

Balancing Valves

V4-BLC-GP16-X

FLANGED BALANCING AND SHUT-OFF VALVES

PRODUCT SPECIFICATION SHEET

Features

- Balancing through stroke limitation with digital pre-setting and visible pre-setting indicator
- Equipped with 2 pressure test cocks for differential pressure measurement
- Rising spindle with EPDM and EPDM O-ring sealing
- Pre-setting isn't altered when handwheel is turned, since handwheel is LOCKED. Pre - setting lock should be release prior to adjustment to another setting.
- Regulation screw protected by protection cap
- Available in dimensions up to DN300 and for size DN350 to DN400 upon request

Design

- Valve body with flanges drilled to ANSI
- Valve insert with handwheel and pre-setting display
- Pressure test cocks

Materials

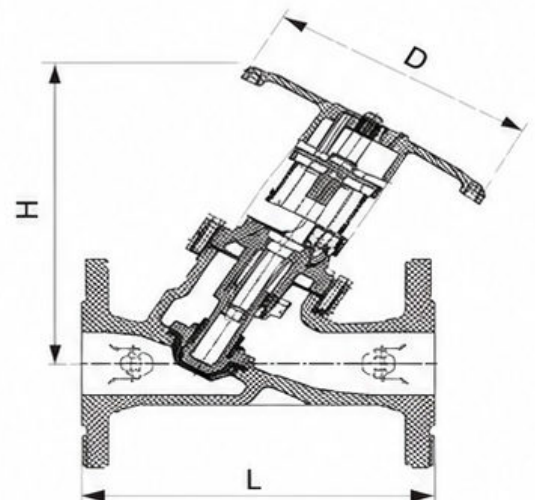
Part	Material	Standard
1. Body	Cast Iron	EN-JL1040
2. Bonnet	Cast Iron	EN-JL1040
3. Gasket	EPDM	Commercial
4. Disc	DN65-200 DI + EPDM Coated	EN-JS1050
	DN250-350 Stainless Steel with Cobalt EPDM Sealed Ring	304S15
5. Stem	Stainless Steel	420S37
6. Handwheel	Ductile Iron	EN-JS1050

Specifications

Flange	ANSI B16.1 Class 1 Other flange types are available.
Operating temperature	-10 to 120 °C (14 to 248 °F)
Nominal pressure	16 Bar



