comap

NexusValve Vertex DN 65 - 350

that's excellence.

ENG Installation and operating instruction

aalberts hydronic flow control

1. General information

1.1. Description

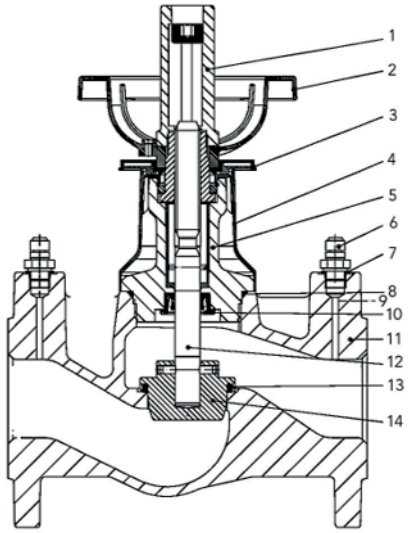
COMAP 750B and 751B Static Balancing valves are bronze flanged variable orifice double regulating valves. Those straight through balancing valves are used when precise commissioning of heating, air conditioning and plumbing circuits is required. They are used for hydronic balancing of flow for heating and cooling installations.

Versions: Dimensions DN65 - DN350

1.2. Benefits

- Free of maintenance
- Travel limiter
- Non-rising handwheel
- Non-rotation lock for all nominal diameters
- External stem thread
- Free of FCKW and PCB
- Complete insulation possible

1.3. Conception



1. Stroke limiter
2. Cap
3. Handwheel
4. Display
5. Insulating cap
6. Bonnet
7. Pressure gauge stud
8. Gasket
9. O-ring
10. Sealing ring
11. Body
12. Sterm
13. Soft seal
14. Plug

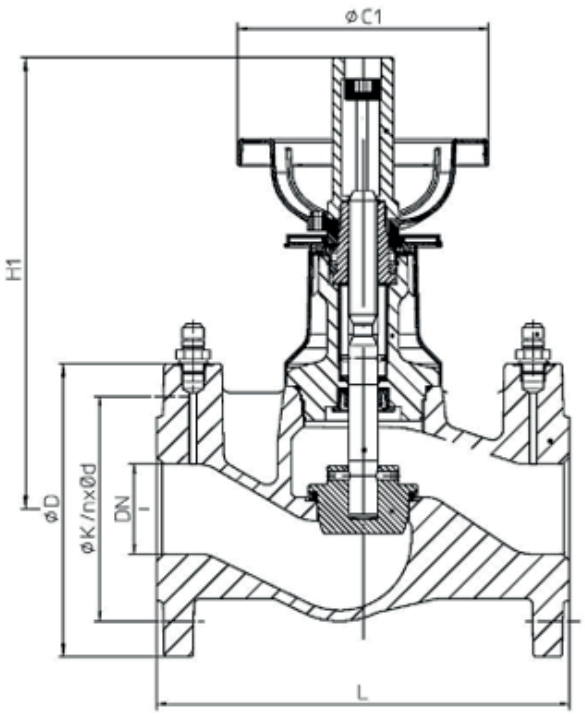
1.4. Materials

Body	ZN-JL1040, EN-GJL-250
Bonnet	EN-JL1040, EN-GJL-250
Plug	Zinc Lamella coating
Soft Seal	PTFE +25% C
Handwheel	<DN50: PA 6 >DN60: DC01
Insulating cap, cap	PA 6.6
Display	ABS
Sealing ring, o-ring	EPDM

1.5. Spécifications et comformités

Operating temperature-10°C to 120°C (for a short time up to +130°C).
Nominal pressure : PN 16
Selection of possible flow media: Water, water with cold protection...

