

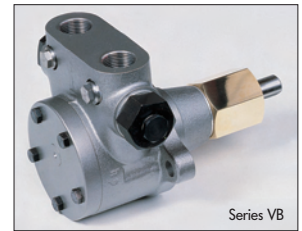
Series VB; With Integrated Overflow Valve

1.2

Technical Selection Chart: Scaled Drawings

Direction of rotation viewed from shaft
I = indirect – counterclockwise
D = direct – clockwise

The direction of rotation can only be changed in the factory. Therefore please assure that you state the desired direction of rotation as per the size chart/sheet when ordering!



hp internal gear pumps up to 40 bar (Direction **I** = indirect –counterclockwise)

Pump Series VB	Viscosity: 6 mm ² sec ⁻¹ at 20 °C								Gear Rotor Size Ø	Shaft Ø	Threaded Connection for (S/A)	Manometer Connection	max. allowed Pump RPM (min ⁻¹)	Net weight (kg)
	n = 1400 min ⁻¹ Discharge l/h				n = 2800 min ⁻¹ Discharge l/h									
	at 9 bar	at 30 bar	at 40 bar	Article Nr. I	at 9 bar	at 30 bar	at 40 bar	Article Nr. I						
VB P	45	30	20	011/0007	90	60	50	013/0007	25	12	3/8"	1/4"	2800	2,5
VB M	80	60	50	011/0008	160	130	120	013/0008	25	12	3/8"	1/4"	2800	2,5
VB G	120	100	80	011/0009	240	200	190	013/0009	25	12	3/8"	1/4"	2800	2,5
VB F	160	140	120	011/0010	320	270	260	013/0010	25	12	3/8"	1/4"	2800	2,5
VBG PP	150	100	80	011/0055	300	240	210	013/0030	38	12	1/2"	1/4"	2800	3,3
VBG PZ	200	160	140	011/0056	400	310	280	013/0056	38	12	1/2"	1/4"	2800	3,3
VBG P	300	240	200	011/0022	600	520	480	013/0021	38	12	1/2"	1/4"	2800	3,3
VBG MZ	-	-	-	-	850	750	700	013/0070	38	12	1/2"	1/4"	2800	3,3
VBG M	450	390	360	011/0023	900	850	730	013/0022	38	12	1/2"	1/4"	2800	3,3
VBG GZ	-	-	-	-	1100	1000	870	013/0065	38	12	1/2"	1/4"	2800	3,3
VBG G	600	540	400	011/0024	-	-	-	-	38	12	1/2"	1/4"	1680	3,3
VBH P	1000	700	600	011/0034	-	-	-	-	56	18	3/4"	1/4"	1680	7,3
VBH M	1500	1200	1000	011/0035	-	-	-	-	56	18	3/4"	1/4"	1680	7,3
VBH G	2000	1700	1400	011/0036	-	-	-	-	56	18	3/4"	1/4"	1680	7,3
VBHG P	3000	2200	2000	011/0046	-	-	-	-	75	22	1"	1/4"	1400	18,6
VBHG PZ	3700	3000	2800	011/0085	-	-	-	-	75	22	1"	1/4"	1400	18,6
VBHG M	4500	3600	3200	011/0047	-	-	-	-	75	22	1"	1/4"	1400	18,6
VBHG G	6000	4800	-	011/0048	-	-	-	-	75	22	1"	1/4"	1400	18,6

hp internal gear pumps up to 40 bar (Direction **D** = direct – clockwise)

