

Hydraulic Pumps



11R-12R Element

Radial piston arrangement, with 5 or 7 pumping elements. Oil immersed face mounting. Valve controlled. Fixed delivery. Bi-directional rotation of shaft. With extension shaft for through drive. Available with extension bracket assembly for coupling a low-pressure pump having standard flange.



1R Element

There are seven types of pumping elements, each having different displacement and pressure rating. The motion can be imparted either by a lever, a cam or a rocker arm. Radially arranging a number of such elements around a bearing, which is mounted eccentrically on a rotating shaft and connecting all delivery port of the elements together will create a pump giving a continuous oil flow. Odd number of elements connected in such a manner will give smoother flow than even number. Reciprocating motion of the piston gives pumping action.



Bell Housing Assembly BHP

These bell housings, along with the resilient shaft couplings provide good shaft alignment and help in reducing undue load on the pump and motor bearings as well as vibration and noise. The bell housing series BHP are designed for coupling Polyhydron make Radial Piston pumps series 1R, 2R, 11R and 12R to electric motors having metric flanges as per IS: 2223.



Hand Pump HP12-16

The pump can be supplied with extra-large tank if needed. Special Air breather prevents airborne impurities from entering the tank, thereby enhancing the service life of the pump. The collapsible handle makes the pump easy to transport and reduce operating force when the handle is extended. These pumps can also be used at construction sites for operating jacks for repair work. Hardened and ground piston and low friction high performance seal give the pump long service life.



Radial Piston Pump 1R2

Rugged low-cost pumps with all parts renewable by replacement. Oil immersed type, open execution, face mounting, valve controlled, fixed delivery, bi-directional rotation of shaft. For coupling the pumps to the electric motors standard bell housing assemblies are available. available with two pumping elements.



Radial Piston Pump 1R3

Rugged low-cost pumps with all parts renewable by replacement. Oil immersed type, open execution, face mounting, valve controlled, fixed delivery, bi-directional rotation of shaft. For coupling the pumps to the electric motors standard bell housing assemblies are available. Available with three pumping elements.

Radial Piston Pump 1RE



Rugged low-cost pumps with all parts renewable by replacement. Radial piston arrangement, with 3, 5 or 7 pumping elements. Oil immersed type, open execution, face mounting, valve controlled, fixed delivery, bi-directional rotation of shaft. Also available with extension shaft / bracket for through drive. For coupling the pumps to the electric motors standard bell housing assemblies are available. These are also available with extension shaft to couple low pressure pumps.

Radial Piston Pump 1RCE



Radial piston arrangement, with 3, 5 or 7 pumping elements. external mounting type. Face mounting, Valve controlled, Fixed delivery. Bi-directional rotation of shaft. Available with extension shaft for through drive. With extension bracket assembly for coupling a low-pressure pump having standard flange.

Radial Piston Pump 2R-E



Radial piston arrangement, with 3, 5 or 7 Pumping elements each per pump section. Fixed delivery, Oil immersed type, Open execution, face mounting, Valve controlled. Bi-directional rotation of shaft.

Radial Piston Pump 2RC-E



Radial piston arrangement, with 3, 5 or 7 pumping elements. External mounting type. Face mounting, Valve controlled, Fixed delivery. Bi-directional rotation of shaft. Available with extension shaft for through drive. With extension bracket assembly for coupling a low-pressure pump having standard flange.