

HydroControl VFS

Stainless steel regulating and shutoff valves

PN 16/PN 25, DN 65...300



Stainless steel regulating and shutoff valve for the static hydronic balancing of pipelines in closed heating and cooling systems. The valve offers a measuring function across the valve seat. All wetted parts are made of stainless steel. The valve is available in two different material grades.

Functions

- Flow control
- Blockable and lead-sealable presetting
- Pipeline shutoff
- Flow measurement connection

Features

- + All wetted parts made of stainless steel (except for seals)
- + Available in stainless steel CF8 or CF8M (corresponds to 1.4308 / SAE 304 or 1.4408 / SAE 316)
- + Available up to DN 300 with flanges according to EN 1092-1, PN 16 or PN 25

Product Details

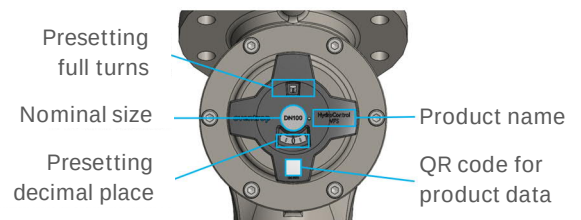
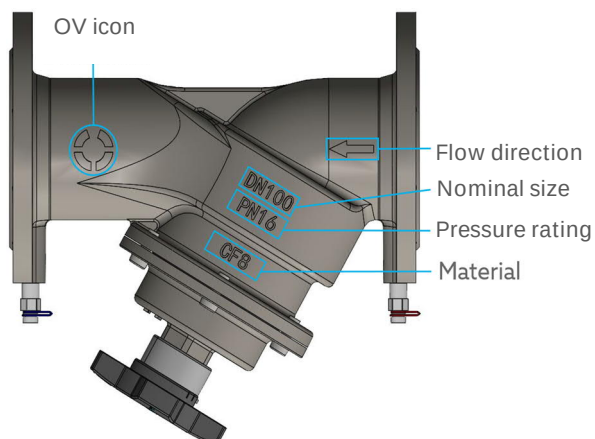
Technical Data

Nominal sizes	DN 65...300
Variants	With flanges according to EN 1092-1 / PN 16 / Stainless steel CF8 With flanges according to EN 1092-1 / PN 16 / Stainless steel CF8M With flanges according to EN 1092-1 / PN 25 / Stainless steel CF8 With flanges according to EN 1092-1 / PN 25 / Stainless steel CF8M
Operating temperature	-10...95 °C
Operating pressure	PN 16 or PN 25
Medium	Heating and cooling water according to VDI 2035 or ÖNORM 5195 Water / glycol mixtures with max. 50% glycol content
Kvs values	86...1276

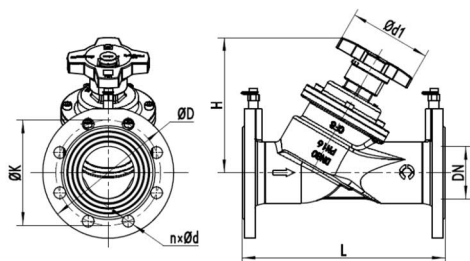
Materials

Component	Material
Handwheel set with presetting	Polyamide plastic
Y-pattern body, bonnet and regulating plug	Item no. 10635 ...: Stainless steel CF8 (corresponds to material number 1.4308, comparable to 1.4301 (A2), SAE 304) Item no. 10636 ...: Stainless steel CF8M (corresponds to material number 1.4408, comparable to 1.4401 (A4) SAE 316)
Spindle, measuring valve body	Item no. 10635 ...: Stainless steel 304 (corresponds to material number 1.4301 (A2), SAE 304) Item no. 10636 ...: Stainless steel 316 (corresponds to material number 1.4401 (A4) SAE 316)
Valve seals and seat seal	EPDM

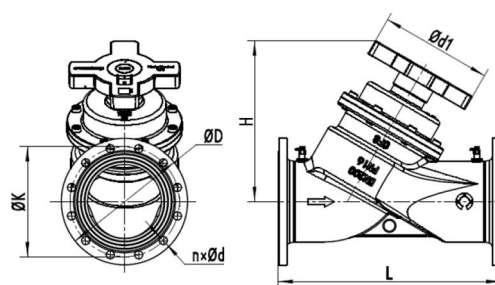
Marking



Dimensions



HydroControl VFS DN 65...150

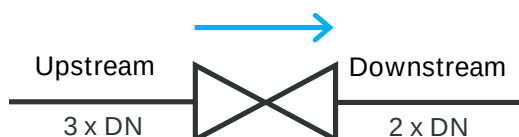


HydroControl VFS DN 200...300

DN	L [mm]	H [mm]	Ød1 [mm]	ØD [mm]	PN 16			PN 25			
					ØK [mm]	n x Ød [mm]	Weight [kg]	ØD [mm]	ØK [mm]	n x Ød [mm]	Weight [kg]
65	290	195	125	185	145	4 x 18	14	185	145	8 x 18	14
80	310	206	125	200	160	8 x 18	17	200	160	8 x 18	17
100	350	237	125	220	180	8 x 18	25	235	190	8 x 22	27
125	400	244	125	250	210	8 x 18	33	270	220	8 x 26	35
150	480	281	125	285	240	8 x 22	49	300	250	8 x 26	50
200	600	421	300	340	295	12 x 22	87	360	310	12 x 26	90
250	730	460	300	405	355	12 x 26	136	425	370	12 x 30	142
300	850	500	300	460	410	12 x 26	178	485	430	16 x 30	185

Installation

Calming sections must be provided upstream and downstream of the valve.



