Oil Hydraulics

wepuko PAHNKE

We perform under high pressure.

Highlights:

- Based on more than 50 years of experience in building radial pison pumps
- Easily reversible pumping capacity, short regulating times
- Minimal lateral forces on the pistons
- No piston retraction problems as the centrifugal force of the pistons self-activates the power connection between piston, guide shoe and the pivoting lifting ring
- Various regulating possibilities for any requirement
- Low-pulsation pumping
- Excellent noise characteristics

RF Series I Technical Data

High-pressure radial piston pumps with constant flow rate

	Type	RF 15	RF 19	RF 24	RF 32	RF 42	RF 56	RF 70	RF 94
Geometric volume	cm³/Rev.	10,1	12,9	16,5	21,5	28,2	37,6	47,2	62,8
Geometric capacity at n = 1500 min^{-1}	l/min	15,1	19,3	24,7	32,2	42,2	56,4	70,8	94,2
Weight	kg	34		38		95		100	
Number of pistons		6		10		6		10	
Maximum speed	min^{-1}	2200				2000			

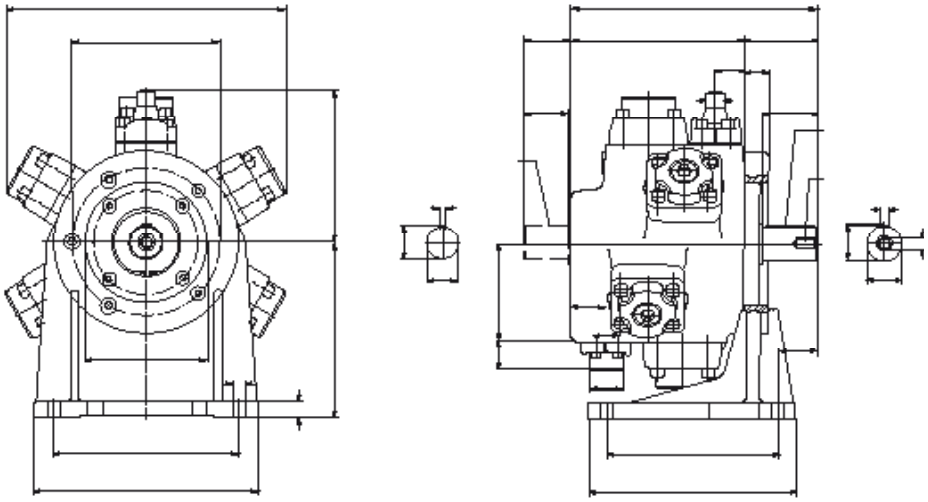
	Type	RF 121	RF 154	RF 202	RF 258	RF 330	RF 404	RF 516	RF 650	RF 1000
Geometric volume	cm³/Rev.	81,2	103	135	172	225	270	344	450	680
Geometric capacity at n = 1500 min^{-1}	l/min	121	154	202	258	335	405	516	670	1000
Weight	kg	246		295		320	500		580	710
Number of pistons		6		10			20			
Maximum speed	min^{-1}	1800								1500

	RF 15 ... 258	RF 404, 516	RF 330, 650	RF 1000
Continuous Pressure according to DIN 24312	450		420	400
Maximum Pressure according to DIN 24312	630		500	450
Inlet pressure *)	0,1 ... 2,5 (10)		1 ... 10	1 ... 5
Pressure liquid **)	Hydraulic oil HLP according to DIN 51524			
Pressure liquid viscosity	10 - 100 cSt			
Allowable start viscosity at p_e = 1 bar	400 cSt at n = 1500 min-1			
Pressure liquid temperature	10-65°C			
Filtration size	25 mikron			
Volumetric efficiency	0,94			

Main dimensions

All dimensions specified in mm.

P1: Pressure connection
P2: Suction connection
E: Inlet for case flushing (always at the lowest point)
A: Outlet for case flushing
M1: Measuring connection discharge (occupied for regulating device 7-9)
M2: Measuring connection suction



Type	A	B	C	D	E	F	F_1	G	G_1	H	L	M	N	O	S	X-pipe to		Y-pipe
																400 bar	700 bar	
RF 15 RF 19	245	245	165	4 x M 12 138	115	80	46	86	55	37	-	M 10	150	24	R 3/4"	16/12	20/12	-
RF 24 RF 32	265														R 1"			
RF 42 RF 56	340	340	227	4 x M 16 195	165	112	63	122	80	50	-	M 12	192	36	R1 1/4"	20/15	25/15	-
RF 70 RF 94	360												198		R1 1/2"	25/19	33,7/21	
RF 121 RF 154	500	463	327	6 x M 20 275	230	138	90	185	-	70	57	M 16	280	49	SAE NW 50	38/29	38 - 25,4	60,3 x 54,5
RF 202 RF 258	520										58		295		SAE NW 60	44,5/35,5	44,5/31,9	70/64,2
RF 330 RF 404 RF 516 RF 650	520	707	532	6 x M 20 275	230	175	90	185	-	75	90	M 16	305	70	SAE NW 80	60,3/46,1	60,3/46,3	88,9/80,8
RF 1000	610	810	620	-	-	190	166	212	-	115	90	-	343	82	-	101,6/20	-	88,9/80,8

Type	d	d_1	h	l	l_1	m	n	p	q	r	t	t_1	u	u_1	Ø v	w	w_1
RF 15 RF 19 RF 24 RF 32	32	28	180	58	42	165	200	155	190	42	35	31	10	8	14	18	18
RF 42 RF 56 RF 70 RF 94	45	38	265	82	58	260	320	250	300	52	48,5	41	14	10	18	22	25
RF 121 RF 154 RF 202 RF 258 RF 330	65	55	330	105	82	350	420	320	390	75	69	59	18	16	27	30	45
RF 404 RF 516 RF 650	65	55	450	140	82	430	500	440	510	90	69	59	18	16	27	40	50
RF 1000	85	85	400	160	160	360	410	600	720	200	89,4	89,4	22	22	22	35	-

RV-EN-170928. Subject to change without notice.

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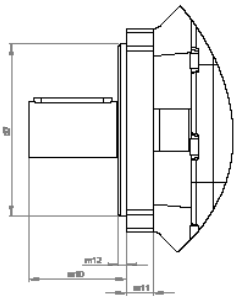

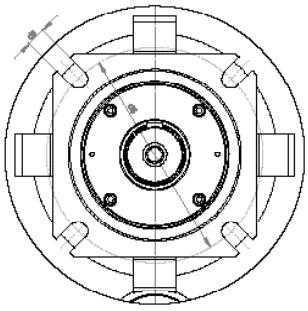

Application examples

- General hydraulic equipment
- Forging presses
- Bending presses
- Slab shears
- Extruders
- Upsetting presses
- Chip board presses
- Packing presses
- Stripper cranes
- Stretching benches
- Forging manipulators
- Embossing machines
- Pipe test presses
- Pulsation drives
- Pressure transmitters
- Power supplies
- Direct drives for hydraulic cylinders
- And many more applications!

Open die forging press

Is your application not mentioned here? Please give us a call. We'll be pleased to advise you!

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