BRONZE CLOSE COUPLED
ROTARY GEAR PUMPS

MODEL N992(R) C81, C82

PERFORMANCE - WATER 70°

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Temperature extremes are detrimental to service life and should be avoided. Basic metals of construction allow temperature range of -40° to 400°F. Standard Buna lip seal has a temperature limit of 250°F, while the Viton lip seal will handle up to 300°F. Freezing liquid in the pump can deform or damage the pump.

SUCTION LIFT

As a general rule, the suction lift should be kept at an absolute minimum by placing the pump as close to the liquid source as possible. A gear pump in new condition can lift 20 feet of water in the suction line. A foot valve (preferably with built-in strainer) is recommended at the beginning of the suction line. For a first start-up, the pump should be primed to avoid dry running. Minimum size of the suction pipe is the size of the pump inlet port. For longer suction lines (over 3 feet) or for viscous liquids, the pipe should be at least one size or two sizes larger than the pump inlet port.

ROTATION AND RELIEF VALVE

If the discharge line contains any throttling devices such as a shut-off valve, a spray nozzle or other restrictive device, it is necessary to have a relief valve in the system which returns the liquid to the suction side or to the tank. The relief valve is also available as part of the pump itself (R-model pumps). However, built-in relief valves are only good for intermittent service. If used continuously, the pump will overheat. A built-in relief valve is strictly a safety device against overpressure. It will not work successfully as a pressure or flow control device. For this purpose a separate relief valve in the pressure line must be used.

Unless otherwise specified, the pump motor unit is supplied by the factory for shaft rotation counterclockwise from shaft end. Reversing motor will reverse "in and "out" ports and also requires changing relief valve location. The relief valve is always on the inlet side of this pump series. The factory pressure setting is 50 PSIG. To increase pressure, turn the relief valve adjusting screw in a clockwise direction.

LIQUIDS AND TEMPERATURE

Compact DC portable units convenient for on-site servicing of vehicles, machinery and field equipment. For pumping oil direct from crankcase or oil reservoir, drums, containers, transfer diesel fuel to vehicles, pumping other liquids and chemicals compatible with materials of construction. Pumping viscous oils, SAE 30 or greater, can overload motor. Intermittent use is recommended when pumping viscous oils, especially in cold weather.


COMPRESSOR CAPABILITIES

Liquids compatible with bronze, stainless steel and the Buna lip seal can be pumped. For solvents a Viton lip seal is available. For a Viton(R)* Seal, add S5 to the pump model number. See chemical compatibility table.

Notes:

- Maximum recommended operating point
- Temperature extremes are detrimental to service life and should be avoided.
- Basic metals of construction allow temperature range of -40° to 400°F. Standard Buna lip seal has a temperature limit of 250°F, while the Viton lip seal will handle up to 300°F. Freezing liquid in the pump can deform or damage the pump.

www.oberdorfer-pumps.com

PHONE (800) 448-1668; (315) 437-0361
FAX (315) 463-9561
EXPLODED VIEW AND PARTS LIST

DIMENSIONS & ROTATION
N992(R) C81, C82

RECOMMENDED WIRE SIZE AND LENGTH AWG
WIRE SIZE AND MAXIMUM LENGTH IN FEET

Specifications are subject to change without notice.

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