SPECIFICATIONS

|	
DN mm	DN65 - DN400
DN inch	2"1/2 - 16"
Temperature	-20°C to 150°C
Type of body	Flanges
Application	Cold/hot water, Glycol solution concentration < 50%, Sea water
Connection	Flanged EN 1092-2 PN16
Test	EN 12266-2 (Test body safety and tightness, Test seat tightness)
Options	Other specifications on request

ADVANTAGES

1. Omeax OS static balancing valve can be used in heating and cooling system to balance the flow

2. The digital hand wheel can display desired scale accurately (0.1cycle), which will allow operator to set the balancing valve quickly

3. The valve can lock the max flow at random position without affecting the valve opening and close. When the valve is locked, the valve can be set between 0 degree and max flow

4. Complete shut-off design Balanced valve core makes it easy to close the valve by rotating hand wheel regardless of the medium pressure

5. Self-sealing measuring plugs: two test plugs on the both ports of the valve. Use a "Hydraulic Balancing Debugging Instrument"to measure the differential pressure value. Then you can easily regulate the flow by handwheel

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DIMENSIONS
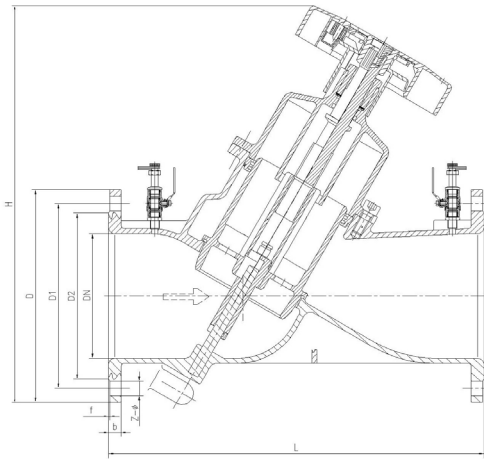
DN mm	DN inch	PFA	L	D	D1	f	b	H	Z-Ød
65	2"1/2	16	290	185	145	3	19	285	4-Ø19
80	3"	16	310	200	160	3	19	324	8-Ø19
100	4"	16	350	220	180	3	19	355	8-Ø19
125	5"	16	400	250	210	3	19	410	8-Ø19
150	6"	16	480	285	240	3	19	477	8-Ø23
200	8"	16	600	340	295	3	20	613	12-Ø23
250	10"	16	730	405	355	3	22	740	12-Ø28
300	12"	16	850	460	410	4	25	828	12-Ø28
350	14"	16	980	520	470	4	27	970	16-Ø28
400	16"	16	1100	580	525	4	28	1100	16-Ø31

NOMENCLATURE
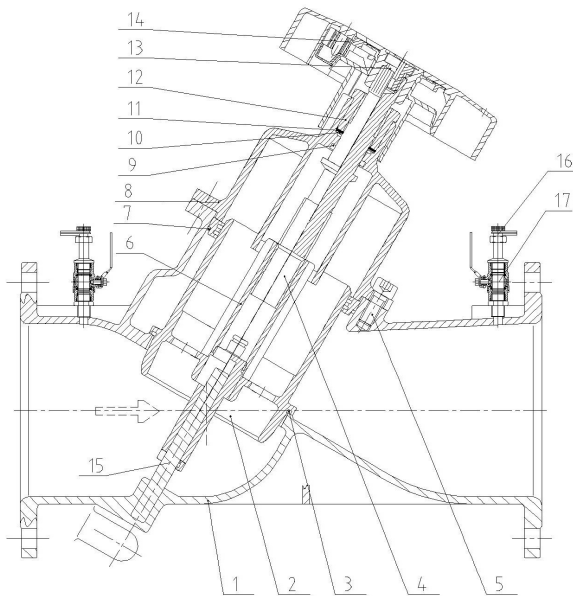
Designation	Materials
1.Body	Stainless steel 316L
2.Disc	Stainless steel 316L
3.O-ring	FKM
4.Stem	Stainless steel 316L
5.Bolt	Stainless steel 304
6.Stem-nut	Aluminium-bronze
7.O-ring	FKM
8.Bonnet	Stainless steel 316L
9.O-ring	FKM
10.Gasket	Steel
11.Gasket	Graphite
12.Stem nut	Aluminium-bronze
13.Plug	Stainless steel 304
14.Handwheel	Aluminium alloy
15.Guide stem	Stainless steel 316L
16.Pressure testing joint	Brass
17.Ball valve	Stainless steel 316L

