

Internal gear pump Type EIPS1

EIPS1

Characteristics

- Internal gear pump with axial and radial gap compensation
- Radial compensation with segments
- Field of application:
Mobile hydraulic systems, e.g. for fork lifts, light industrial hydraulic applications
- Direct mounting and SAE flange
- Low noise
- Long time life
- Low pulsation (pressure pulsation ~ 2%)



Technical Data

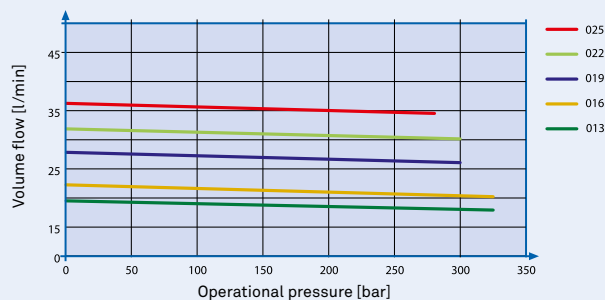
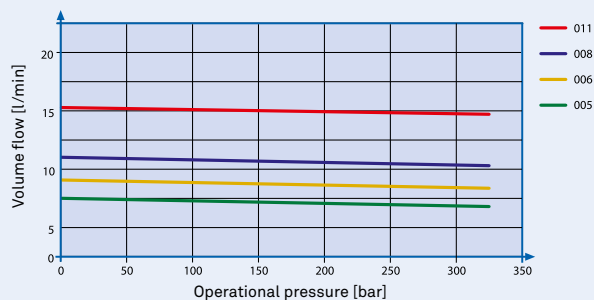
Rated Size	016	020	025	032	040	050
Spec. volume V _{th} [cm ³ /rev]*	1,6	2,0	2,6	3,2	4,0	5,0
Continuous operating pressure [bar]**			300		250	210
Peak operating pressure [bar] max. 10 sec. 15 % duty cycle			320		280	220
Cut-in pressure peak 100 ms [bar]**			350		300	250
Max. speed [min ⁻¹]				4.000		
Nominal speed [min ⁻¹]				400 – 3.600		
Operating viscosity [mm ² /s]				10 – 300		
Starting viscosity [mm ² /s]				2.000		
Operating temperature [°C]				-20 to +100		
Operating medium				HL – HLP DIN 51 524 Part 1/2		
Max. medium temperature [°C]				120		
Min. medium temperature [°C]				-40		
Max. ambient temperature [°C]				80		
Min. ambient temperature [°C]				-40		
Max. admission pressure (intake side) [bar]				2 bar absolute		
Min. admission pressure (intake side) [bar]				0,8 bar absolute (start 0,6)		
Degree of filtration				Class 20/18/15 due to ISO 4406		
Life expectancy				not less than 1 x 10 ⁶ against peak operating pressure		

* Due to manufacturing tolerances the displacement volume could vary.

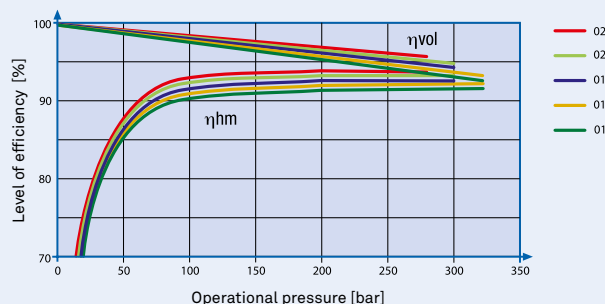
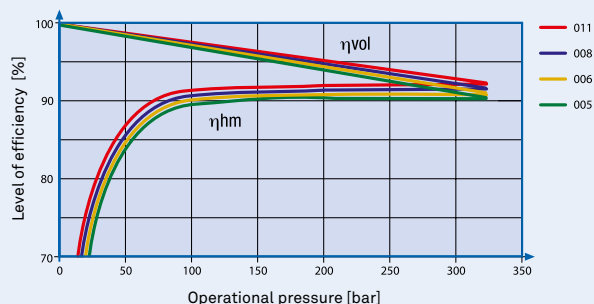
** For acceptable pressure at 400-1,800 rpm. Further rpm on request.

The pumps have no corrosion protection. The max. permissible values must not be applied cumulatively. Please contact us.

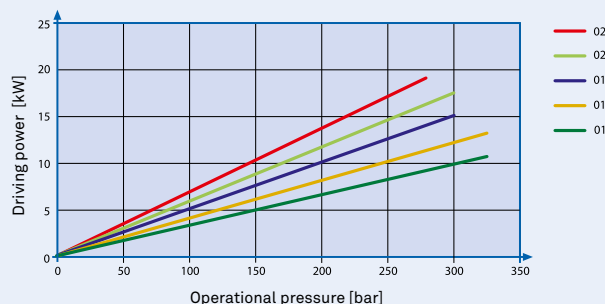
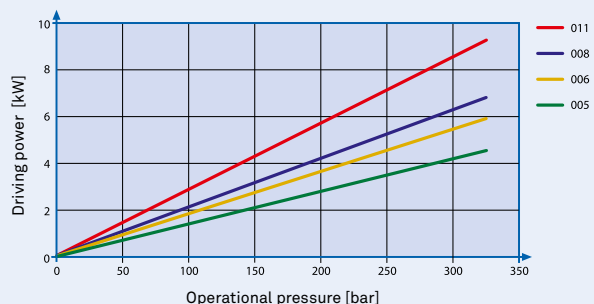
Volume flow



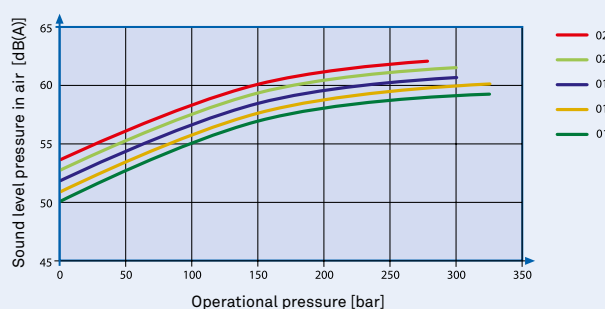
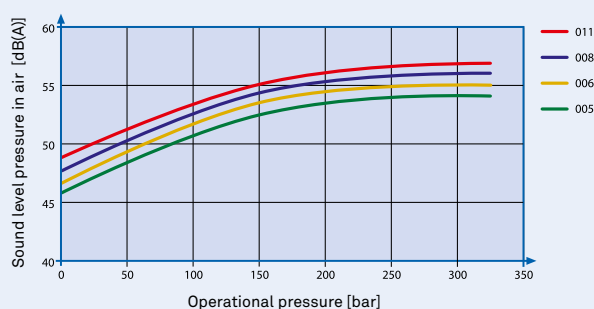
Level of efficiency



Driving power



Sound level pressure in air



Measurement conditions: Speed 1450 rpm, viscosity 46 mm²/sec., operating temperature 40 °C, Sound pressure measured in low-reflection anechoic room in accordance with DIN 45 635 sheet 26; Microphone distance 1.0 m axial.

All indicated data serve alone the product description and are not as characteristics in the legal sense to be understood. Subject to alterations.