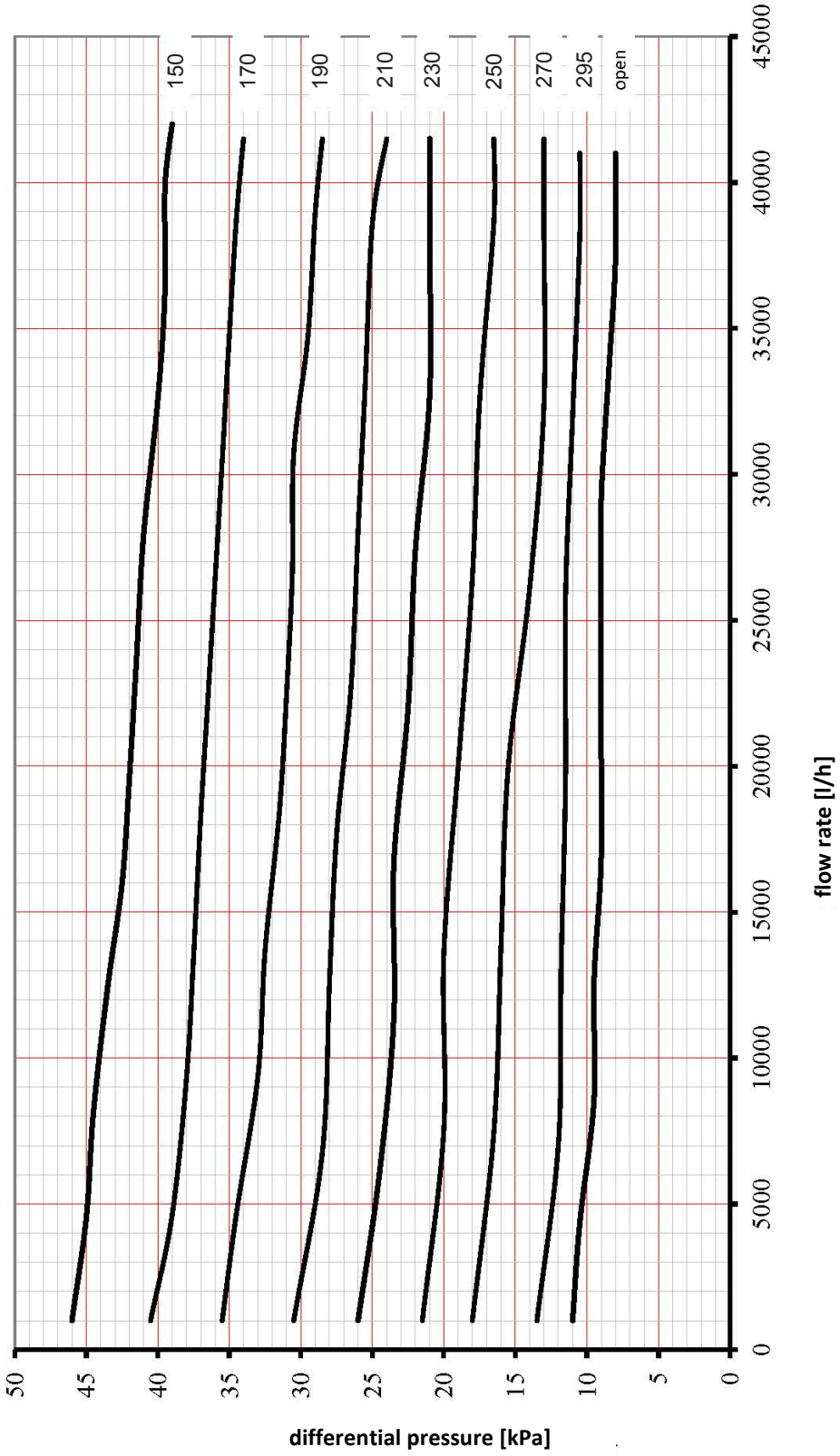
HERZ standard diagram	HERZ F **4007** 20 – 80 kPa
Order Nr.: F **4007** 38	Dim. DN 80 HF