Item Numbers

Nominal size	Kvs value	Stainless steel CF8 (1.4308)		Stainless steel CF8M (1.4408)	
		Item no. PN 16	Item no. PN 25	Item no. PN 16	Item no. PN 25
DN 65	86.2	1063551	1063581	1063651	1063681
DN 80	138.4	1063552	1063582	1063652	1063682
DN 100	205.2	1063553	1063583	1063653	1063683
DN 125	314.0	1063554	1063584	1063654	1063684
DN 150	405.8	1063555	1063585	1063655	1063685
DN 200	795.1	1063556	1063586	1063656	1063686
DN 250	1087.8	1063557	1063587	1063657	1063687
DN 300	1276.2	1063558	1063588	1063658	1063688

Sizing

Kv values

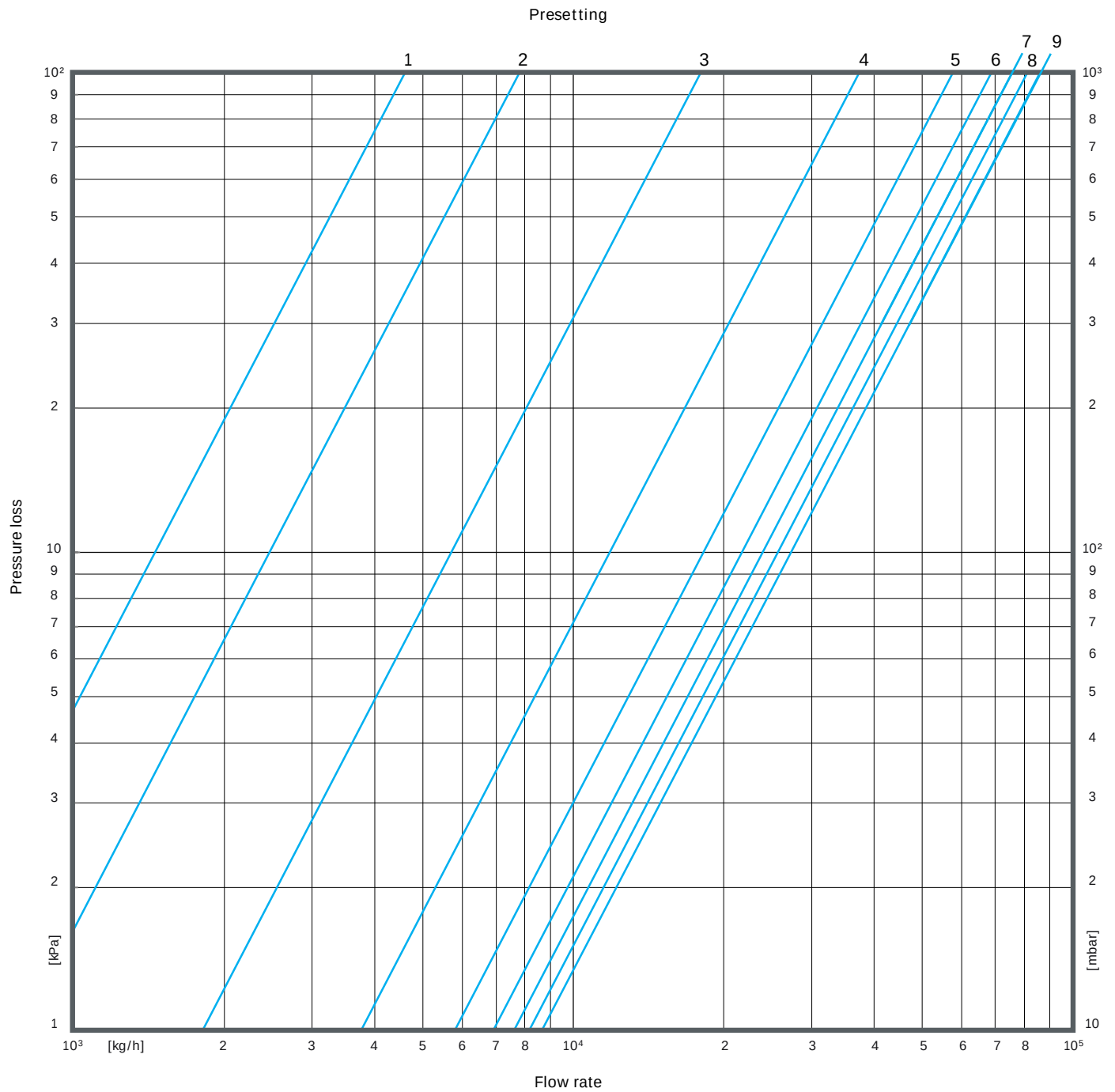
Presetting	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
1.0	4.6	6.6	4.8	17.0	18.0	57.7	70.4	60.3
1.1	5.00	7.30	5.60	18.80	20.50	63.00	78.20	68.50
1.2	5.10	7.90	6.50	20.00	22.80	68.00	86.40	77.70
1.3	5.40	8.50	7.40	21.50	25.20	73.50	94.40	87.70
1.4	5.60	9.30	8.30	23.00	27.80	77.80	103.60	97.70
1.5	5.80	9.90	9.40	24.50	30.20	82.80	112.00	107.70
1.6	6.00	10.40	10.60	25.70	32.70	88.20	120.80	118.20
1.7	6.30	11.30	11.80	27.60	35.10	94.20	129.80	129.60
1.8	6.80	11.90	13.00	29.10	38.10	99.90	138.80	139.60
1.9	7.20	12.60	14.20	31.00	40.50	105.80	147.60	149.60
2.0	7.8	13.5	15.6	32.8	43.4	113.2	156.3	159.6
2.1	8.50	14.20	17.10	34.90	46.20	121.10	164.80	168.80
2.2	9.20	14.90	18.70	36.90	49.50	129.60	173.80	178.40
2.3	10.00	15.80	20.30	39.00	52.60	137.50	182.40	188.00
2.4	11.00	16.30	21.90	41.00	56.10	146.00	191.00	197.70
2.5	11.90	17.30	23.60	43.50	59.80	155.10	200.00	207.60
2.6	13.00	17.90	25.40	45.80	62.80	165.00	208.80	216.80
2.7	14.00	18.90	27.40	48.50	66.10	175.00	217.60	225.60
2.8	15.20	20.20	29.30	51.30	69.80	185.20	225.90	233.80
2.9	16.60	21.40	31.30	54.00	72.60	196.40	233.90	242.00
3.0	18.0	23.4	33.2	57.1	75.8	207.9	241.9	249.5
3.1	19.60	25.70	35.30	60.30	78.80	220.00	249.80	256.20
3.2	21.20	27.80	37.40	64.00	81.60	233.10	256.60	262.60
3.3	23.10	30.20	39.50	68.00	84.40	245.60	263.40	268.20
3.4	25.20	33.20	41.70	72.00	86.80	260.00	269.60	273.90
3.5	27.10	35.80	44.00	76.00	89.20	274.50	275.90	278.80
3.6	29.20	38.60	46.60	80.00	92.20	288.80	282.20	283.60
3.7	31.20	41.90	49.00	84.50	94.50	302.80	289.20	288.00
3.8	33.30	45.20	51.80	89.00	97.10	317.40	296.00	293.60
3.9	35.50	48.30	54.70	93.30	99.60	330.80	303.80	299.80
4.0	37.4	51.3	57.7	97.8	102.6	344.4	311.3	305.4
4.1	39.50	54.50	61.30	102.60	105.30	358.80	319.90	312.00
4.2	41.70	57.60	65.20	107.00	108.20	372.50	329.40	317.40
4.3	43.90	60.90	69.20	112.00	110.80	386.00	338.40	322.80
4.4	46.00	64.40	73.20	116.60	113.80	400.50	348.00	328.00
4.5	48.00	67.80	77.60	121.80	116.20	414.10	358.20	334.00
4.6	50.10	70.90	82.00	126.90	119.20	427.20	368.40	340.90
4.7	52.20	74.30	86.00	131.90	122.50	441.20	378.20	348.00
4.8	54.20	77.70	90.20	136.80	125.40	453.80	388.40	356.30
4.9	56.00	80.60	94.90	141.80	129.10	465.50	399.40	365.80
5.0	57.6	83.3	99.0	147.1	132.5	476.5	409.0	377.5

