



# 150 Frame R-Series Duplex Stainless Steel Reciprocating Process Pumps

Model **157R060**

## 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, springs and 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

### STANDARD

Flow.....	100 GPM	(375 l/m)
System Pressure* .....	2700 PSI	(185 bar)
Maximum RPM.....	310 RPM	(310 min <sup>-1</sup> )

### API

Flow.....	.86 GPM	(326 l/m)
Barrels Per Day (U.S., Petroleum).....	2948 B/D	(2864 b/d)
System Pressure* .....	2700 PSI	(185 bar)
Maximum RPM.....	270 RPM	(270 min <sup>-1</sup> )

\* 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 <sup>-1</sup> )
Bore.....	2.36"	(60 mm)
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)

## HORSEPOWER REQUIREMENTS

MODEL	FLOW		PRESSURE					RPM
			PSI 1000	PSI 1500	PSI 2000	PSI 2500	PSI 2700	
	U.S. GPM	l/m	bar 70	bar 105	bar 140	bar 175	bar 185	
157R060	100	375	69	103	137	172	N/A	310
	90	338	62	93	124	155	166	279
	86	326	59	89	118	148	159	270

*“Customer confidence is our greatest asset”*