

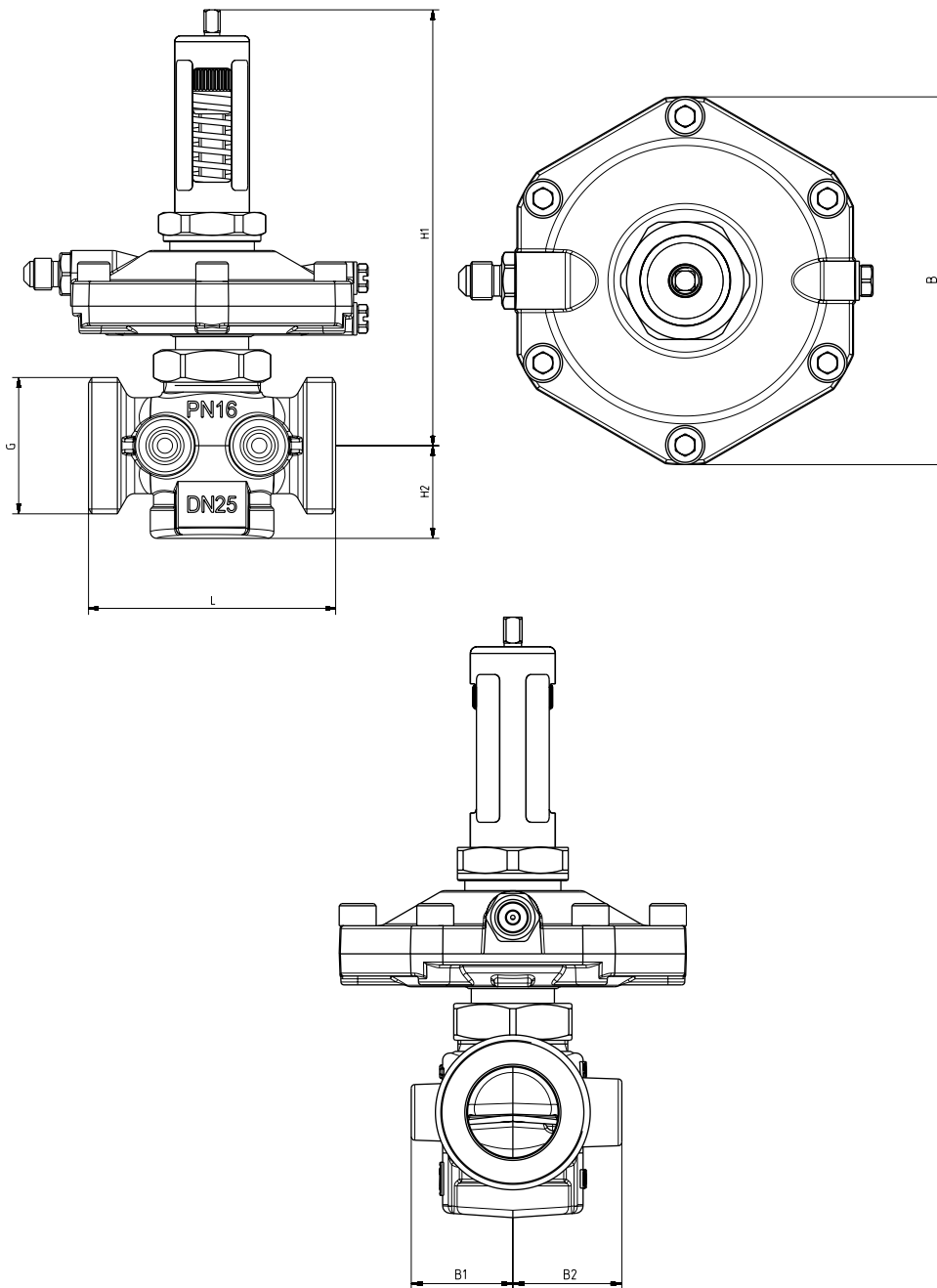
HERZ Regulating valve 4002

Differential pressure controller

Standard specification sheet

4002_4X-6X

Issue 1010



Dimensions in mm

	DN	G	L	H1	H2	B	B1	B2
1 4002 41	15	3/4 G	66	133	28	94	25.5	28.5
1 4002 61								
1 4002 42	20	1 G	76	134	28.5	94	27.5	29.5
1 4002 62								
1 4002 43	25	5/4 with flat seal	76	134	28.5	94	27.5	29.5
1 4002 63								
1 4002 44	32	1½ with flat seal	114	150	47	94	-	-
1 4002 64								
1 4002 45	40	1¾ with flat seal	132	160	55	94	-	-
1 4002 65								
1 4002 46	50	2¾ with flat seal	140	160	55	94	-	-
1 4002 66								

We reserve the right to make changes resulting from HERZ's ongoing development policy.

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Maximum operating pressure	16 bar
Test pressure	
Maximum differential pressure on the body	2 bar
Minimum operating temperature	2 °C (pure water)
Minimum operating temperature	-20 °C (frost protection)
Maximum operating temperature	100 °C
Differential pressure range 4002 4x	5 - 30 kPa
Differential pressure range 4002 6x	25 - 60 kPa

Technical data

The differential pressure controller is a straight-version linear controller and works without auxiliary power. The nominal differential pressure can be continuously adjusted from 50 to 300 mbar and 250 to 600 mbar, respectively. The value for the setting can be read from the diagram. The nominal set point is factory preset to a minimum. If necessary, the nominal set point can be adjusted using the pre-setting key (1 **4002** 01). A capillary (1000 mm) is included and should be connected to the circuit regulating valve in the flow.

Application

Body: DZR brass
 Membranes and O-rings: EPDM

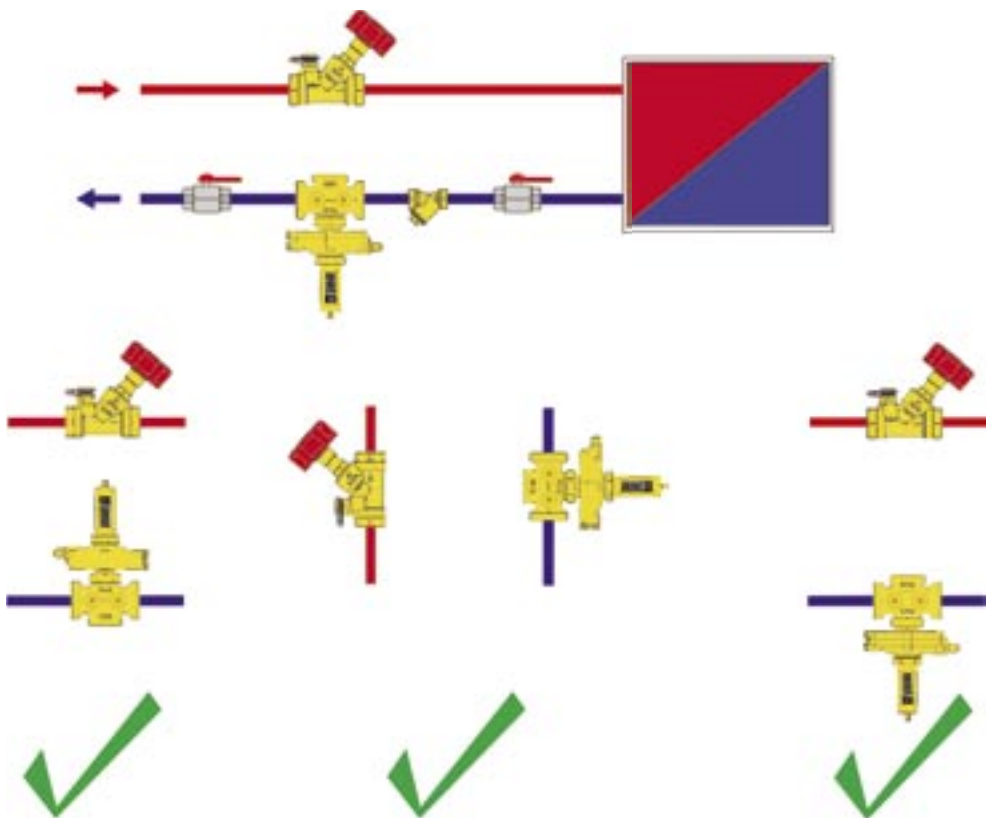
Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards
 Ethylene and propylene glycol can be mixed to a ratio of 15 - 45 vol. [%].

