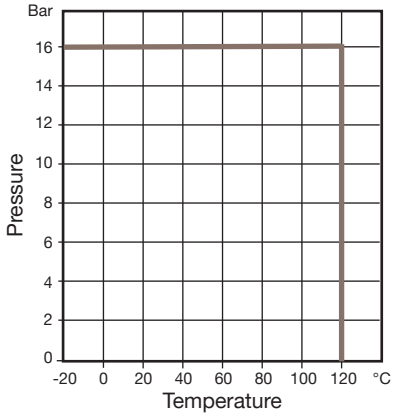
ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

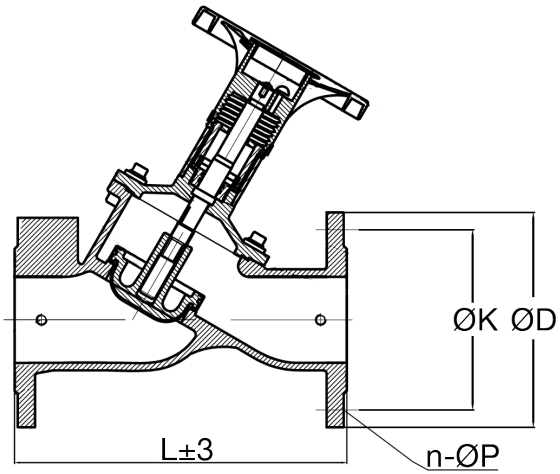


Features

- Flange mounting PN16 only
- Flange conforms to BS EN1092 PN16
- Position indicator
- Supplied with 2 test points and extensions
- EPDM cone seating gives tight shut off
- Conforms to BS 7350 / BS EN 13789
- Pressure tested to BS EN 12266-1
- Fusion Bonded Epoxy Powder Coated

Technical data
Max pressure: 16 Bar
Working temp: -20°C to +120°C





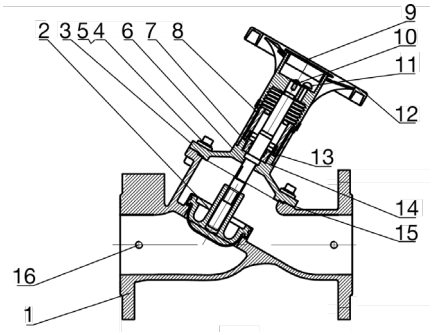
DN	50	65	80	100	125	150	200	250	300
D	165	185	200	220	250	285	340	405	460
K	125	145	160	180	210	240	295	355	410
n-ØP	4-19	4-19	8-19	8-19	8-19	8-23	12-23	12-28	12-28
L	230	290	310	350	400	480	600	730	850
Kv	68.6	80.8	112.0	232.2	396.1	468.9	721.2	1009.0	1731.0
Kgs	12	16	20	26	38	52.5	99.5	146	226

V1. Dimensions in mm

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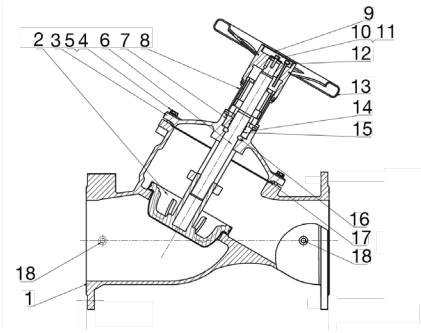
ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

DN50-DN150



N.	Part Name	Materials
1	Body	Ductile Iron GGG40
2	Disc	Ductile Iron GGG40 + EPDM
3	Cover	Ductile Iron GGG40
4	Screw	Carbon Steel
5	Shim	Carbon Steel
6	Stem	Stainless Steel 410
7	Sealing Gland	Stainless Steel 410
8	Display	Plastic
9	Cover	Plastic
10	Locking Screw	Stainless Steel 304
11	Pan Head Screw	Stainless Steel 304
12	Handwheel	Aluminium Alloy
13	O-Ring	EPDM
14	Sealing Gasket	PTFE
15	O-Ring	EPDM
16	Plug	Carbon Steel