Presetting	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
5.1	59.10	85.90	103.10	152.20	136.10	487.50	423.20	390.50
5.2	60.50	88.20	107.40	158.00	140.20	496.80	437.90	406.00
5.3	61.80	90.60	111.50	163.20	144.80	505.50	452.60	422.80
5.4	63.00	93.10	115.60	168.90	149.10	514.80	467.40	440.80
5.5	64.00	95.10	119.80	174.80	153.60	522.80	482.60	459.80
5.6	65.00	97.10	123.70	180.00	158.00	530.80	497.20	479.60
5.7	66.00	98.80	127.60	185.50	162.50	538.40	511.50	499.20
5.8	67.00	100.60	131.50	191.10	167.20	545.20	525.40	518.20
5.9	67.90	102.10	135.40	195.80	171.80	552.50	539.60	537.00
6.0	68.8	103.8	139.2	200.6	176.7	560.1	554.2	555.9
6.1	69.60	105.00	142.70	204.90	181.30	566.80	567.80	568.80
6.2	70.50	106.10	146.30	209.10	186.60	574.00	581.00	583.80
6.3	71.20	106.90	149.80	213.00	191.80	578.80	595.30	597.60
6.4	71.90	107.80	153.20	216.90	197.40	585.00	609.00	611.60
6.5	72.70	108.20	156.50	220.50	202.50	590.50	622.60	625.80
6.6	73.20	108.60	159.50	224.00	207.80	596.20	635.50	639.60
6.7	73.90	109.30	162.50	227.80	213.40	602.50	648.60	654.00
6.8	74.50	110.00	165.50	231.10	217.90	608.20	660.80	666.50
6.9	75.10	110.70	168.20	234.80	223.00	615.00	672.40	678.80
7.0	75.7	111.9	170.6	238.0	227.7	622.1	683.1	691.2
7.1	76.30	113.20	172.20	241.20	232.40	630.00	691.80	702.30
7.2	77.00	114.20	173.30	244.50	236.00	638.80	699.20	712.40
7.3	77.50	115.80	174.20	248.00	240.00	646.80	704.80	722.10
7.4	78.00	116.90	175.00	251.00	244.00	656.20	710.60	731.40
7.5	78.60	118.60	176.00	253.70	247.50	665.50	715.40	740.00
7.6	79.20	120.20	177.00	256.80	251.00	674.60	721.00	749.60
7.7	79.70	121.80	177.50	260.20	254.90	683.80	727.40	758.40
7.8	80.20	123.20	178.40	263.80	258.80	692.00	734.80	768.30
7.9	80.70	124.80	179.20	267.30	262.80	700.50	745.00	778.80
8.0	81.2	126.0	180.7	270.7	266.9	707.4	758.0	790.4
8.1	81.80	127.40	182.50	274.80	271.70	714.50	773.20	802.40
8.2	82.20	128.60	184.80	279.00	276.20	720.00	795.00	816.20
8.3	82.80	129.80	187.00	283.00	281.50	726.10	817.00	829.80
8.4	83.20	131.00	189.70	287.60	286.30	732.50	841.00	843.80
8.5	83.70	132.20	192.00	291.90	291.70	737.50	867.00	858.80
8.6	84.20	133.70	194.50	296.20	296.70	743.00	895.00	873.80
8.7	84.70	134.80	197.20	300.50	302.30	747.50	919.00	888.60
8.8	85.20	136.00	199.90	305.00	306.80	752.00	939.00	903.80
8.9	85.70	137.20	202.40	309.50	312.10	756.50	959.00	918.20
9.0	86.2	138.4	205.2	314.0	316.7	761.2	973.7	933.3
9.1					321.00	765.20	981.00	943.60
9.2					325.50	769.50	984.70	953.60
9.3					330.00	772.50	989.00	963.60
9.4					334.70	776.00	990.60	972.80
9.5					338.80	779.60	990.80	983.40
9.6					342.80	782.50	991.20	992.80
9.7					346.60	785.30	991.80	1003.40