Materials

The valve is fitted in the return flow in any position. The arrow on the valve body should align with the direction of flow.

It is recommended that an isolation valve is fitted both upstream and downstream of the differential pressure controller.

Installation



4002_4x			4002_6x			kvs values			
DN 15	2.66 m³/h	DN 32	9.48 m³/h	DN 15	2.66 m³/h	DN 32	9.48 m³/h		
DN 20	4.36 m³/h	DN 40	14.95 m³/h	DN 20	4.36 m³/h	DN 40	14.95 m³/h		
DN 25	5.38 m³/h	DN 50	14.95 m³/h	DN 25	5.38 m³/h	DN 50	14.95 m³/h		

4117	HERZ-STRÖMAX circuit control valves, angle version	Accessories and spare parts
4217	HERZ- STRÖMAX circuit control valves, straight version	
4017	HERZ- STRÖMAX circuit control valves with integrated metering orifice plate	
4125	HERZ shut-off valves, angle version	
4115	HERZ shut-off valves, angle version	
4215	HERZ shut-off valves, straight version, also variants with male threads. For details please refer to the corresponding data sheets.	
1 0284 01	test point for HERZ circuit control valve, blue cap (return)	
1 0284 02	test point for HERZ circuit control valve, red cap (flow)	
1 0284 11	test point for HERZ circuit control valve, extended model, blue cap (return)	
1 0284 12	test point for HERZ circuit control valve, extended model, red cap (flow)	
1 0284 21	HERZ test point with draining function, blue cap (return)	
1 0284 22	HERZ test point with draining function, red cap (flow)	
1 0284 00	test point adapter set	
1 0273 09	screw plug 1/4	
1 4002 0x - 182	diaphragm for differential pressure controller (5-30 kPa)	
1 4002 0x - 183	diaphragm for differential pressure controller (25-60 kPa)	
1 4002 01	HERZ pre-setting key for differential pressure controller	

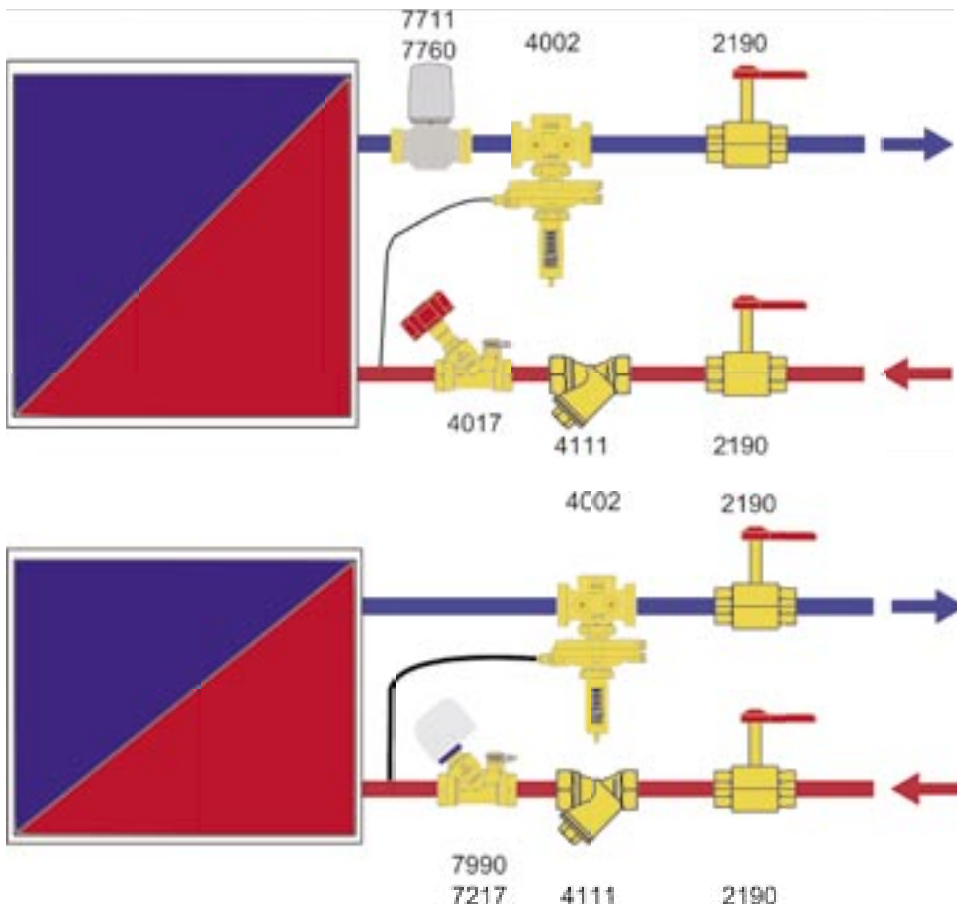
Junction press screw fitting		Order number
with flat seal	14 x 2 - G 3/4	P 7014 41
	16 x 2 - G 3/4	P 7016 41
	18 x 2 - G 3/4	P 7018 41
	20 x 2 - G 3/4	P 7020 41
	16 x 2 - G 1	P 7016 42
	18 x 2 - G 1	P 7018 42
	20 x 2 - G 1	P 7020 42
	26 x 3 - G 1	P 7026 42
	26 x 3 - G 1¼	P 7026 43
	32 x 3 - G 1¼	P 7032 43
	40 x 3,5 - G 1¼	P 7040 43
	32 x 3 - G 1½	P 7032 44
	40 x 3,5 - G 1½	P 7040 44
	50 x 4 - G 1½	P 7050 44
with cone seal	14 x 2 - G 3/4	P 7014 81
	16 x 2 - G 3/4	P 7016 81
	18 x 2 - G 3/4	P 7020 81
	20 x 2 - G 3/4	P 7020 81

1 6220 ..	Iron pipe connection, consisting of nut, seal and pipe nipple with male pipe thread	Connection elements
1 6236 ..	Soldering connection, consisting of nut, seal and soldering nipple	
1 6240 ..	Welding connection, consisting of nut, seal and welding nipple	
1 6210 ..	Iron pipe connection consisting of nut, seal and pipe nipple with male pipe thread	
1 6235 ..	Soldering connection, consisting of nut, seal and soldering nipple	

Considering how the fitting is used, clean workmanship is required. A HERZ strainer (4111) should be fitted to prevent impurities.	Tips
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Two test points are fitted on the same side of the valve and factory sealed. Thanks to this arrangement they are easily accessible and measurement devices can be quickly fitted, no matter in what position the flow rate controller has been installed.	Test points
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The presetting position of the control unit is clearly legible on the display. The setting is easily adjusted. Once set, the differential pressure controller can always be adjusted to any position.	Pre-setting
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Please note: all diagrams are indicative in nature and do not claim to be complete.

All details contained in this brochure correspond to that available at the time of printing and are for information only. We reserve the right to make changes resulting from HERZ's ongoing development policy. The illustrations are understood to be indicative and may therefore vary visually from the actual products. Any differences in colour are due to the printing technology used. Products may also vary according to the country. We reserve the right to make changes to technical specifications and functions. For questions please contact your nearest HERZ office.

