

BEDU
≡ POMPEN ≡

Internal Gear Pumps



R series

made for your process

Operating principle and limits of use



The R internal gear pumps are self-priming positive displacement rotary pumps perfect for viscous liquids (0,5 to over 500.000 mm²/s) of any temperature (-60°C to 350°C), which can be corrosive, abrasive and dangerous for the environment. The pumps are used for transfer, dosing, processing, loading and unloading.

Two gears generate the flow: the rotor **1** and the idler **2**. The rotor moves the internal idler. As the gears rotate, the liquid is drawn into the spaces created between the gears and smoothly moved toward the discharge port, where the divider **3**, called crescent, closes the free space between the two gears. When the gears mesh, the liquid is slowly forced out of the pump. The result is a constant, smooth flow with no pulsations with a capacity directly proportional to the rotation speed. This will avoid vibrations on fittings, valves or couplings, reducing the foaming or churning of the liquid.



The pump is equipped with one shaft seal or with magnetic coupling only, and has the possibility of a heating jacket around the casing in one cast. The full performance is available in either direction of rotation and the casing can be rotated and delivered with 90° or 180° (in-line) ports. A safety relief valve against over-pressure is incorporated in the pump. This is a heavy duty construction optimized for rare maintenance.



The pumps are available with ATEX certifications to fulfill the EU regulation "Directive 2014/34/EU" that regulates the security of use for equipment in potentially explosive atmospheres. We can supply ATEX certifications for the areas of Group II, categories 2GD (Zone 1) and 3GD (Zone 2) for the temperature classes T1/T2/T3 and T4.

By filling out a simple questionnaire, you can check the availability of the certificate for the specific request.

Further information is available on request.

Bare shaft



R 80 HR1B+Y

Cast iron high temperature pump with DN80 flanged ports and packing shaft seal in bare shaft version. Designed to resist up to 350°C.

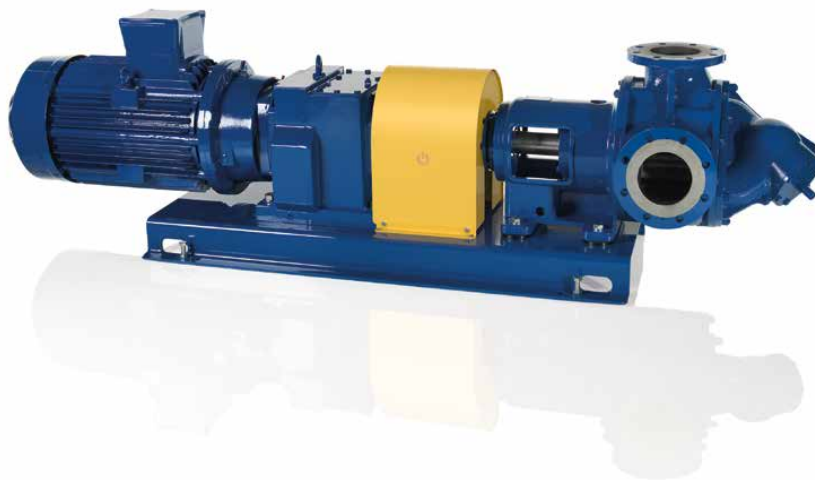
Bi-Block



R 35 GL44BBT16

Cast iron pump, with 1½" threaded in-line ports (180°) in Bi-Block version directly connected to the motor through a safety coupling, integrated in the pedestal. The pedestal is compatible with standard IEC B5 drives.

Classic



R180 GG30B+Y+2A/245RF129+362De374

Cast iron pump with DN150 ports in classic version. All components (gear box, motor, base plate and coupling guard) are painted separately for long lasting protection.



Pumpable liquids

Amines

Animal fats

Anti-foaming

Asphalt

Binding agents

Bitumen

Chemical products

Chocolate

Colors

Diathermic oils

Emulsions

Fats

Foams

Frying oils

Fuel oils

Gasoline

Gelatine

Glucose

Glue

Glycerine

Glycols

Isocyanates

Kerosene

Lacquer

Lubricating oils

Mineral oils

Molasses

Naphtha

Paints

Palm oil

Paraffins

Petroleum

Petrol

Pitch

Plasticizers

Polymers

Polyols

Printing inks

Protein concentrate

Rapeseed oil

Resins

Soaps

Viscose

Soluble glass

Starches

Wax

and many others...

R50 with magnetic coupling for isocyanate



The magnetic coupling of this pump allows a perfect seal, preventing dangerous losses of the liquid that is being pumped. The environment remains clean and odorless thus protecting the staff and the environment.

Applications



Adhesives

the possibility to adjust the speed of rotation also allows more viscous liquids to enter between the gears and to be pumped.



