

Static Balancing Valve-Threaded

Fig. 8211

Standard

Design: BS 7350

Connection: 1/2" ~ 3/4" meet BS 2779 / ISO228(ISO7)

1" ~ 2" meet BS 10266 / ISO228(ISO7)

ANSI B 1.20.1

Testing: BS6755 / EN12266-1

Technical data

Working Pressure: 25bar

Size range: DN15~DN50

Testing Pressure: Body: 37.5 bar

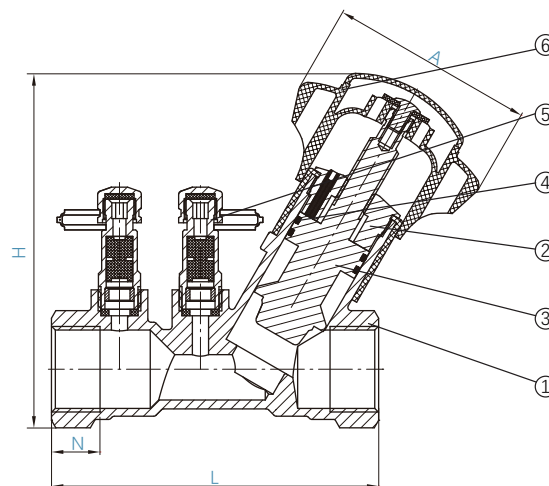
Seal: 27.5 bar

Temperature: -10°C ~ 120°C (21.8bar)

-10°C ~ 100°C (25bar)

Materials

Part	Material	Standard
Body	Brass	BS EN12165 CW617N
Bonnet	Brass	BS EN12165 CW617N
Stem	Brass	BS EN12165 CW617N
O-ring	EPDM	
Testing valve	Brass	BS EN12165 CW617N
Wheel	Plastic	PC+ABS



Dimensions

DN	mm	15	20	25	32	40	50
	inch	1/2	3/4	1	1-1/4	1-1/2	2
L		94.5	101	110	120	140	154
H		90	90	90	94	127	127
A		63	63	63	63	63	63
Flow Kv		2.7	5.5	7.0	9.5	18.5	25.5
Kvs		4.0	7.5	11	13.5	24	31

WARCO reserves the right to change dimensions without notice

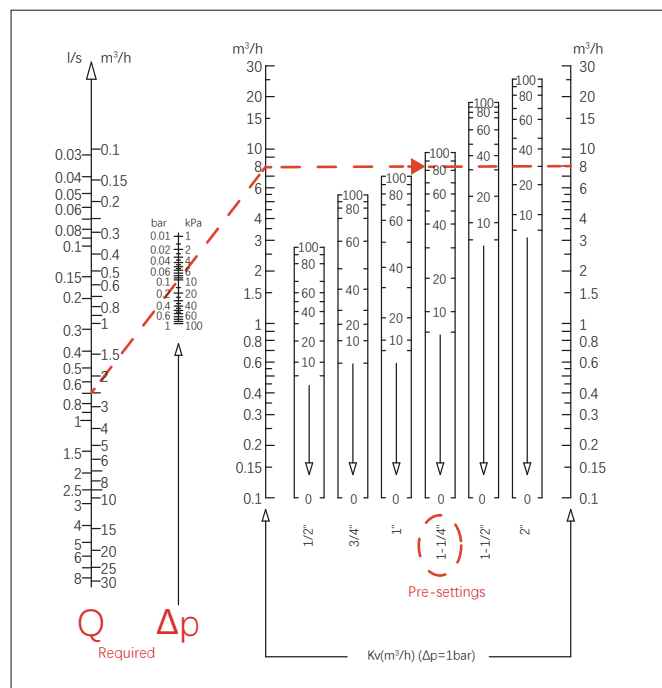
Static Balancing Valve - Threaded

Fig. 8211

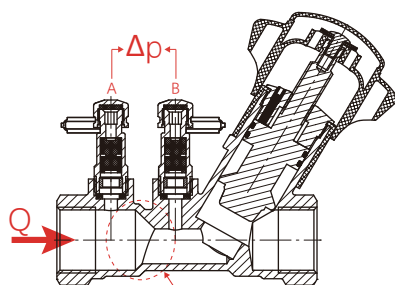
Opening - Kv

Size		Opening-Kv																			
mm	Inch	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
15	1/2	0.53	0.63	0.73	0.83	0.92	0.98	1.09	1.19	1.28	1.33	1.41	1.48	1.59	1.71	1.99	2.18	2.34	2.48	2.54	2.70
20	3/4	0.62	0.75	0.85	0.96	1.10	1.24	1.39	1.58	1.81	2.00	2.37	2.88	3.50	3.95	4.35	4.57	4.80	5.00	5.20	5.50
25	1	0.64	0.83	0.98	1.14	1.37	1.47	1.81	2.14	2.50	2.92	3.32	3.89	4.29	4.86	5.03	5.49	5.95	6.25	6.59	7.00
32	1-1/4	0.73	1.21	1.53	1.79	2.21	2.66	3.25	3.69	4.04	4.39	4.89	5.50	5.86	6.46	7.05	7.60	7.97	8.55	8.98	9.05
40	1-1/2	3.02	3.84	4.67	5.80	6.74	7.56	8.41	9.18	10.13	11.21	12.28	13.19	14.29	15.23	15.84	16.4	16.98	17.35	17.8	18.50
50	2	3.36	4.18	5.13	6.24	7.26	8.02	8.99	9.98	11.08	12.06	13.33	14.72	16.53	17.64	18.95	19.98	21.64	23.21	24.08	25.50