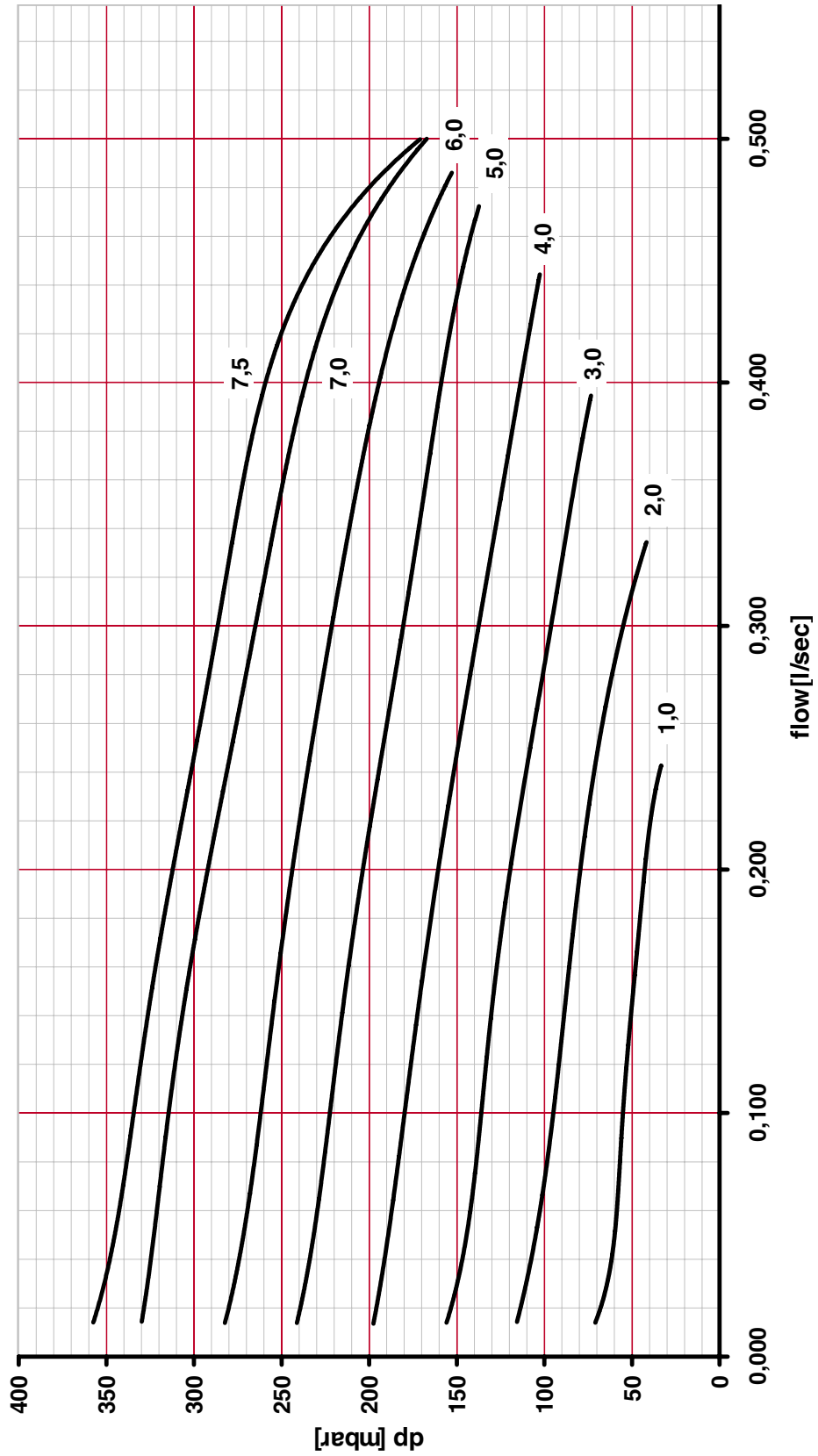
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 41**

Dim. DN 15

1 4002 41 - presetting scale 1,0-7,5



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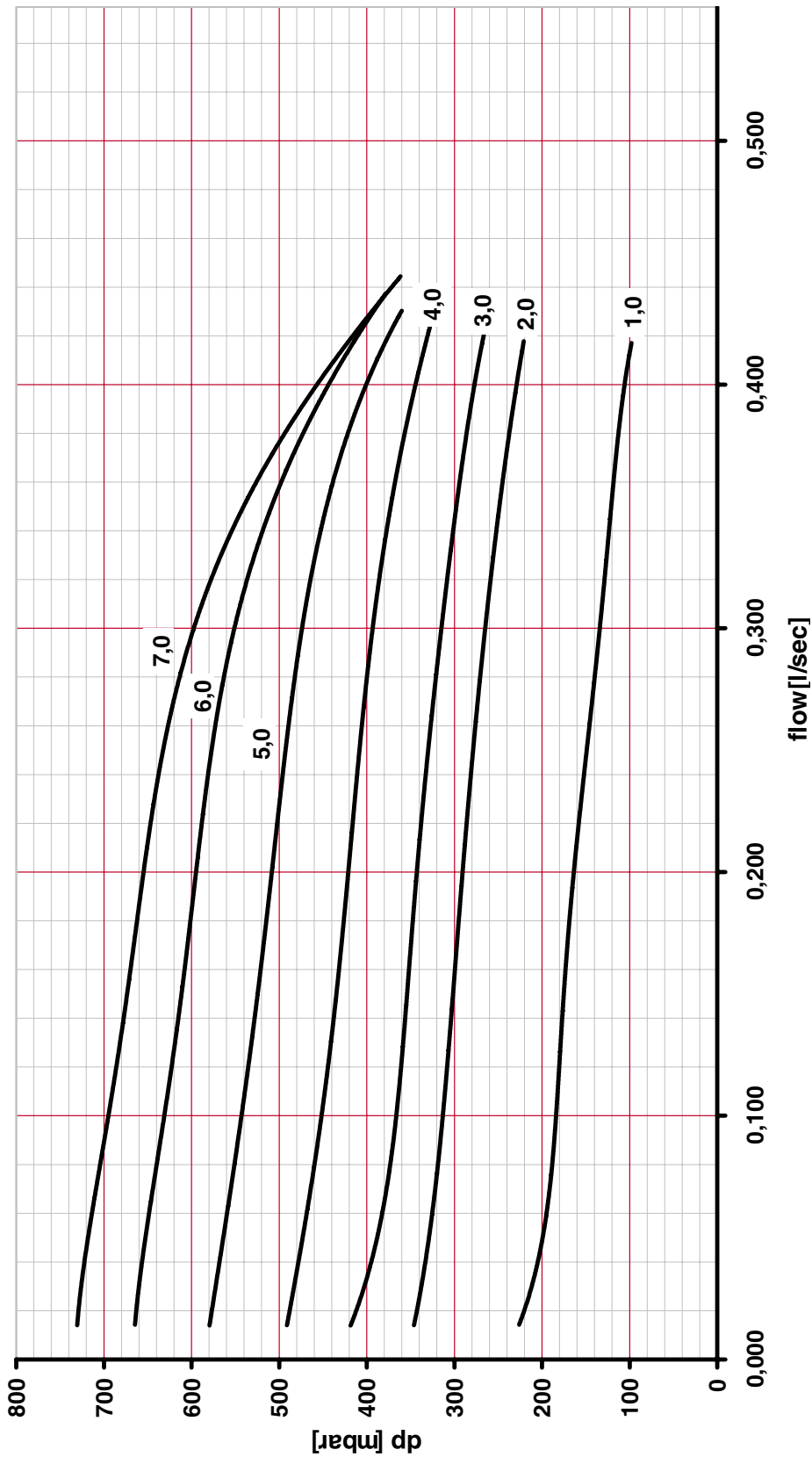
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 61**