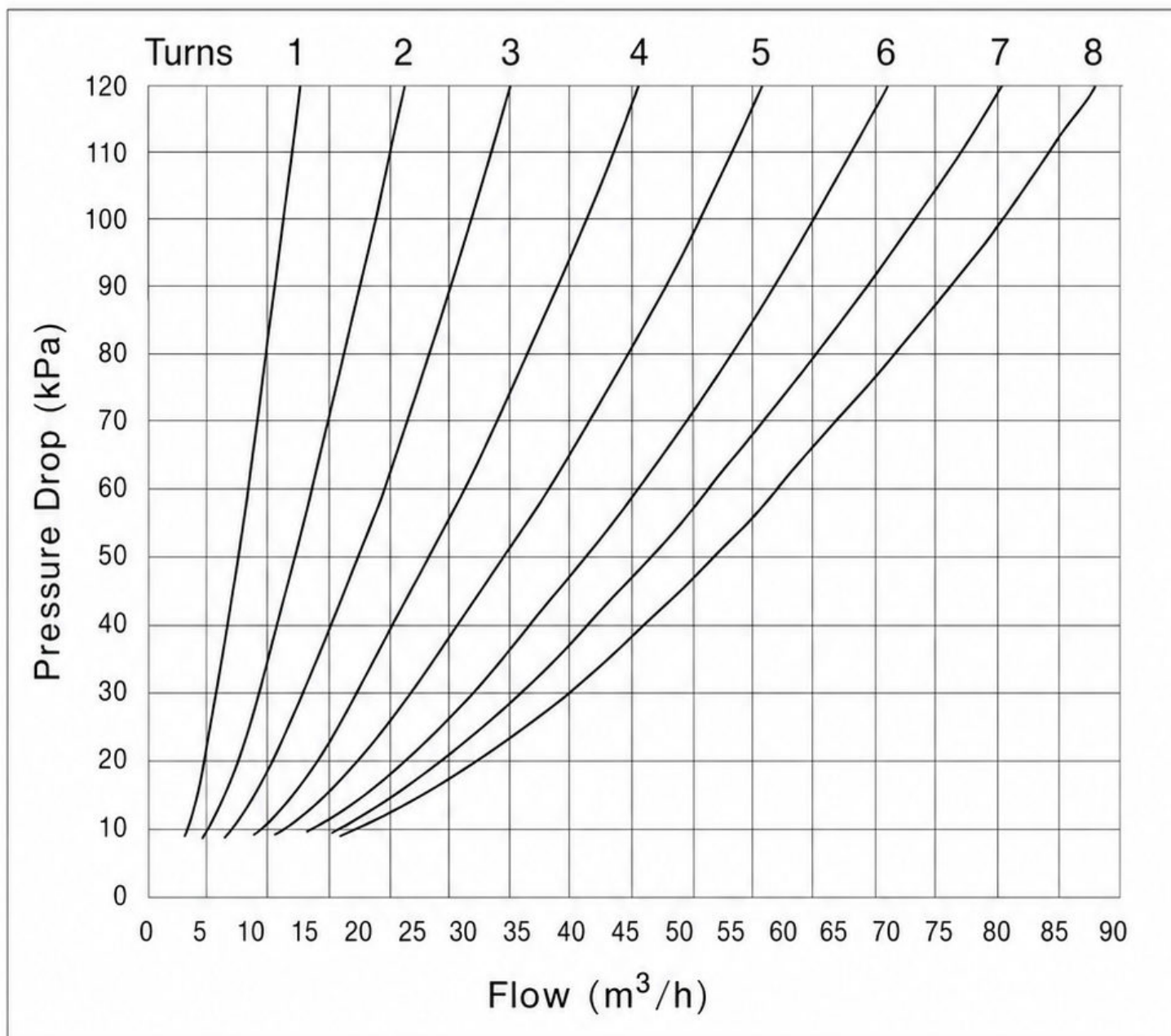
Dimensions and ordering information



DN	L	H	D	Ø D
65	290	293	180	73.0/76.1
80	310	305	180	88.9
100	350	323	180	114.3
125	400	353	260	139.7/141.3
150	480	388	260	165.1/168.3
200	600	453	260	219.1
250	730	554	450	273.0
300	850	566	450	323.9

NOTE: All dimensions in mm unless otherwise stated.
Ductile Iron material available on request.

