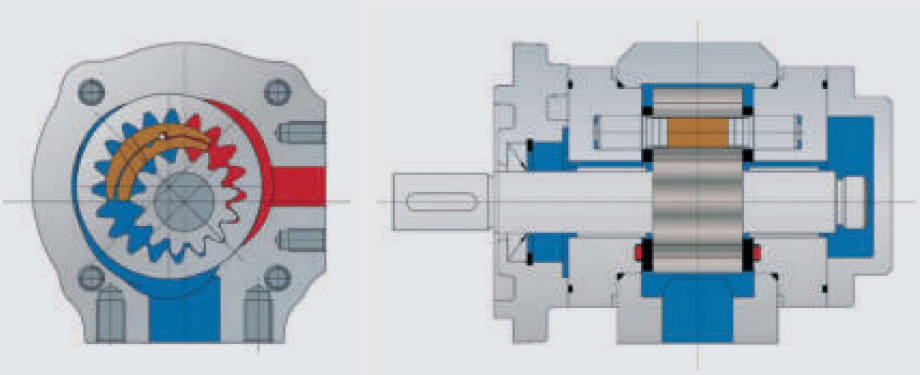
Internal gear pump
Type EIPH2 high pressure pump with constant displacement volume

EIPH2

Characteristics

- Internal gear pump with axial and radial gap compensation
- Radial compensation with segments
- Suction and pressure port radial
- Field of application: Industrial hydraulic
- Low noise
- Long time life
- Low pulsation (pressure pulsation ~2 %)
- Multi flow combinations



Technical Data:

Rated Size	004	005	006	008	011	013	016	019	022	025
Spec. volume Vth [cm³/rev]***	4,2	5,4	6,4	7,8	10,8	13,3	15,6	18,9	21,8	24,8
Continuous operating pressure [bar]**	330							300	250	250
Peak operating pressure [bar] max. 10 sec. 15% duty cycle**	350							300		280
Cut-in pressure peak [bar]**	400							325		300
Nominal speed [min⁻¹]	400 – 3.600			400 – 3.400	400 – 3.200		400 – 3.000	400 – 2.500		400 – 2.300
Max. speed [min⁻¹]	4.200			4.000				3.000		
Nominal speed [min⁻¹]****	For rated size 019 avalible							400 – 3.000		400 – 2.800
Max. speed [min⁻¹]****	For rated size 019 avalible							3.600		
Operating viscosity [mm²/s]	10 – 300									
Starting viscosity [mm²/s]	2.000									
Operating medium	HL – HLP DIN 51 524 part 1/2									
Max. medium temperature [°C]	80									
Min. medium temperature [°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]	4,9		5,0	5,2	5,4	5,5	5,7	7,4	7,8	8
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:	88	91	92	93		94	95			
Efficiency η hm:	85	90		91	92		93			
Pump noise* (measured in sound chamber) dB[A]	53	54	55	57	58	59	60	61	62	63

n = 1.450 min⁻¹ Δ p = 250 bar T = 50 °C Medium: HLP 46 Brugger value min. 30N/mm² recommended 50N/mm² for servo applications

* 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.
**** 1 ½" suction port

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