Molasses

thanks to their high reliability our pumps are often used for loading and unloading of ships in ports.



Heated oils

the heated casing maintains a constant temperature and viscosity to enable the fluid to remain pumpable.



Diesel and petrol

it is possible to pump low viscosity liquids that could be flammable and in ATEX environments (on request certifications available).



Colors

the use of these pumps in the paint factories is appreciated for the very low maintenance and for its excellent performance.



Resins and polymers

since these pumps are not transmitting vibrations or pulsations to the pipes, they are more and more being installed in industrial plants of various types.

Pump characteristics



DIN or ANSI flanged ports

from DN40 to DN250, with through-holes to facilitate the installation. $\frac{1}{4}$ " threaded holes for vacuum/pressure gauge.



Casing with threaded ports

available for R 35 and R 40 suitable to create more compact installations.



Idler

of robust construction, with thick teeth and wide tolerance for abrasives.

Pump characteristics



Rotor
with materials designed to prevent accidental breakages caused by unforeseen solids.

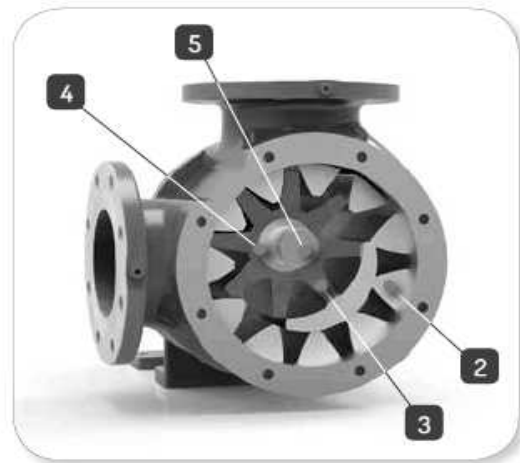
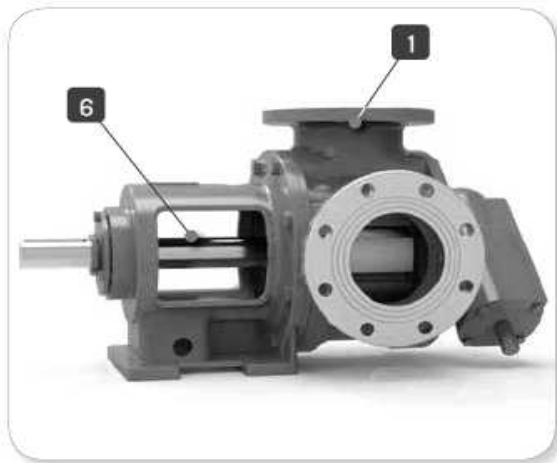


Pin
the variety of materials which can be made guarantees its compatibility with different liquids.



Bushings
available in different variants to avoid seizures between the pump parts and to withstand abrasion.

Materials and component section



| | | |
|----------|-----------------|---|
| 1 | CASING | Available in ductile iron and stainless steel. |
| 2 | ROTOR | Available in steel, stainless steel and tempered steel. |
| 3 | IDLER | Available in cast iron, stainless steel and tempered steel. |
| 4 | BUSHINGS | Available in cast iron, sintered iron, graphite, sintered bronze, high temperature bronze, tempered stainless steel and tungsten carbide. |
| 5 | PIN | Available in hardened steel, stainless steel, tempered stainless steel, tungsten carbide. |
| 6 | SHAFT | Available in tempered steel, stainless steel and coated versions. |

Pump heating



Jacket integrated in the casing of the pump in one cast: a very appreciated invention of Vittorio Varisco that combines effectiveness and simplicity of use.



Heating plates on the cover (+R2). An economic alternative for less complex heating systems. With threaded ports.



Heating plates on the cover. Available also with flanged connections.



Heating jacket integrated with counter-flanges to weld. Very practical system to be installed in small spaces.