1.6. Dimensions



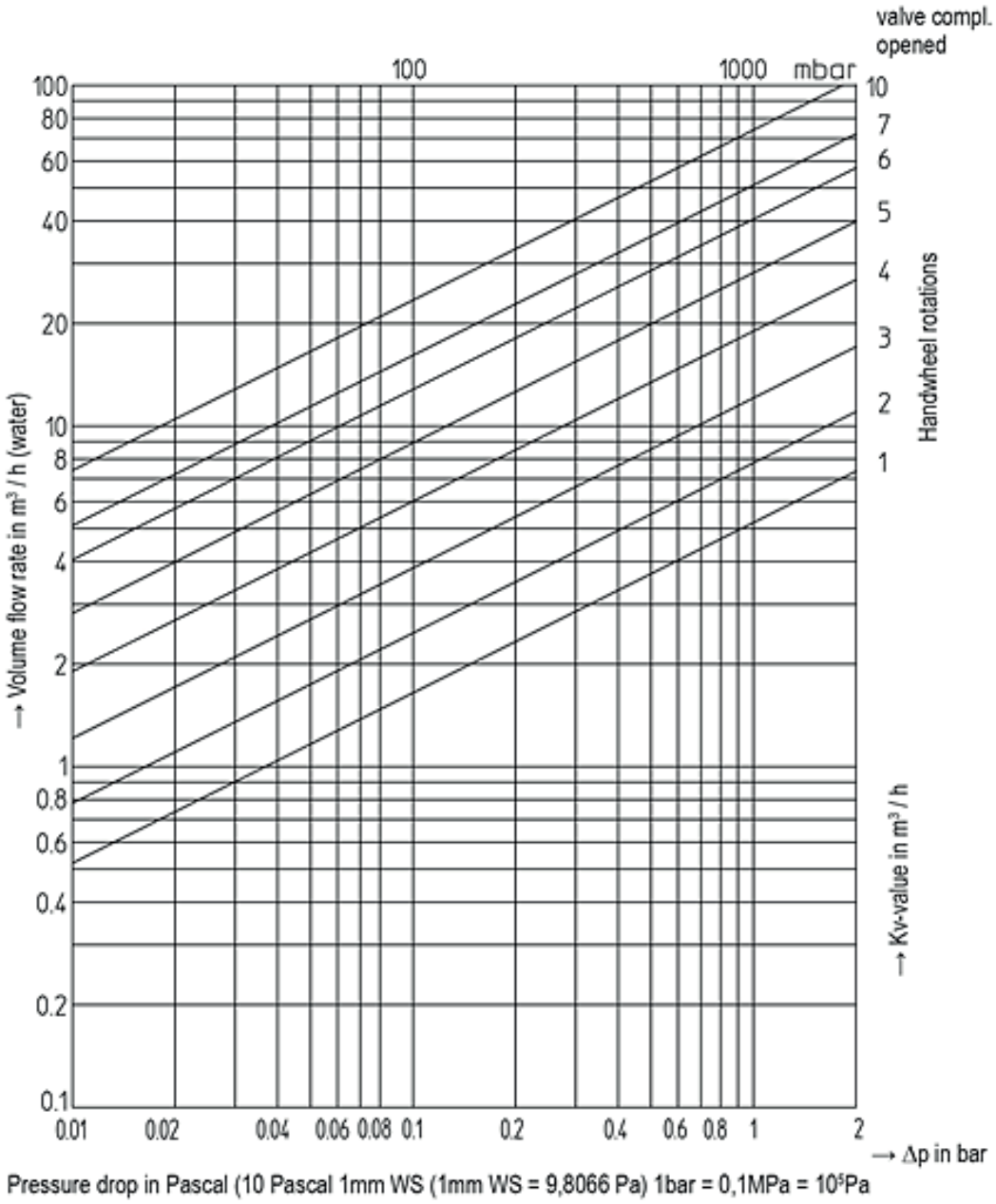
Model	L	H1	C1	Weight (Kg)
DN65	290	315	180	18.5
DN80	310	355	180	24.5
DN100	350	370	180	40
DN125	400	400	110	79
DN150	480	450	110	91
DN200	600	540	210	170
DN250	730	785	520	265
DN300	850	890	520	360
DN350	980	1035	640	535

1.7. Product Line

DN	Kvs value m3/h	Zeta value	Limitation Delta P (bar)	Poids (Kg)
Delta P (bar)	Code	4	16	751504
65	74.4	5.1	16	751512
80	111	5.3	16	751513
100	165	5.9	16	751514
125	242	6.7	16	751516
150	372	5.8	16	751518
200	704	5.2	10	751520
250	812	9.5	9	750750
300	1380	6.8	6	750800
350	1651	8.8	4.5	750850

