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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Van cân bằng tĩnh VPS-N

tay quay số, đo lưu lượng · DN15–DN500 · PN16

VPS-N Johnson Controls – van cân bằng tĩnh DN15–DN500, PN16, Kvs 5,8–7678, tay quay số cài đặt trước, đóng kín, đo lưu lượng cho cân bằng hệ nước HVAC.

Mã: VPS-N · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/vps-n-johnson-controls-van-can-bang-tinh.html



www.dlk.com.vn

Balancing Valve

VPS-N Series Static Balancing Valves

Designed for various applications, especially for flow rate balancing in HVAC system, with good flow characteristics.



DN15~DN50



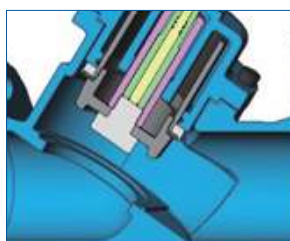
DN65~DN500

Features

①



②



③



① Digit Indication Hand-wheel

Accurate and clear indication of the scale, enabling operators of easy and correct commissioning.

② Full Closing Design

Balancing design enables easy closing of valve with zero leakage.

③ High-grade Materials for DN65~DN500

QT450-10 High-grade ductile iron for valve body. High-grade stainless steel for balancing disc and stem with sound anti-corrosion performance.

Ordering Information

Model	Size (in.)	DN (mm)	Kvs	Temp (°C)
VPS015N-C	1/2"	15	5.8	-25~150
VPS020N-C	3/4"	20	8	
VPS025N-C	1"	25	11	
VPS032N-C	1-1/4"	32	17	
VPS040N-C	1-1/2"	40	25	
VPS050N-C	2"	50	34	
VPS065N-C	2-1/2"	65	107	
VPS080N-C	3"	80	153	
VPS100N-C	4"	100	272	

Model	Size (in.)	DN (mm)	Kvs	Temp (°C)
VPS125N-C	5"	125	430	-25~150
VPS150N-C	6"	150	647	
VPS200N-C	8"	200	1085	
VPS250N-C	10"	250	1630	
VPS300N-C	12"	300	2495	
VPS350N-C	14"	350	3229	
VPS400N-C	16"	400	4888	
VPS450N-C	18"	450	6433	
VPS500N-C	20"	500	7678	

Specification

- Application: HVAC system
- Function: Balancing, pre-setting, measuring, closing
- PN: PN16
- Connection Standard: DN15~DN50: ISO7-1 Rp
DN65~DN500: ISO7005-2
- Temperature: -25° C ~150° C
- Valve Body: DN15~DN50: Brass Hpb59-1
DN65~DN500: Ductile iron QT450-10
- Stem: DN15~DN50: Brass
DN65~DN500: Stainless Steel
- Balancing disc: DN15~DN50: Brass
DN65~DN500: Stainless Steel
- Hand-wheel: DN15~DN50: PA
DN65~DN500: Al

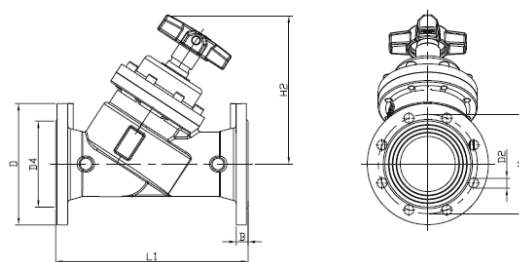
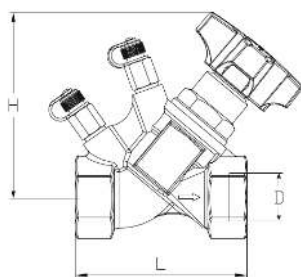