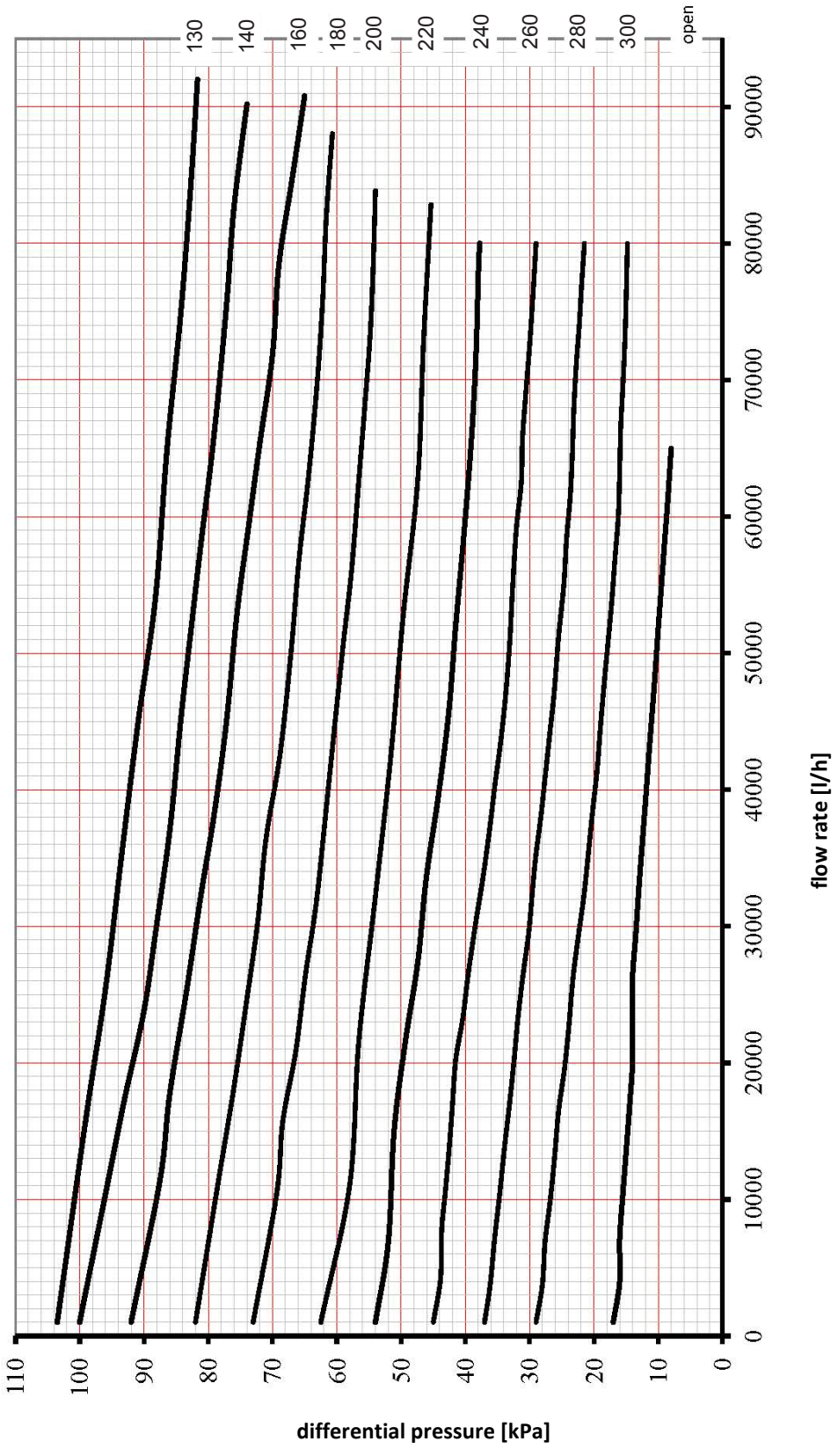
HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 28	Dim. DN 80



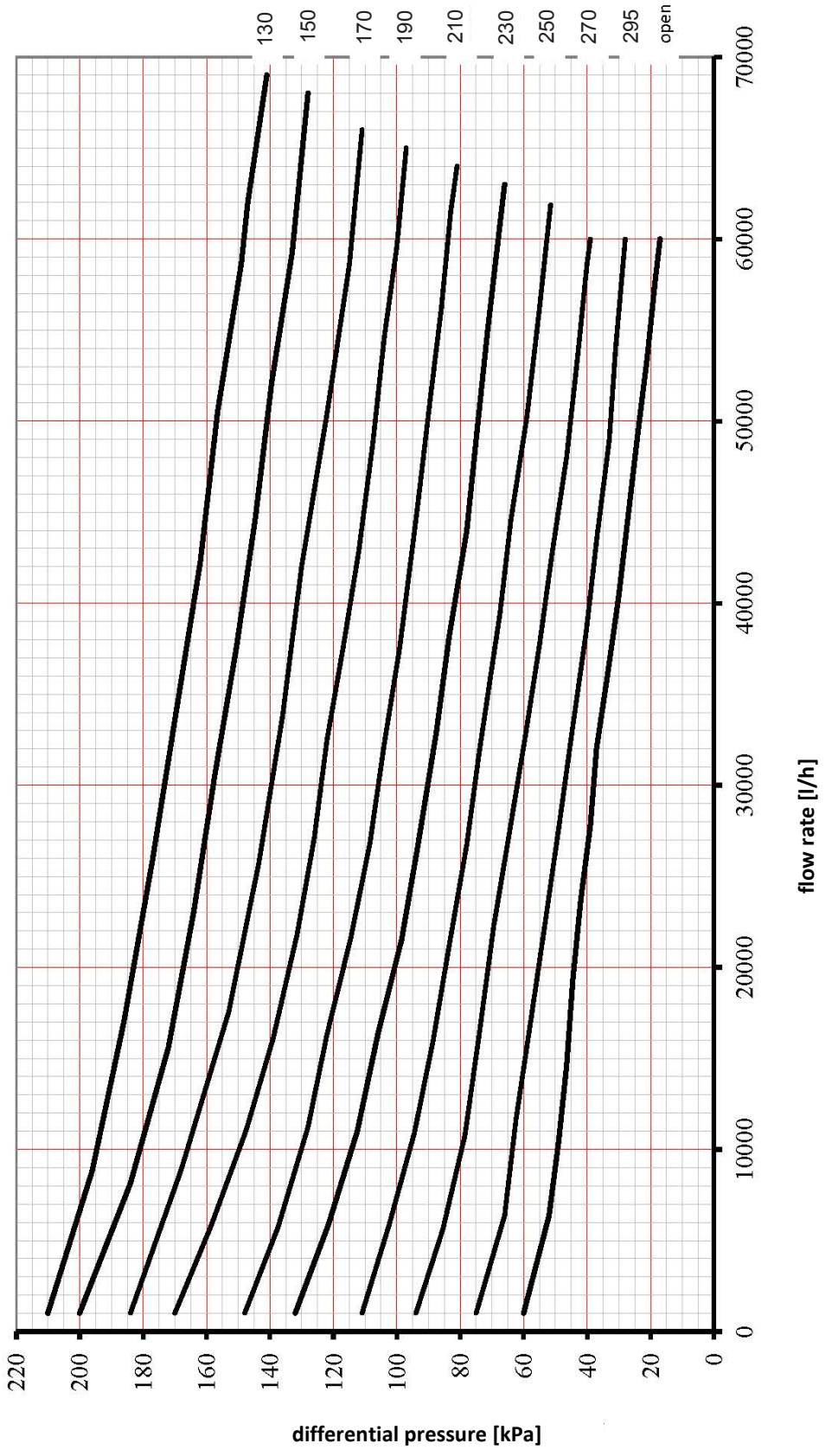
