

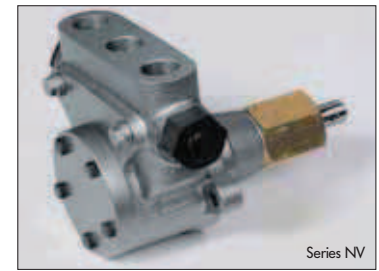
Series NV; with integrated overflow valve and bypass

1.4

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)

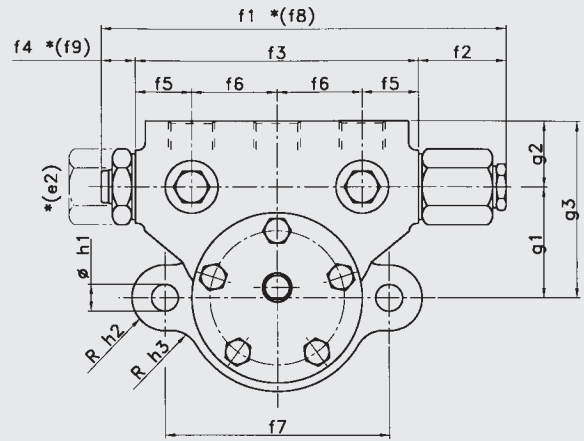
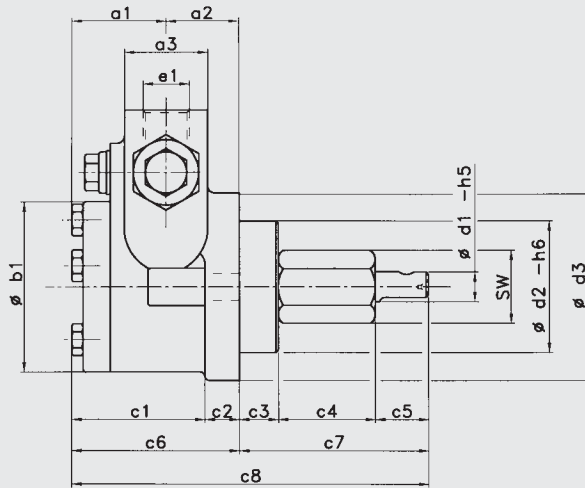
Pump series NV	Viscosity: 6 mm ² sec ⁻¹ bei 20 °C								Gear rotor size Ø	Shaft Ø	Threaded connection for (S/A/R)	Manometer connection	Max. allowed pump RPM (min ⁻¹)	Net weight (kg)
	n = 1400 min ⁻¹ Discharge l/h				n = 2800 min ⁻¹ Discharge l/h									
	at 9 bar	at 30 bar	at 40 bar	Article-no. I	at 9 bar	at 30 bar	at 40 bar	Article-no. I						
NVBR P	45	30	20	011/0015	90	60	50	013/0015	25	12	3/8"	1/4"	2800	2,8
NVBR M	80	60	50	011/0016	160	130	120	013/0016	25	12	3/8"	1/4"	2800	2,8
NVBR G	120	100	80	011/0017	240	200	190	013/0017	25	12	3/8"	1/4"	2800	2,8
NVBR F	160	140	120	011/0018	320	270	260	013/0018	25	12	3/8"	1/4"	2800	2,8
NVBGR PP	150	100	80	011/0075	300	240	210	013/0025	38	12	1/2"	1/4"	2800	3,8
NVBGR PZ	200	160	140	011/0076	400	310	280	013/0028	38	12	1/2"	1/4"	2800	3,8
NVBGR P	300	240	200	011/0028	600	520	480	013/0026	38	12	1/2"	1/4"	2800	3,8
NVBGR MZ	-	-	-	-	850	750	700	013/0074	38	12	1/2"	1/4"	2800	3,8
NVBGR M	450	390	360	011/0029	900	850	730	013/0027	38	12	1/2"	1/4"	2800	3,8
NVBGR GZ	-	-	-	-	1100	1000	870	013/0029	38	12	1/2"	1/4"	2800	3,8
NVBGR G	600	540	480	011/0030	1200	1080	960	013/0034	38	12	1/2"	1/4"	1680	3,8
NVBHR P	1000	700	600	011/0040	-	-	-	-	56	18	3/4"	1/4"	1400	8,6
NVBHR M	1500	1200	1000	011/0041	-	-	-	-	56	18	3/4"	1/4"	1400	8,6
NVBHR G	2000	1700	1400	011/0042	-	-	-	-	56	18	3/4"	1/4"	1400	8,6

hp-Internal gear pumps up to 40 bar (direction **D** = direct – clockwise)