Dim. DN 15

1 4002 61 - presetting scale 1,0-7,0



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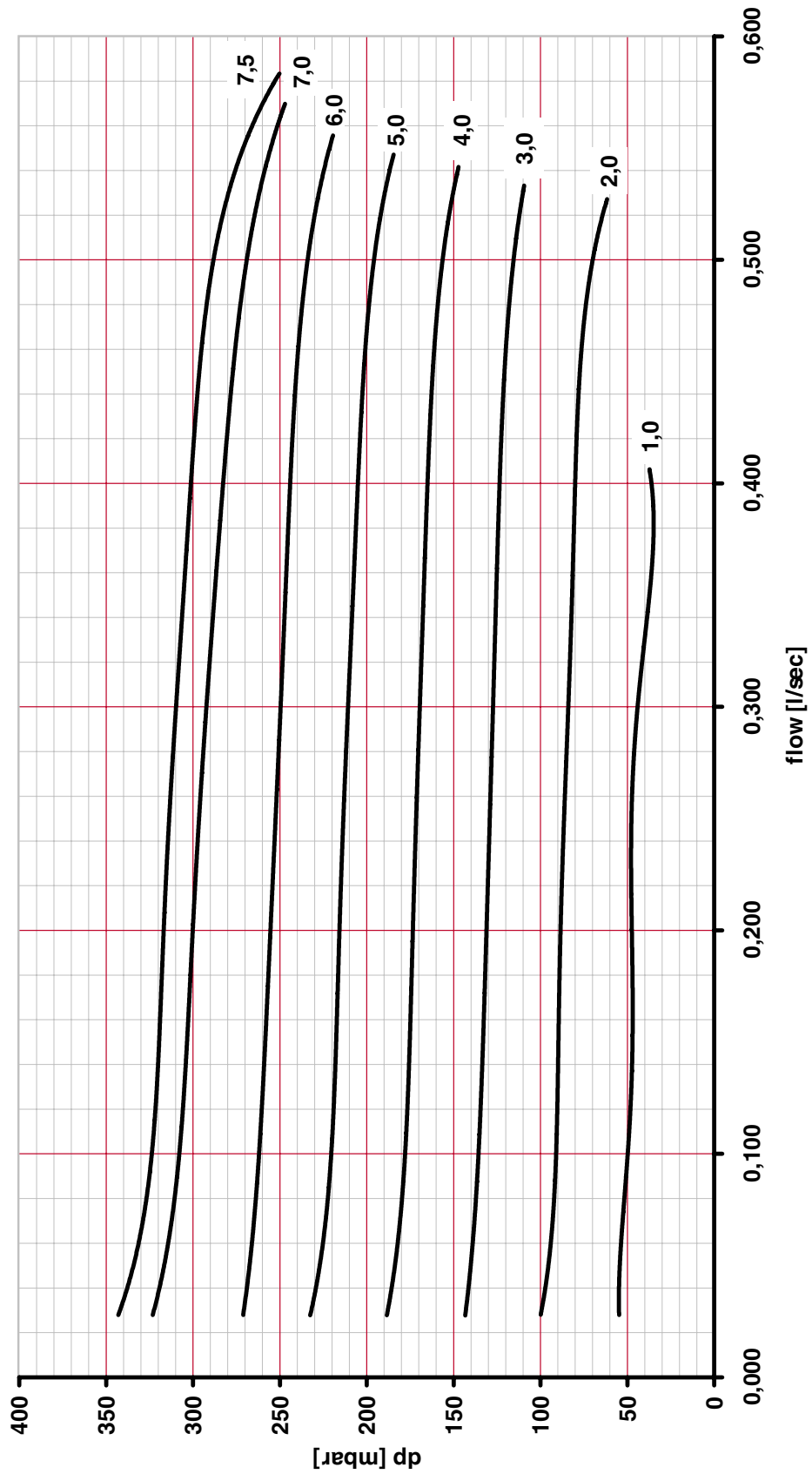
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 42**

Dim. DN 20

1 4002 42 - presetting scale 1,0-7,5



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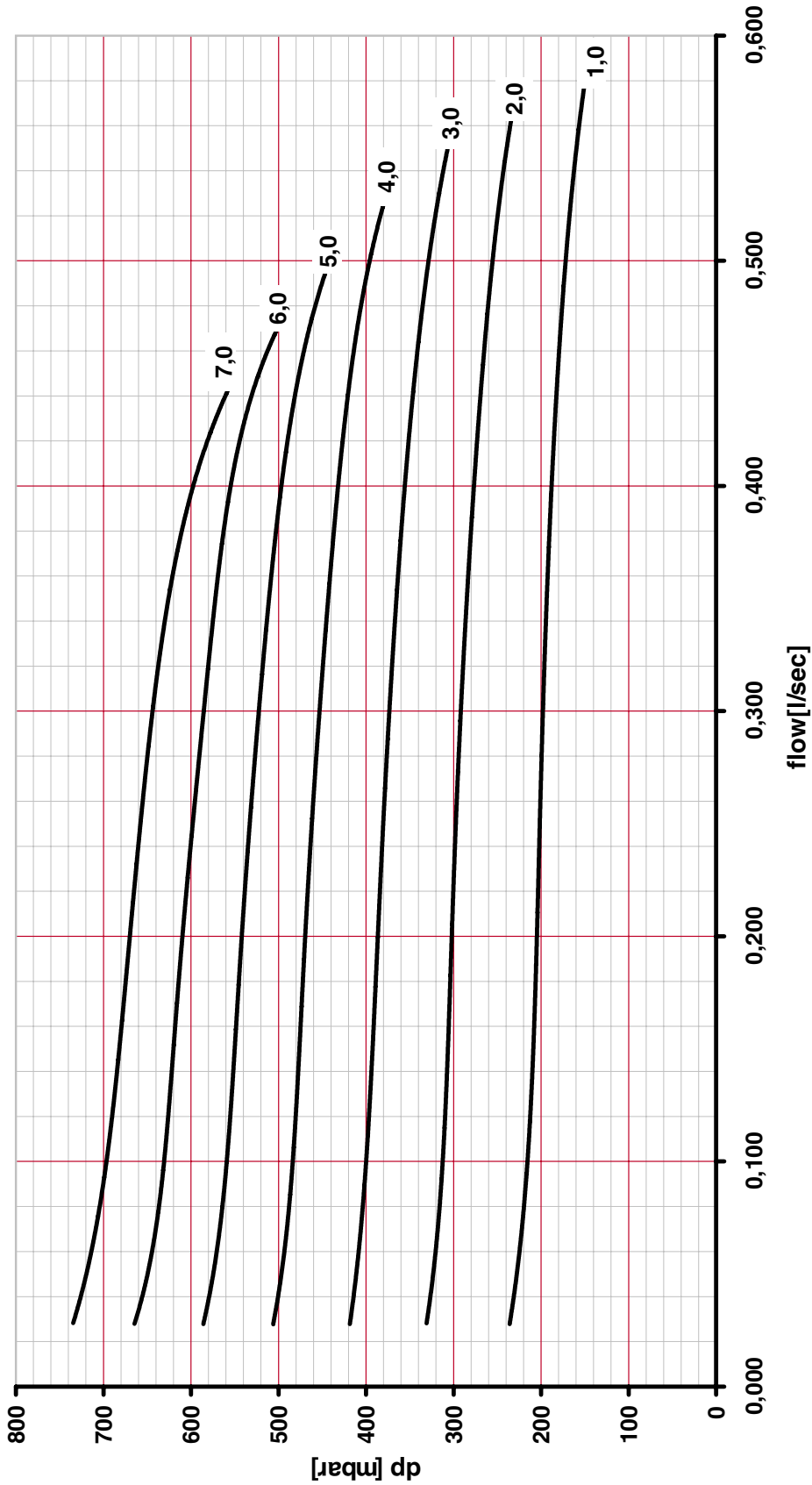
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 62**