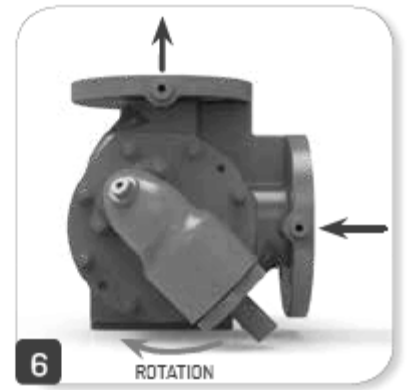
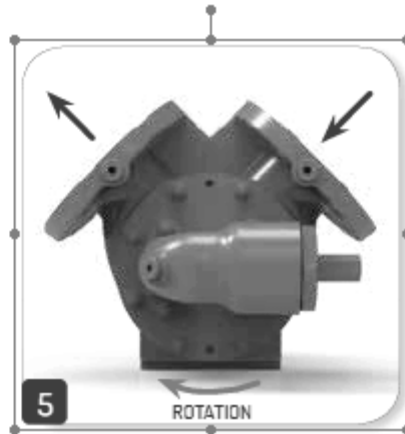
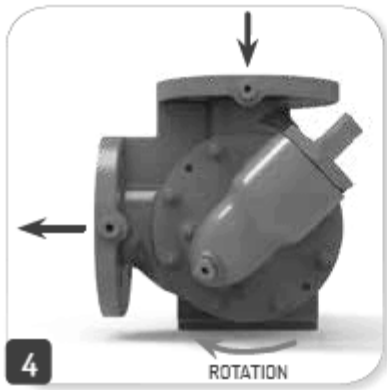
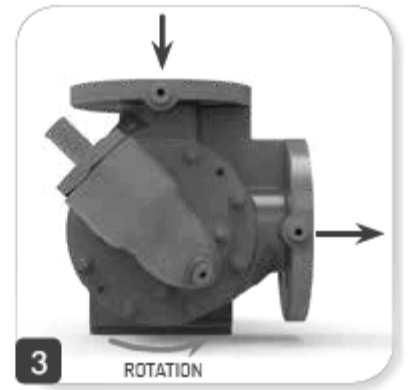
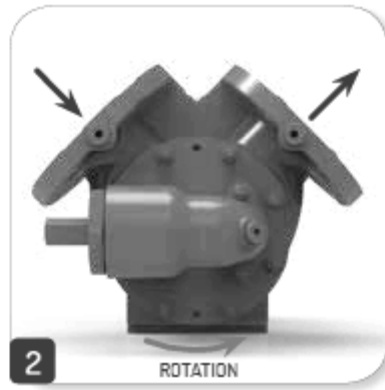
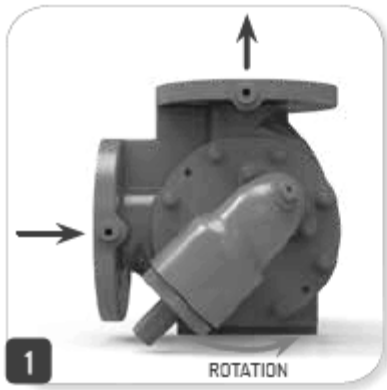


Heating plates on the casing, adaptable to individual requirements, easily removable for a simple maintenance.



Integral heating, to maintain the temperature constant within the whole pump. Supplied "taylormade".

Orientation of suction and discharge flange



Great versatility:

The flanges of the R pumps can be supplied at 90° or 180° "in line" (L.). Generally, the pumps are delivered with position #1 (at 90°) or in position #7 (at 180°).



Types of seals and accessories



Packing

simple or lubricated (flushed). It is very robust and economical; recommended for many applications.



Mechanical seal

single or double (back to back or in tandem). Available in various materials and with O-rings in FKM, PTFE or Kalrez®.



Quench

additional barrier room after the seal, with tank for barrier liquid which is useful to preserve the mechanical seal; for air-sensitive liquids.



Sealing with security packing

in case of accidental breakage of the mechanical seal, the packing ring prevents leakage of the liquid until the next maintenance.



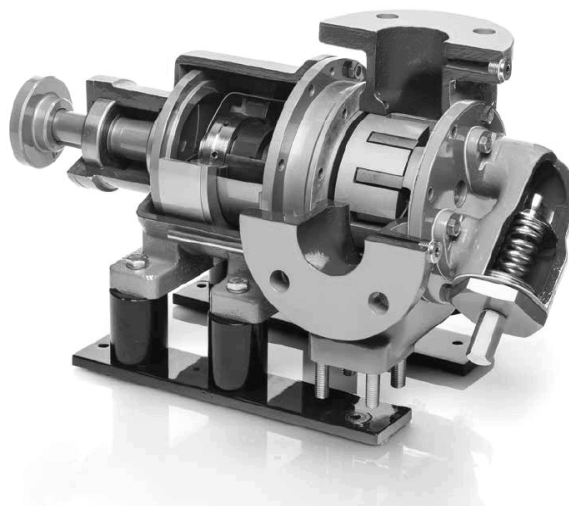
Cartridge seal

for special needs of standardization in installations.



Magnetic coupling

the pump becomes sealless and has only gaskets of a static type, recommended with dangerous liquids to protect the users and the environment.



Accessories



Pedestal

over-sized bearing, regulation of rotor and drip tray integrated in one cast.

Grounded base

ON REQUEST:
in the ATEX area, it simplifies the work of electrical installation.