2. Specifications

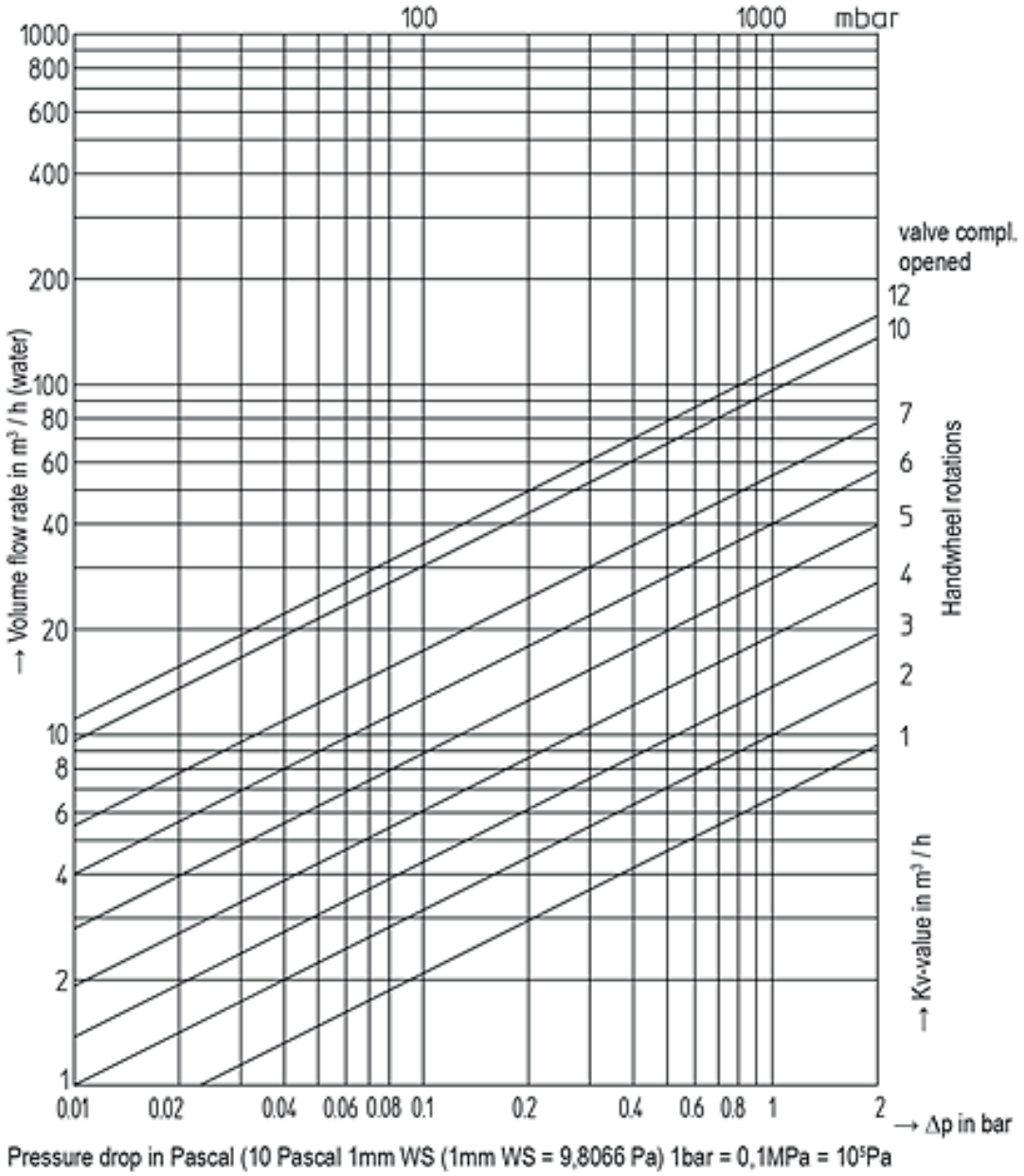
2.1. Specification DN65



Pre-setting	Close 0	0.5	1	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7.0
Kv-value	-	2.98	5.30	6.64	7.80	9.60	12.1	15.2	19.0	23.6	29.1	35.2	41.3	47.0	52.1

Pre-setting	8.0	9.0	Open 10.0
Kv-value	60.7	67.9	Kvs 74.4

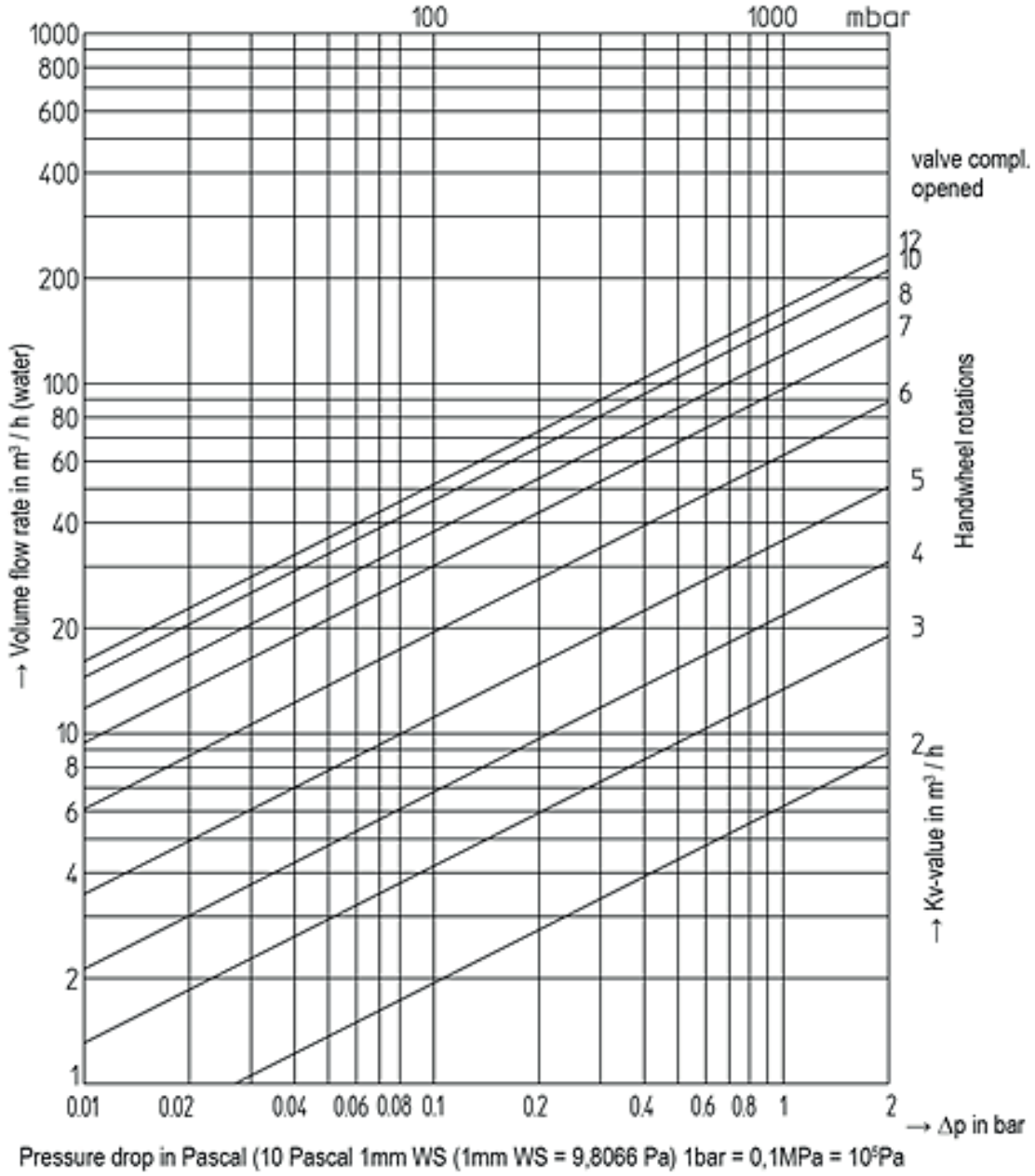
2.2. Specification DN80



Pre-setting	Close 0	0.5	1	1.5	2.0	2.5	3	3.5	4	4.5	5	6	7.0	8.0	9.0
Kv-value	-	3.35	6.60	8.52	10.0	11.7	13.7	16.1	19.2	23.2	28.1	40.4	55.4	70.9	84.8

