



Highlights:

- Based on more than 50 years of experience in building radial piston pumps
- Easily reversible pumping capacity, short regulating times
- Various regulating devices for any requirement
- Low-pulsation pumping
- Reduced bearing forces due to multi-row design
- Easily exchangeable valves and internal parts
- No leakage and flushing line required

RX Series I Technical Data

High-pressure radial piston pumps with variable flow rate

	Type	RX 160	RX 250	RX 360	RX 500
Geometric volume	cm ³ /Rev.	350	505	750	1015
Geometric capacity at n = 1000 min ⁻¹	l/min	350	505	750	1015
Continuous Pressure according to DIN 24312*	bar	350	350	350	350
Admissible working pressure for 50% displacement	bar	450	450	450	450
Lubrication oil flow	l/min	7	10	15	20
Minimum control time from 0-100% stroke	ms	50	65	90	100
External leakage at p _a = 315 bar and 35 cSt	l/min	30	40	60	80
Maximum speed	min ⁻¹	1800	1500	1200	1000
Moment of inertia	kgm ²	3,2	5,8	11,5	18,5
Weight	kg	680	930	1550	2150
Inlet pressure at low pressure connection P2		5-40 bar			
Inlet pressure at high pressure connection P1		5-450 bar			
Pressure liquid		Hydraulic oil HLP according to DIN 51524-2			
Pressure liquid viscosity		50-100 cSt			
Allowable start viscosity at p _e = 5 bar absolute		500 cSt (ISO 68 recommendation at 40°C)			
Pressure liquid temperature		10-60°C			
Purity class according to ISO 4406		19/16/13			
Drain flow pressure (casing pressure)		free drain flow required			
Lubrication pressure		≥ 3 bar			
for high pressure application identical to P1		(refer to order key)			

RX-EN-180306. Subject to change without notice.

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* Norm withdrawn

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!

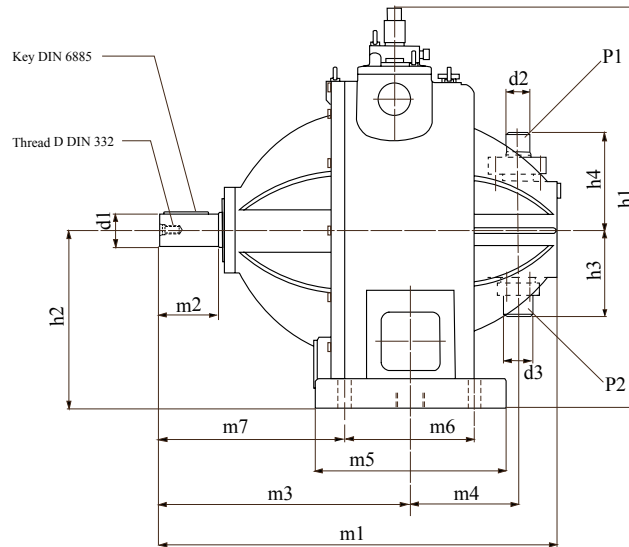
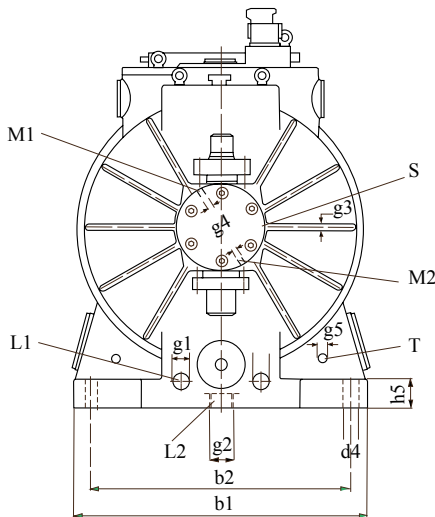


Open die forging press

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

Main dimensions

Drawing incorporates regulating device No. 6



- P1:** Pressure connection*¹
P2: Suction connection*¹
E: Inlet for case flushing
 (always at the lowest point)
L1; L2: Alternative drain-connection

- M1:** Measuring connection discharge
M2: Measuring connection suction
S: Lubrication connection
T: Connection for thermometer

All dimensions specified in mm.
^{*1} Low pressure connection P2 also available.
^{*2} According to pressure level and active ingredient

	b1	b2	d1	d2* ²	d3* ²	d4	g1	g2	g3	g4	g5
RX 160	570	500	75	45/60	65/76	22	G1½"	G2"	G½"	G¼"	
RX 250	780	680	90	50/76	65/75	33	G1½"	G2"	G¾"	G¼"	G½"
RX 360	920	800	100	58/89	78/96	33	G2"	G3"	G¾"	G¼"	G½"
RX 500	1000	850	110	60/89	100/118	39	G2"	G3"	G¾"	G¼"	G½"

	h1	h2	h3	h4	h5	m1	m2	m3	m4	m5	m6	m7
RX 160	750	365	225	225	60	680	105	370	240	290	220	275
RX 250	1025	475	240	255	75	1043	130	611	282	450	350	436
RX 360	1185	560	255	335	90	1275	180	755	355	600	480	515
RX 500	1258	605	265	350	100	1435	200	850	390	650	500	600

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