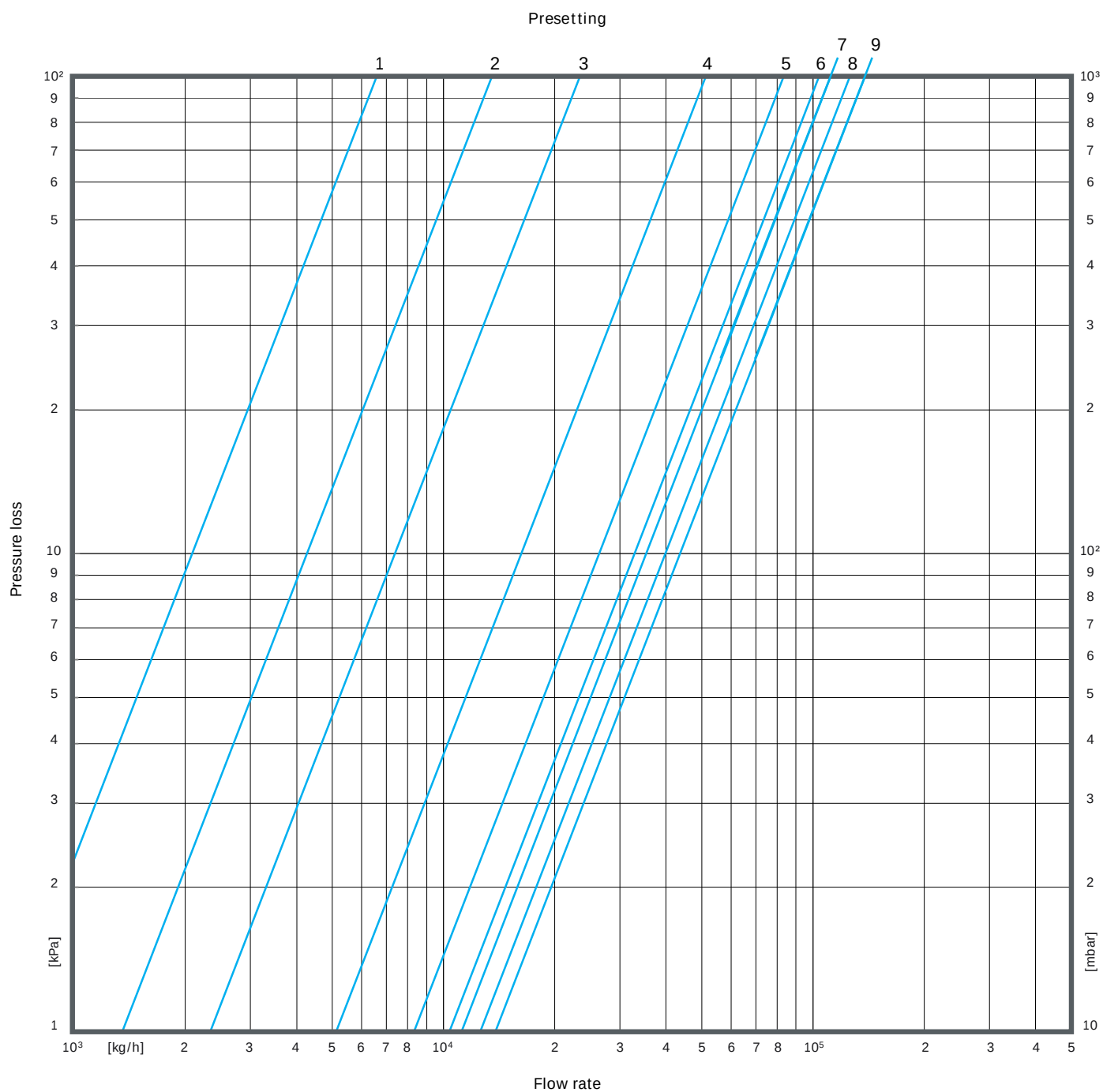
Presetting	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
9.8					350.30	788.80	992.60	1014.00
9.9					354.40	792.30	993.00	1024.80
10.0					357.5	795.1	994.0	1036.6
10.1					360.50		995.60	1048.50
10.2					364.00		996.80	1061.80
10.3					366.50		997.60	1076.20
10.4					369.40		998.20	1090.40
10.5					371.80		999.80	1104.60
10.6					374.50		1000.00	1118.60
10.7					376.50		1001.60	1132.80
10.8					379.10		1003.80	1145.80
10.9					381.40		1006.80	1157.80
11.0					383.6		1010.9	1168.7
11.1					385.80		1016.20	1177.80
11.2					388.40		1022.40	1186.20
11.3					390.50		1029.60	1193.60
11.4					392.70		1037.60	1199.80
11.5					394.90		1044.80	1206.00
11.6					396.90		1053.90	1211.70
11.7					399.50		1062.80	1216.60
11.8					401.40		1071.80	1221.80
11.9					403.60		1079.80	1226.80
12.0					405.8		1087.8	1232.2
12.1								1237.70
12.2								1242.20
12.3								1247.00
12.4								1251.60
12.5								1255.50
12.6								1259.70
12.7								1264.00
12.8								1267.80
12.9								1271.80
13.0								1276.2