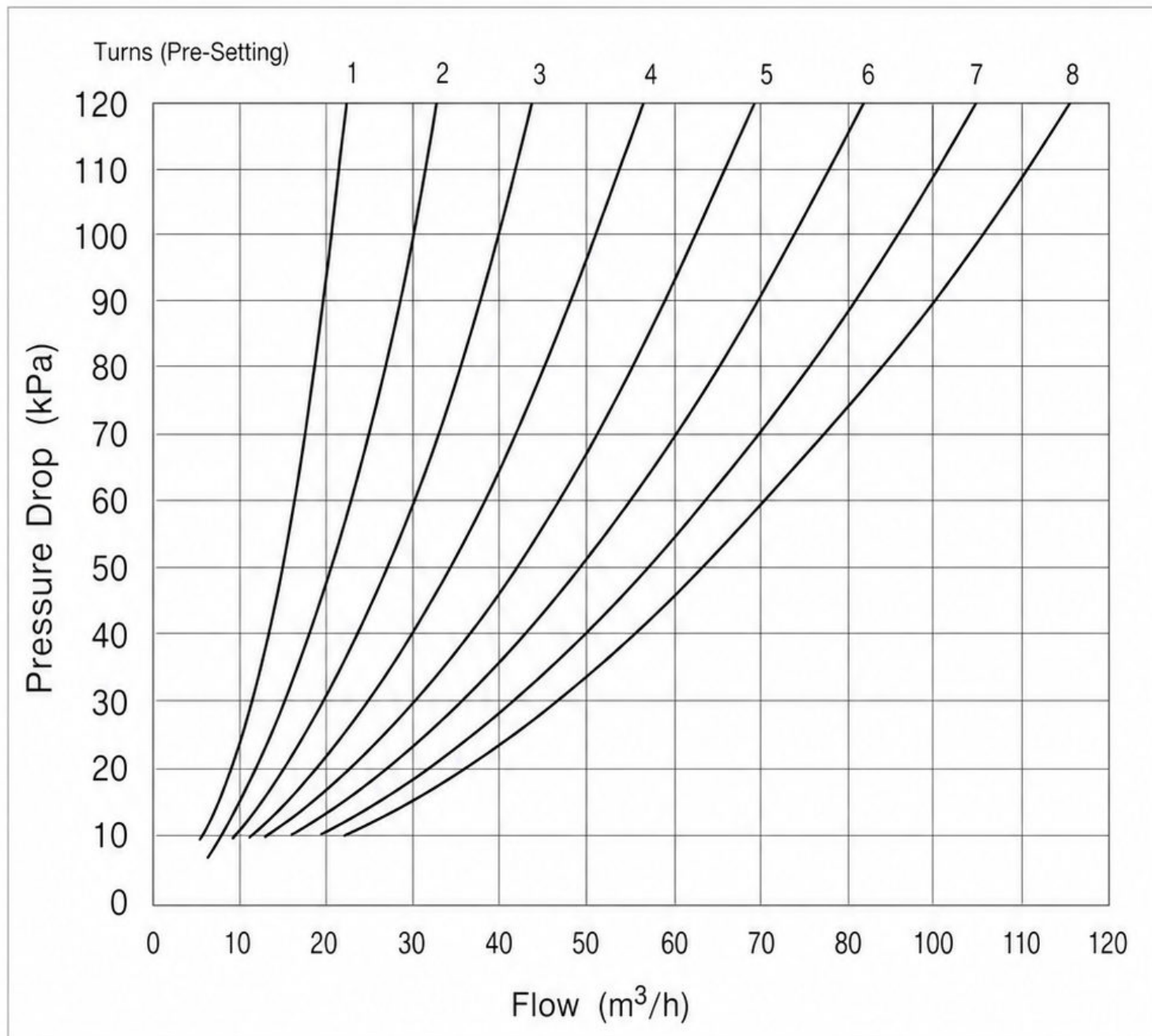
Flow diagram V4-BLC-GP16-X, DN 65



Pre-Setting	1	2	3	4	5	6	7	8(Full Open)
Kv-value	12.09	19.68	28.03	39.43	51.72	64.69	74.02	80.54
Cv-value	14.15	23.03	32.08	46.14	60.15	75.57	86.6	94.59