Pre-setting	10.0	11.0	Open 12.0
Kv-value	96.1	104	Kvs 111

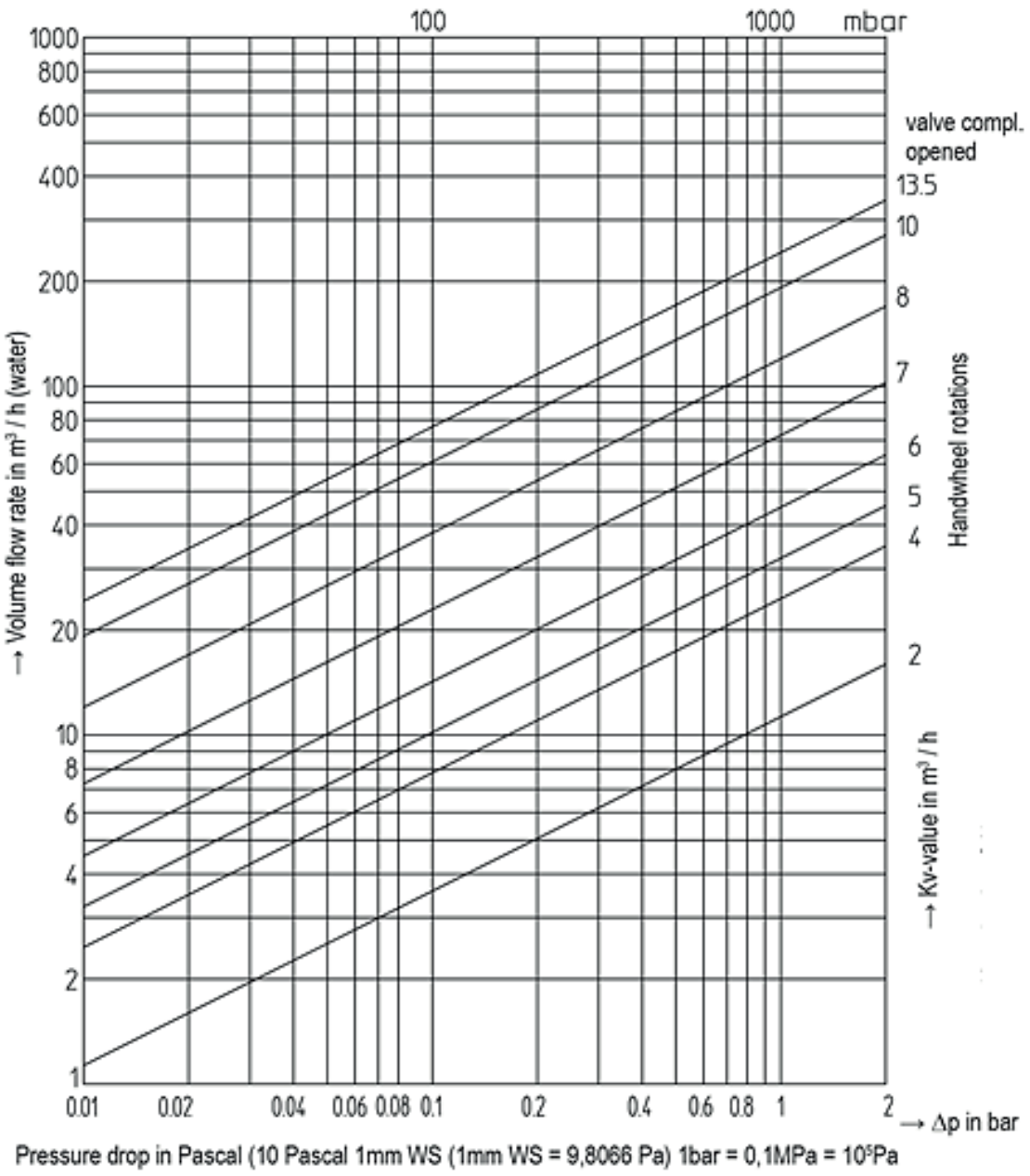
2.3. Specification DN100



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 10^5Pa)

Pre-setting	Close 0	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6.0	6.5	7.0	7.5	8.0
Kv-value	-	3.80	6.20	9.60	13.4	17.3	21.8	27.6	35.7	47.2	62.4	79.3	96.6	110	121
Pre-setting	9.0	10.0	11.0	Open 12.0											
Kv-value	137	148	157	Kvs 165											

