Technical Data Sheet

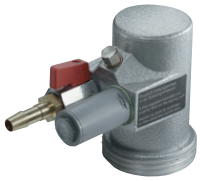
Viscosity Correction for F416/F416-1/F416-2 Motor (6 Bar)

More than just pumps

Viscosity Correction Curves Using Horsepower and Impellers

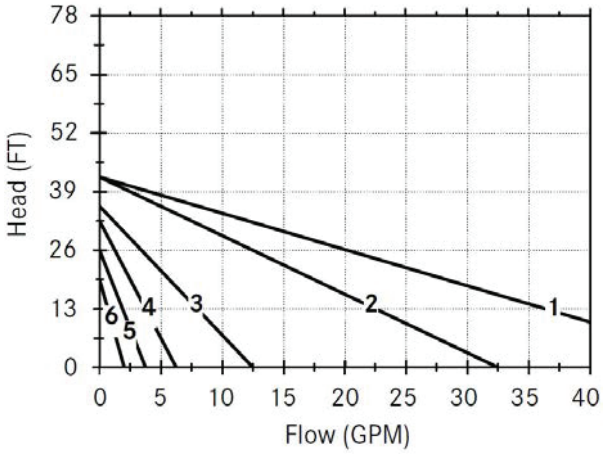
F 416 Ex

F 416-1 Ex

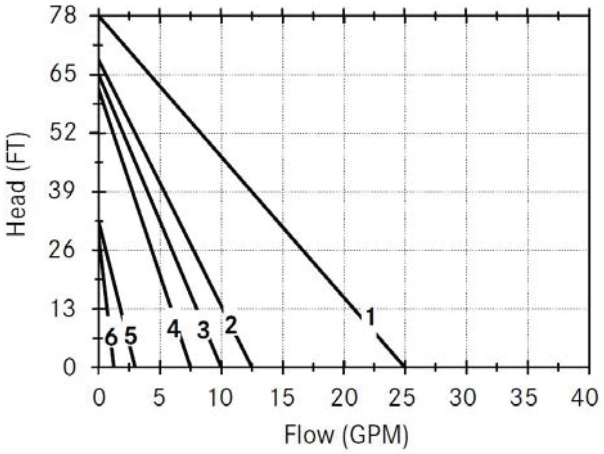


F 416-2 Ex

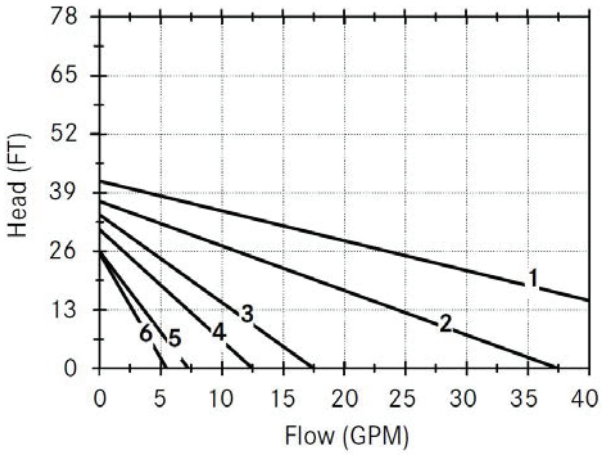
33 / 36 Rotor



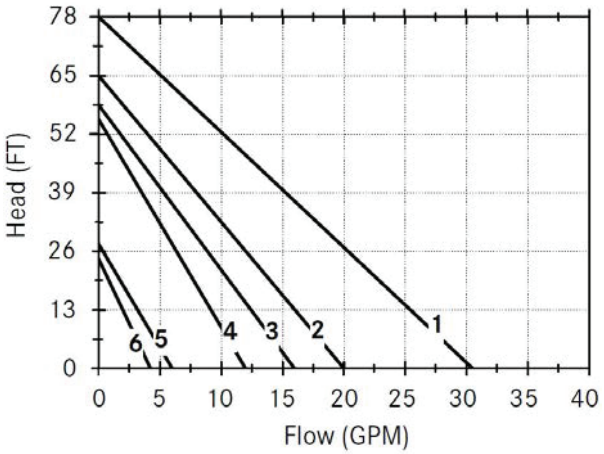
35Z / 33Z Rotor



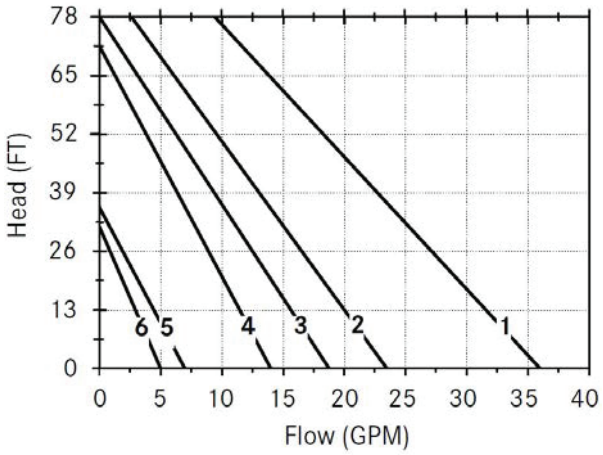
38 Rotor



37Z Rotor



45Z / 43Z Rotor



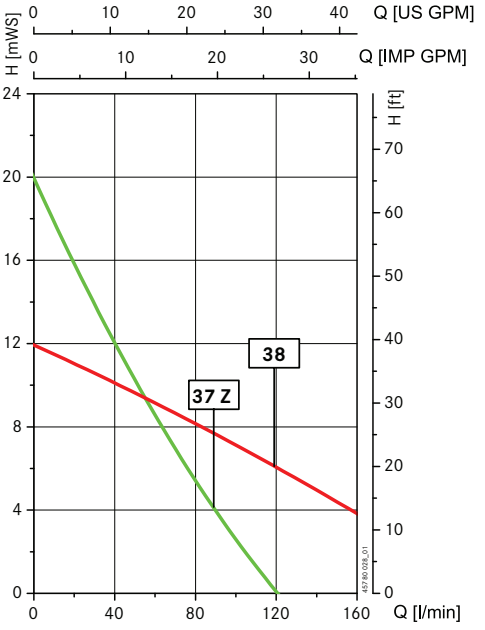
Curve #	Viscosity
1	1 cPs
2	60 cPs
3	250 cPs
4	500 cPs
5	800 cPs
6	1000 cPs

Values ± 10%, S.G. 1, Newtonian fluids.
Please consider overload chart for commutator motors.

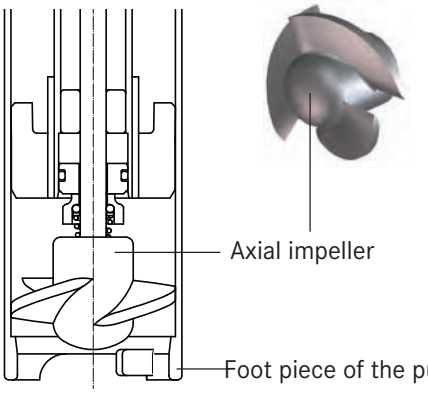
FLUX Impeller Types for Low to Medium Viscosity Liquids

Impellers for the requested delivery rate

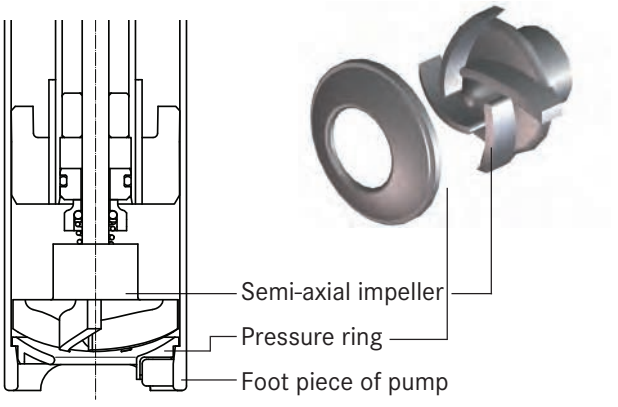
- FLUX offers two different types of impellers.
- The geometry of the axial impeller provides for small flow losses in circumferential direction, flow is almost completely axial. Used when high flow rates are required at low pressure requirements.
- The geometry of the semi-axial impellers (Z-version) provides mainly for a flow in circumferential direction. Combined with the pressure ring, the flow is redirected in axial direction. This provides a higher delivery pressure at a lower delivery rate. Semi-axial impellers are used in case of an increased pressure requirement.
- All impellers are in ethylene-tetrafluoroethylene (ETFE).
- Axial impeller with diameter 38 mm is also available in stainless steel.



Comparison of the characteristic curve of a drum pump F/FP 430 with motor F 457 with axial impeller 38 mm and semi-axial impeller (Z-version) 37 mm



F/FP 430 with mechanical seal and axial impeller



F/FP 430 with mechanical seal and se-mi-axial impeller (Z-version)

Use of axial impellers

- **For high delivery rates**
- **For light media (up to 1.3 S.G.)**
- **For short discharge lines**
- **For small differences in height**
- **For low pressure losses**

Use of semi-axial impellers (Z-version)

- **For high delivery heads**
- **For heavy media (from 1.3 S.G.)**
- **For long discharge lines**
- **For big differences in height**
- **For pressure losses due to valves and fittings**

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