DN200-DN300



N.	Part Name	Materials
1	Body	Ductile Iron GGG40
2	Disc	Ductile Iron GGG40 + EPDM
3	Cover	Ductile Iron GGG40
4	Screw	Carbon Steel
5	Shim	Carbon Steel
6	Stem	Stainless Steel 410
7	Sealing Gland	Stainless Steel 410
8	Display	Plastic
9	Cover	Plastic
10	Screw	Carbon Steel
11	Shim	Stainless Steel 410
12	Pan Head Screw	Stainless Steel 304
13	Handwheel	Carbon Steel
14	O-Ring	EPDM
15	O-Ring	EPDM
16	Split Ring	Brass
17	O-Ring	EPDM
18	Plug	Carbon Steel

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ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

DN50										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				1.89	2.52	3.15	3.78	4.41	5.04	5.67
Position 1 (KV 6.3)	6.3	6.91	7.52	8.13	8.74	9.35	9.96	10.57	11.18	11.79
Position 2 (KV 12.4)	12.4	13.02	13.64	14.26	14.88	15.50	16.12	16.74	17.36	17.98
Position 3 (KV 18.6)	18.6	19.37	20.14	20.91	21.68	22.45	23.22	23.99	24.76	25.53
Position 4 (KV 26.3)	26.3	27.21	28.12	29.03	29.94	30.85	31.76	32.67	33.58	34.49
Position 5 (KV 35.4)	35.4	36.50	37.60	38.70	39.80	40.90	42.00	43.10	44.20	45.30
Position 6 (KV 46.4)	46.4	47.75	49.10	50.45	51.80	53.15	54.50	55.85	57.20	58.55
Position 7 (KV 59.9)	59.9	60.77	61.64	62.51	63.38	64.25	65.12	65.99	66.86	67.73
Position 8 (KV 68.6)	68.6									

DN65										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				4.05	5.4	6.75	8.1	9.45	10.8	12.15
Position 1 (KV 13.5)	13.5	14.20	14.90	15.60	16.30	17.00	17.70	18.40	19.10	19.80
Position 2 (KV 20.5)	20.5	21.68	22.86	24.04	25.22	26.40	27.58	28.76	29.94	31.12
Position 3 (KV 31.8)	31.8	33.27	34.74	36.21	37.68	39.15	40.62	42.09	43.56	45.03
Position 4 (KV 46.5)	46.5	48.02	49.54	51.06	52.58	54.10	55.62	57.14	58.66	60.18
Position 5 (KV 61.7)	61.7	62.62	63.54	64.46	65.38	66.30	67.22	68.14	69.06	69.98
Position 6 (KV 70.9)	70.9	71.60	72.30	73.00	73.70	74.40	75.10	75.80	76.50	77.20
Position 7 (KV 77.9)	77.9	78.19	78.48	78.77	79.06	79.35	79.64	79.93	80.22	80.51
Position 8 (KV 80.8)	80.8									

DN80										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				6.27	8.36	10.45	12.54	14.63	16.72	18.81
Position 1 (KV 20.9)	20.9	21.56	22.22	22.88	23.54	24.20	24.86	25.52	26.18	26.84
Position 2 (KV 27.5)	27.5	28.70	29.90	31.10	32.30	33.50	34.70	35.90	37.10	38.30
Position 3 (KV 39.5)	39.5	40.91	42.32	43.73	45.14	46.55	47.96	49.37	50.78	52.19
Position 4 (KV 53.6)	53.6	55.13	56.66	58.19	59.72	61.25	62.78	64.31	65.84	67.37
Position 5 (KV 68.9)	68.9	70.47	72.04	73.61	75.18	76.75	78.32	79.89	81.46	83.03
Position 6 (KV 84.6)	84.6	85.91	87.22	88.53	89.84	91.15	92.46	93.77	95.08	96.39
Position 7 (KV 97.7)	97.7	99.13	100.56	101.99	103.42	104.85	106.28	107.71	109.14	110.57
Position 8 (KV 112)	112									