ON REQUEST:
double valve for reversible pump.



SX coupling

elastic coupling to dampen noises caused by the engine and by the irregular flow. The central elastic element breaks in the event of a blockage of the pump, protecting the motor and the gear box.

PX coupling

standard coupling for pumps of large dimensions, guarantees a great elasticity and durability of coupling also with considerable misalignments.

BDS coupling for ATEX pump

excellent flexible coupling for ATEX use, special designed to be maintenance free.



Performance

R 35 (0,04 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|----------------------------|------|-------------------|-----|-------------------|-----|-------------------|-----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 1450 | 2,9 | 1,2 | 2,1 | 1,6 | - | - |
| 20 | 1450 | 3,5 | 1,2 | 2,9 | 1,6 | - | - |
| 200 | 1450 | 3,7 | 1,4 | 3,5 | 1,9 | 3,3 | 2,8 |
| 2.000 | 960 | 2,5 | 1,3 | 2,4 | 1,6 | 2,3 | 2,2 |
| 8.000 | 660 | 1,7 | 1,2 | 1,6 | 1,4 | 1,6 | 1,9 |
| 20.000 | 320 | 0,8 | 0,5 | 0,8 | 0,6 | 0,7 | 0,7 |
| 200.000 | 220 | 0,6 | 0,4 | 0,6 | 0,5 | 0,6 | 0,6 |

NON-LUBRICATING LIQUIDS

| | | | | | | | |
|---------|-----|-----|-----|-----|-----|---|---|
| 2 | 960 | 1,6 | 0,6 | - | - | - | - |
| 20 | 960 | 2,2 | 0,6 | - | - | - | - |
| 200 | 960 | 2,4 | 0,7 | 2,2 | 1 | - | - |
| 2.000 | 960 | 2,5 | 1,3 | 2,4 | 1,6 | - | - |
| 8.000 | 660 | 1,7 | 1,2 | 1,6 | 1,4 | - | - |
| 20.000 | 320 | 0,8 | 0,5 | 0,8 | 0,6 | - | - |
| 200.000 | 220 | 0,6 | 0,4 | 0,6 | 0,5 | - | - |

ABRASIVE LIQUIDS

| | | | | | | | |
|---------|-----|-----|-----|-----|-----|---|---|
| 2 | 960 | 1,6 | 0,6 | - | - | - | - |
| 20 | 720 | 1,5 | 0,4 | - | - | - | - |
| 200 | 720 | 1,7 | 0,5 | 1,5 | 0,7 | - | - |
| 2.000 | 720 | 1,8 | 0,9 | 1,7 | 1,1 | - | - |
| 8.000 | 660 | 1,7 | 1,2 | 1,6 | 1,4 | - | - |
| 20.000 | 320 | 0,8 | 0,5 | 0,8 | 0,6 | - | - |
| 200.000 | 220 | 0,6 | 0,4 | 0,6 | 0,5 | - | - |

R 40 (0,07 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|----------------------------|------|-------------------|-----|-------------------|-----|-------------------|-----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 1450 | 6,2 | 1,7 | 5,4 | 2,5 | - | - |
| 20 | 1450 | 6,8 | 1,7 | 6,2 | 2,5 | - | - |
| 200 | 960 | 4,6 | 1,1 | 4,4 | 1,6 | 4,2 | 2,7 |
| 2.000 | 960 | 4,7 | 1,6 | 4,6 | 2,2 | 4,4 | 3,3 |
| 8.000 | 720 | 3,5 | 1,8 | 3,5 | 2,3 | 3,4 | 3,1 |
| 20.000 | 320 | 1,6 | 0,7 | 1,5 | 0,9 | 1,4 | 1,3 |
| 200.000 | 180 | 0,9 | 0,4 | 0,9 | 0,6 | 0,9 | 0,8 |

NON-LUBRICATING LIQUIDS

| | | | | | | | |
|---------|-----|-----|-----|-----|-----|---|---|
| 2 | 960 | 3,8 | 0,9 | - | - | - | - |
| 20 | 960 | 4,4 | 1 | - | - | - | - |
| 200 | 960 | 4,6 | 1,1 | 4,4 | 1,6 | - | - |
| 2.000 | 960 | 4,7 | 1,6 | 4,6 | 2,2 | - | - |
| 8.000 | 720 | 3,5 | 1,8 | 3,5 | 2,3 | - | - |
| 20.000 | 320 | 1,6 | 0,7 | 1,5 | 0,9 | - | - |
| 200.000 | 180 | 0,9 | 0,4 | 0,9 | 0,6 | - | - |