Balancing Valve

Valve opening vs Kv

	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.62	0.57	1.59	2.19	3.00	3.92	8.73	11.2	17.8	28.8	63.3	21.5	31.3	30.2	84.0	125.2	87.6	19.9
1.0	0.98	0.97	2.31	3.47	4.66	5.96	9.88	13.1	20.9	41.8	84.8	22.6	32.2	34.0	116.4	142.9	113.3	39.8
1.5	1.88	2.23	3.02	4.91	5.95	7.87	13.0	14.6	22.7	49.5	111.2	23.8	33.3	41.4	145.6	156.3	166.1	59.6
2.0	2.92	3.77	3.78	8.46	7.94	12.0	16.7	16.3	25.9	60.0	132.0	27.7	41.6	61.1	167.5	178.9	200.5	79.5
2.5	3.89	5.00	6.16	11.9	12.3	20.7	18.0	18.0	30.5	76.0	154.0	40.9	65.8	93.5	199.1	204.5	243.6	99.4
3.0	4.88	6.26	8.45	14.3	19.5	28.1	22.0	20.8	40.8	110.3	194.4	60.7	97.5	126.0	224.5	217.2	284.9	119.3
3.5	5.54	7.63	10.2	16.0	22.2	32.1	29.8	25.2	63.3	169.8	247.4	95.1	151.1	161.3	250.6	256.7	317.5	145.6
4.0	5.78	8.04	10.9	16.9	25.1	34.2	41.0	34.8	101.0	215.6	310.0	161.8	266.3	246.9	334.7	278.5	365.1	171.9
4.5	—	—	—	—	—	—	53.3	50.5	132.6	260.5	363.5	250.5	401.6	387.7	482.5	407.8	419.2	236.4
5.0	—	—	—	—	—	—	63.1	70.0	157.4	298.3	416.5	353.5	537.5	557.3	628.3	538.8	535.8	300.9
5.5	—	—	—	—	—	—	71.3	83.3	184.0	327.9	471.3	447.1	665.6	739.7	832.9	670.9	631.3	487.6
6.0	—	—	—	—	—	—	76.6	95.3	209.9	354.8	512.8	522.0	768.5	902.8	1061.7	965.6	815.3	674.3
6.5	—	—	—	—	—	—	82.0	107.0	232.8	376.7	533.9	591.7	870.7	1032.6	1242.4	1273.8	1116.6	1070.2
7.0	—	—	—	—	—	—	88.4	118.0	247.7	382.7	559.5	649.3	942.1	1156.7	1411.5	1527.1	1500.8	1466.1
7.5	—	—	—	—	—	—	94.5	128.3	257.2	392.5	591.0	708.4	1032.5	1268.7	1539.5	1834.0	1789.8	1747.0
8.0	—	—	—	—	—	—	98.9	140.0	272.0	404.4	610.3	762.9	1110.8	1375.6	1684.6	2168.0	2053.2	2027.8
8.5	—	—	—	—	—	—	102.3	147.9	272.0	418.8	633.1	820.3	1200.0	1473.3	1772.1	2288.6	2297.1	2212.8
9.0	—	—	—	—	—	—	106.6	153.0	272.0	430.0	647.0	845.0	1266.8	1583.1	1896.6	2460.6	2503.3	2397.7
9.5	—	—	—	—	—	—	—	—	—	—	—	889.9	1314.5	1676.5	2011.1	2566.7	2794.6	2581.3
10.0	—	—	—	—	—	—	—	—	—	—	—	919.6	1376.7	1771.2	2109.4	2701.7	2956.5	2764.9
10.5	—	—	—	—	—	—	—	—	—	—	—	953.9	1435.4	1853.0	2214.8	2870.9	3169.7	2985.1
11.0	—	—	—	—	—	—	—	—	—	—	—	979.3	1485.1	1927.8	2333.3	3038.9	3402.9	3205.4
11.5	—	—	—	—	—	—	—	—	—	—	—	1013.7	1515.5	2010.0	2413.0	3176.8	3678.6	3381.0
12.0	—	—	—	—	—	—	—	—	—	—	—	1028.9	1559.0	2069.0	2510.7	3333.4	3805.6	3556.5
12.5	—	—	—	—	—	—	—	—	—	—	—	1060.0	1585.4	2117.0	2581.2	3419.9	4002.4	3641.4
13.0	—	—	—	—	—	—	—	—	—	—	—	1084.8	1630.0	2193.3	2685.2	3578.7	4134.1	3726.3
13.5	—	—	—	—	—	—	—	—	—	—	—	—	—	2257.3	2755.3	3676.8	4294.9	3845.5
14.0	—	—	—	—	—	—	—	—	—	—	—	—	—	2308.7	2771.6	3817.9	4385.9	3964.7
14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	2342.9	2800.2	3951.9	4535.0	4086.2
15.0	—	—	—	—	—	—	—	—	—	—	—	—	—	2388.8	2858.8	4066.3	4666.1	4207.7
15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	2446.0	2949.8	4198.3	4790.8	4316.1
16.0	—	—	—	—	—	—	—	—	—	—	—	—	—	2495.2	2955.5	4272.0	4864.1	4424.6
16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2993.0	4341.8	4999.2	4512.9
17.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3028.8	4437.3	5256.7	4601.1
17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3078.1	4531.5	5395.9	4721.5
18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3136.4	4600.0	5553.6	4841.9
18.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3183.6	4682.8	5739.2	4947.7
19.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3228.9	4722.8	5883.5	5053.5
19.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4753.9	5932.0	5177.6
20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4785.0	6082.4	5301.8
20.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4836.7	6269.7	5436.6
21.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4888.4	6433.3	5571.5
21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5861.1
22.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6150.7
22.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6296.8
23.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6443.0
23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6772.1
24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7101.2
24.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7389.5
25.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7677.9

