

VENVEX balancing valve, steel, DN 15-300, PN 40/25, butt welded ends.



General

- Venvex balancing valve in full welded body design suitable for shut-off and balancing purposes in e.g. heating, cooling, heat recovery, and industrial systems.
- Non-painted welded ends.
- Spring loaded ball seals.
- Handle DN 15-150 and manual gear DN 200-300.

Options

- Stainless steel (VM 5920).
- Different types of certificates.
- ISO mounting flange.
- Flanges.

Materials

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Body in steel 1.0345	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ball in stainless steel 1.4301	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Stem in stainless steel 1.4305	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ball seals in hardened teflon	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Stem seals in FPM	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Handle	•	•	•	•	•	•	•	•	•	•	•	•	•	(manual gear)

(• = standard)

Technical Data

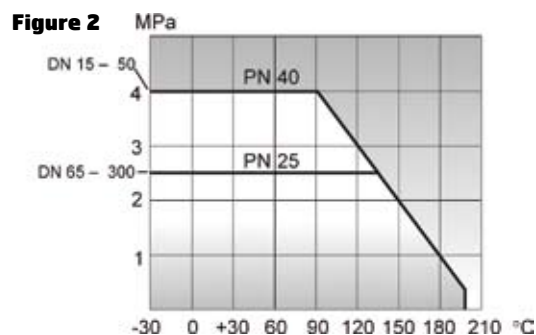
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Pressure rating PN	40	40	40	40	40	40	25	25	25	25	25	25	25	25
Kv-value m ³ /h	5,8	5,8	12,6	13,1	22,6	34,2	61,2	108	216	294	461	660	1170	1840
Temperature -30°C - +200°C ¹	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torque at Δp 10 bar (Nm)	12	14	17	22	36	46	60	88	130	195	325	570	1400	2700

1. Contact Ventim at temperatures below 0°C.

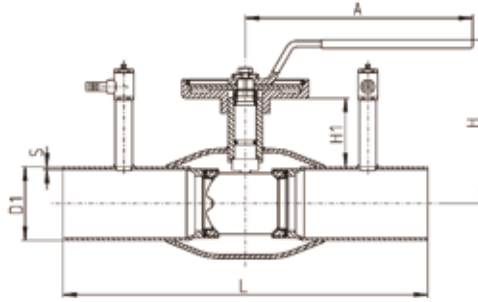
(• = standard)

Pressure- and Temperature Diagram

See Figure 2. Local conditions must be considered.
 Not suitable for steam.



Dimensional Drawing



Dimensional Data (mm) and Weight

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	230	230	230	260	260	300	300	300	325	325	350	400	530	550
D1 ¹	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219,1	273,0	323,9
S	2,0	2,3	2,6	2,6	2,6	2,9	2,9	3,2	3,6	4,0	4,5	4,5	5,0	5,6
H	100	100	105	105	125	130	180	190	220	245	265	-	-	-
H1	18	18	37	36	56	56	72	78	95	98	104	74	90	115
A	140	140	150	150	190	190	280	280	280	420	600	-	-	-
Weight (kg)	0,9	0,9	1,2	1,5	2,4	3,1	4,7	5,9	9,0	13,5	18,8	45,0	89,0	140,0

1. ISO standard.

Mounting

Use cooling during welding. The valve shall be in the open position. Do not overheat the valve. Sealings will be damaged if it is too hot. May not be closed before it is cooled off. Dirt and other particles may damage the valve, thus flush the pipe before the valve is used for the first time.

Note the flow direction arrow.

Kv-value

DN	15-20	25	32	40	50	65	80	100	125	150	200	250	300
Pos													
1,0	-	-	0,39	0,60	1,26	2,52	3,42	6,48	6,84	13,68	19,7	35,0	54,5
1,5	-	0,35	0,57	1,01	1,80	3,64	5,37	9,47	13,32	20,16	20,20	51,20	80,0
2,0	0,14	0,49	0,83	1,48	2,70	4,75	7,31	12,46	18,00	26,64	38,40	66,50	105,0
2,5	0,28	0,99	1,08	2,02	3,55	6,34	10,23	16,28	24,30	35,46	51,1	90,0	142,0
3,0	0,42	1,36	1,44	2,70	4,39	7,92	13,14	20,09	30,60	44,28	63,8	110,0	176,0
3,5	0,61	1,66	1,80	3,24	5,61	9,78	16,11	24,45	37,80	55,08	79,3	140,0	220,0
4,0	0,80	2,00	2,30	3,96	6,84	11,63	19,08	28,84	45,00	65,88	95,0	165,0	260,0
4,5	1,02	2,40	2,74	4,86	8,34	14,15	23,31	35,82	55,26	84,06	121,0	215,0	336,0
5,0	1,24	3,00	3,42	5,98	9,83	16,67	27,54	42,84	65,52	102,24	147,0	260,0	408,0
5,5	1,64	3,50	4,21	7,18	11,94	20,94	33,21	51,84	81,72	127,08	183,0	325,0	510,0
6,0	2,04	4,50	5,11	8,57	14,04	25,20	38,88	60,84	97,92	151,92	219,0	380,0	600,0
6,5	2,64	5,10	5,97	10,15	16,92	29,52	46,26	75,42	121,86	196,56	282,0	500,0	785,0
7,0	3,24	6,70	7,27	12,31	19,80	33,84	53,64	90,00	145,80	241,20	325,0	576,0	950,0
7,5	3,84	7,30	8,64	14,40	23,40	39,78	64,62	113,40	177,30	289,80	417,0	740,0	1156,0
8,0	4,45	9,30	10,08	17,64	27,00	45,72	75,60	136,80	208,80	338,40	486,0	866,0	1353,0
8,5	5,04	10,00	11,52	20,88	30,60	53,46	91,80	169,20	251,30	399,80	576,0	1020,0	1594,0
9,0	5,83	12,65	13,14	22,57	34,20	61,20	108,0	216,00	293,80	460,80	660,0	1170,0	1840,0

Markings

The valve is marked with DN, PN, producer, materials, temperature max °C, and flow direction arrow.

Maintenance

The valve is maintenance free.

For best function the valve should be exercised regularly though.

Order Number

DN	Art. No	RSK No	DN	Art. No	RSK No
15	5900015	489 2645	150	5900150	-
20	5900020	489 2646	200	5900200	-
25	5900025	489 2647	250	5900250	-
32	5900032	489 2648	300	5900300	-
40	5900040	489 2649			
50	5900050	489 2650			
65	5900065	489 2651			
80	5900080	489 2652			
100	5900100	489 2653			
125	5900125	489 2654			