Flow charts

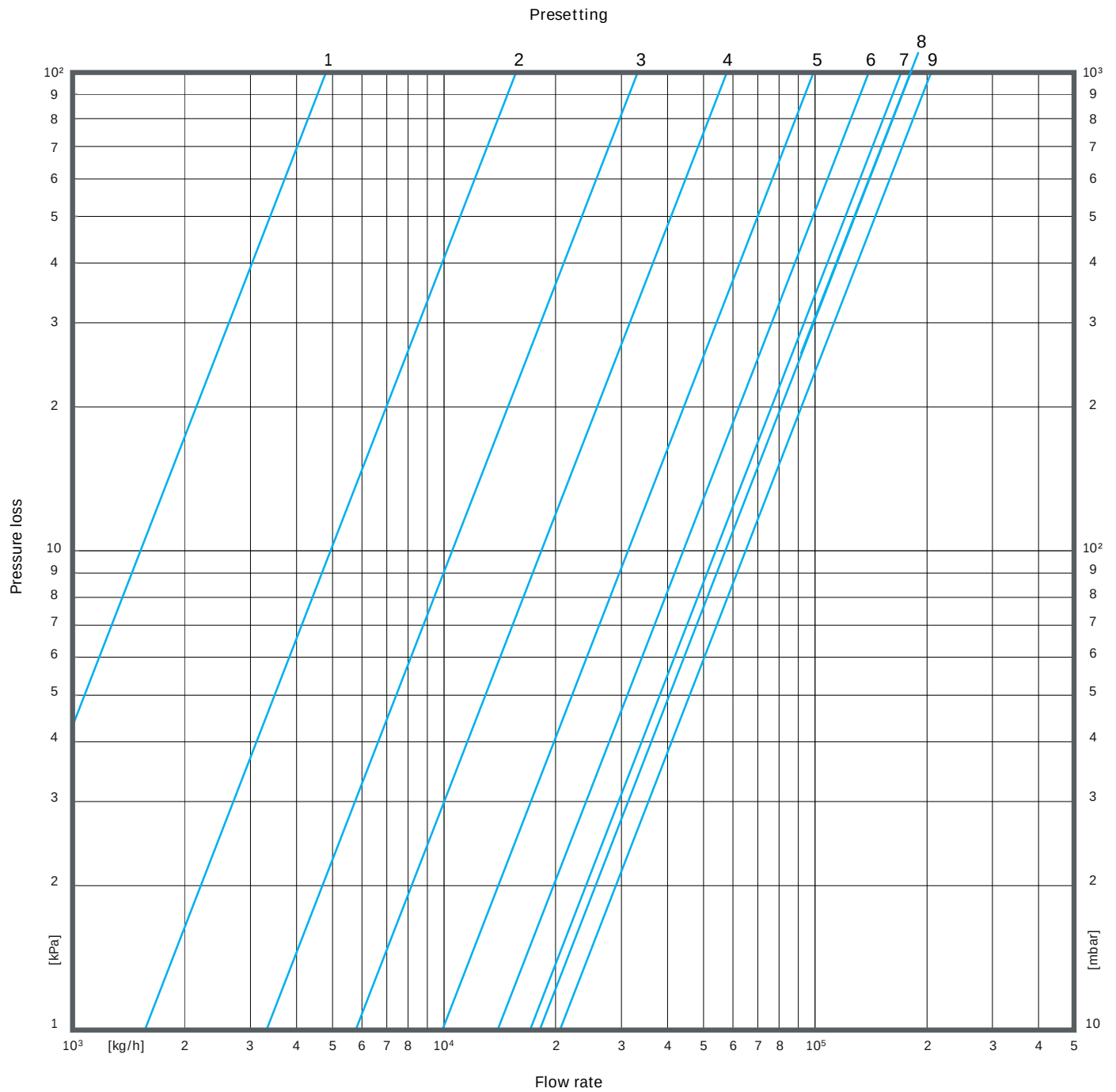
DN 65



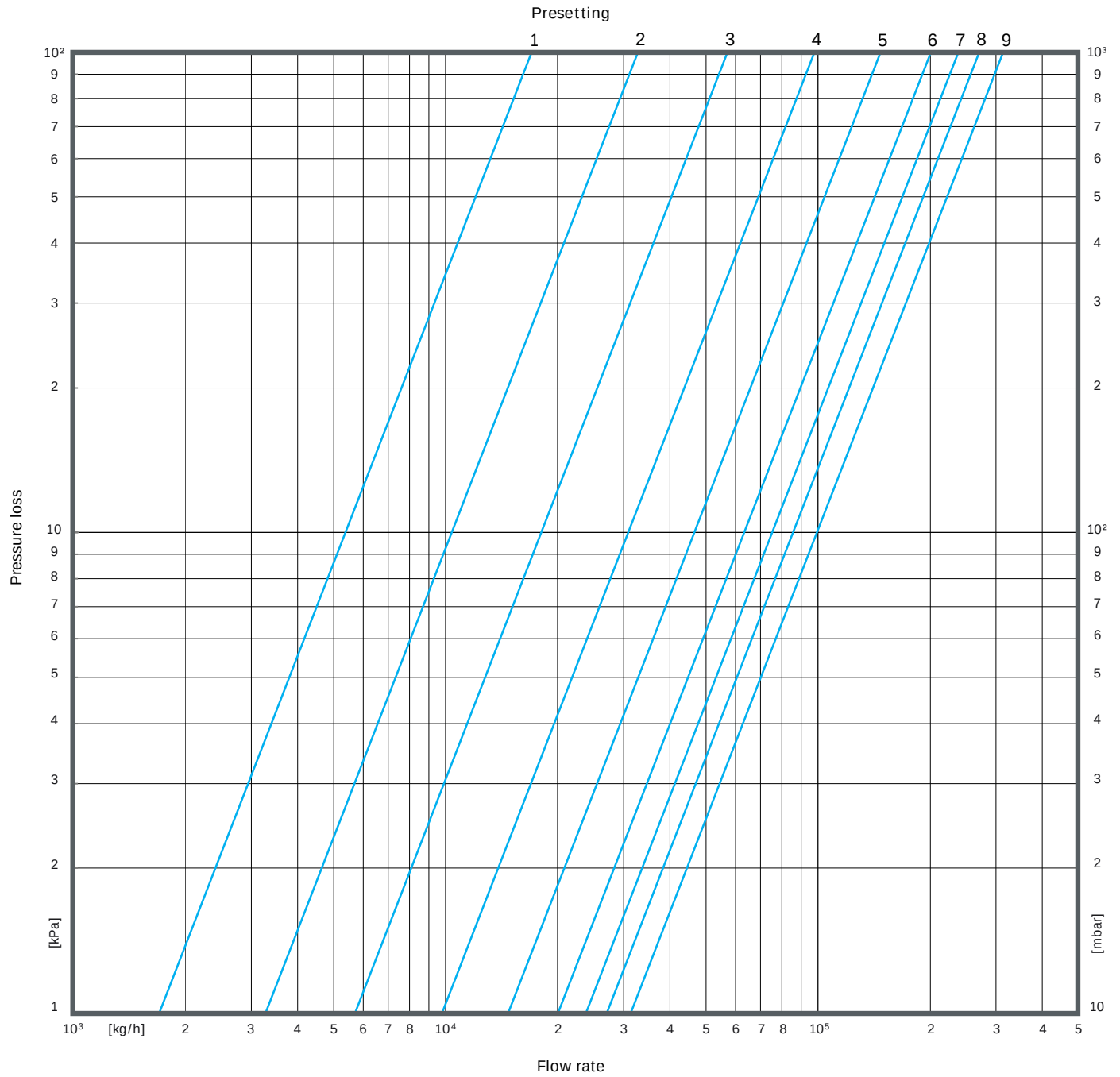
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