Dimension



DN	D	L	H	Weight (Kg)
15	1/2"	80	102	0.8
20	3/4"	85	104	0.9
25	1"	98	105	1.2
32	1-1/4"	110	115	1.6
40	1-1/2"	120	122	2.0
50	2"	150	135	3.7

DN	B mm	D4 mm	D2 mm	D mm	L1 mm	H2 mm	Weight (Kg)
65	20	118	4-19	185	290	222	15
80	20	132	8-19	200	310	257	21
100	22	156	8-19	220	350	275	30
125	22	184	8-19	250	400	332	45
150	24	211	8-23	285	480	396	65
200	24	266	12-23	340	600	498	123
250	26	319	12-28	405	730	555	195
300	28	370	12-28	460	850	630	320
350	30	429	16-28	520	980	733	440
400	32	480	16-31	580	1100	800	630
450	40	548	20-31	640	1200	810	885
500	44	609	20-34	715	1250	900	1125

Valve pre-setting

DN15-DN50

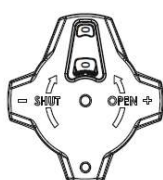


Fig 1

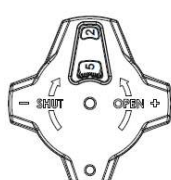


Fig 2

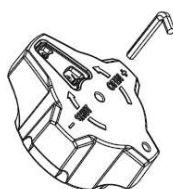


Fig 3

Fig 1: Status of closing

Fig 2: Pre-setting as 2.5 turns, indicated by two numbers. External one shows the integer while the internal one shows decimal.

Fig 3: A 3mm hexagon wrench can be used to rotate clockwise until fully closed. The pre-setting is the maximum valve opening.

DN65-DN500

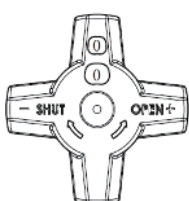


Fig 1



Fig 2

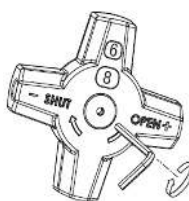


Fig 3

Fig 1: Status of closing

Fig 2: Pre-setting as 6.8 turns, indicated by two numbers. External one shows the integer while the internal one shows decimal.

Fig 3: A 5mm or 8mm hexagon wrench (for DN65-DN150 or DN200-DN500) can be used to rotate clockwise until fully closed. The pre-setting is the maximum valve opening.



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