ABRASIVE LIQUIDS

| | | | | | | | |
|---------|-----|-----|-----|-----|-----|---|---|
| 2 | 960 | 3,8 | 0,9 | - | - | - | - |
| 20 | 720 | 3,2 | 0,6 | - | - | - | - |
| 200 | 720 | 3,4 | 0,7 | 3,2 | 1,1 | - | - |
| 2.000 | 720 | 3,5 | 1,1 | 3,4 | 1,7 | - | - |
| 8.000 | 660 | 3,2 | 1,5 | 3,2 | 1,8 | - | - |
| 20.000 | 320 | 1,6 | 0,7 | 1,5 | 0,9 | - | - |
| 200.000 | 180 | 0,9 | 0,4 | 0,9 | 0,6 | - | - |

cSt: VISCOSITY / rpm: MAXIMAL RECOMMENDED REVOLUTIONS PER MINUTE / m³/h: FLOW / kW: REQUIRED POWER

Performance

R 50 (0,22 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|--------------------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 720 | 8,2 | 1,6 | 6,4 | 2,7 | - | - |
| 20 | 720 | 8,6 | 1,7 | 7,4 | 2,8 | - | - |
| 200 | 640 | 7,9 | 1,8 | 7,2 | 2,8 | 6,3 | 4,8 |
| 2.000 | 520 | 6,7 | 1,9 | 6,3 | 2,8 | 5,8 | 4,6 |
| 8.000 | 380 | 4,9 | 1,9 | 4,6 | 2,6 | 4,3 | 3,7 |
| 20.000 | 200 | 2,6 | 0,9 | 2,4 | 1,2 | 2,1 | 1,7 |
| 200.000 | 120 | 1,6 | 0,6 | 1,6 | 0,8 | 1,6 | 1,3 |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 720 | 8,2 | 1,6 | - | - | - | - |
| 20 | 720 | 8,6 | 1,7 | - | - | - | - |
| 200 | 640 | 7,9 | 1,8 | 7,2 | 2,8 | - | - |
| 2.000 | 520 | 6,7 | 1,9 | 6,3 | 2,8 | - | - |
| 8.000 | 380 | 4,9 | 1,9 | 4,6 | 2,6 | - | - |
| 20.000 | 200 | 2,6 | 0,9 | 2,4 | 1,2 | - | - |
| 200.000 | 120 | 1,6 | 0,6 | 1,6 | 0,8 | - | - |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 600 | 6,6 | 1,3 | - | - | - | - |
| 20 | 600 | 7,0 | 1,3 | - | - | - | - |
| 200 | 600 | 7,4 | 1,5 | 6,7 | 2,4 | - | - |
| 2.000 | 460 | 5,8 | 1,5 | 5,4 | 2,1 | - | - |
| 8.000 | 380 | 4,9 | 1,9 | 4,6 | 2,6 | - | - |
| 20.000 | 200 | 2,6 | 0,9 | 2,4 | 1,2 | - | - |
| 200.000 | 120 | 1,6 | 0,6 | 1,6 | 0,8 | - | - |

R 65 (0,48 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|--------------------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 620 | 17 | 3,2 | 15 | 5,2 | - | - |
| 20 | 620 | 18 | 3,3 | 17 | 5,3 | - | - |
| 200 | 480 | 14 | 2,4 | 13 | 4,2 | 12 | 5,5 |
| 2.000 | 380 | 11 | 2,8 | 11 | 4,1 | 10 | 6,5 |
| 8.000 | 300 | 9 | 3 | 8,7 | 4 | 8,4 | 5,9 |
| 20.000 | 140 | 4,1 | 1,1 | 3,9 | 1,6 | 3,7 | 2,5 |
| 200.000 | 100 | 2,9 | 0,7 | 2,9 | 1,2 | 2,9 | 1,6 |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 600 | 16 | 3,1 | - | - | - | - |
| 20 | 600 | 17 | 3,2 | - | - | - | - |
| 200 | 480 | 14 | 2,4 | 13 | 4,2 | - | - |
| 2.000 | 380 | 11 | 2,8 | 11 | 4,1 | - | - |
| 8.000 | 300 | 9 | 3 | 8,7 | 4 | - | - |
| 20.000 | 140 | 4,1 | 1,1 | 3,9 | 1,6 | - | - |
| 200.000 | 100 | 2,9 | 0,7 | 2,9 | 1,2 | - | - |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 500 | 13 | 2,4 | - | - | - | - |
| 20 | 360 | 9,7 | 1,7 | - | - | - | - |
| 200 | 360 | 10 | 2,1 | 9,4 | 3,3 | - | - |
| 2.000 | 360 | 11 | 2,8 | 10 | 4 | - | - |
| 8.000 | 300 | 9 | 3 | 8,7 | 4 | - | - |
| 20.000 | 140 | 4,1 | 1,1 | 3,9 | 1,6 | - | - |
| 200.000 | 100 | 2,9 | 0,7 | 2,9 | 1,2 | - | - |