KV value

Number of turn	DN														
	20	25	32	40	50	65-2	80	100	125	150	200	250	300	350	400
0.5	0.511	0.61	1.14	1.76	2.56	1.8	2	2.6	5.4	6.6	–	–	–	–	–
1	0.756	1.04	1.91	3.30	4.2	3.4	4	6	10.4	12	–	–	–	–	–
1.5	1.18	2.10	3.10	4.60	7.1	4.8	6	9	15.4	22	–	–	–	–	–
2	1.90	3.61	4.65	6.10	11.8	6.6	8	11.5	21.5	40	40	90	–	–	–
2.5	2.80	5.31	7.11	8.81	16.1	9.3	11	16	27	65	50	110	–	–	–
3	3.88	6.90	9.50	12.5	21.5	16.3	14	26	36	100	65	140	150	109	125
3.5	4.76	8.00	11.9	16.0	26.4	25.5	19.6	44	55	135	90	195	230	129	148
4	5.71	8.71	14.1	19.1	33	35.4	29	63	83	169	120	255	300	148	171
4.5	–	–	–	–	–	44.5	41	80	114	207	165	320	370	170	208
5	–	–	–	–	–	52	55	98	141	242	225	385	450	207	264
5.5	–	–	–	–	–	60.6	68	115	167	279	285	445	535	254	326
6	–	–	–	–	–	66	80	132	197	312	340	500	620	302	386
6.5	–	–	–	–	–	73	92	145	220	340	400	545	690	352	449
7	–	–	–	–	–	77	103	159	249	367	435	590	750	404	515
7.5	–	–	–	–	–	80.6	113	175	276	391	470	660	815	471	590
8	–	–	–	–	–	85	120	190	300	420	515	725	890	556	680
9	–	–	–	–	–	–	–	–	–	–	595	820	970	784	894
10	–	–	–	–	–	–	–	–	–	–	650	940	1040	957	1140
11	–	–	–	–	–	–	–	–	–	–	710	1050	1120	1100	1250
12	–	–	–	–	–	–	–	–	–	–	765	1185	1200	1260	1400
13	–	–	–	–	–	–	–	–	–	–	–	–	1320	1420	1560
14	–	–	–	–	–	–	–	–	–	–	–	–	1370	1610	1730
15	–	–	–	–	–	–	–	–	–	–	–	–	1400	1760	1940
16	–	–	–	–	–	–	–	–	–	–	–	–	1450	1870	2140
17	–	–	–	–	–	–	–	–	–	–	–	–	–	1960	2280
18	–	–	–	–	–	–	–	–	–	–	–	–	–	2040	2410
19	–	–	–	–	–	–	–	–	–	–	–	–	–	2130	2530
20	–	–	–	–	–	–	–	–	–	–	–	–	–	2200	2630
21	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2710
22	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2780

*The Kv value expresses the amount of flow in a regulating valve at a given valve position with a pressure loss of 1 bar. The special situation with a fully open valve determines the Kvs value. The amount of flow at a lower pressure loss (Kv) can be calculated using the formula:
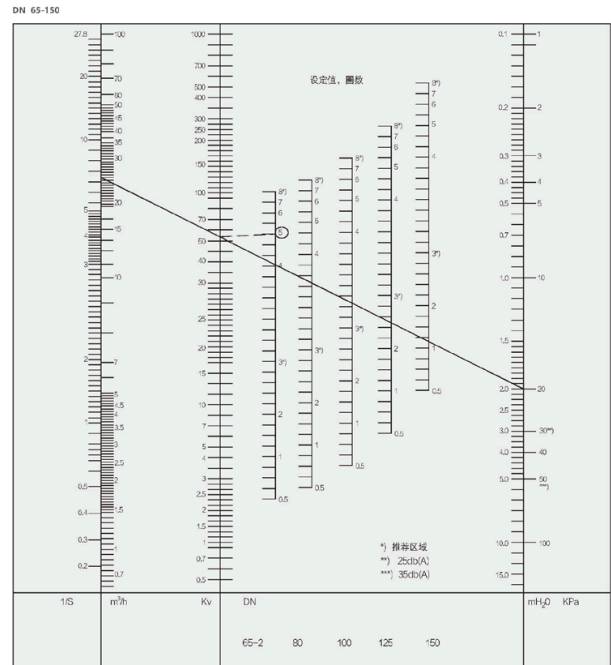
$$Kv = Q / \sqrt{\Delta P}$$

where

Kv: Kv value [m³/h]

Q: Flow [m³/h]

ΔP: Pressure loss over regulating valve [bar]

LINE GRAPH DN65 - 150

DN 65-150

LINE GRAPH DN200 - 400

DN 200-400