

PDS-PCP-0001

NTZ 166*065ST0.8

ISO-0.8-650

Technical Data

| | | | | | | | | |
|-----------------|---------------------------|---------------------|-----|------------------|--|-------------|-------|-----|
| Nominal Flow | 100 rpm $\Delta p = 0$ | [m ³ /d] | 0,8 | Geometry Style | | Single Lobe | | |
| | | [bpd] | 5 | Engaged Cavities | | 15 | | |
| Design Pressure | | [bar] | 65 | Operating Speed | | min.* | [rpm] | 10 |
| | | [psi] | 943 | | | max.* | [rpm] | 500 |

*(Manufacturer's Recommendation.)

Stator Data

| | | | | | | | |
|--------------|--------|--------------|-----|-------------------------------------|--|------|------|
| Connection | API 5B | 1.66" NU PIN | | Maximum Outside Diameter (Coupling) | | [mm] | 52,2 |
| | | | | | | [in] | 2,1 |
| Total Length | | [mm] | 825 | Weight | | [kg] | 4,2 |
| | | [ft] | 2,7 | | | [lb] | 9,3 |

Rotor Data

| | | | | | | | |
|------------------------------|---------|----------|------|---------------------|--------|-------------------|-----------|
| Connection | API 11B | 5/8" PIN | | Coating | Chrome | Tickness [μm] | Up to 500 |
| | | | | | | | |
| Total Length | | [mm] | 1375 | Swept Angle | | [Degrees] | 35 |
| | | [ft] | 4,5 | | | | |
| Maximum Rotor Diameter | | [mm] | 31,8 | Weight | | [kg] | 1,9 |
| | | [in] | 1,3 | | | [lb] | 4,2 |
| Maximum Rotor Orbit Diameter | | [mm] | 35,9 | Minimum Tubing Size | | 1.66" x 2,4 lb/ft | |
| | | [in] | 1,4 | | | | |



Stop Pin Data

| | | | |
|--------------------|------|-------|-------|
| Stop Pin Length | [mm] | 350 | |
| | [ft] | 1,1 | |
| Maximum Axial Load | | [kN] | 98 |
| | | [lbf] | 22000 |

Rotor Positioning Factor

| | | | | |
|----------|-------|-------|---|---|
| Rod Size | 5/8" | 3/4" | - | - |
| k* | 0,022 | 0,001 | - | - |

*(Applied in Accordance with Pump Instruction Manual.)

