



150 Frame R-Series Duplex Stainless Steel Reciprocating Process Pumps

Models **152R060**
152R080
152R100

FEATURES

Superior Design

- Triplex plunger design gives smooth low-pulsation liquid flow.
- Interchangeable inlet and discharge valve assemblies accessible without removing the head for easy servicing.
- Standard oil bath crankcase lubrication assures optimum lubrication.
- Concentric, high-density, polished solid ceramic plungers offer true wear surface and extended seal life.
- Chevron, V-packing design offers strength under pressure and requires no packing adjustment.

Quality Materials

- Duplex stainless steel seats and springs and Delrin valves offer corrosion resistance and extended life.
- Duplex stainless steel manifold head offers strength and corrosion resistance.
- Special concentric, polished, graphite-impregnated, solid ceramic plungers are abrasion resistant and enhance seal life.
- Special PTFE/Kevlar V-Packings offer unmatched seal life.
- SG cast iron crankcase provides strength, vibration dampening and flame and spark resistance.
- Chrome-moly, nitrated crankshaft offers high-strength and greater surface hardness.
- Special one-piece, high strength Mazak ZA12 connecting rods provide exceptional bearing quality and long life.

Easy Maintenance

- Ceramic plungers, seals and V-Packings are serviceable from the top of the crankcase permitting easy in-field servicing.
- V-Packings require no adjustment reducing maintenance time.

⚠ WARNING

All systems require both a primary pressure regulating device (i.e., regulator, unloader) and a secondary pressure safety relief device (i.e., pop-off valve, safety valve). Failure to install such relief devices could result in personal injury or damage to the pump or to system components. CAT PUMPS does not assume any liability or responsibility for the operation of a customer's high pressure system.

SPECIFICATIONS

	U.S. Measure	Metric Measure	U.S. Measure	Metric Measure
MODEL 152R060	STANDARD		API	
Flow	115 GPM	(435 l/m)	86 GPM	(326 l/m)
Barrels Per Day (U.S., Petroleum)	—	—	2948 b/d	(2864 b/d)
Pressure Range*	100 to 1200 PSI (7 to 85 bar)		100 to 1200 PSI (7 to 85 bar)	
Maximum RPM	360 RPM (360 min ⁻¹)		270 RPM (270 min ⁻¹)	
Bore	2.36" (60 mm)		2.36" (60 mm)	
MODEL 152R080	STANDARD		API	
Flow	200 GPM	(765 l/m)	150 GPM	(580 l/m)
Barrels Per Day (U.S., Petroleum)	—	—	5142 b/d	(4996 b/d)
Pressure Range*	100 to 1200 PSI (7 to 85 bar)		100 to 1200 PSI (7 to 85 bar)	
Maximum RPM	355 RPM (355 min ⁻¹)		270 RPM (270 min ⁻¹)	
Bore	3.15" (80 mm)		3.15" (80 mm)	
MODEL 152R100	STANDARD		API	
Flow	260 GPM	(985 l/m)	240 GPM	(905 l/m)
Barrels Per Day (U.S., Petroleum)	—	—	8228 b/d	(7994 b/d)
Pressure Range*	100 to 1000 PSI (7 to 70 bar)		100 to 1000 PSI (7 to 70 bar)	
Maximum RPM	295 RPM (295 min ⁻¹)		270 RPM (270 min ⁻¹)	
Bore	3.94" (100 mm)		3.94" (100 mm)	

*Relief pressure should be set at maximum 10% over system pressure.

COMMON SPECIFICATIONS

Inlet Pressure Range.....	Flooded to 50 PSI	(Flooded to 3.5 bar)
Minimum RPM.....	75 RPM	(75 min ⁻¹)
Stroke.....	5.91"	(150 mm)
Crankcase Capacity.....	22.4 Gals	(85 l)
Lubrication.....	Splash	(splash)
Maximum Temperature	120°F	(50°C)
Inlet Ports (2)	6.0"	(150 mm)
Discharge Ports (2) (Nominal)	4.0"	(100 mm)
Shaft Diameter	3.397"	(100 mm)
Shaft Length.....	8.150	(207 mm)
Weight	3087 Lbs	(1400 kg)
Dimensions.....	68.11 x 42.13 x 22.05"	(1730 x 1070 x 560 mm)

Contact CAT PUMPS for other performances and requirements.

HORSEPOWER REQUIREMENTS

MODEL	FLOW		PRESSURE		RPM
	U.S. GPM	l/m	PSI 1000	PSI 1200	
152R060	115	435	79	95	360
152R080	200	765	137	165	355
152R100	260	985	178	N/A	295

“Customer confidence is our greatest asset”