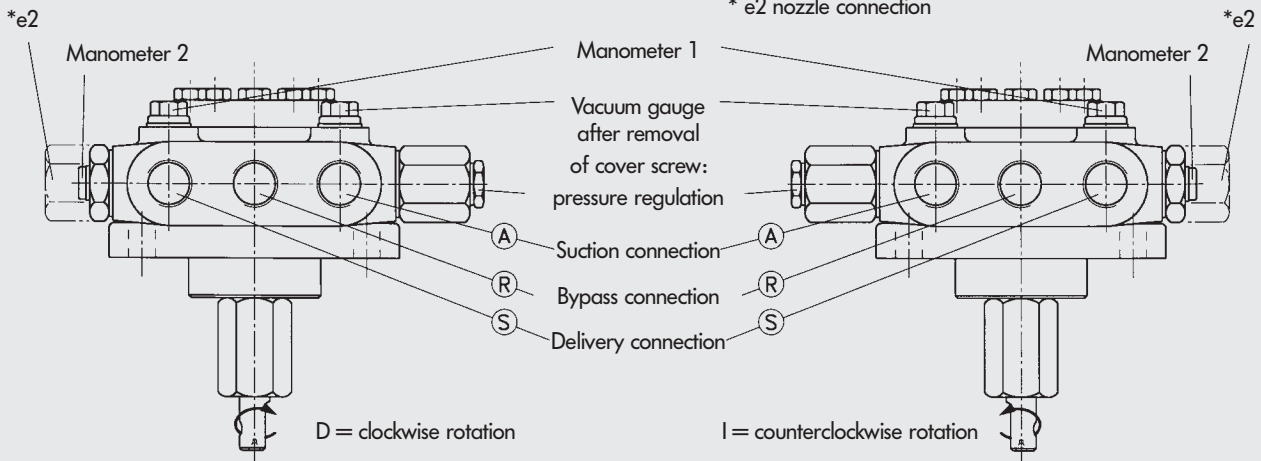
Pump series NV	Viscosity: 6 mm ² sec ⁻¹ bei 20 °C								Gear rotor size Ø	Shaft Ø	Threaded connection for (S/A/R)	Manometer connection	Heating capacity (Watt) at 220V, 50HZ at l/D	Initial pump breakaway torque at l/D
	n = 1400 min ⁻¹ Discharge l/h				n = 2800 min ⁻¹ Discharge l/h									
	at 9 bar	at 30 bar	at 40 bar	Article-no. D	at 9 bar	at 30 bar	at 40 bar	Article-no. D						
NVBR P	45	30	20	012/0015	90	60	50	014/0015	25	12	3/8"	1/4"	100	1,2
NVBR M	80	60	50	012/0016	160	130	120	014/0016	25	12	3/8"	1/4"	100	1,2
NVBR G	120	100	80	012/0017	240	200	190	014/0017	25	12	3/8"	1/4"	100	1,2
NVBR F	160	140	120	012/0018	320	270	260	014/0018	25	12	3/8"	1/4"	100	1,2
NVBGR PP	150	100	80	012/0075	300	240	210	014/0025	38	12	1/2"	1/4"	100	1,6
NVBGR PZ	200	160	140	012/0076	400	310	280	014/0028	38	12	1/2"	1/4"	100	1,6
NVBGR P	300	240	200	012/0028	600	520	480	014/0026	38	12	1/2"	1/4"	100	1,6
NVBGR MZ	-	-	-	-	850	750	700	014/0074	38	12	1/2"	1/4"	100	1,6
NVBGR M	450	390	360	012/0029	900	850	730	014/0027	38	12	1/2"	1/4"	100	1,6
NVBGR GZ	-	-	-	-	1100	1000	870	014/0029	38	12	1/2"	1/4"	100	1,6
NVBGR G	600	540	480	012/0030	1200	1080	960	014/0034	38	12	1/2"	1/4"	100	1,6
NVBHR P	1000	700	600	012/0040	-	-	-	-	56	18	3/4"	1/4"	160	3,2
NVBHR M	1500	1200	1000	012/0041	-	-	-	-	56	18	3/4"	1/4"	160	3,2
NVBHR G	2000	1700	1400	012/0042	-	-	-	-	56	18	3/4"	1/4"	160	3,2

* 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.

Pipe connections cyl. with worth pipe threading G... A DIN ISO 228



Special Model:
* with SC quick-close
* e2 nozzle connection



Gear rotor size \varnothing	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 - 1200	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

Gear rotor size \varnothing	Discharge l/h		c8	d1	sw/e	d2	d3	e1	*e2	f1	f2	f3	f4
	1400 min ⁻¹	2800 min ⁻¹											
25	45 - 160	90 - 320	131,5	12	27/31,2	54	80	G 3/8"	G 3/8"	165	32	116	17
38	150 - 600	300 - 1200	145,5	12	27/31,2	54	80	G 1/2"	G 3/8"	165	32	116	17
56	1000 - 2000	-	210,5	18	46/53,1	60	100	G 3/4"	G 3/8"	194	26,5	150	17,5

Gear rotor size \varnothing	Discharge l/h		f5	f6	f7	f8	f9	g1	g2	g3	h1	h2	h3
	1400 min ⁻¹	2800 min ⁻¹											
25	45 - 160	90 - 320	25,5	32,5	92	166	18	40	27	67	11	13	13
38	150 - 600	300 - 1200	23	35	92	166	18	45	27	72	11	13	13
56	1000 - 2000	-	25	50	120	203	26,5	65	40	105	13	13	25

With G 1/4" manometer connection at the face.