Dim. DN 20

1 4002 62 - presetting scale 1,0-7,0



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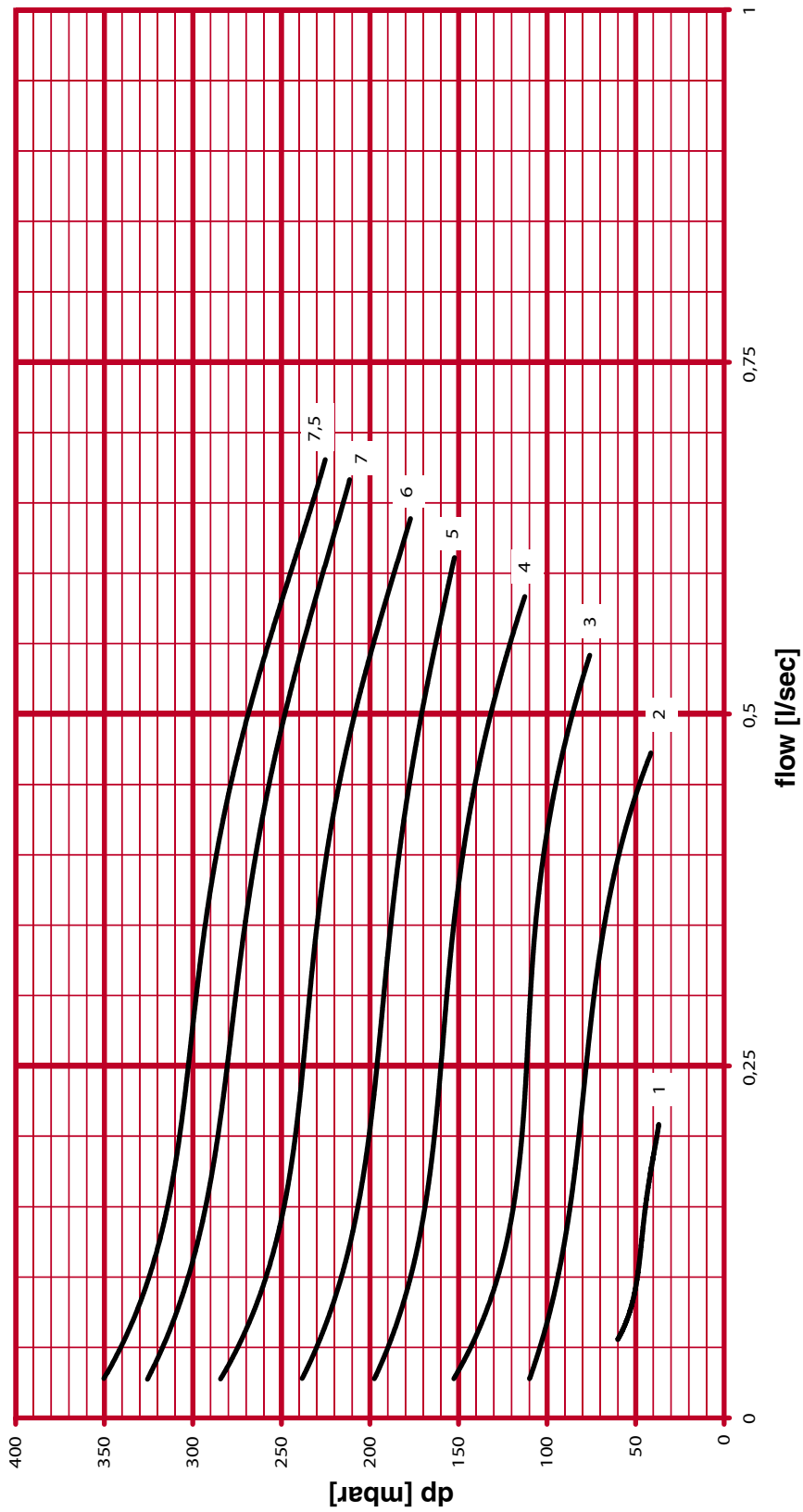
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 43**

Dim. DN 25

1 4003 43 - pressting scale 1,0-7,5



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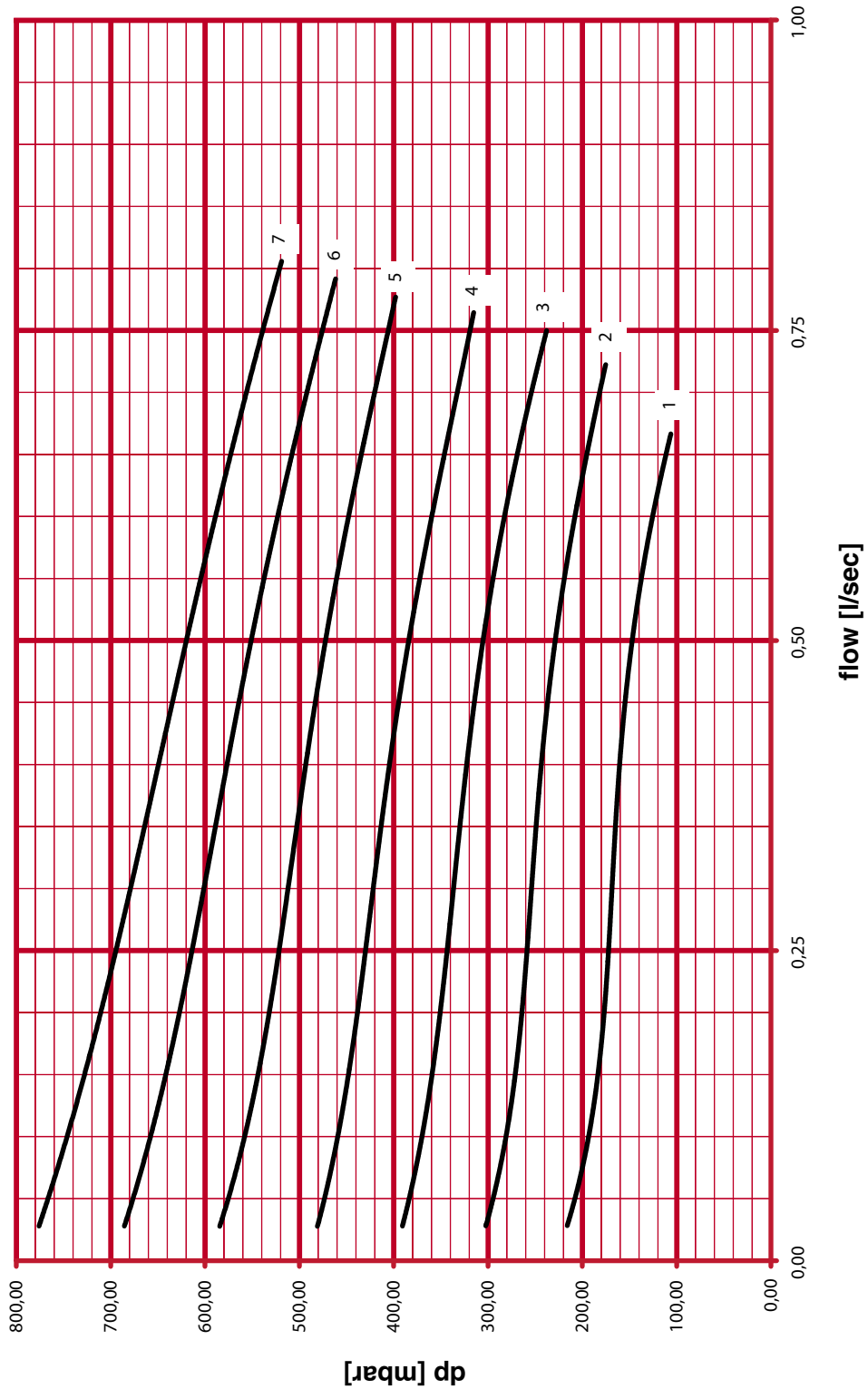
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 63**

