



## Highlights:

- Based on more than 50 years of experience in building radial piston pumps
- Minimal lateral forces on the pistons
- Reduced bearing forces due to multi-row design
- Easily replaceable valves and internal parts
- No leakage and flushing line required
- Low-pulsation pumping
- Excellent noise characteristics

## RF Series I Technical Data

	Type	RF 15	RF 19	RF 24	RF 32	RF 42	RF 56	RF 70	RF 94
Geometric volume	cm <sup>3</sup> /Rev.	10,1	12,9	16,5	21,5	28,2	37,6	47,2	62,8
Geometric capacity at n = 1500 min <sup>-1</sup>	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 <sup>-1</sup>		2200				2000		

	Type	RF 121	RF 154	RF 202	RF 258	RF 330	RF 404	RF 516	RF 650	RF 1000
Geometric volume	cm <sup>3</sup> /Rev.	81,2	103	135	172	225	270	344	450	680
Geometric capacity at n = 1500 min <sup>-1</sup>	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 <sup>-1</sup>					1800				1500

	RF 15 ... 258	RF 404, 516	RF 330, 650	RF 1000
Continuous Pressure according to DIN 24312	450		420	400
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 <sub>e</sub> = 1 bar	400 cSt at n = 1500 min <sup>-1</sup>			
Pressure liquid temperature	10-65°C			
Purity class according to ISO 4406	19/16/13			
Volumetric efficiency	0,94			

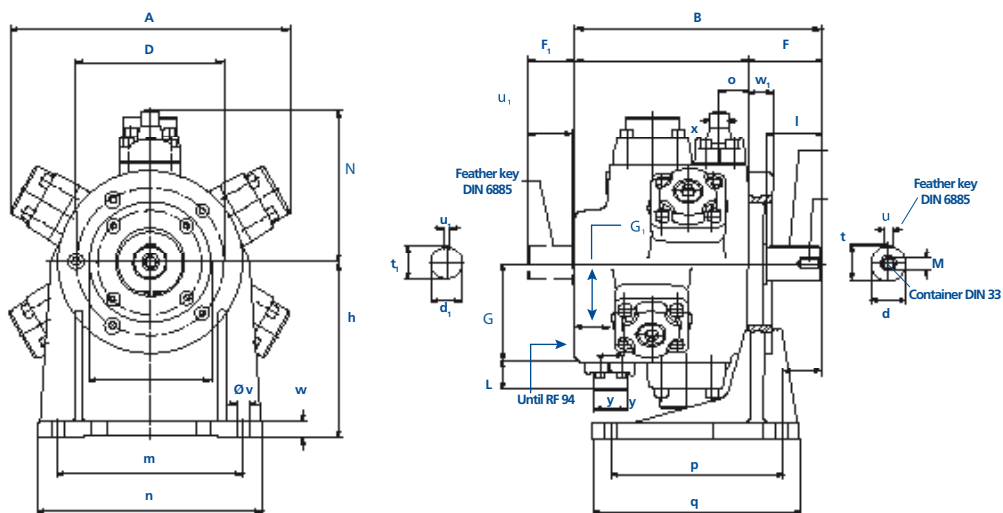
\* Inlet pressure < outlet pressure

\*\* Other pressure fluids on request

# RF Main dimensions

All dimensions specified in mm.

**P1:** Pressure connection  
**P2:** Suction connection



Type	A	B	C	D	E	F	F <sub>1</sub>	G	G <sub>1</sub>	H	L	M	N	O	S	P <sub>1</sub> X-pipe to*	P <sub>2</sub> Y-pipe*	
<b>RF 15</b> <b>RF 19</b>	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	-
<b>RF 24</b> <b>RF 32</b>	265														R 1"			
<b>RF 42</b> <b>RF 56</b>	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	-
<b>RF 70</b> <b>RF 94</b>	360												198		R1 1/2"			
<b>RF 121</b> <b>RF 154</b>	500	463	327	6 x M 20 275	230	138	90	185	-	70	57	M 16	280	49	NW 50	38/29	38 - 25,4	60,3 x 54,5
<b>RF 202</b> <b>RF 258</b>	520										58		295		NW 60			
<b>RF 330</b> <b>RF 404</b> <b>RF 516</b> <b>RF 650</b>	520	707	532	6 x M 20 275	230	175	90	185	-	75	90	M 16	305	70	NW 80	60,3/46,1	60,3/40,3	88,9/80,8
<b>RF 1000</b>	610	810	620	-	-	190	166	212	-	115	90	-	343	82	-	101,6/20	-	88,9/80,8

Type	d	d <sub>1</sub>	h	l	l <sub>1</sub>	m	n	p	q	r	t	t <sub>1</sub>	u	u <sub>1</sub>	Øv	w	w <sub>1</sub>
<b>RF 15</b> <b>RF 19</b> <b>RF 24</b> <b>RF 32</b>	32	28	180	58	42	165	200	155	190	42	35	31	10	8	14	18	18
<b>RF 42</b> <b>RF 56</b> <b>RF 70</b> <b>RF 94</b>	45	38	265	82	58	260	320	250	300	52	48,5	41	14	10	18	22	25
<b>RF 121</b> <b>RF 154</b> <b>RF 202</b> <b>RF 258</b> <b>RF 330</b>	65	55	330	105	82	350	420	320	390	75	69	59	18	16	27	30	45
<b>RF 404</b> <b>RF 516</b> <b>RF 650</b>	65	55	450	140	82	430	500	440	510	90	69	59	18	16	27	40	50
<b>RF 1000</b>	85	85	400	160	160	360	410	600	720	200	89,4	89,4	22	22	22	35	-

\*according to pressure level and active ingredient

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

## 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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