cSt: VISCOSITY / rpm: MAXIMAL RECOMMENDED REVOLUTIONS PER MINUTE / m³/h: FLOW / kW: REQUIRED POWER

Performance

| R 80 (1,2 l/rot.) | | DIFFERENTIAL PRESSURE | | | | | |
|--------------------------------|-----|-----------------------|-----|-------------------|-----|-------------------|-----|
| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 400 | 25 | 4,2 | 22 | 7,5 | - | - |
| 20 | 400 | 27 | 4,5 | 26 | 7,7 | - | - |
| 200 | 300 | 21 | 3,3 | 20 | 5,5 | 18 | 10 |
| 2.000 | 240 | 17 | 4 | 16 | 5,8 | 15 | 9,5 |
| 8.000 | 180 | 13 | 3,8 | 12 | 5,4 | 12 | 8,3 |
| 20.000 | 90 | 6,3 | 1,7 | 6 | 2,4 | 5,6 | 3,9 |
| 200.000 | 60 | 4,2 | 1,4 | 4,2 | 2 | 4,1 | 3 |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 400 | 25 | 4,2 | - | - | - | - |
| 20 | 400 | 27 | 4,5 | - | - | - | - |
| 200 | 300 | 21 | 3,3 | 20 | 5,5 | 18 | 10 |
| 2.000 | 240 | 17 | 4 | 16 | 5,8 | 15 | 9,5 |
| 8.000 | 180 | 13 | 3,8 | 12 | 5,4 | 12 | 8,3 |
| 20.000 | 90 | 6,3 | 1,7 | 6 | 2,4 | 5,6 | 3,9 |
| 200.000 | 60 | 4,2 | 1,4 | 4,2 | 2 | 4,1 | 3 |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 380 | 24 | 3,8 | - | - | - | - |
| 20 | 300 | 20 | 3,2 | 18,6 | 5,4 | - | - |
| 200 | 300 | 21 | 3,3 | 20 | 5,5 | 18 | 10 |
| 2.000 | 240 | 17 | 4 | 16 | 5,8 | 15 | 9,5 |
| 8.000 | 180 | 13 | 3,8 | 12 | 5,4 | 12 | 8,3 |
| 20.000 | 90 | 6,3 | 1,7 | 6 | 2,4 | 5,6 | 3,9 |
| 200.000 | 60 | 4,2 | 1,4 | 4,2 | 2 | 4,1 | 3 |

| R105 (2,3 l/rot.) | | DIFFERENTIAL PRESSURE | | | | | |
|--------------------------------|-----|-----------------------|-----|-------------------|-----|-------------------|-----|
| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 350 | 42 | 7,2 | 37 | 13 | - | - |
| 20 | 350 | 46 | 7,3 | 43 | 13 | - | - |
| 200 | 270 | 36 | 6,3 | 35 | 11 | 34 | 19 |
| 2.000 | 220 | 30 | 7,5 | 29 | 11 | 29 | 18 |
| 8.000 | 160 | 22 | 7,5 | 21 | 11 | 21 | 18 |
| 20.000 | 80 | 11 | 3,8 | 11 | 5,3 | 10 | 8 |
| 200.000 | 60 | 8,2 | 3,4 | 8,2 | 4,6 | 8,1 | 6,9 |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 350 | 42 | 7,2 | - | - | - | - |
| 20 | 350 | 46 | 7,3 | - | - | - | - |
| 200 | 270 | 36 | 6,3 | 35 | 11 | 34 | 19 |
| 2.000 | 220 | 30 | 7,5 | 29 | 11 | 29 | 18 |
| 8.000 | 160 | 22 | 7,5 | 21 | 11 | 21 | 18 |
| 20.000 | 80 | 11 | 3,8 | 11 | 5,3 | 10 | 8 |
| 200.000 | 60 | 8,2 | 3,4 | 8,2 | 4,6 | 8,1 | 6,9 |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 320 | 38 | 6,8 | - | - | - | - |
| 20 | 230 | 29 | 4,4 | 27 | 8 | - | - |
| 200 | 230 | 31 | 5 | 29 | 8,6 | 28 | 16 |
| 2.000 | 220 | 30 | 7,5 | 29 | 11 | 29 | 18 |
| 8.000 | 160 | 22 | 7,5 | 21 | 11 | 21 | 18 |
| 20.000 | 80 | 11 | 3,8 | 11 | 5,3 | 10 | 8 |
| 200.000 | 60 | 8,2 | 3,4 | 8,2 | 4,6 | 8,1 | 6,9 |