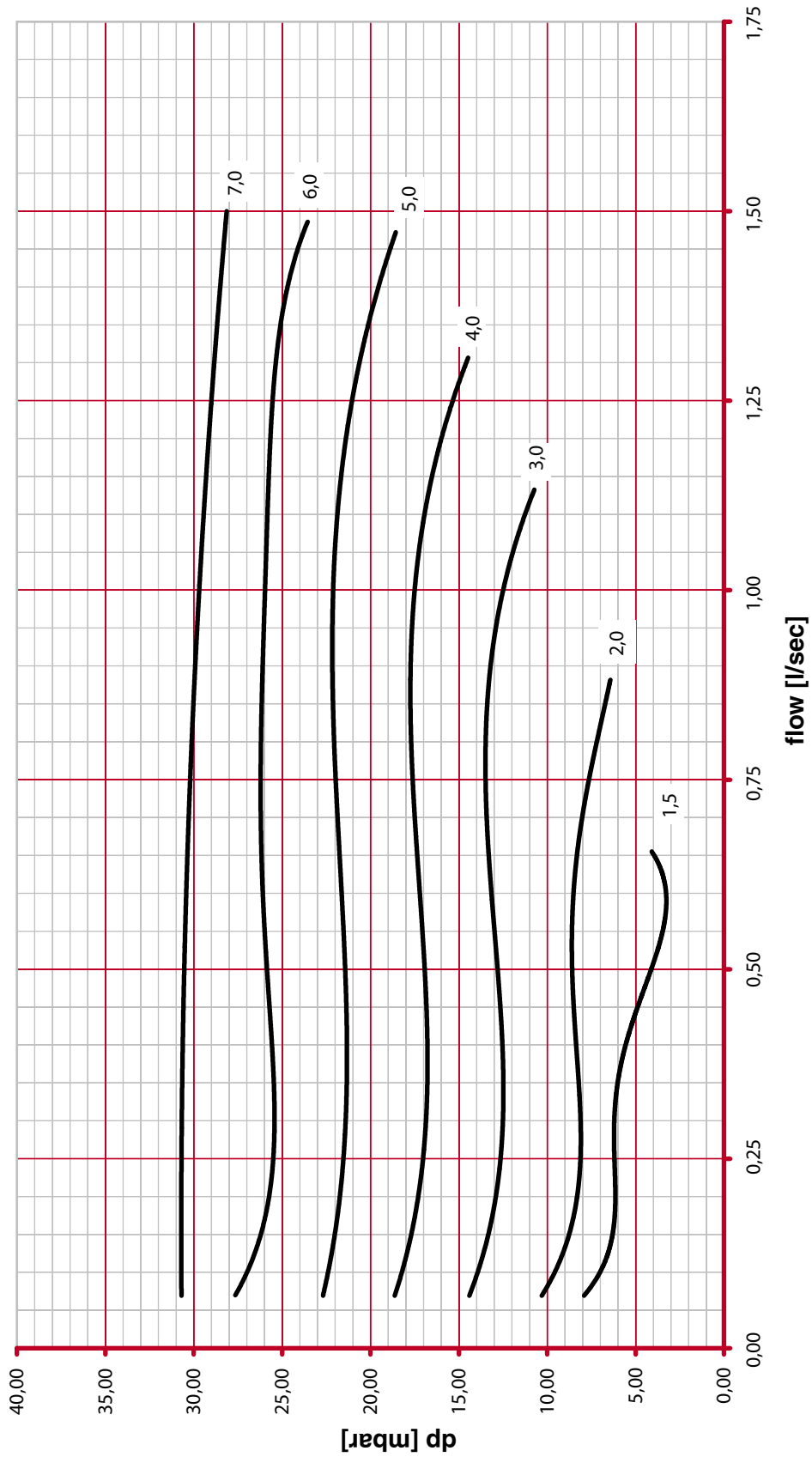
Dim. DN 25

1 4002 63 - pressting scale 1,0-7,5



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1 4002 44 - pressting scale 1,0-7,0



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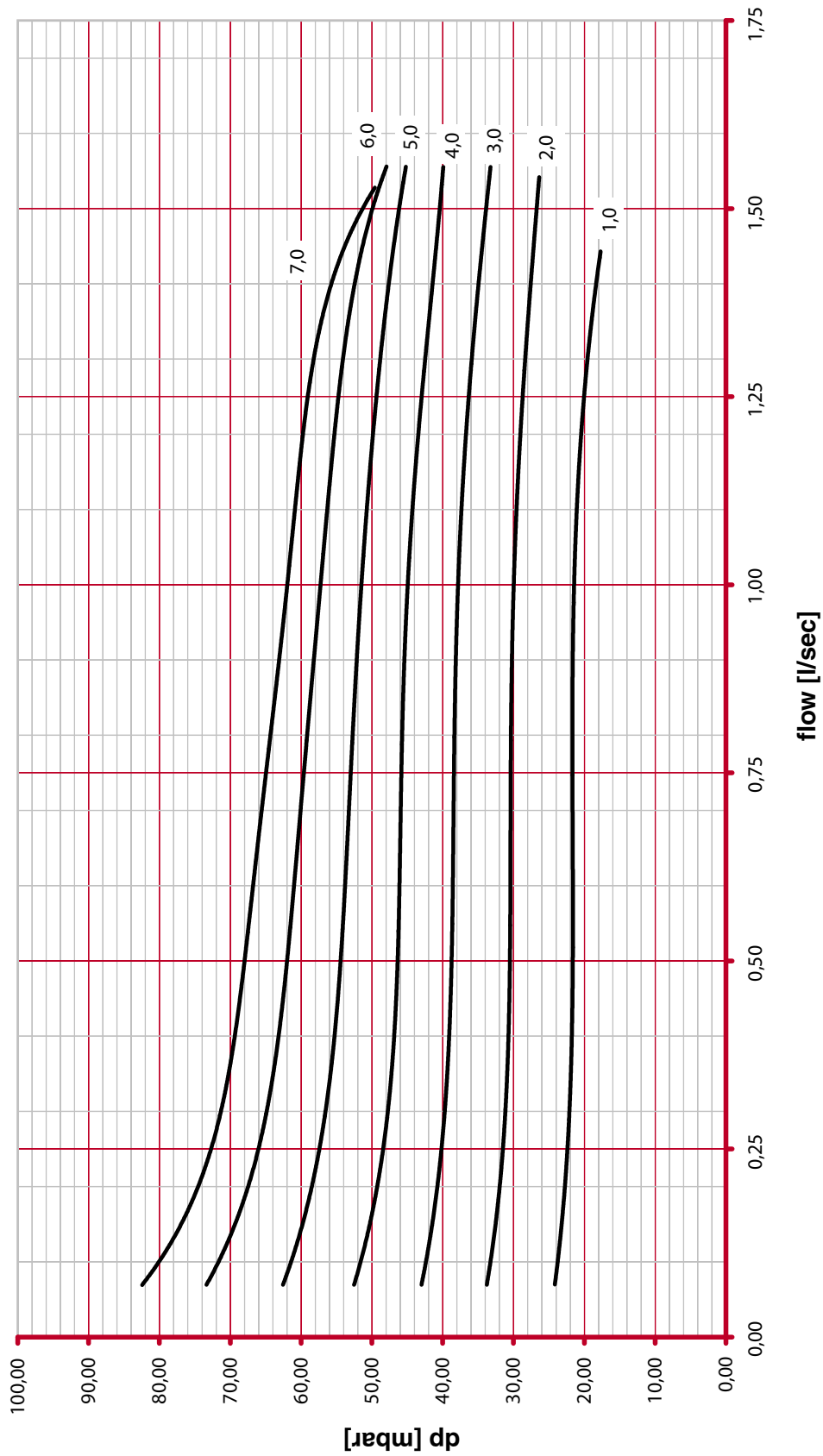
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 64**