HERZ standard diagram	HERZ F **4007** 10 – 40 kPa
Order Nr.: F **4007** 09	Dim. DN 100



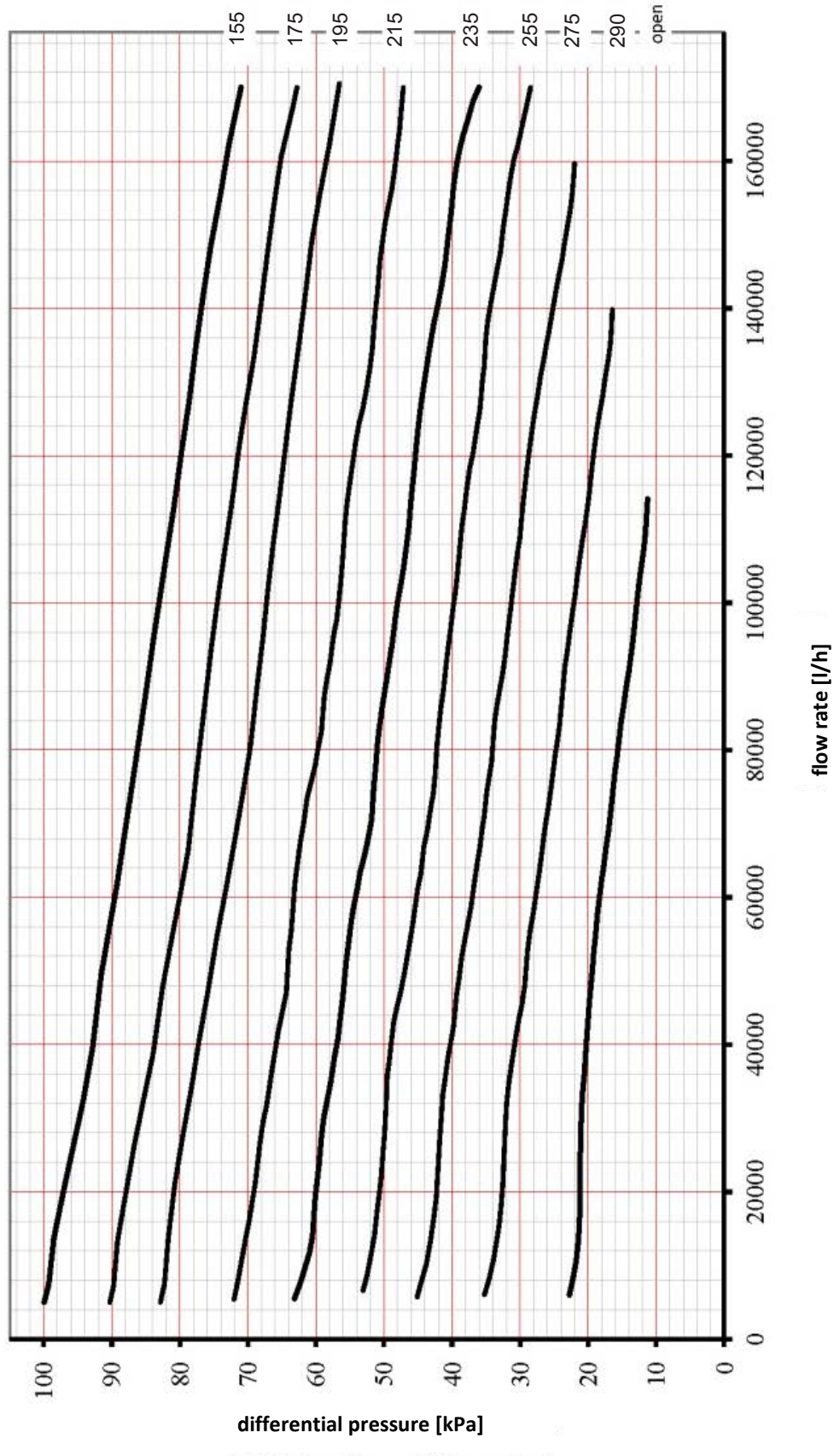
HERZ standard diagram	HERZ F **4007** 20 – 80 kPa
