



the most
dependable range of
positive displacement
pumps



Rotary shuttle block pump 'RPP'

Applications:

Rotary shuttle block pumps are ideal for loading & unloading tankers/ wagons, circulation, barrel filling, tank to tank transfer & other process pumping in industries like petroleum, refineries, oil, paint, chemical, pharma, sugar, food, textile, steel, cement, etc.

Typical liquid list:

Petroleum : bitumen, coal tar, pitch, crude oil, grease, wax, lubricants, emulsions, heat transfer liquids, polymer, sulphur, rubber cement, etc.

Oil : fuel oils (LDO, HSD, LSHS, HFO) kerosene, castor oil, linseed oil, cotton seed oil, etc.

Food : chocolate, corn syrup, honey, glucose, palm oil, starch, sugar syrup, vanaspati, edible oils, fatty acids, glycerin, lecithin, peanut butter, molasses, etc.

Detergents : potassium silicate, caustic soda, soap liquor, sodium silicate, LAB, etc.

Range :

Capacity : upto 940 lpm
Pressure : upto 8 kg / cm²
Temperature : upto 275 °C
Viscosity : upto 1,00,000 cSt

Material of construction :

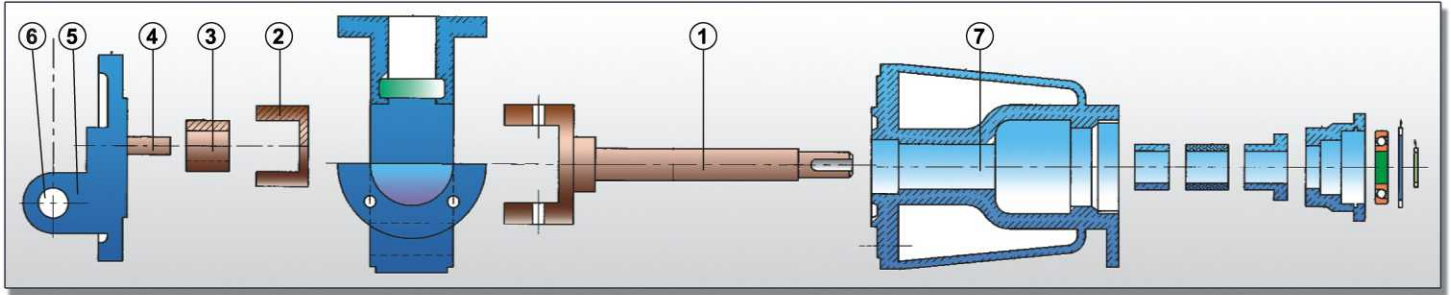
Standard : rotor & casing in CI, shaft in EN-24HG
Optional : CS, SS, nodular CI & all bronze

Features :

- High volumetric efficiency due to dual principle of rotary & reciprocating action
- Non pulsating flow
- Precision pumping elements in simple geometric form
- Micrometer axial shaft positioning mechanism for wear compensation
- Wide viscosity range
- Single robust shaft with high fatigue resistance
- Externally housed oversized bearings
- Front & back pull-out design for easy maintenance
- No damage to liquid structure
- Built in adjustable safety relief valve

Working principle :

Rotary shuttle block pumps work in a combination of rotary and reciprocating actions. The pump incorporates three main pumping elements, the rotor, piston and the shuttle which are liquid tight fit to each other & to the casing. Through each rotation the pumping elements create a double acting positive liquid displacement. Both the rotary and reciprocating actions ensure selfpriming, pulsation free liquid displacement.



1. Rotor with shaft 2. Piston 3. Shuttle 4. Shuttle pin 5. Front cover 6. Relief valve 7. Pump housing

Performance of RPP series :

Model	Pressure in kg / cm ²	2	4	6	8	RPM	Suc x Dis.
RPP-25	lpm / kW	44 / 0.30	43 / 0.47	41 / 0.62	40 / 0.80	1440	1" x 1"
RPP-37	lpm / kW	90 / 0.50	86 / 1.07	82 / 1.50	80 / 1.90	1440	1½" x 1½"
RPP-50	lpm / kW	257 / 1.69	253 / 2.50	250 / 3.71	244 / 4.80	1000	2" x 2"
RPP-75	lpm / kW	444 / 2.20	432 / 3.60	415 / 5.20	392 / 6.60	720	3" x 3"
RPP-100	lpm / kW	940 / 8.31	918 / 13.02	850 / 18.00	-	440	4" x 4"

Test oil : Lube oil. Viscosity : 40 cSt @ 38°C

Recommended RPM (Viscosity - speed chart)

Pump model Viscosity. cSt	RPP 25	RPP 37	RPP 50	RPP 75	RPP 100
50-150	1500	1500	1000	750	440
200	1500	1500	1000	750	440
350	1500	1500	1000	750	415
600	1200	1200	960	720	400
1200	1100	1100	960	600	375
2000	1000	1000	750	500	330
4000	720	720	600	500	300
10000	500	500	475	375	200
20000	375	375	200	175	150
50000 & above	250	250	150	125	100

The company reserves the right to change any specification without prior notice

An ISO 9001:2008 certified company



Manufactured by
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