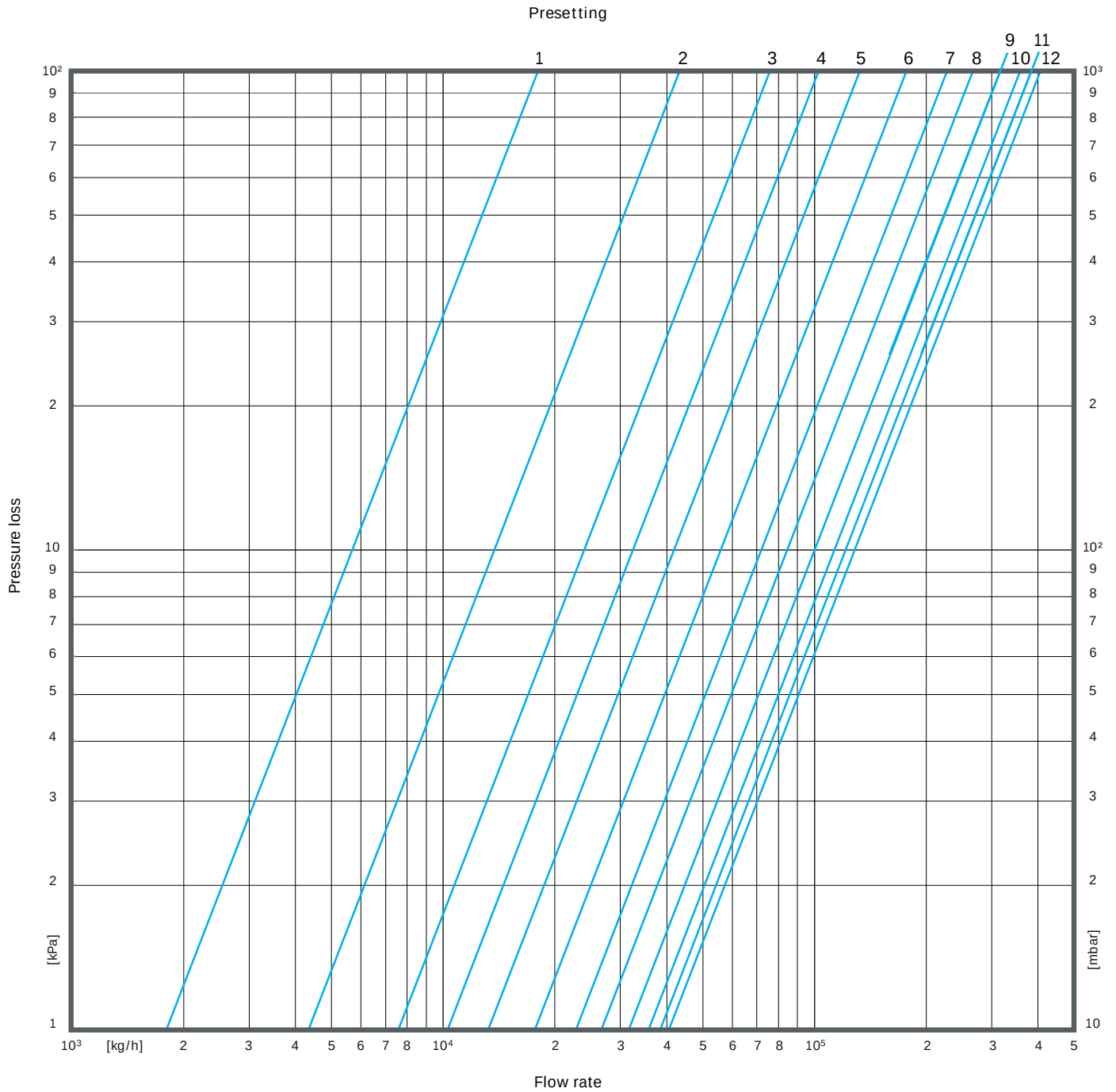
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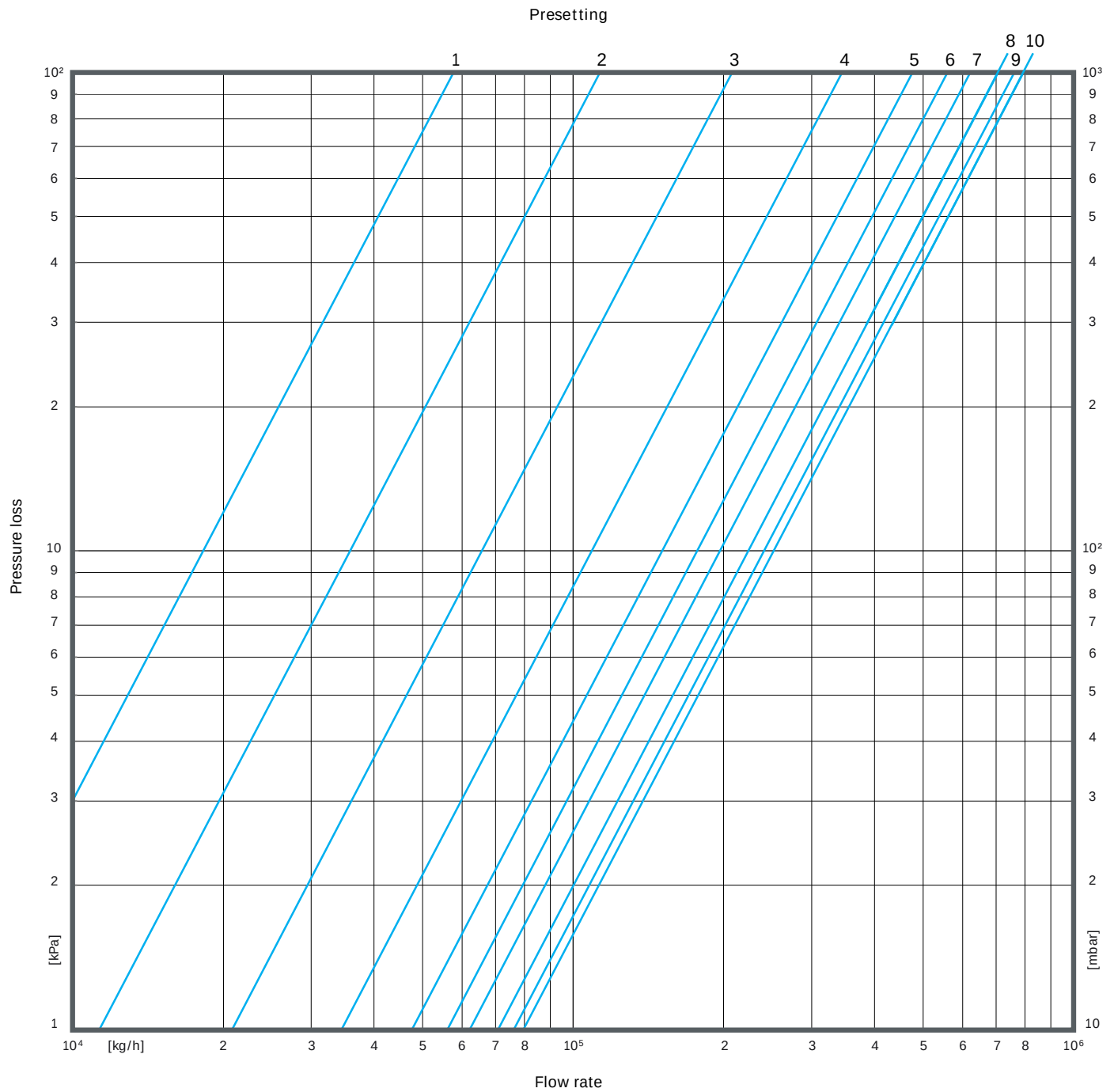