Order Nr.: F **4007** 19	Dim. DN 100



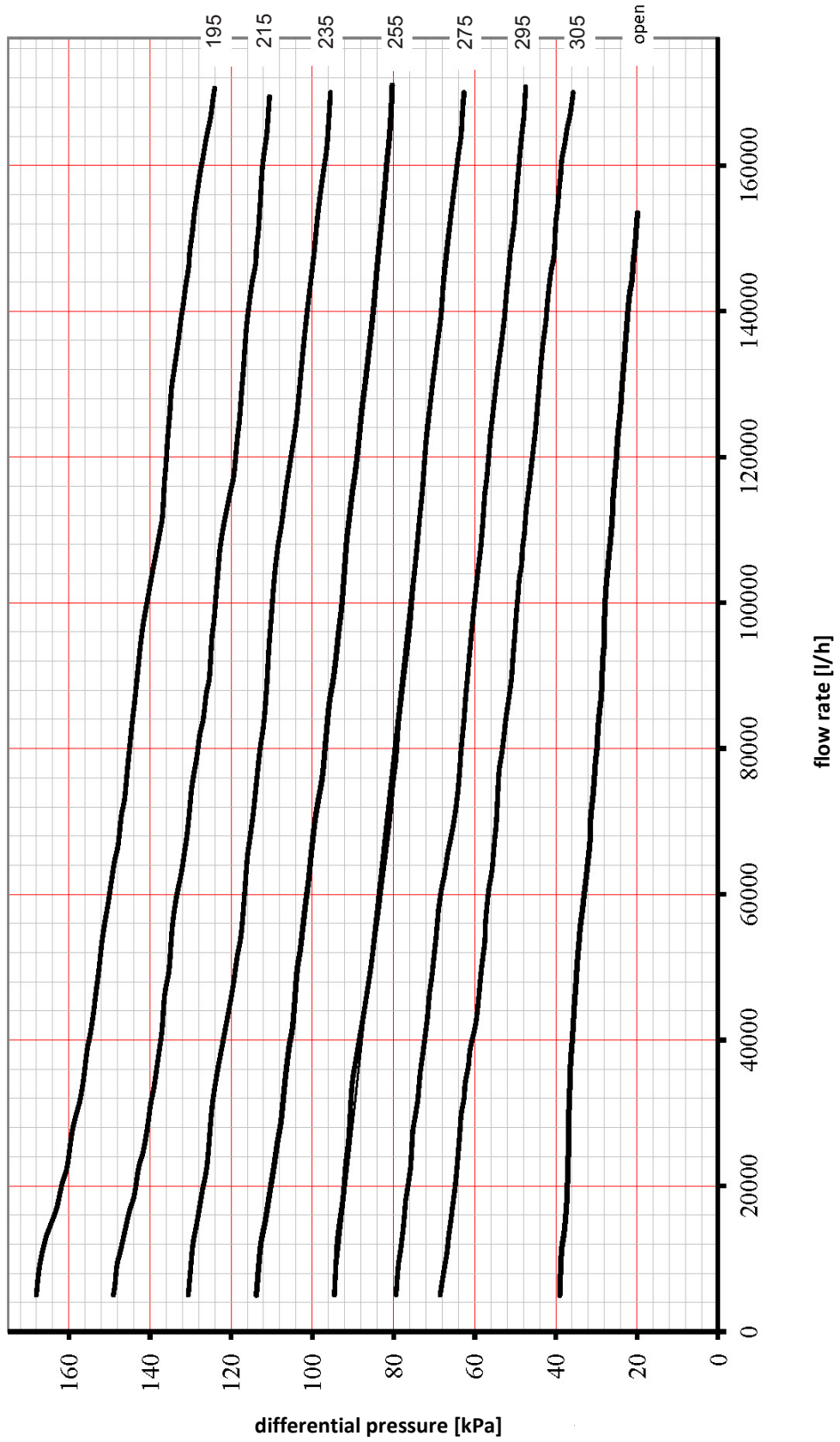
HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 29	Dim. DN 100