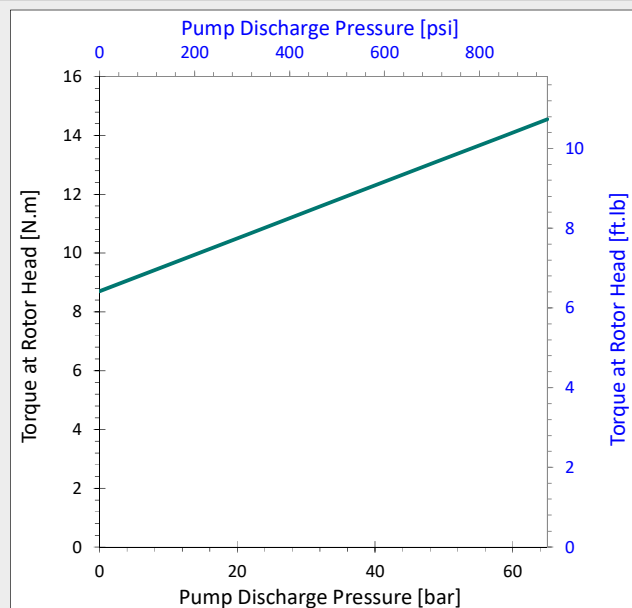
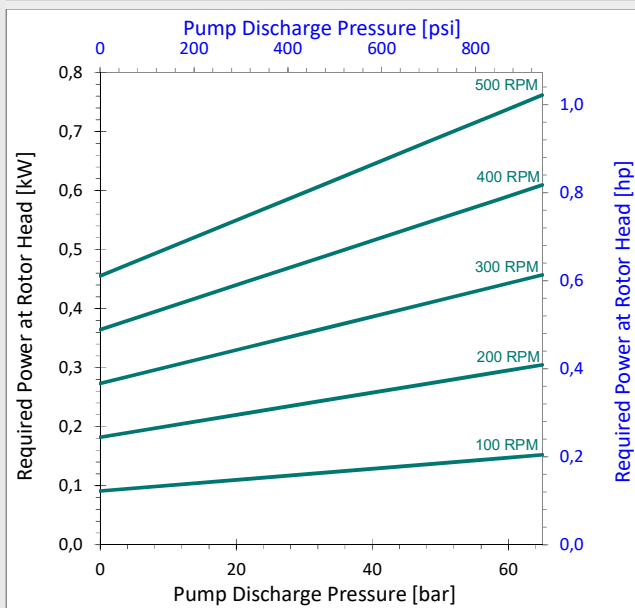
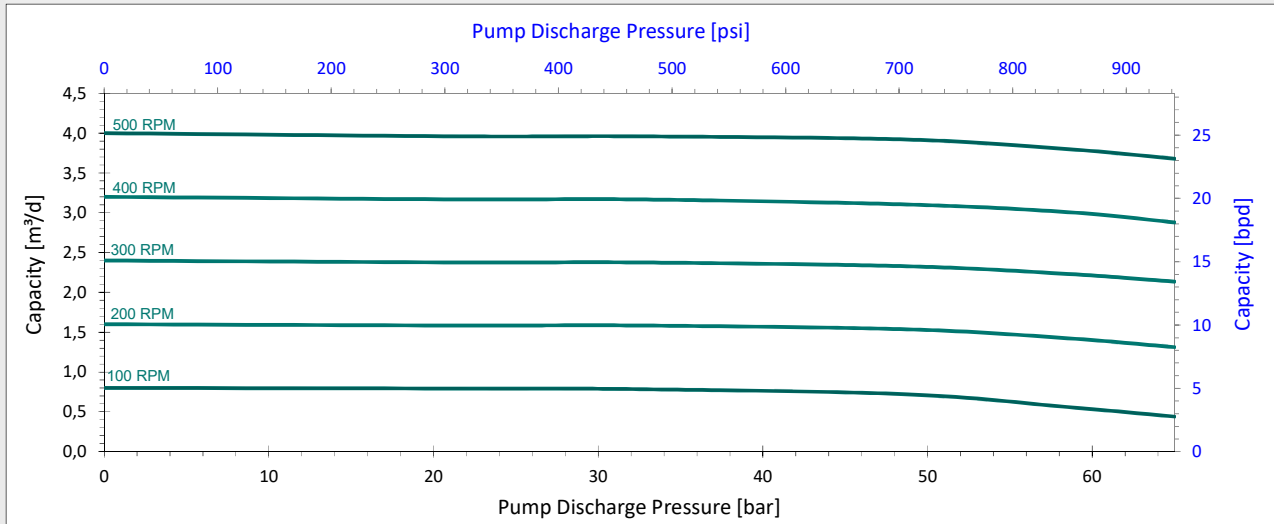
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|------|----|------|---------------|
| Rev. | 00 | Date | July 18, 2023 |
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Performance Curves and Efficiency of PCP



Notes:

- * The pump was tested with water using a standard rotor, whose dimensions are according to our tolerance classes.
- * Tolerance classes of PCP are based on our experience combining good performance and long life.
- * The optimum performance will be reached after a running time of approximately 100 hours.
- * Volumetric displacement of pumps can vary within a range of -5% and +10% at zero head.
- * Pump performance will vary with each application.

Documentation

| | |
|--------------------|---------------------------------|
| Instruction Manual | NETZSCH Progressing Cavity Pump |
| Elastomer | NTZ Elastomer Overview |