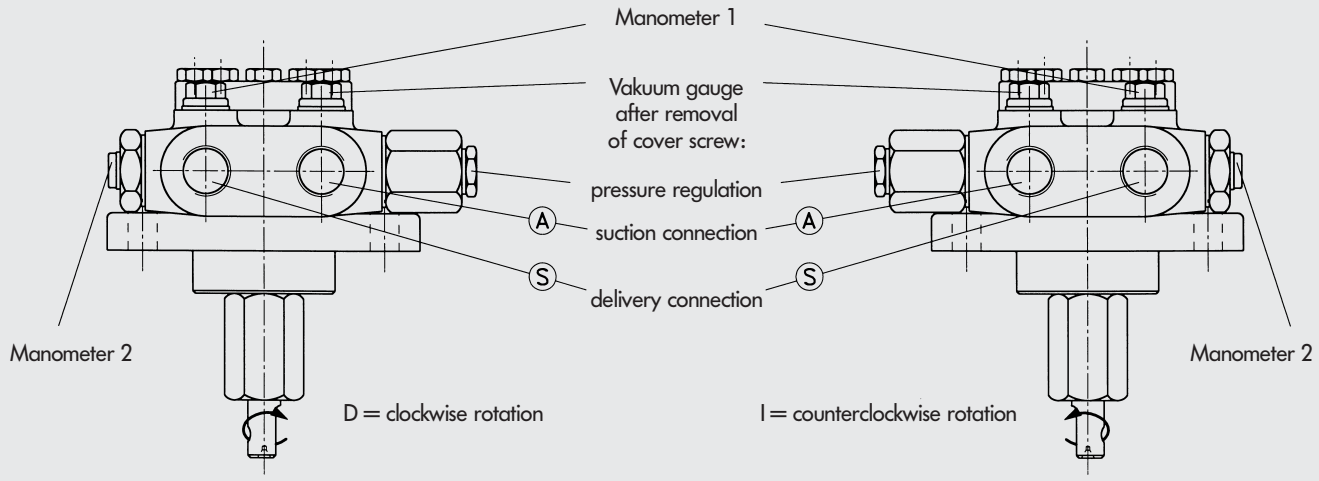
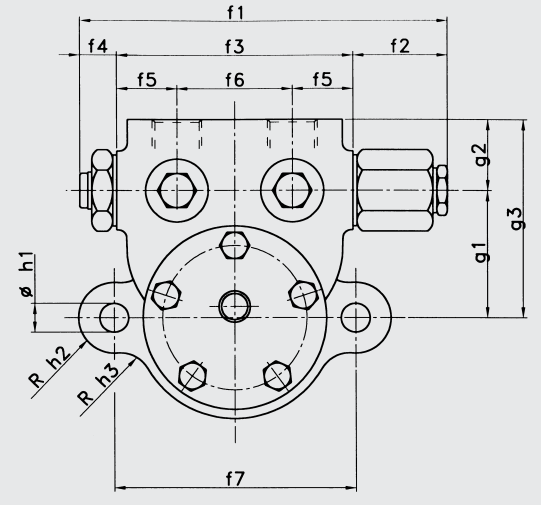
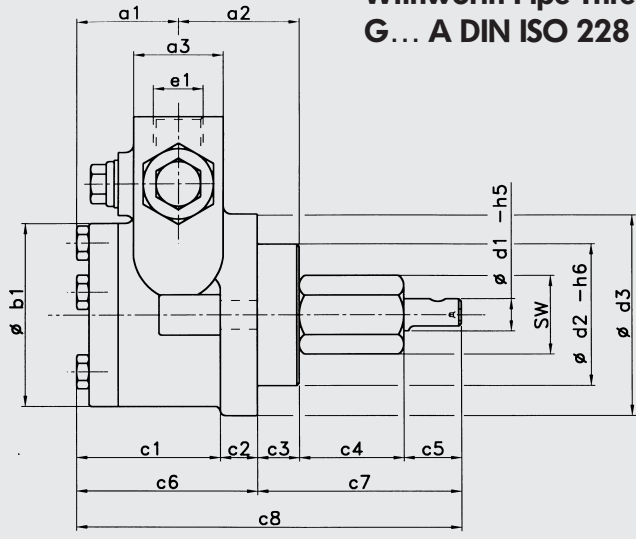
Pump Series VB	Viscosity: 6 mm ² sec ⁻¹ at 20 °C								Gear Rotor Size Ø	Shaft Ø	Threaded Connection for (S/A)	Manometer Connection	Heating Capacity H1 in Watt at 220V, 50Hz at I/D	Initial Pump Breakaway Torque at I/D
	n = 1400 min ⁻¹ Discharge l/h				n = 2800 min ⁻¹ Discharge l/h									
	at 9 bar	at 30 bar	at 40 bar	Article Nr. D	at 9 bar	at 30 bar	at 40 bar	Article Nr. D						
VB P	45	30	20	012/0007	90	60	50	014/0007	25	12	3/8"	1/4"	100	1,2
VB M	80	60	50	012/0008	160	130	120	014/0008	25	12	3/8"	1/4"	100	1,2
VB G	120	100	80	012/0009	240	200	190	014/0009	25	12	3/8"	1/4"	100	1,2
VB F	160	140	120	012/0010	320	270	260	014/0010	25	12	3/8"	1/4"	100	1,2
VBG PP	150	100	80	012/0055	300	240	210	014/0030	38	12	1/2"	1/4"	100	1,6
VBG PZ	200	160	140	012/0056	400	310	280	014/0056	38	12	1/2"	1/4"	100	1,6
VBG P	300	240	200	012/0022	600	520	480	014/0021	38	12	1/2"	1/4"	100	1,6
VBG MZ	-	-	-	-	850	750	700	014/0070	38	12	1/2"	1/4"	100	1,6
VBG M	450	390	360	012/0023	900	800	730	014/0022	38	12	1/2"	1/4"	100	1,6
VBG GZ	-	-	-	-	1100	930	870	014/0065	38	12	1/2"	1/4"	100	1,6
VBG G	600	540	480	012/0024	-	-	-	-	38	12	1/2"	1/4"	100	1,6
VBH P	1000	700	600	012/0034	-	-	-	-	56	18	3/4"	1/4"	160	3,2
VBH M	1500	1200	1000	012/0035	-	-	-	-	56	18	3/4"	1/4"	160	3,2
VBH G	2000	1700	1400	012/0036	-	-	-	-	56	18	3/4"	1/4"	160	3,2
VBHG P	3000	2200	2000	012/0046	-	-	-	-	75	22	1"	1/4"	280	4,6
VBHG PZ	3700	3000	2700	012/0085	-	-	-	-	75	22	1"	1/4"	280	4,6
VBHG M	4500	3600	3200	012/0047	-	-	-	-	75	22	1"	1/4"	280	4,6
VBHG G	6000	4800	-	012/0048	-	-	-	-	75	22	1"	1/4"	280	4,6