Dim. DN 32

1 4002 64 - pressting scale 1,0-7,0



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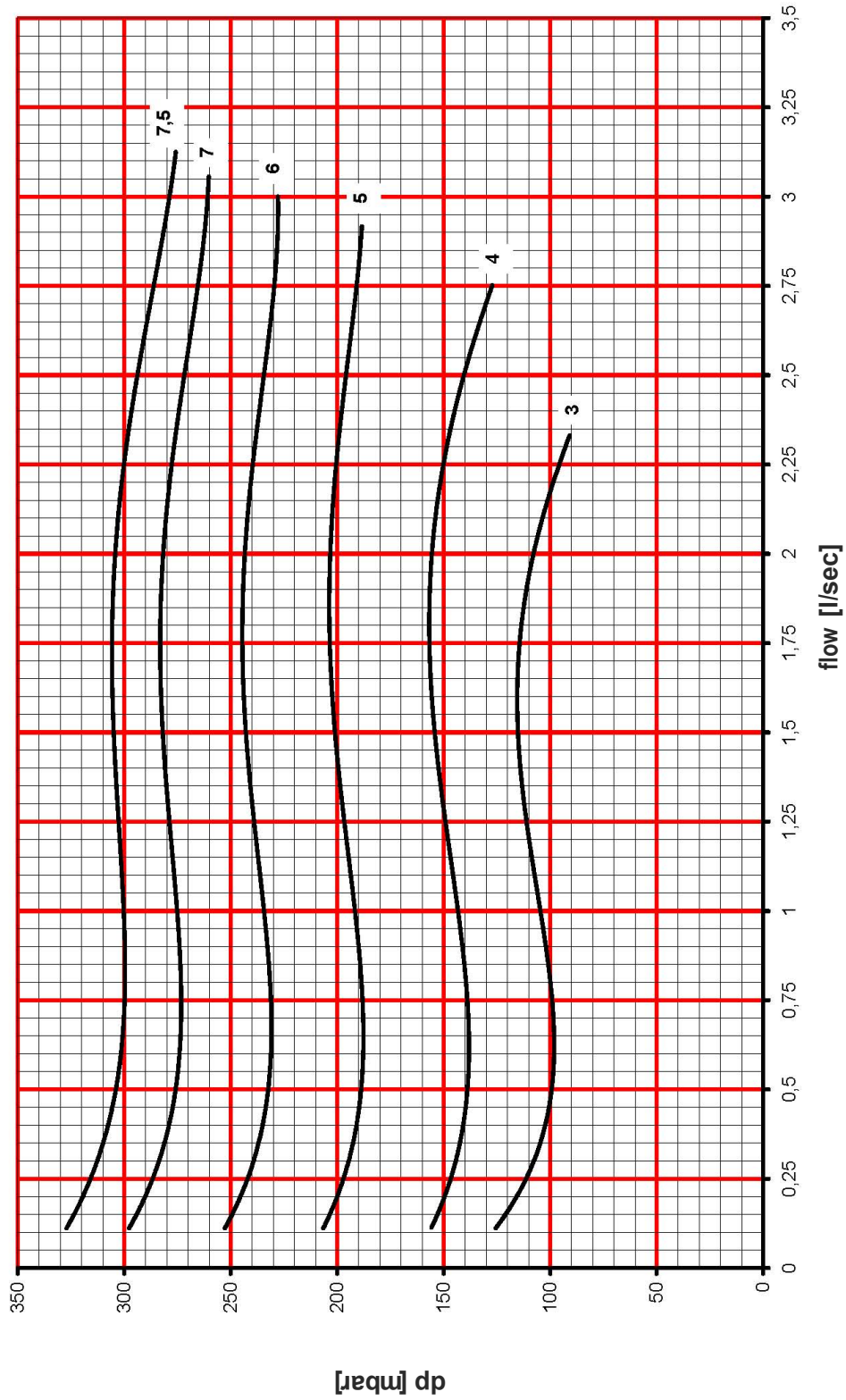
HERZ standard diagram

Differential pressure controller

Order no. 1 4002 45

Dim. DN 40

1 4002 45 - presetting scale 1,0-7,0



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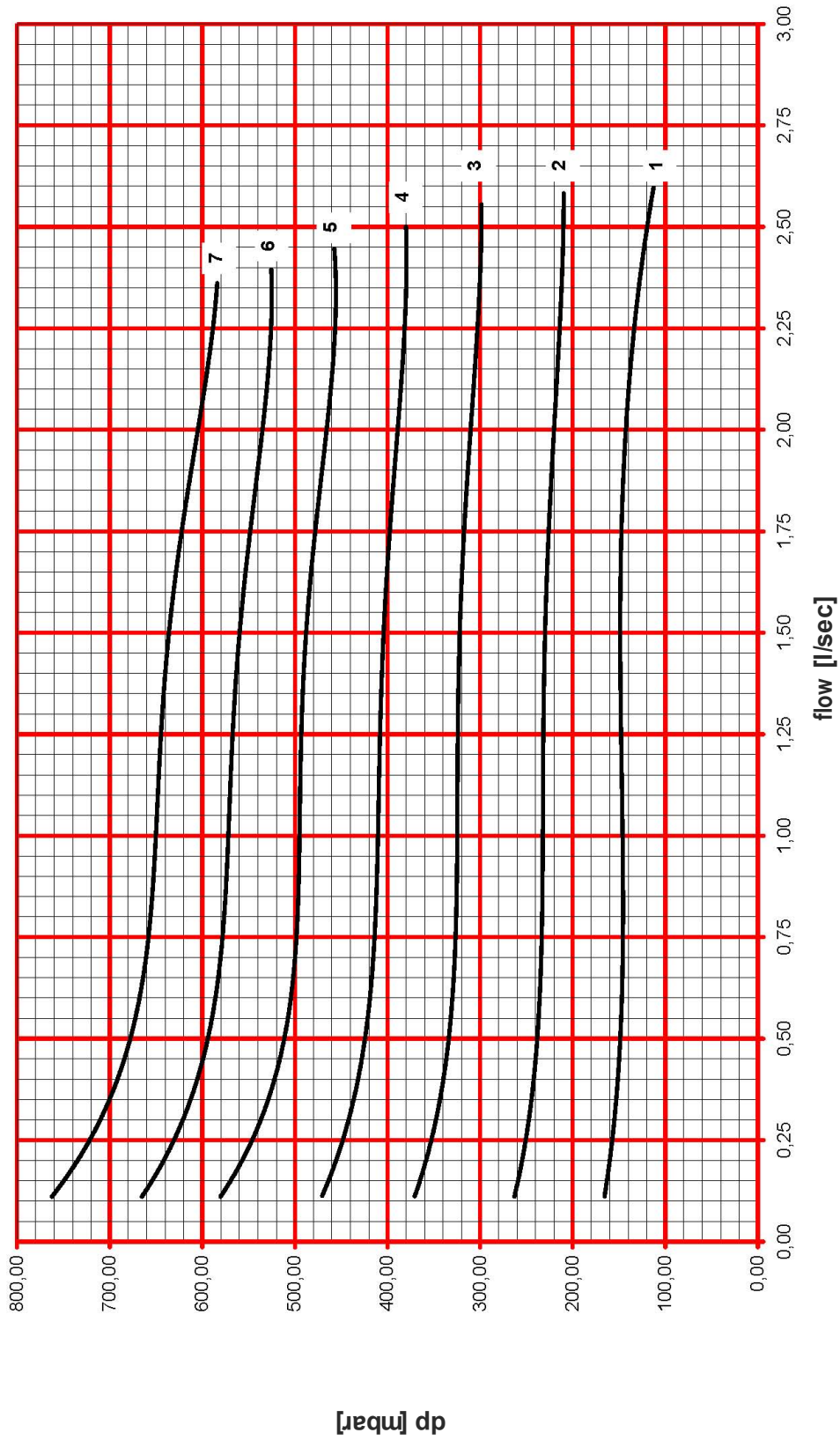
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 65**