V1. Dimensions in mm

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ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

DN100										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	Tenths of a Turn									
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				17.04	22.72	28.4	34.08	39.76	45.44	51.12
Position 1 (KV 56.8)	56.8	59.94	63.08	66.22	69.36	72.50	75.64	78.78	81.92	85.06
Position 2 (KV 88.2)	88.2	91.48	94.76	98.04	101.32	104.60	107.88	111.16	114.44	117.72
Position 3 (KV 121)	121	123.84	126.68	129.52	132.36	135.20	138.04	140.88	143.72	146.56
Position 4 (KV 149.4)	149.4	152.01	154.62	157.23	159.84	162.45	165.06	167.67	170.28	172.89
Position 5 (KV 175.5)	175.5	178.36	181.22	184.08	186.94	189.80	192.66	195.52	198.38	201.24
Position 6 (KV 204.1)	204.1	205.73	207.36	208.99	210.62	212.25	213.88	215.51	217.14	218.77
Position 7 (KV 220.4)	220.4	221.58	222.76	223.94	225.12	226.30	227.48	228.66	229.84	231.02
Position 8 (KV 232.2)	232.2									

DN125										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	Tenths of a Turn									
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				13.77	18.36	22.95	27.54	32.13	36.72	41.31
Position 1 (KV 45.9)	45.9	50.80	55.70	60.60	65.50	70.40	75.30	80.20	85.10	90.00
Position 2 (KV 94.9)	94.9	100.88	106.86	112.84	118.82	124.80	130.78	136.76	142.74	148.72
Position 3 (KV 154.7)	154.7	161.99	169.28	176.57	183.86	191.15	198.44	205.73	213.02	220.31
Position 4 (KV 227.6)	227.6	233.60	239.60	245.60	251.60	257.60	263.60	269.60	275.60	281.60
Position 5 (KV 287.6)	287.6	292.24	296.88	301.52	306.16	310.8	315.44	320.08	324.72	329.36
Position 6 (KV 334)	334	337.27	340.54	343.81	347.08	350.35	353.62	356.89	360.16	363.43
Position 7 (KV 366.7)	366.7	369.64	372.58	375.52	378.46	381.40	384.34	387.28	390.22	393.16
Position 8 (KV 396.1)	396.1									

DN150										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	Tenths of a Turn									
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				18.87	25.16	31.45	37.74	44.03	50.32	56.61
Position 1 (KV 62.9)	62.9	67.04	71.18	75.32	79.46	83.60	87.74	91.88	96.02	100.16
Position 2 (KV 104.3)	104.3	108.84	113.38	117.92	122.46	127.00	131.54	136.08	140.62	145.16
Position 3 (KV 149.7)	149.7	155.26	160.82	166.38	171.94	177.50	183.06	188.62	194.18	199.74
Position 4 (KV 205.3)	205.3	213.15	221.00	228.85	236.70	244.55	252.40	260.25	268.10	275.95
Position 5 (KV 283.8)	283.8	291.20	298.60	306.00	313.40	320.80	328.20	335.60	343.00	350.40
Position 6 (KV 357.8)	357.8	363.25	368.70	374.15	379.60	385.05	390.50	395.95	401.40	406.85
Position 7 (KV 412.3)	412.3	417.96	423.62	429.28	434.94	440.60	446.26	451.92	457.58	463.24
Position 8 (KV 468.9)	468.9									

V1. Dimensions in mm

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ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

