

MODEL — P9390GSI, P9390X

BASIC MODEL SPECIFICATIONS

Type	4-cycle, overhead valve
Aspiration	Turbocharged & intercooled
Number of cylinders	V-16
Bore x stroke	6.375 x 8.50 in. (238 x 216 mm)
Displacement	9388 cu. in. (153.9 liters)
Compression ratio – natural gas standard ratio / HD-5 propane ratio	8-1
Speed range	700 – 1200 rpm continuous / 700 – 1200 rpm intermittent duty / 900 – 1200 rpm 9000X
Piston speed @ 1200 rpm	1700 ft./min. (8.64 m/sec)
Low idle	700 rpm
Flywheel housing – SAE No.	No housing - flywheel guard only

BEARINGS – MAIN

Number	10
Diameter x width (front)	6.25 x 4.125 in. (159 x 105 mm)
Diameter x width (intermediate)	6.25 x 3.0 in. (159 x 76 mm)
Diameter x width (center)	6.25 x 3.0 in. (159 x 76 mm)
Diameter x width (rear)	6.25 x 4.125 in. (159 x 105 mm)
Total main bearing projected area	201.6 sq. in. (1301 sq. cm)

BEARINGS – CRANKPIN

Diameter x width	6.25 x 2.50 in. (159 x 64 mm)
Total crankpin projected area	250 sq. in. (1613 sq. cm)

COOLING SYSTEM

Jacket capacity, engine only	148 gal. (560 liters)
Maximum jacket water pump inlet head	50.0 ft. (15.24 m) of H ₂ O
Normal jacket water temperature out of engine	180°F (82°C)
Jacket water inlet two connections, hose ID	4.5 in. (114 mm)
Jacket water outlet, hose ID	6 in. (152 mm)

EXHAUST SYSTEM

Maximum permissible backpressure at 180 BMEP @ 1200 rpm	21 in. (533 mm) of H ₂ O ⁽¹⁾
Exhaust outlet, pipe flange	14.0 in. (356 mm)

FUEL SYSTEM

Natural gas pressure at regulator	30 – 60 psi (207 – 414 kPa)
Natural gas inlet, pipe size	2.0 in. (50.8 mm)

AIR INDUCTION SYSTEM (DUCTING, FILTER & SILENCER)

Maximum permissible restriction:	
• Pre-filter pad	2 in. (51 mm) of H ₂ O
• Main filter element	6 in. (152 mm) of H ₂ O

LUBRICATION SYSTEM

Approximate capacity including sump, filters and cooler	165 gal. (625 liters)
Normal lube oil pressure	30 – 50 psi (242 – 345 kPa)

STARTING SYSTEM

Regulated starting air	150 psi (1034 kPa) ⁽²⁾
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MISCELLANEOUS

Recommended minimum spacing between engines	36 in. (914 mm)
Recommended minimum overhead clearance	(Note 3)
Engine dry weight	28,750 lb. (13,041 kg)
Heaviest engine part, top overhaul, cylinder head assembly	205 lb. (93 kg)
Heaviest engine part, cylinder block assembly	6000 lb. (2722 kg)

NOTES:

1. Reduce maximum permissible backpressure by:
1.5 in. (38 mm) H₂O for each 100 rpm reduction in rated speed.
1.5 in. (38 mm) H₂O for each 10 BMEP reduction in rated load.
Do not apply reductions below an exhaust backpressure of 4 in. (102 mm) H₂O.
2. Pressure is based on 50°F (10°C) lubricating oil temperature.
3. Sufficient height to permit use of a chain hoist for removal of heavier components.

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Petchers,2003

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