cSt: VISCOSITY / rpm: MAXIMAL RECOMMENDED REVOLUTIONS PER MINUTE / m³/h: FLOW / kW: REQUIRED POWER

Performance

| R151 (3,9 l/rot.) | | DIFFERENTIAL PRESSURE | | | | | | | |
|--------------------------------|-----|-----------------------|-----|-------------------|----|-------------------|----|-------------------|----|
| | | 4 bar | | 8 bar | | 16 bar | | | |
| | | cSt | rpm | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | | | |
| 2 | 420 | 90 | 14 | 84 | 24 | - | - | - | - |
| 20 | 400 | 90 | 14 | 87 | 24 | - | - | - | - |
| 200 | 340 | 78 | 13 | 76 | 22 | 74 | 49 | - | - |
| 2.000 | 260 | 60 | 14 | 59 | 21 | 58 | 34 | - | - |
| 8.000 | 200 | 46 | 14 | 46 | 19 | 45 | 30 | - | - |
| 20.000 | 100 | 23 | 6 | 23 | 8 | 22 | 15 | - | - |
| 200.000 | 70 | 16 | 6 | 16 | 8 | 16 | 12 | - | - |
| NON-LUBRICATING LIQUIDS | | | | | | | | | |
| 2 | 340 | 72 | 12 | - | - | - | - | - | - |
| 20 | 340 | 76 | 13 | - | - | - | - | - | - |
| 200 | 340 | 78 | 13 | 76 | 22 | 74 | 49 | - | - |
| 2.000 | 260 | 60 | 14 | 59 | 21 | 58 | 34 | - | - |
| 8.000 | 200 | 46 | 14 | 46 | 19 | 45 | 30 | - | - |
| 20.000 | 100 | 23 | 6 | 23 | 8 | 22 | 15 | - | - |
| 200.000 | 70 | 16 | 6 | 16 | 8 | 16 | 12 | - | - |
| ABRASIVE LIQUIDS | | | | | | | | | |
| 2 | 260 | 53 | 8 | - | - | - | - | - | - |
| 20 | 200 | 43 | 6 | 40 | 12 | - | - | - | - |
| 200 | 200 | 45 | 7 | 43 | 12 | 41 | 22 | - | - |
| 2.000 | 200 | 46 | 10 | 45 | 14 | 44 | 25 | - | - |
| 8.000 | 200 | 46 | 14 | 46 | 19 | 45 | 30 | - | - |
| 20.000 | 100 | 23 | 6 | 23 | 8 | 22 | 15 | - | - |
| 200.000 | 70 | 16 | 6 | 16 | 8 | 16 | 12 | - | - |

| R180 (7 l/rot.) | | DIFFERENTIAL PRESSURE | | | | | | | |
|--------------------------------|-----|-----------------------|-----|-------------------|----|-------------------|----|-------------------|----|
| | | 4 bar | | 8 bar | | 16 bar | | | |
| | | cSt | rpm | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | | | |
| 2 | 250 | 98 | 14 | 87 | 26 | - | - | - | - |
| 20 | 250 | 105 | 15 | 101 | 27 | - | - | - | - |
| 200 | 200 | 86 | 12 | 83 | 22 | - | - | - | - |
| 2.000 | 160 | 70 | 14 | 68 | 21 | - | - | - | - |
| 8.000 | 120 | 53 | 12 | 52 | 19 | - | - | - | - |
| 20.000 | 60 | 26 | 8 | 26 | 11 | - | - | - | - |
| 200.000 | 40 | 18 | 5 | 18 | 7 | - | - | - | - |
| NON-LUBRICATING LIQUIDS | | | | | | | | | |
| 2 | 250 | 98 | 14 | - | - | - | - | - | - |
| 20 | 250 | 105 | 15 | 101 | 27 | - | - | - | - |
| 200 | 200 | 86 | 12 | 83 | 22 | - | - | - | - |
| 2.000 | 160 | 70 | 14 | 68 | 21 | - | - | - | - |
| 8.000 | 120 | 53 | 12 | 52 | 19 | - | - | - | - |
| 20.000 | 60 | 26 | 8 | 26 | 11 | - | - | - | - |
| 200.000 | 40 | 18 | 5 | 18 | 7 | - | - | - | - |
| ABRASIVE LIQUIDS | | | | | | | | | |
| 2 | 220 | 85 | 12 | 74 | 22 | - | - | - | - |
| 20 | 160 | 65 | 9 | 61 | 19 | - | - | - | - |
| 200 | 160 | 68 | 12 | 66 | 20 | - | - | - | - |
| 2.000 | 160 | 70 | 14 | 68 | 21 | - | - | - | - |
| 8.000 | 120 | 53 | 12 | 52 | 19 | - | - | - | - |
| 20.000 | 60 | 26 | 8 | 26 | 11 | - | - | - | - |
| 200.000 | 40 | 18 | 5 | 18 | 7 | - | - | - | - |