DN200										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				23.97	31.96	39.95	47.94	55.93	63.92	71.91
Position 1 (KV 79.9)	79.9	82.99	86.08	89.17	92.26	95.35	98.44	101.53	104.62	107.71
Position 2 (KV 110.8)	110.8	114.36	117.92	121.48	125.04	128.60	132.16	135.72	139.28	142.84
Position 3 (KV 146.4)	146.4	150.74	155.08	159.42	163.76	168.10	172.44	176.78	181.12	185.46
Position 4 (KV 189.8)	189.8	194.91	200.02	205.13	210.24	215.35	220.46	225.57	230.68	235.79
Position 5 (KV 240.9)	240.9	247.23	253.56	259.89	266.22	272.55	278.88	285.21	291.54	297.87
Position 6 (KV 304.2)	304.2	310.96	317.72	324.48	331.24	338.00	344.76	351.52	358.28	365.04
Position 7 (KV 371.8)	371.8	379.24	386.68	394.12	401.56	409.00	416.44	423.88	431.32	438.76
Position 8 (KV 446.2)	446.2	454.20	462.20	470.20	478.20	486.20	494.20	502.20	510.20	518.20
Position 9 (KV 526.2)	526.2	533.80	541.40	549.00	556.60	564.20	571.80	579.40	587.00	594.60
Position 10 (KV 602.2)	602.2	608.78	615.36	621.94	628.52	635.10	641.68	648.26	654.84	661.42
Position 11 (KV 668)	668	673.32	678.64	683.96	689.28	694.60	699.92	705.24	710.56	715.88
Position 12 (KV 721.2)	721.2									

DN250										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				34.5	46	57.5	69	80.5	92	103.5
Position 1 (KV 115)	115	116.30	117.60	118.90	120.20	121.50	122.80	124.10	125.40	126.70
Position 2 (KV 128)	128	131.50	135.00	138.50	142.00	145.50	149.00	152.50	156.00	159.50
Position 3 (KV 163)	163	167.20	171.40	175.60	179.80	184.00	188.20	192.40	196.60	200.80
Position 4 (KV 205)	205	209.80	214.60	219.40	224.20	229.00	233.80	238.60	243.40	248.20
Position 5 (KV 253)	253	258.60	264.20	269.80	275.40	281.00	286.60	292.20	297.80	303.40
Position 6 (KV 309)	309	315.40	321.80	328.20	334.60	341.00	347.40	353.80	360.20	366.60
Position 7 (KV 373)	373	379.90	386.80	393.70	400.60	407.50	414.40	421.30	428.20	435.10
Position 8 (KV 442)	442	449.50	457.00	464.50	472.00	479.50	487.00	494.50	502.00	509.50
Position 9 (KV 517)	517	524.70	532.40	540.10	547.80	555.50	563.20	570.90	578.60	586.30
Position 10 (KV 594)	594	600.70	607.40	614.10	620.80	627.50	634.20	640.90	647.60	654.30
Position 11 (KV 661)	661	666.40	671.80	677.20	682.60	688.00	693.40	698.80	704.20	709.60
Position 12 (KV 715)	715	720.60	726.20	731.80	737.40	743.00	748.60	754.20	759.80	765.40
Position 13 (KV 771)	771	777.90	784.80	791.70	798.60	805.50	812.40	819.30	826.20	833.10
Position 14 (KV 840)	840	847.00	854.00	861.00	868.00	875.00	882.00	889.00	896.00	903.00
Position 15 (KV 910)	910	915.30	920.60	925.90	931.20	936.50	941.80	947.10	952.40	957.70
Position 16 (KV 963)	963	967.60	972.20	976.80	981.40	986.00	990.60	995.20	999.80	1004.40
Position 17 (KV 1009)	1009									

V1. Dimensions in mm

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ART 250A
PN16 Ductile Iron Double Regulating Valve (DRV)

