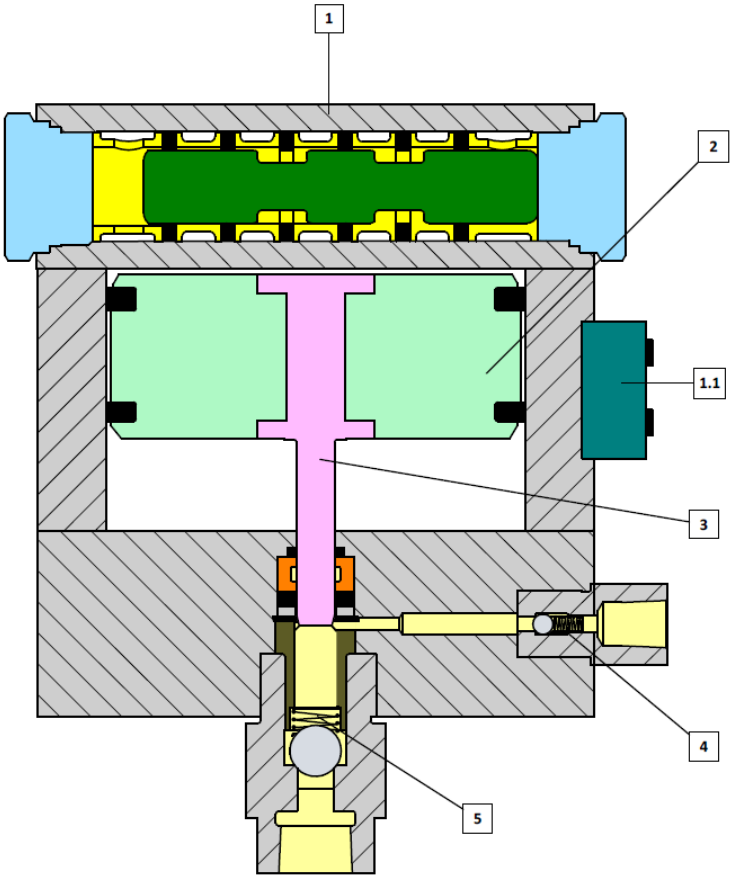
HEYPAC

Air Driven Pumps and Power Packs

Datasheet K2R80

The HEYPAC K2R80 is a single acting, free piston, compressed air driven hydraulic pump of infinitely variable delivery for general use wherever a compressed air supply is available. The pump will cycle automatically according to system demand and stall under zero flow conditions with minimal energy consumption. The output flow and pressure depend upon the intensification ratio relative to the air supply pressure and volume.



1. Air Valve
A self-reciprocating valve that alternates the compressed air supply to the upper and lower sides of the drive piston assembly generating the pumping motion of the unit.

1.1. A unique system of pilot control produces positive spool reversal.

2. Air drive
A lightweight drive piston complete with self lubricating seals allows the pump to operate on an unlubricated air supply.

3. Piston Rod
Transmits the compressed air power to the fluid being pumped. The cross sectional area of the fluid piston in relation to the air drive piston provides the pump intensification ratio.

4. Delivery Valve
Opens to allow fluid out of the pump as the piston assembly falls

5. Suction Valve
Opens to allow fluid to enter the pump as the piston assembly rises.

Datasheet K2R80

Technical Data

Air consumption
For details on air consumption please contact Hyquip.

Maximum hydraulic power 0.37 kW (0.5 hp)

Maximum cycle speed 250 cycles/minute (intermittent).
For continuous duty maximum cycle speed should be reduced to approx. 50 - 60 cycles/ minute. Applications involving continuous pumping should be referred to Hyquip.

Maximum air pressure 8.5 bar (125 psi)

Minimum air pressure 1.4 bar (20 psi)

Fluid temperature range Minus 5 deg C to plus 70 deg C (for temperatures outside this range contact Hyquip)

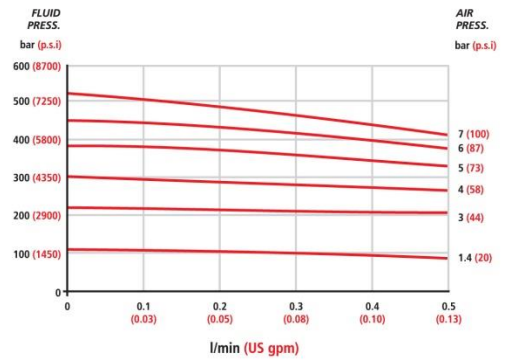
Performance Data

Pressure Ratio (fluid: air)	80:1
P max-fluid	680 bar (9840 psi)
Q max fluid	0.5 L/min (0.13 US gpm)
Q max avge fluid	0.17 L/min (0.04 US gpm)

"Q max." Is defined as the maximum pump flow at 250 cycles/minute - intermittent duty only.

"Q max. avge" Is defined as the maximum average allowable flow over the complete system operating cycle including both periods of pressure holding (stall condition) and fluid delivery.

Performance Graph



HEYPAC
Air Driven Pumps and Power Packs