cSt: VISCOSITY / rpm: MAXIMAL RECOMMENDED REVOLUTIONS PER MINUTE / m³/h: FLOW / kW: REQUIRED POWER

Performance

R200

(14 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|--------------------------------|-----|-------------------|----|-------------------|----|-------------------|----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 210 | 182 | 25 | 170 | 40 | - | - |
| 20 | 210 | 188 | 26 | 184 | 45 | - | - |
| 200 | 160 | 145 | 22 | 143 | 37 | - | - |
| 2.000 | 130 | 119 | 19 | 118 | 32 | - | - |
| 8.000 | 100 | 92 | 20 | 92 | 29 | - | - |
| 20.000 | 50 | 46 | 9 | 46 | 13 | - | - |
| 200.000 | 30 | 28 | 8 | 28 | 12 | - | - |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 210 | 182 | 25 | - | - | - | - |
| 20 | 210 | 188 | 26 | 184 | 45 | - | - |
| 200 | 160 | 145 | 22 | 143 | 37 | - | - |
| 2.000 | 130 | 119 | 19 | 118 | 32 | - | - |
| 8.000 | 100 | 92 | 20 | 92 | 29 | - | - |
| 20.000 | 50 | 46 | 9 | 46 | 13 | - | - |
| 200.000 | 30 | 28 | 8 | 28 | 12 | - | - |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 170 | 145 | 19 | 133 | 32 | - | - |
| 20 | 130 | 114 | 15 | 110 | 27 | - | - |
| 200 | 130 | 117 | 16 | 115 | 28 | - | - |
| 2.000 | 100 | 91 | 15 | 90 | 24 | - | - |
| 8.000 | 100 | 92 | 20 | 92 | 29 | - | - |
| 20.000 | 50 | 46 | 9 | 46 | 13 | - | - |
| 200.000 | 30 | 28 | 8 | 28 | 12 | - | - |

R250

(21 l/rot.)

DIFFERENTIAL PRESSURE

| cSt | rpm | 4 bar | | 8 bar | | 16 bar | |
|--------------------------------|-----|-------------------|----|-------------------|----|-------------------|----|
| | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| LUBRICATING LIQUIDS | | | | | | | |
| 2 | 240 | 288 | 44 | 276 | 75 | - | - |
| 20 | 240 | 294 | 47 | 290 | 79 | - | - |
| 200 | 180 | 223 | 37 | 221 | 64 | - | - |
| 2.000 | 150 | 187 | 42 | 186 | 68 | - | - |
| 8.000 | 110 | 138 | 38 | 137 | 55 | - | - |
| 20.000 | 55 | 69 | 20 | 68 | 32 | - | - |
| 200.000 | 35 | 44 | 17 | 44 | 25 | - | - |
| NON-LUBRICATING LIQUIDS | | | | | | | |
| 2 | 190 | 225 | 34 | - | - | - | - |
| 20 | 190 | 231 | 35 | 227 | 60 | - | - |
| 200 | 180 | 223 | 37 | 221 | 64 | - | - |
| 2.000 | 150 | 187 | 42 | 186 | 68 | - | - |
| 8.000 | 110 | 138 | 38 | 137 | 55 | - | - |
| 20.000 | 55 | 69 | 20 | 68 | 32 | - | - |
| 200.000 | 35 | 44 | 17 | 44 | 25 | - | - |
| ABRASIVE LIQUIDS | | | | | | | |
| 2 | 150 | 175 | 27 | 163 | 43 | - | - |
| 20 | 110 | 131 | 28 | 126 | 44 | - | - |
| 200 | 110 | 134 | 30 | 132 | 45 | - | - |
| 2.000 | 110 | 137 | 34 | 135 | 49 | - | - |
| 8.000 | 110 | 138 | 38 | 137 | 55 | - | - |
| 20.000 | 55 | 69 | 20 | 68 | 32 | - | - |
| 200.000 | 35 | 44 | 17 | 44 | 25 | - | - |

cSt: VISCOSITY / rpm: MAXIMAL RECOMMENDED REVOLUTIONS PER MINUTE / m³/h: FLOW / kW: REQUIRED POWER

The logo consists of the word "BEDU" in a large, bold, white sans-serif font, with "POMPEN" in a smaller, white sans-serif font below it. The text is centered within a dark teal square, which is itself centered within a white square border.

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