DN300										
KV (Flow Rate in m3/hr @ 1 Bar pressure drop)										
Full Turns	**Tenths of a Turn**									
	0.0	**0.1**	**0.2**	**0.3**	**0.4**	**0.5**	**0.6**	**0.7**	**0.8**	**0.9**
0				54.6	72.8	91	109.2	127.4	145.6	163.8
Position 1 (KV 182)	182	186.40	190.80	195.20	199.60	204.00	208.40	212.80	217.20	221.60
Position 2 (KV 226)	226	232.00	238.00	244.00	250.00	256.00	262.00	268.00	274.00	280.00
Position 3 (KV 286)	286	291.40	296.80	302.20	307.60	313.00	318.40	323.80	329.20	334.60
Position 4 (KV 340)	340	345.10	350.20	355.30	360.40	365.50	370.60	375.70	380.80	385.90
Position 5 (KV 391)	391	397.30	403.60	409.90	416.20	422.50	428.80	435.10	441.40	447.70
Position 6 (KV 454)	454	397.30	403.60	409.90	416.20	422.50	428.80	435.10	441.40	447.70
Position 7 (KV 520)	520	528.10	536.20	544.30	552.40	560.50	568.60	576.70	584.80	592.90
Position 8 (KV 601)	601	608.20	615.40	622.60	629.80	637.00	644.20	651.40	658.60	665.80
Position 9 (KV 673)	673	681.00	689.00	697.00	705.00	713.00	721.00	729.00	737.00	745.00
Position 10 (KV 753)	753	761.10	769.20	777.30	785.40	793.50	801.60	809.70	817.80	825.90
Position 11 (KV 834)	834	843.40	852.80	862.20	871.60	881.00	890.40	899.80	909.20	918.60
Position 12 (KV 928)	928	936.50	945.00	953.50	962.00	970.50	979.00	987.50	996.00	1004.50
Position 13 (KV 1013)	1013	1019.30	1025.60	1031.90	1038.20	1044.50	1050.80	1057.10	1063.40	1069.70
Position 14 (KV 1076)	1076	1084.20	1092.40	1100.60	1108.80	1117.00	1125.20	1133.40	1141.60	1149.80
Position 15 (KV 1158)	1158	1164.40	1170.80	1177.20	1183.60	1190.00	1196.40	1202.80	1209.20	1215.60
Position 16 (KV 1222)	1222	1229.20	1236.40	1243.60	1250.80	1258.00	1265.20	1272.40	1279.60	1286.80
Position 17 (KV 1294)	1294	1301.00	1308.00	1315.00	1322.00	1329.00	1336.00	1343.00	1350.00	1357.00
Position 18 (KV 1364)	1364	1366.80	1369.60	1372.40	1375.20	1378.00	1380.80	1383.60	1386.40	1389.20
Position 19 (KV 1392)	1392	1398.30	1404.60	1410.90	1417.20	1423.50	1429.80	1436.10	1442.40	1448.70
Position 20 (KV 1455)	1455	1461.70	1468.40	1475.10	1481.80	1488.50	1495.20	1501.90	1508.60	1515.30
Position 21 (KV 1522)	1522	1529.20	1536.40	1543.60	1550.80	1558.00	1565.20	1572.40	1579.60	1586.80
Position 22 (KV 1594)	1594	1601.20	1608.40	1615.60	1622.80	1630.00	1637.20	1644.40	1651.60	1658.80
Position 23 (KV 1666)	1666	1672.50	1679.00	1685.50	1692.00	1698.50	1705.00	1711.50	1718.00	1724.50
Position 24 (KV 1731)	1731									

Specification Clause;

Shall be a double regulating valve (DRV) designed for precise flow regulation and balancing according to BS 7350 and BS EN 13789. Constructed from Ductile Iron (as specified), with EPDM seals for leak-proof performance, it will be suitable for maximum operating pressures up to 16 bar and temperatures from -10°C to +120°C with flanged connection according to BS EN 1092-2.

The valve shall feature manual flow adjustment for fine balancing and include a position indicator scale for accurate system performance and be capable of the fitment of pressure drop test ports for accurate flow setting.

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