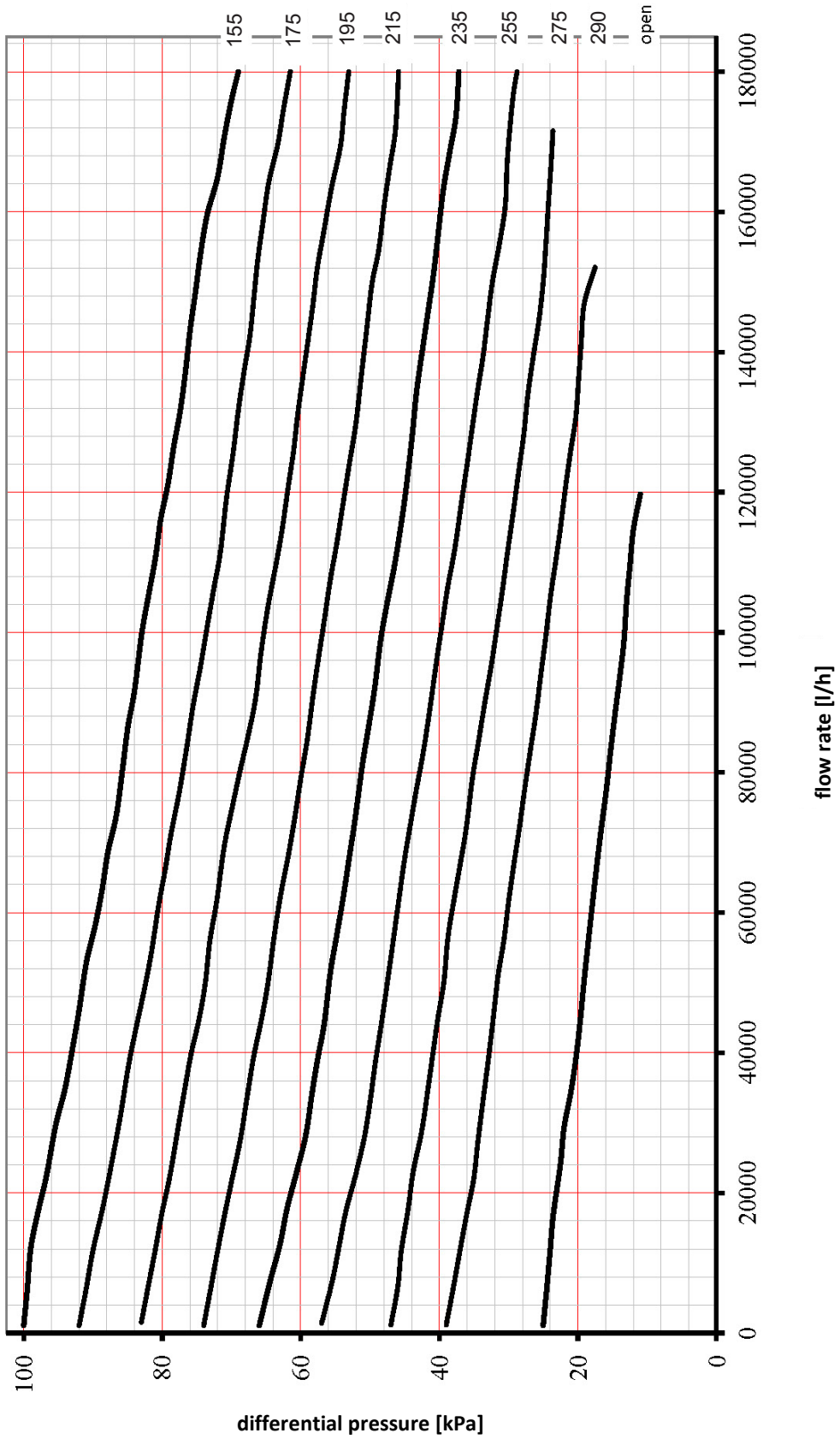
HERZ standard diagram	HERZ F **4007** 20 – 80 kPa
Order Nr.: F **4007** 20	Dim. DN 125