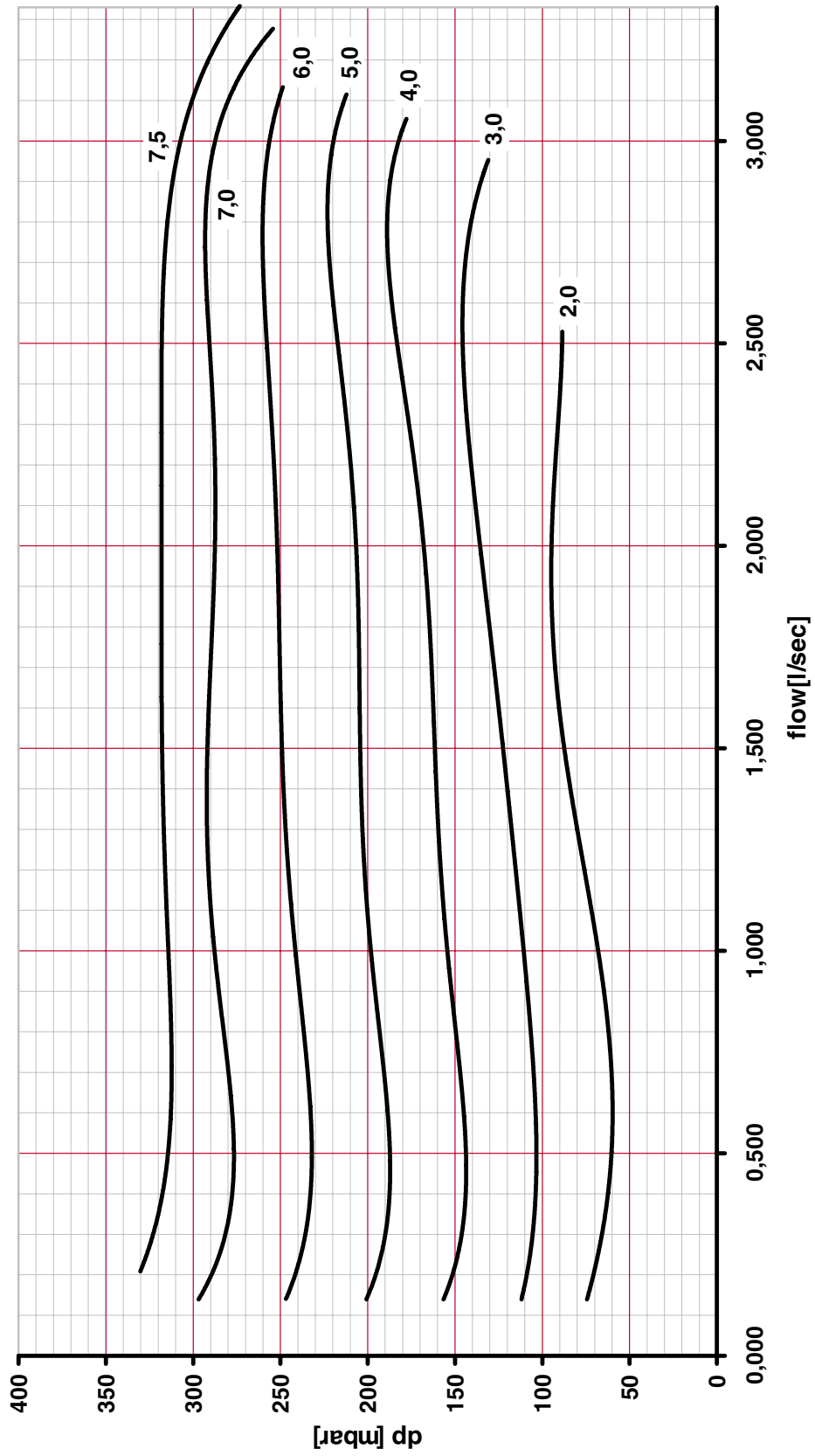
Dim. DN 40

1 4002 65 - presetting scale 1,0-7,0



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1 4002 46 - presetting scale 2,0-7,5



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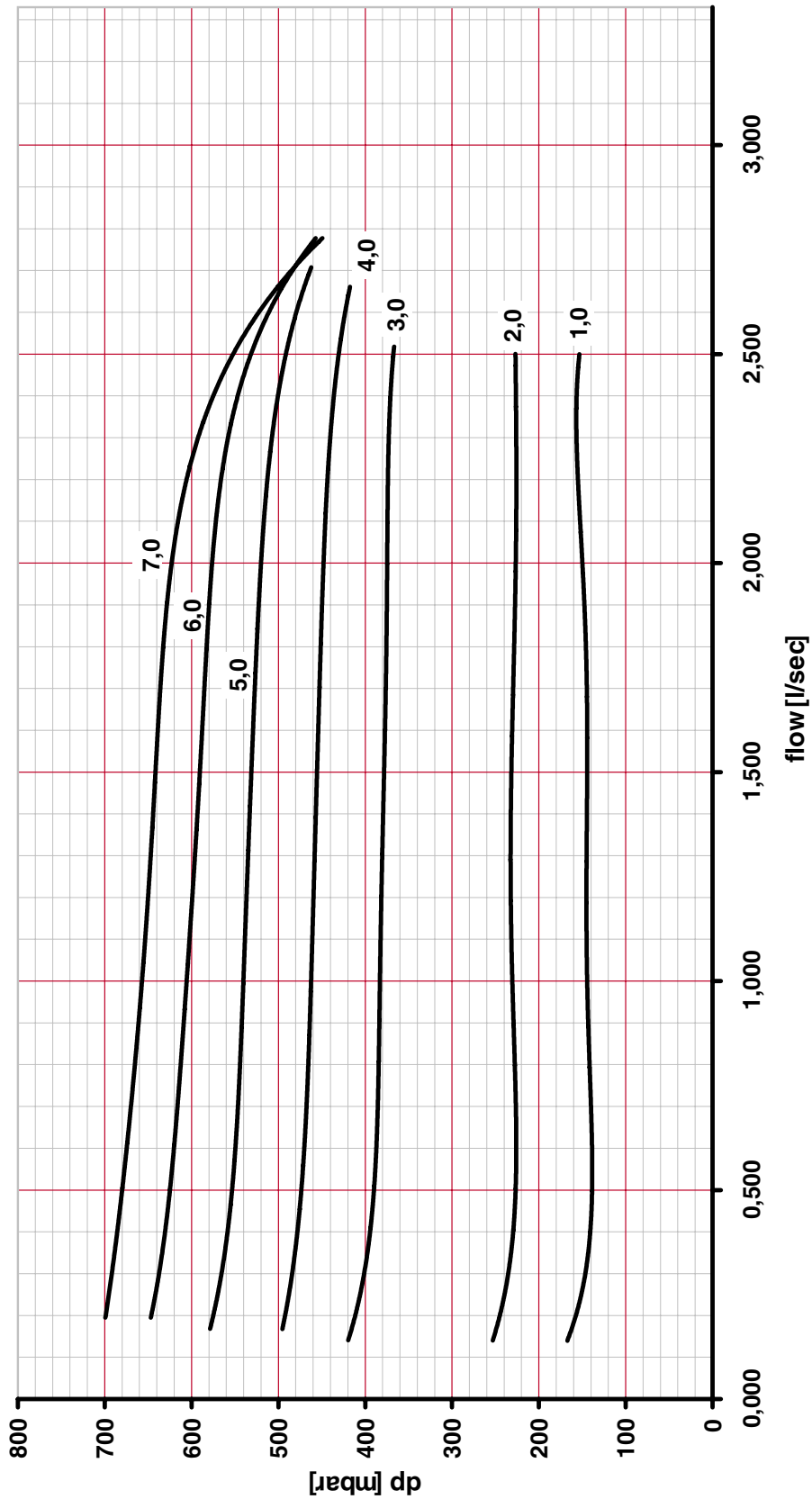
HERZ standard diagram

Differential pressure controller

Order no. 1 **4002 66**

Dim. DN 50

1 4002 66 - presetting scale 1,0-7,0



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