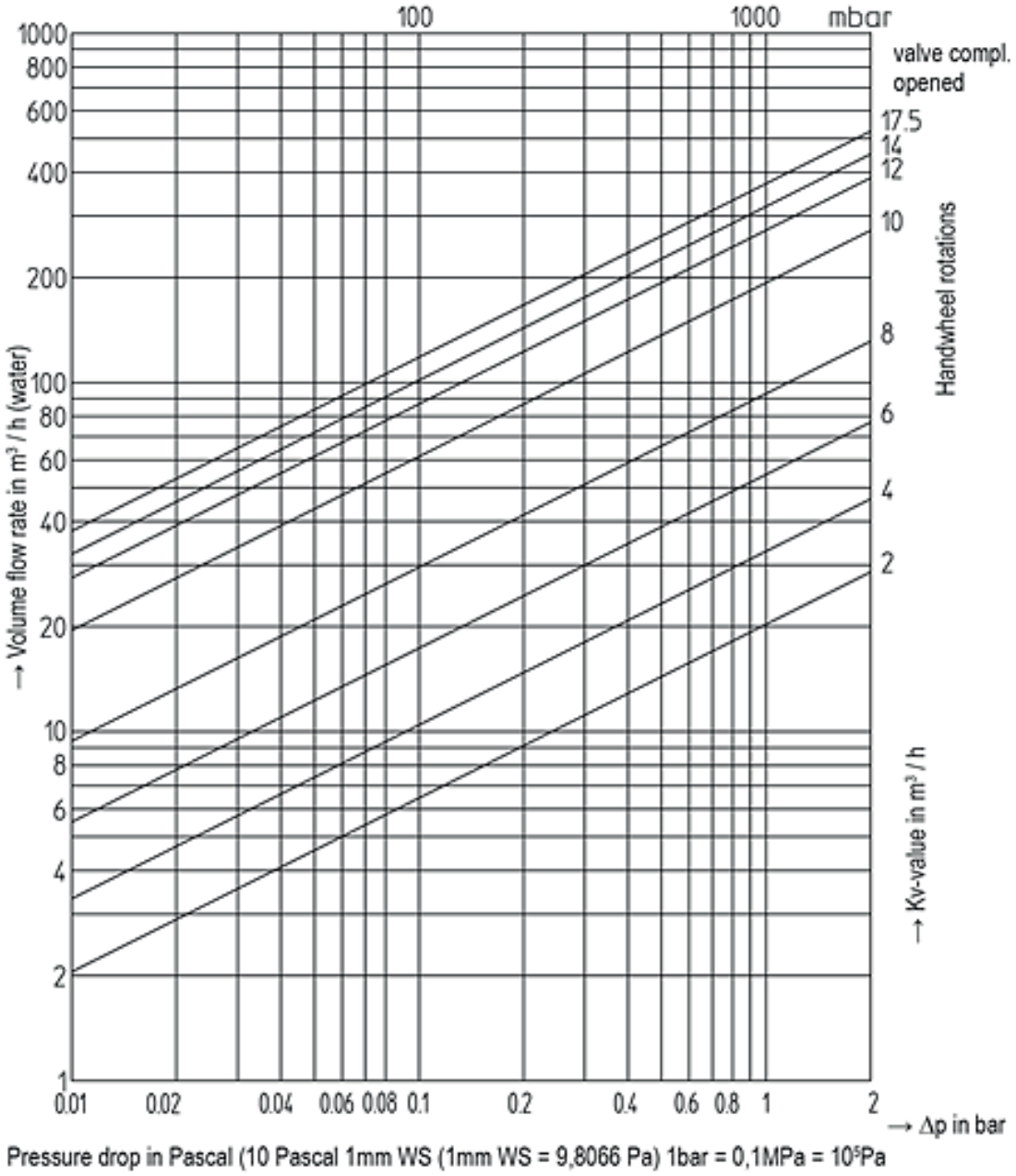
2.4. Specification DN125



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa)

Pre-setting	Close 0	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6.0	6.5	7.0	7.5	8.0
Kv-value	-	8.30	11.3	14.4	17.7	21.1	24.6	28.2	32.3	37.4	44.9	56.1	72.5	93.2	120
Pre-setting	9.0	10.0	11.0	12.0	13.0	Open 13.5									
Kv-value	162	225	247	263	276	Kvs 283									