Flow diagram V4-BLC-GP16-X, DN 80

FLOW PERFORMANCE



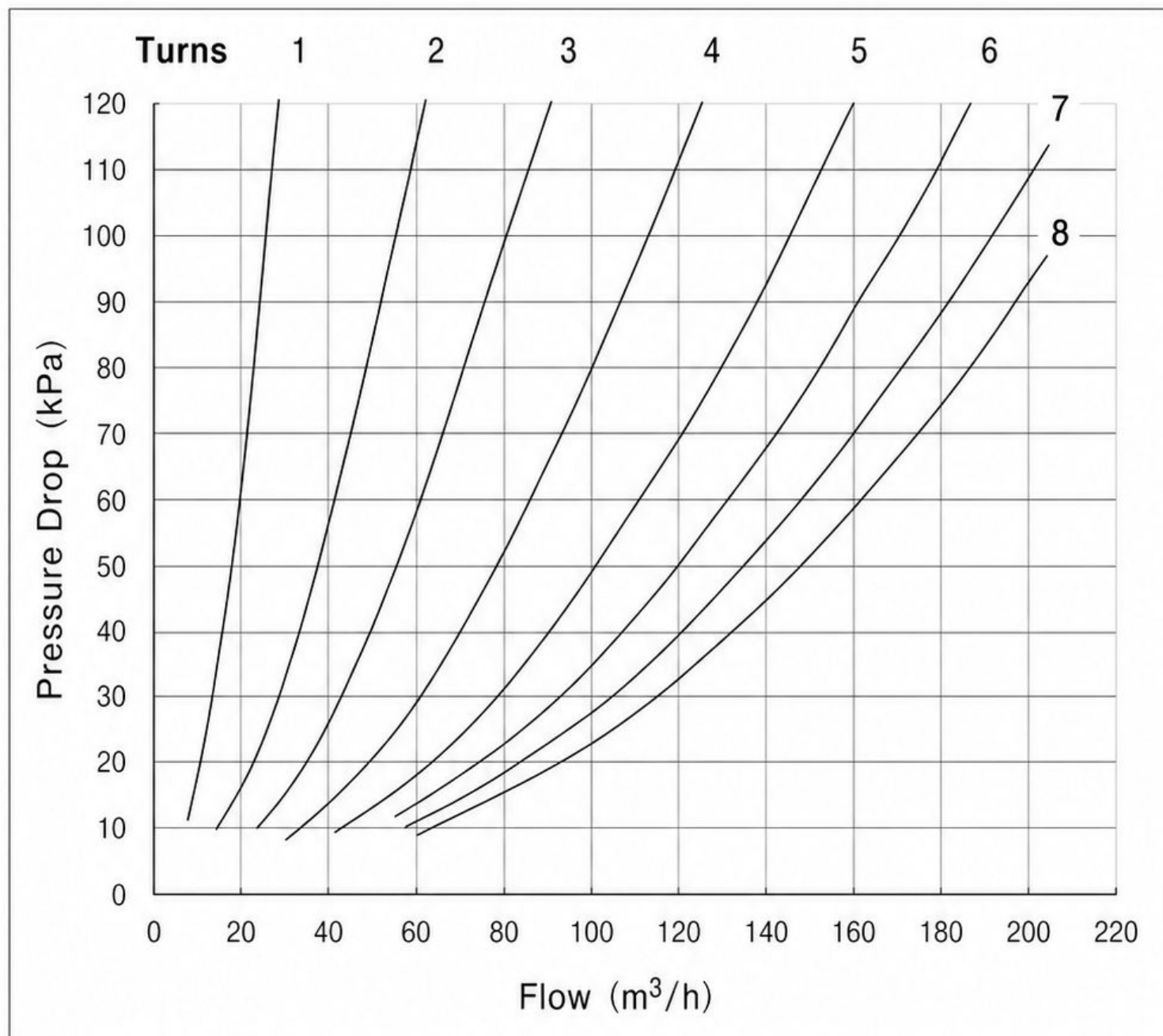
PRE-SETTING PERFORMANCE

Pre-Setting	1	2	3	4	5	6	7	8(Full Open)
Kv-value	20.63	28.71	39.58	53.51	71.47	84.64	97.37	108.35
Cv-value	24.14	33.59	46.3	62.61	83.62	99.03	113.93	126.77

NOTE: The above performance data is for water at a temperature of 20 °C.

