

Internal gear pump

Type EIPH6 high pressure pump

with constant displacement volume

EIPH6

Technical Data:

Rated Size	040	050	064	080	100	125	160	200	250
Spec. volume V _{th} [cm ³ /rev] ^{***}	40,8	50,6	65,3	80,0	101,2	125,7	160,1	200,9	249,9
Continuous operating pressure [bar] ^{**}	330		315	300		250		160	140
Peak operating pressure [bar] max. 10sec 15% duty cycle ^{**}	340		330		280		210	150	
Cut-in pressure peak [bar] ^{**}	350		340		300		220	160	
Nominal speed [rpm]	400 – 2.200			400 – 2.000			400 – 1.800		
Max. speed [rpm]	2.400			2.200			2.000		
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]:	31	32	34	36	39	42	46	51	58
Degree of filtration	Class 20/18/15 due to ISO 4406								
Life expectancy	not less than 1x 10 ⁷ load cycles against peak operating pressure								
Efficiency η_{vol} :	93		94		95		96		
Efficiency η_{hm} :	89			90			91		
Pump noise* (measured in sound chamber) dB[A]	72	73	74	75	76		77		78

n = 1.450 min⁻¹ Δp = 250 bar T = 50 °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.