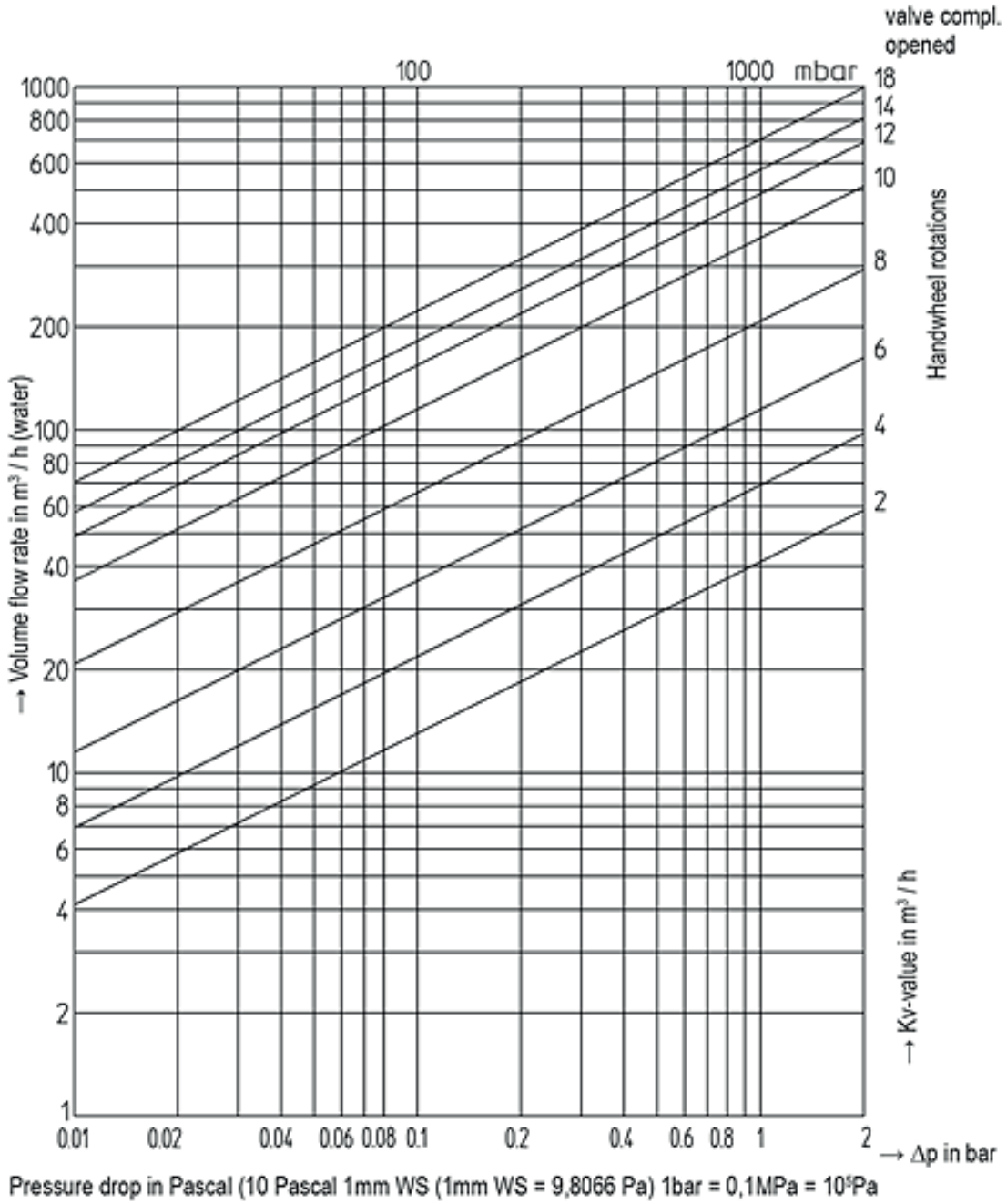
2.5. Specification DN150



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa)

Pre-setting	Close 0	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6.0	6.5	7.0	7.5	8.0
Kv-value	-	16.2	20.4	23.8	26.7	29.5	33	37.6	42.3	48.0	54.5	61.5	69.6	80.0	92.9
Pre-setting	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	Open 17.5					
Kv-value	136	193	240	274	300	320	337	352	365	Kvs 372					

