## RVP 20 Pump Specifications Sheet

The sliding vane pump consists of a rotor turning inside a cam that is machined eccentrically in relation to the rotor. As the rotor turns, the liquid that is trapped between the rotor, cam and vanes is displaced. The pumps are made with vanes produced from advanced polymers which exhibit extremely low coefficients of friction. The self adjusting vanes compensate for wear and help extend the life of the pump.

Pumps can be supplied in ATEX II 2 G version (on request).


Maximum specifications

| Flow <br> I/min (GPM) | Speed <br> RPM | Viscosity <br> SSU (CP) | Differential <br> pressure <br> PSI (bar) | Testing <br> pressure <br> PSI (bar) | Temperature <br> range <br> ${ }^{\circ} \mathbf{F}\left({ }^{\circ} \mathrm{C}\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $333(80)$ | 780 | $20000(4250)$ | $110(7,6) \mathrm{std}$ <br> $125(8,6)$ opt. | $200(13,8)$ | -26 to 300 <br> $(-32$ to 149$)$ |

## Performances

| Flange size | 780 RPM | 640 RPM | 520 RPM | 420 RPM | 350 RPM | 275 RPM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1/min (GPM) |  |  |  |  |  |
| 2" | 333 (88) | 272 (72) | 216 (57) | 178 (47) | 145 (38) | 117 (31) |


| Viscosity | 100 | 1000 | 5000 | 10000 | 20000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RPM | 780 | 640 | 520 | 420 | 275 |


| Part. | Standard material | Available Options |
| :---: | :---: | :---: |
| Case | Cast iron |  |
| Head | Cast iron |  |
| Flanges | Cast iron |  |
| Rotor | Ductile iron |  |
| Bearing cap | Steel | Bearing cover/spacer with hydraulic motor adapter (cast aluminium) and coupling (steel) |
| Bearings | Ball (single row), grease lubricated to $300^{\circ} \mathrm{F}$ ( $149^{\circ} \mathrm{C}$ ) max |  |
| Vanes | Full size with 316 stainless steel wear plate to $240^{\circ} \mathrm{F}\left(115^{\circ} \mathrm{C}\right) 20000 \mathrm{SSU}(4250 \mathrm{cP})$ max |  |
| Bypass valve | Cast iron with nickel added |  |
| Bypass/AOV cap | Cast iron |  |
| Bypass valve cover | Cast iron |  |
| Bypass valve spring | Plated steel |  |
| Seal seat | Cast iron | Stainless steel and Ni-Resist |
| Seal metal parts | Steel |  |
| Shaft | High strength steel |  |
| O-rings | Buna-N to $240^{\circ} \mathrm{F}\left(115^{\circ} \mathrm{C}\right)$ | Viton to $300^{\circ} \mathrm{F}\left(149^{\circ} \mathrm{C}\right)$ |
| Gaskets | Composite to $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ |  |
| Vane drivers | Case hardened steel |  |
| Gauge ports | $1 / 4 \prime$ NPT |  |

## Dimensions



|  | A | B | C | D | E | F | G | H | 1 | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { in } \\ \text { mm } \end{gathered}$ | $\begin{aligned} & 1.13 \\ & 28.6 \end{aligned}$ | $\begin{gathered} 5.18 \\ 131.6 \end{gathered}$ | $\begin{gathered} 4.00 \\ 101.6 \end{gathered}$ | $\begin{aligned} & 3.63 \\ & 92.2 \end{aligned}$ | $\begin{gathered} .81 \\ 20.6 \end{gathered}$ | $\begin{gathered} .81 \\ 20.6 \end{gathered}$ | $\begin{aligned} & 1.75 \\ & 44.5 \end{aligned}$ | $\begin{aligned} & 1.75 \\ & 44.5 \end{aligned}$ | $\begin{gathered} 7.99 \\ 203.2 \end{gathered}$ | $\begin{gathered} 7.99 \\ 203.2 \end{gathered}$ | $\begin{gathered} 6.07 \\ 154.4 \end{gathered}$ |
| L | M | N | 0 | P | Q | R | S | T | U | V | W |
| $\begin{aligned} & 1.50 \\ & 38.1 \end{aligned}$ | $\begin{gathered} 4.98 \\ 126.6 \end{gathered}$ | $\begin{gathered} 4.12 \\ 104.8 \end{gathered}$ | $\begin{gathered} .50 \\ 12.7 \end{gathered}$ | $\begin{gathered} .44 \\ 11.2 \end{gathered}$ | $\begin{aligned} & 2.50 \\ & 63.5 \end{aligned}$ | $\begin{aligned} & 2.50 \\ & 63.5 \end{aligned}$ | $\begin{aligned} & 3.30 \\ & 84.0 \end{aligned}$ | $\begin{aligned} & 3.30 \\ & 84.0 \end{aligned}$ | $\begin{aligned} & 3.90 \\ & 99.2 \end{aligned}$ | $\begin{aligned} & 3.90 \\ & 99.2 \end{aligned}$ | $\begin{gathered} 5.30 \\ 134.6 \end{gathered}$ |

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