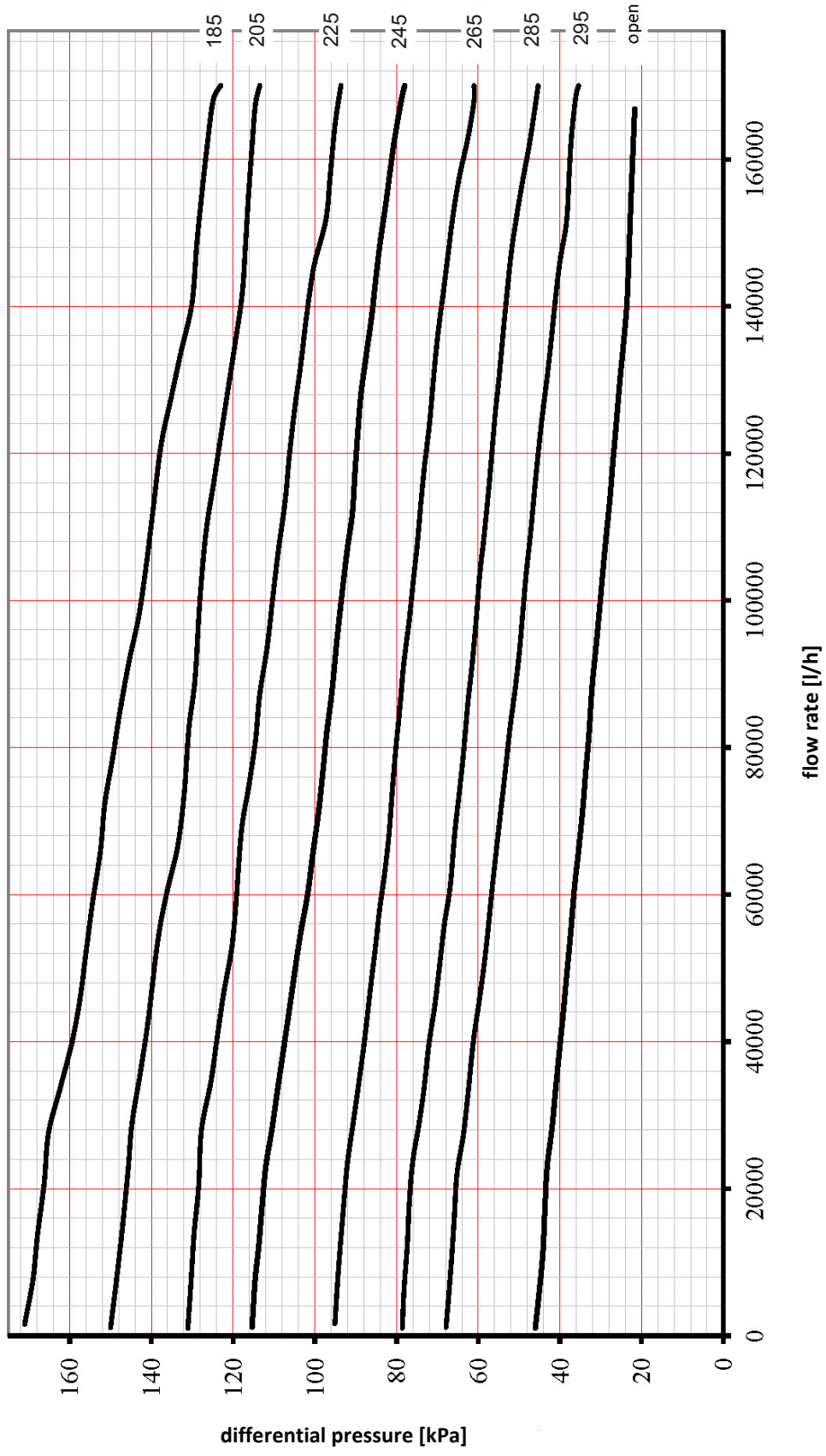
HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 30	Dim. DN 125



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



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



HERZ standard diagram	HERZ F **4007** 50 – 150 kPa
Order Nr.: F **4007** 32	Dim. DN 200