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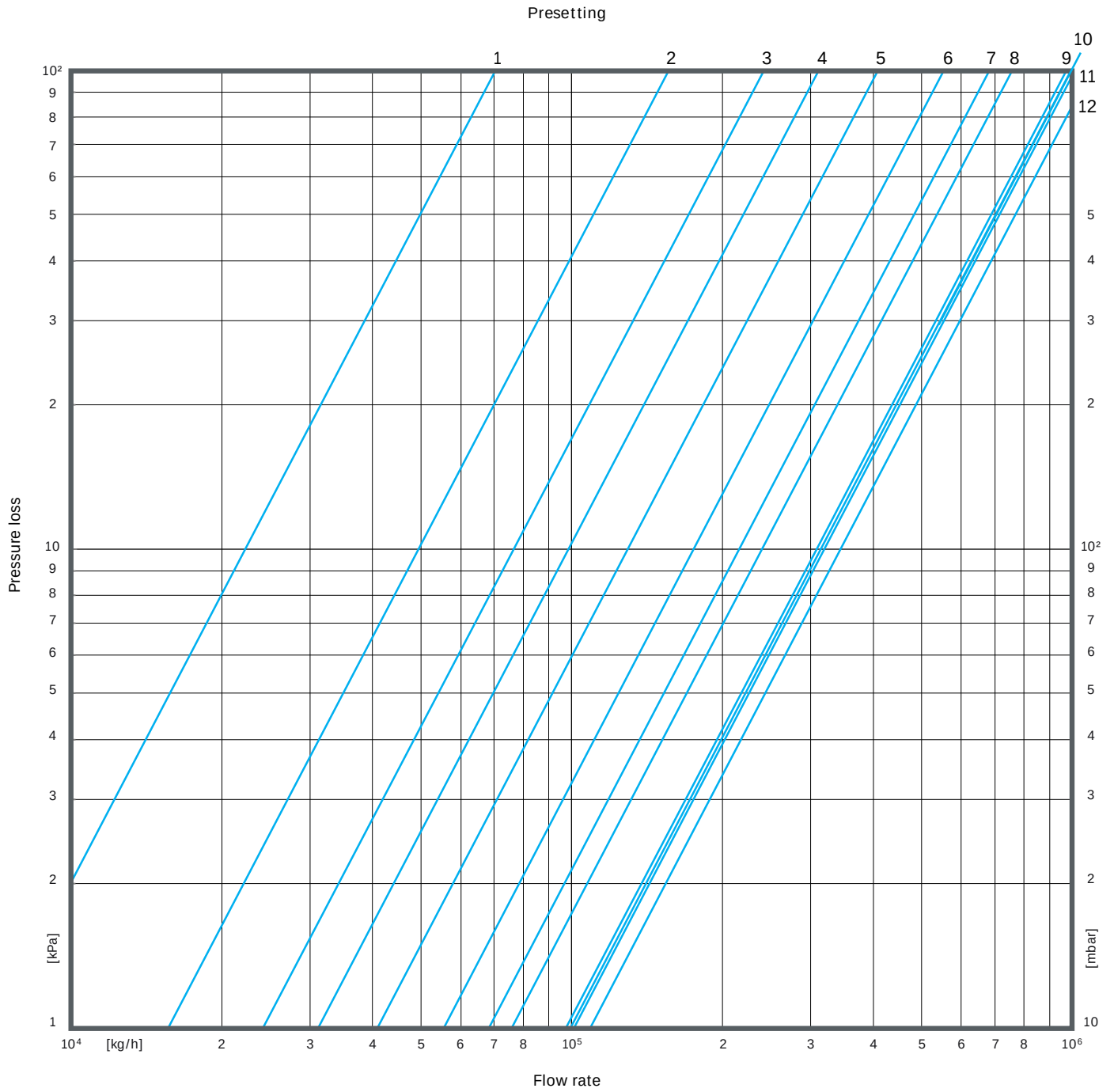
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