Flow diagram V4-BLC-GP16-X, DN 100

FLOW PERFORMANCE

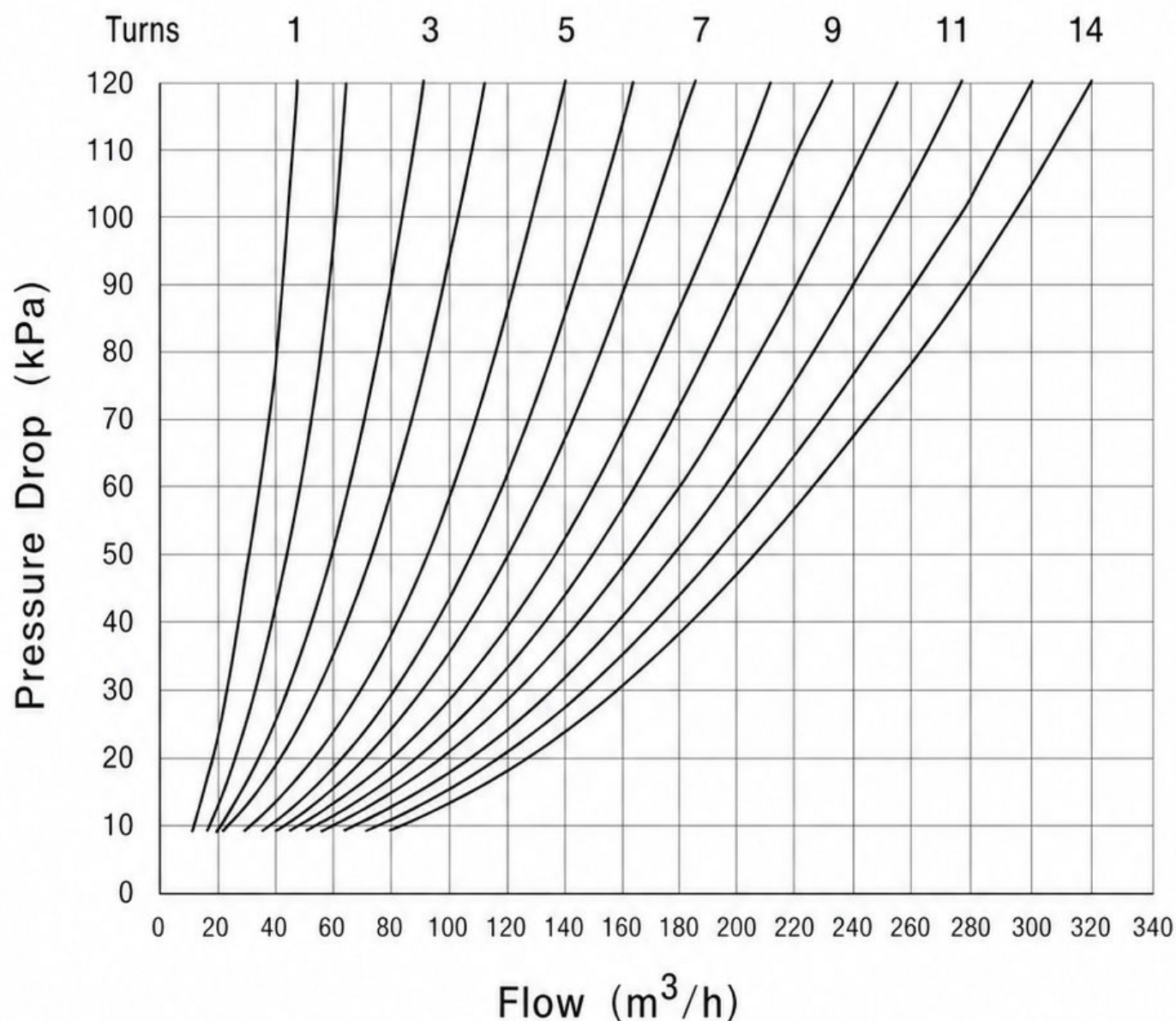


PRE-SETTING PERFORMANCE DATA

Pre-Setting	1	2	3	4	5	6	7	8(Full Open)
Kv-value	25.71	55.01	78.87	112.33	145.18	170.93	192.52	210.3
Cv-value	30.08	64.36	92.28	131.43	169.86	199.98	225.25	246.05