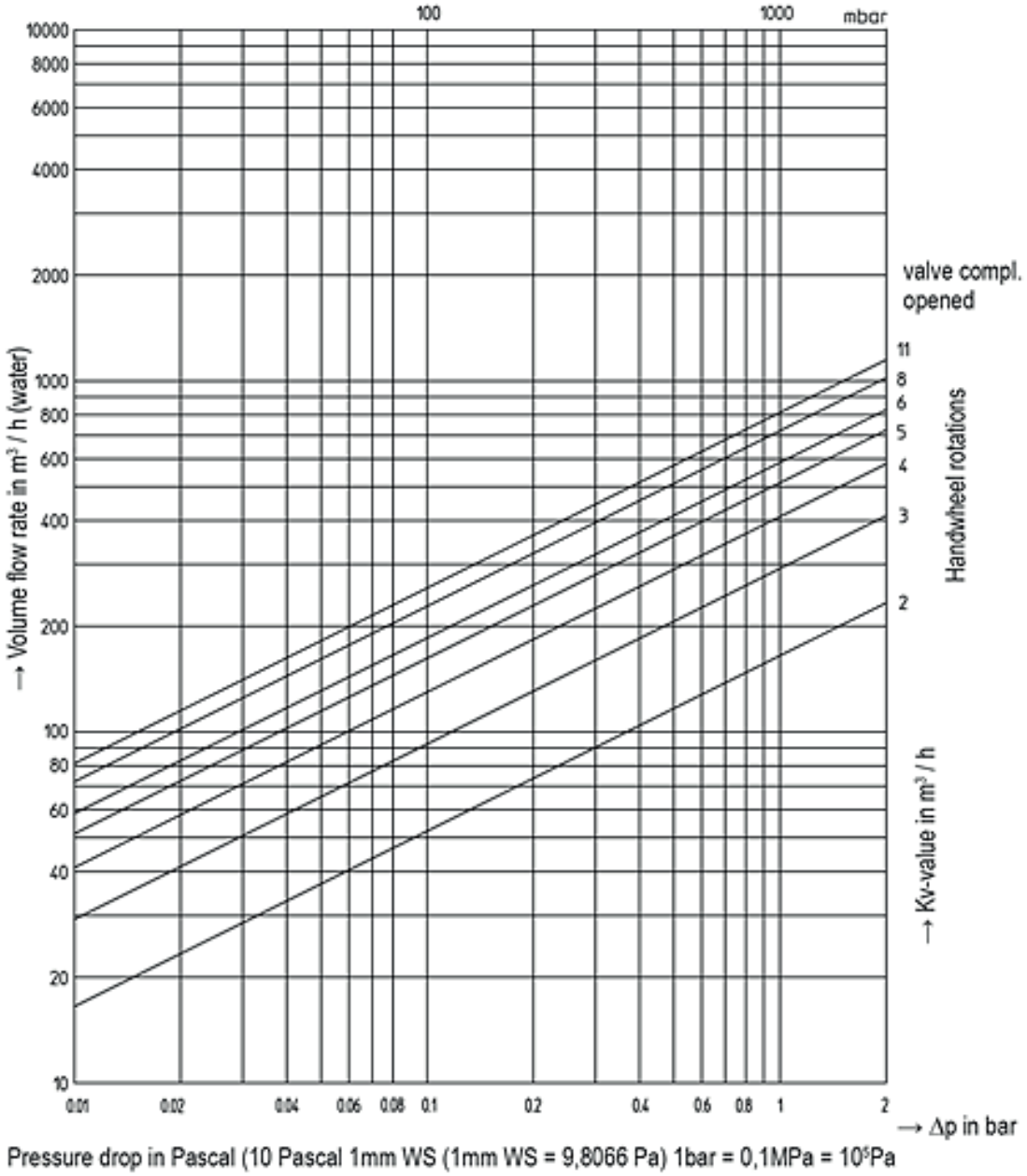
2.6. Specification DN200



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa

Pre-setting	Close 0	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6.0	6.5	7.0	7.5	8.0
Kv-value	-	32.5	41.3	48.9	55.5	62.1	69.3	77.8	88.1	101	115	133	154	179	208
Pre-setting	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	Open 18.0					
Kv-value	284	364	435	489	537	575	613	646	677	Kvs 704					

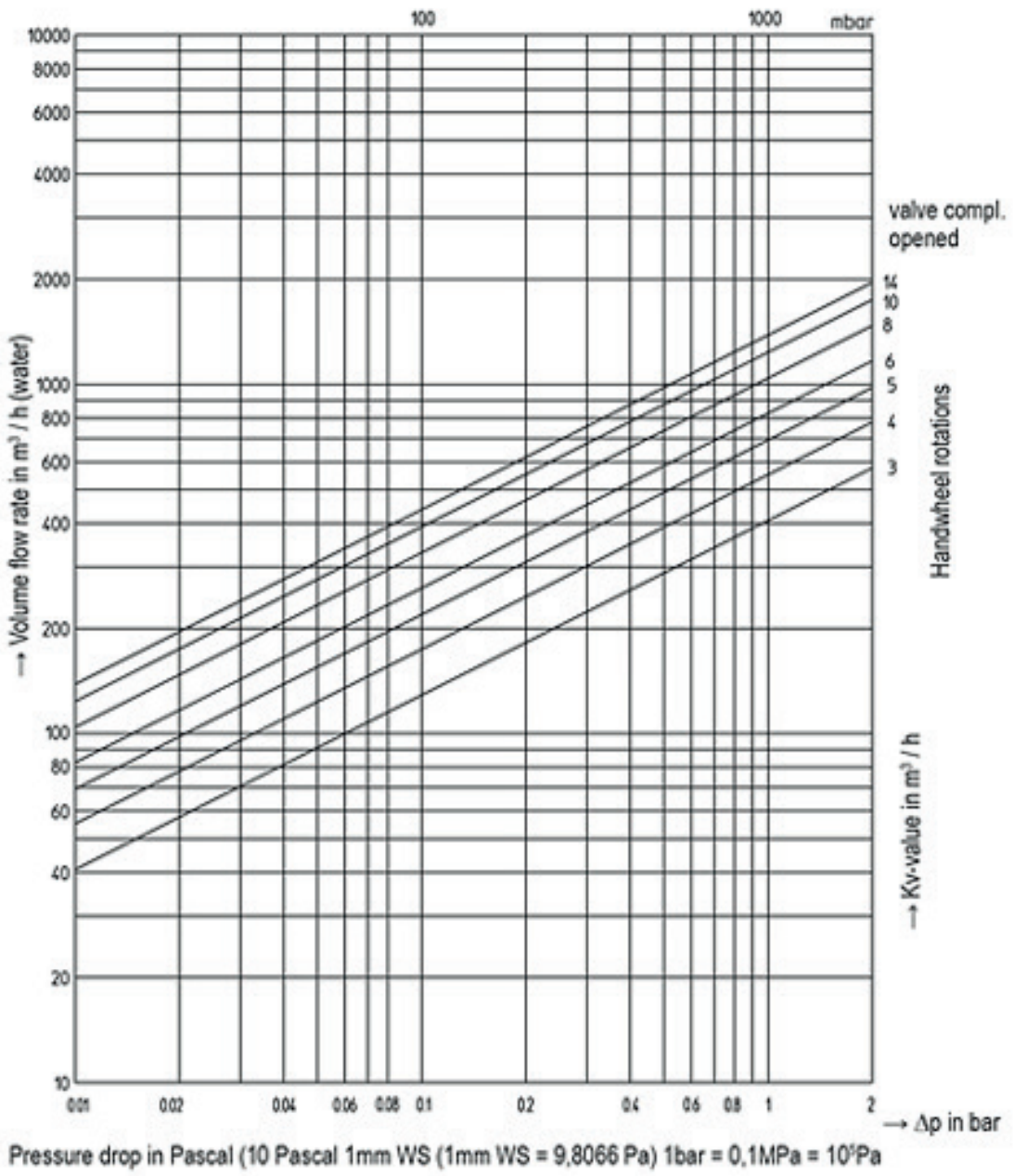
2.7. Specification DN250



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa)

