

Internal gear pump

Type EIPH5 high pressure pump

with constant displacement volume

EIPH5

Technical Data:

Rated Size	040	050	064	080	100
Spec. volume V_{th} [cm ³ /rev]**	40,2	50,3	65,3	80,4	100,5
Continuous operating pressure [bar]**	300	300	280		
Peak operating pressure [bar] max. 10sec 15% duty cycle**	330	330	290		
Cut-in pressure peak [bar]**	350	350	300		
Nominal speed [rpm]	100 – 3.000	100 – 3.000	100 – 2.800		100 – 2.500
Max. speed [rpm]	3.600	3.600	3.000		
Operating viscosity [mm ² /s]	10 – 300				
Starting viscosity [mm ² /s]	2.000				
Operating medium	HL – HLP DIN 51 524 part 1/2				
Max. medium temperature [°C]	80				
Min. medium temperatur [°C]	-20				
Max. ambient temperature [°C]	80				
Min. ambient temperature [°C]	-20				
Max. admission pressure (intake side) [bar]	2 bar absolute				
Min. admission pressure (intake side) [bar]	0,8 bar absolute (Start 0,6)				
Weight appr. [kg]:	12,9	14,0	15,3	17,5	18,7
Degree of filtration	Class 20/18/15 due to ISO 4406				
Life expectancy	not less than 1×10^7 load cycles against peak operating pressure				
Efficiency η_{vol} :	93	93	94	95	95
Efficiency η_{hm} :	92	92	92	93	93
Pump noise* (measured in sound chamber) dB[A]	67	68	69	70	71

$n = 1.450 \text{ min}^{-1}$ $\Delta p = 250 \text{ bar}$ $T = 50 \text{ °C}$ Medium: HLP 46

* Measured in anechoic room of Eckerle Hydraulic Division; Axial microphone distance 1.0 m

** For acceptable pressure at 400-1.800 rpm. Further rpm on request.

*** Due to manufacturing tolerances the displacement volume could vary.

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