Flow diagram V4-BLC-GP16-X, DN 125

FLOW DIAGRAM

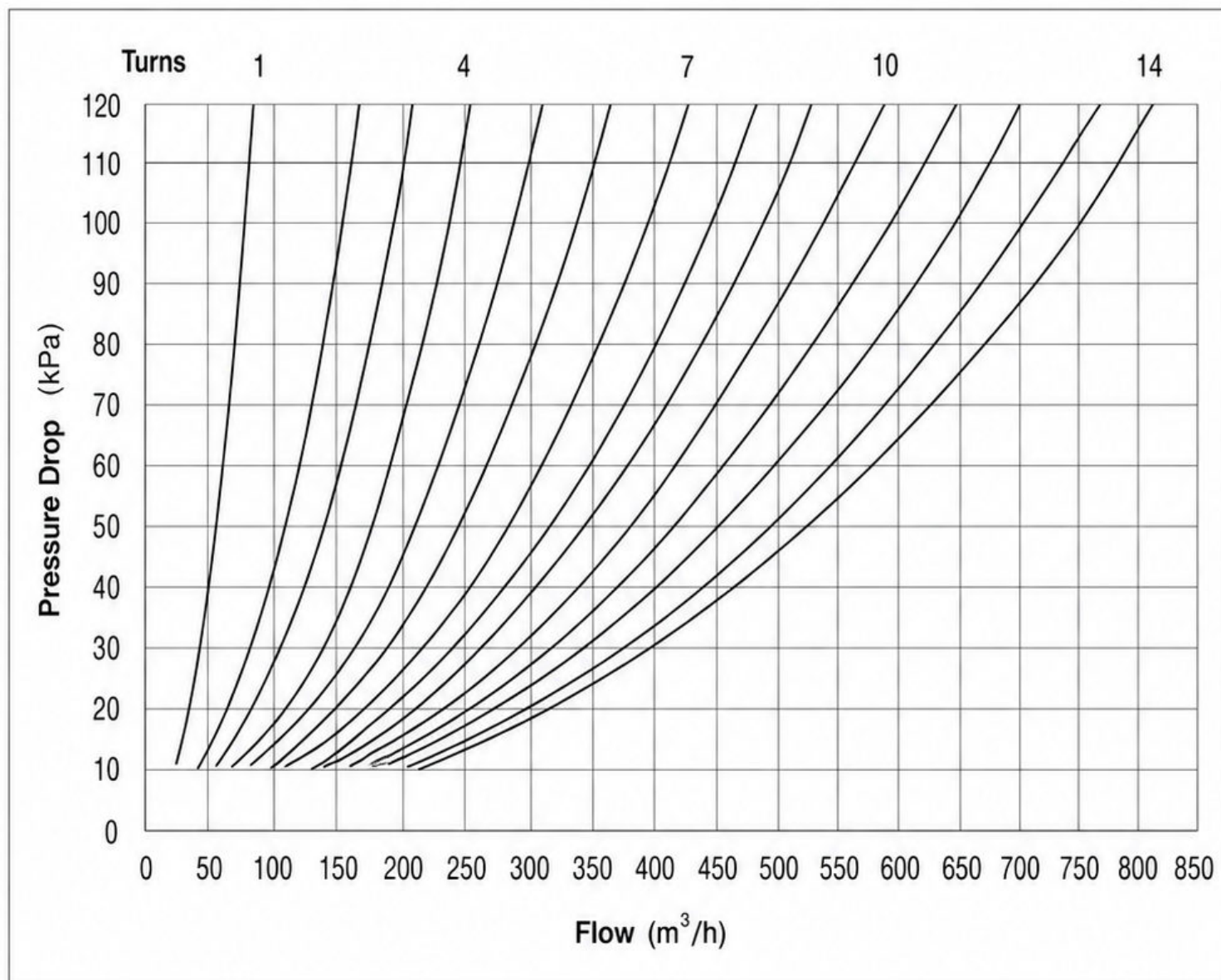


PRE-SETTING PERFORMANCE TABLE

Pre-Setting	1	2	3	4	5	6	7	8	9	10	11	12	13	14(Full Open)
Kv-value	42.81	60.00	77.59	99.75	129.45	155.51	171.97	196.17	213.2	233.55	256.2	277.99	298.24	310.37
Cv-value	50.08	70.2	90.78	116.71	151.46	181.95	201.21	229.52	249.4	273.26	299.8	325.25	348.94	363.13