Pre-setting	Close 0	1.5	2.0	2.5	3	3.5	4	4.5	5	5.5	6.0	6.5	7.0	7.5	8.0
Kv-value	-	32.5	41.3	48.9	55.5	62.1	69.3	77.8	88.1	101	115	133	154	179	208
Pre-setting	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	Open 18.0					
Kv-value	284	364	435	489	537	575	613	646	677	Kvs 704					

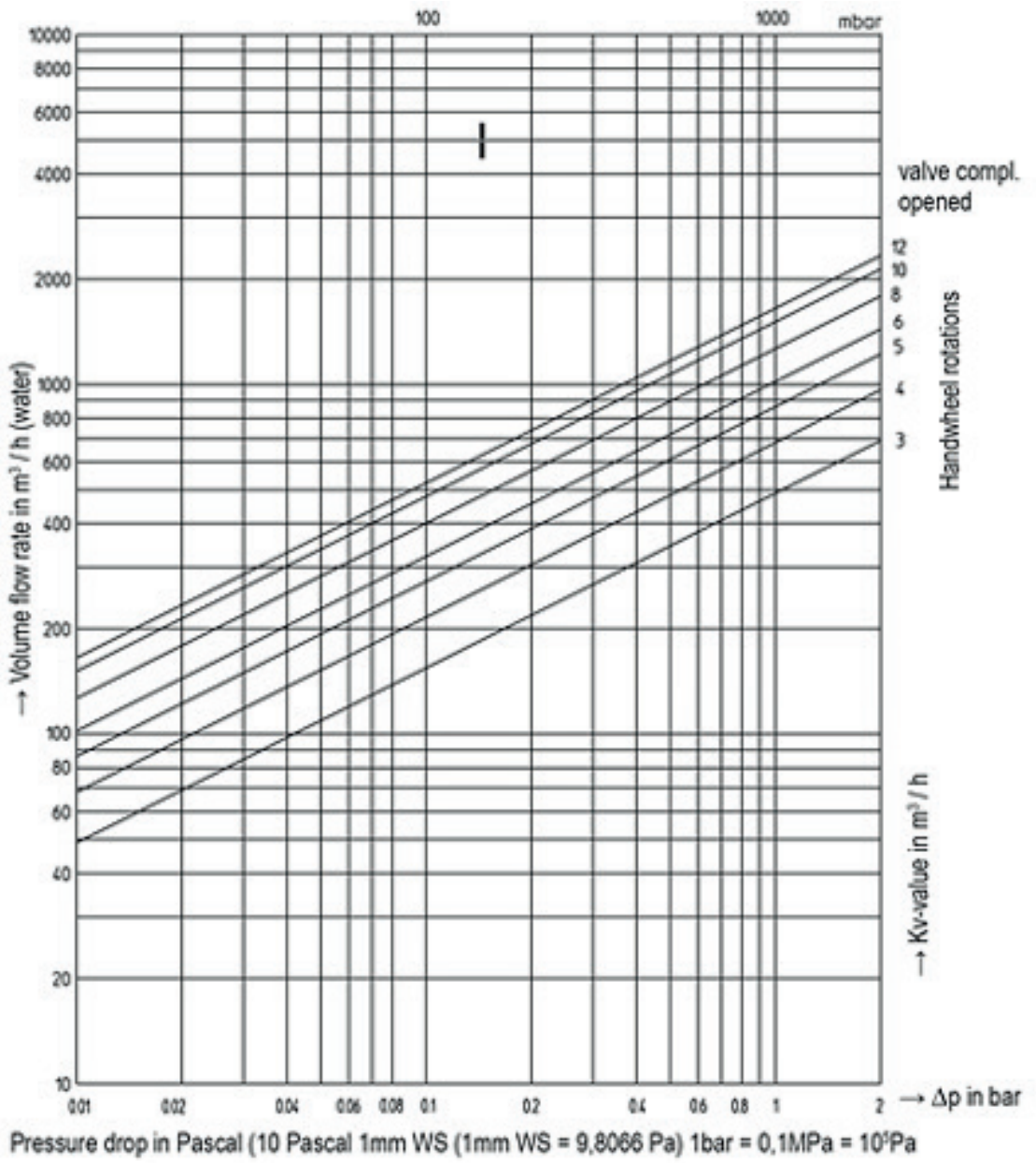
2.8. Specification DN300



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa)

Pre-setting	Close 0	1	2	3	4	5	6	7	8	9	10	11	12	13	Open 14
Kv-value	-	109	248	411	560	696	825	944	1044	1138	1226	1291	1324	1345	Kvs 1380

2.9. Specification DN350



Spadek ciśnienia w Paskalach
(10 Paskali = 1 mm H2O, 1 mm H2O = 9,8066 Pa, 1 bar = 0,1MPa = 105Pa)

Pre-setting	Close 0	1	2	3	4	5	6	7	8	9	10	11	Open 12
Kv-value	-	128	300	495	677	851	1019	1163	1272	1386	1513	1606	Kvs 1651

comap

Contact us !

We supply products for the installation industry in more than 70 countries. This is done from Flamco sales offices and via distributors who know the local market, and can give you the right advice at all times.

Aalberts hydronic flow control

Nederland
Postbus 30110 / 1303 AC Almere
Fort Blauwkapel 1 / 1358 AD Almere

+31 (0)36 526 2300 / nl.nfo@aalberts-hfc.com

flamco.aalberts-hfc.com

00007_2019-06_ENG_PRODATSH_static-valve-750b_COMAP-C_2024

aalberts hydronic flow control