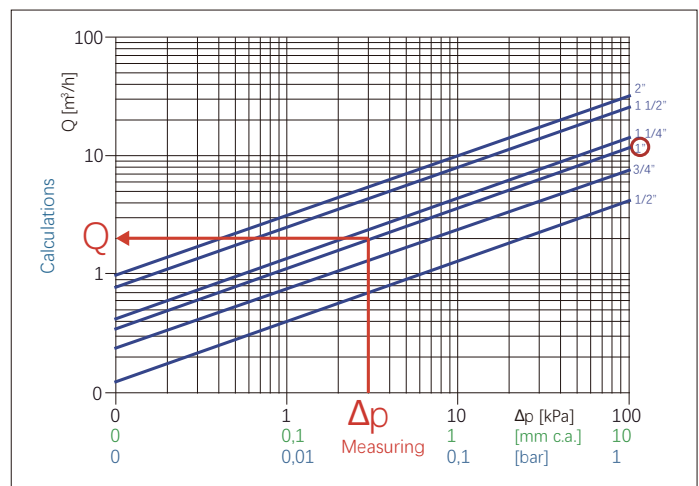
Selection Chart



Flow Calculations



$$Q = K_{v_{venturi}} \cdot \sqrt{\Delta p}$$



Static Balancing Valve-Flanged

Fig. 8220

Standard

Design: BS 7350
 Connection: EN1092- 2 PN10 / PN16
 ISO 7005 / ANSI B16.5
 GB/T 9119
 Testing: BS6755 / EN12266-1

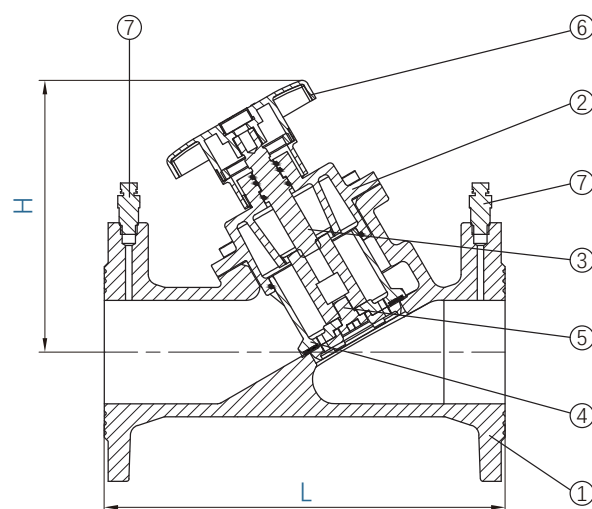
Technical data

Working Pressure: 16bar
 Dimensions: DN65~DN600
 Testing Pressure: Shell: 24 bar
 Seal: 17.6bar
 Temperature: - 10°C ~ 120°C

Material

Part	Material	EN Standard
Body	DI	EN-JS 1040
Bonnet	DI	EN-JS 1040
Stem	Brass	EN 12165 CW617N
Trim	DI	EN-JS 1040
Bolt	CS	-
Wheel	ABS	-
Testing valve	Brass	EN 12165 CW602N

Schema



Dimensions:

Size	mm	DN40/50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	1-1/2 / 2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
L		230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
H		194	228	232	240	308	320	435	470	512	685	965	972	1065	1180
Flow cv		70.5	84.5	118.0	187.4	263.9	400.8	726.9	1087.8	1276.2	2250.0	3050.0	3720.0	4180.0	5674.0
Head los K		3.78	3.78	5.24	9.53	6.98	5.35	6.26	5.57	6.43	11.40	12.40	13.10	13.50	13.90

Static Balancing Valve-Flanged

Fig. 8220

Opening-Kv

Size Circles	DN40/50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
1	5.7	7.3	7.2	11.2	11.1	17.6	47.7	70.4	60.3	170.0	238.0	275.0	352.0	396.0
2	11.3	11.7	13.1	23.4	27.5	45.3	103.4	156.3	159.6	261.0	393.0	465.0	611.0	643.0
3	23.9	19.0	20.1	41.3	54.5	92.0	164.9	241.9	249.5	405.0	587.0	685.0	928.0	987.0
4	35.8	34.0	37.4	59.4	85.6	134.0	253.8	311.3	305.4	597.0	808.0	900.0	1289.0	1378.0
5	45.7	47.0	61.4	90.0	125.5	183.9	385.9	409.0	377.5	795.0	1100.0	1284.0	1634.0	1764.0
6	53.7	55.8	81.4	116.3	158.1	221.4	474.0	554.2	555.9	1030.0	1440.0	1634.0	1983.0	2118.0
7	62.0	67.2	100.6	142.5	194.1	298.5	558.0	683.1	691.2	1246.0	1678.0	1947.0	2413.0	2545.0
8	70.5	76.8	110.1	164.0	230.7	359.5	637.1	758.0	790.4	1527.0	1946.0	2364.0	2804.0	3054.0
9		84.9	118.0	187.4	263.9	400.8	699.2	826.0	933.3	1707.0	2238.0	2694.0	3212.0	3610.0
10							726.9	920.0	1036.6	1884.0	2522.0	2970.0	3528.0	4420.0
11								1010.9	1168.7	2048.0	2689.0	3270.0	3774.0	4698.0
12								1087.8	1232.2	2162.0	2894.0	3525.0	3992.0	4980.0
13									1276.2	2250.0	3050.0	3720.0	4180.0	5182.0