Flow diagram V4-BLC-GP16-X, DN 200

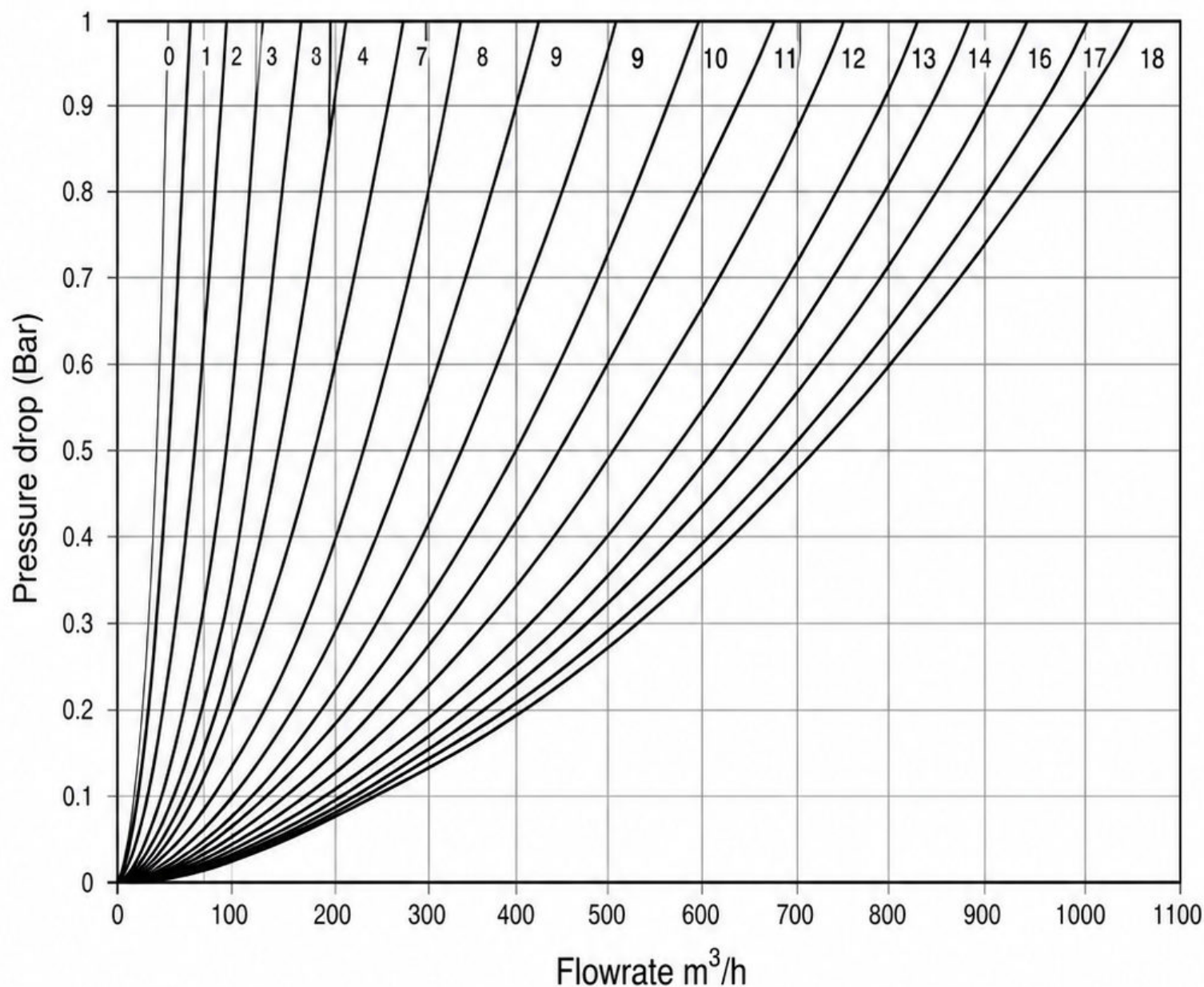
FLOW DIAGRAM



PRE-SETTING CHARACTERISTICS

Pre-Setting	1	2	3	4	5	6	7	8	9	10	11	12	13	14(Full Open)
Kv-value	64.4	133.97	171.79	219.81	265.99	329.34	389.79	441.3	483.9	542.14	595.6	650.59	711.25	743.78
Cv-value	75.35	156.74	200.65	257.17	334.61	385.33	456.05	516.32	566.2	634.31	696.8	761.19	744.41	881.92