* To insure proper pump functioning, all pipe connections must be sized as per the principles of fluid technology using the phase quantity and in accordance with the given conditions at the installation site! The size of the pump and/or device connections is not indicative of the size of the pipe connection which must be used.

Scaled Drawings for Series VB

1.2

Manometer Connection cyl. Withworth Pipe Threading G... A DIN ISO 228



Gear Rotor Size Ø	Discharge l/h		a1	a2	a3	b1	c1	c2	c3	c4	c5	c6	c7
	1400 min ⁻¹	2800 min ⁻¹											
25	45 - 160	90 - 320	35,5	20	33	51	41,5	14	16	40	20	55,5	76
38	150 - 600	300 - 1100	39,5	30	38	70	55,5	14	16	40	20	69,5	76
56	1000 - 2000	-	48,5	38	45	96	71,5	15	18	79	27	86,5	124
75	3000 - 6000	-	62,5	85	70	115	129,5	18	25	65	37	147,5	127

Gear Rotor Size Ø	Discharge l/h		c8	d1	sw/e	d2	d3	e1	f1	f2	f3	f4	f7
	1400 min ⁻¹	2800 min ⁻¹											
25	45 - 160	90 - 320	131,5	12	27/31,2	54	80	G 3/8"	139	32	90	17	-
38	150 - 600	300 - 1100	145,5	12	27/31,2	54	80	G 1/2"	139	32	90	17	-
56	1000 - 2000	-	210,5	18	46/53,1	60	100	G 3/4"	162	26,5	118	17,5	-
75	3000 - 6000	-	274,5	22	55/63,5	80	120	G 1"	211	36	150	25	-

Gear Rotor Size Ø	Discharge l/h		f5	f6	f7	f8	g1	g2	g3	h1	h2	h3	h4
	1400 min ⁻¹	2800 min ⁻¹											
25	45 - 160	90 - 320	26	38	92	140	40	27	67	11	13	13	-
38	150 - 600	300 - 1100	23	44	92	140	48	27	75	11	13	13	-
56	1000 - 2000	-	25,5	67	120	171	55	35	90	13	13	25	-
75	3000 - 6000	-	35	80	150	218	80	40	120	14,5	15	-	-