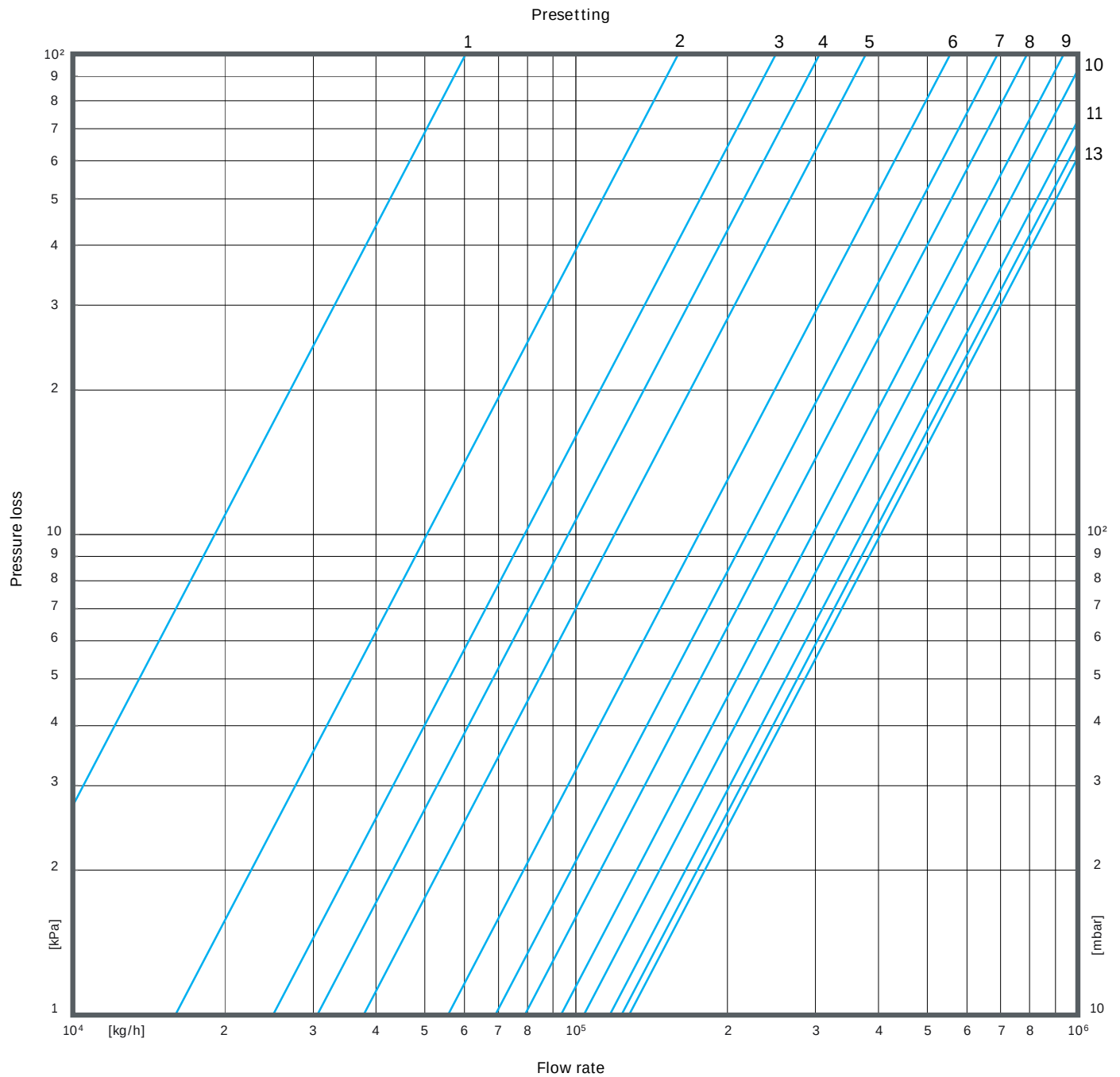
DN 200



DN 250



DN 300



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 EN-03126-106355-V2506 – February 2025