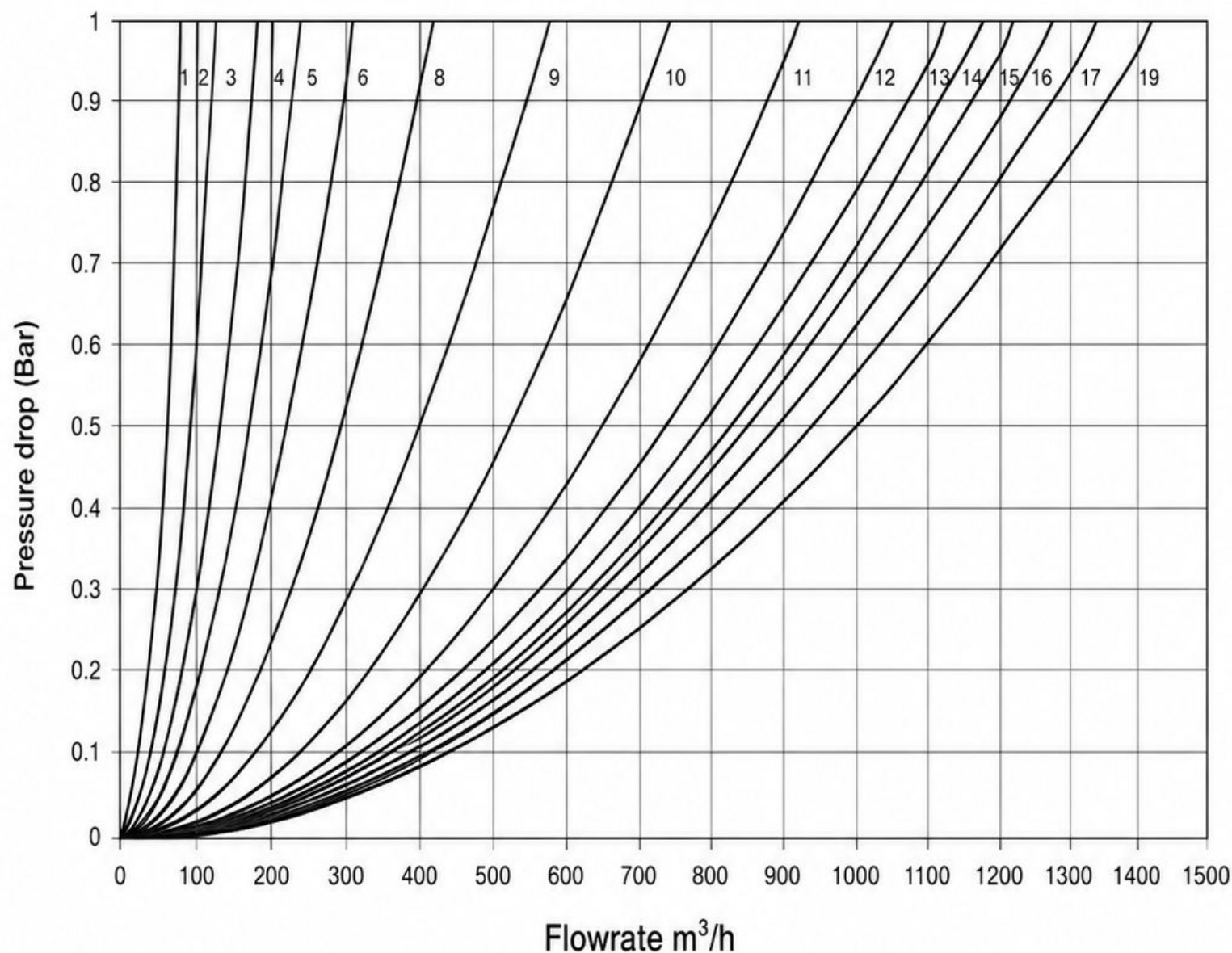
Flow diagram V4-BLC-GP16-X, DN 250

FLOW DIAGRAM

Kv-VALUE TABLE

Number of Rotations	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Kv-value	0	53.0	65.5	88.8	131.5	177.4	224.1	275.4	349.3	425.7	505.9	500.5	671.4	755.2	836.6	901.0	966.9	1030.6	1058.8

Flow diagram V4-BLC-GP16-X, DN 300

FLOW DIAGRAM



Number of Rotations	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Kv-value	0	70.6	79.9	83.9	123.6	176.1	233.3	307.5	416.3	566.4	744.6	924.4	1049.0	1130.3	1182.2	1222.2	1276.9	1340.3	1422.6	1459.5