

Voith Turbo

**VOITH**

## Further development IPM Medium-pressure internal gear pump



### Description

Voith Turbo internal gear pumps – this means sophisticated technology, robust construction and economical operation. By developing the successful IPN low-pressure pump series further into the IPM series, the market now has a pump with an excellent price/performance ratio in the medium-pressure segment at its disposal.

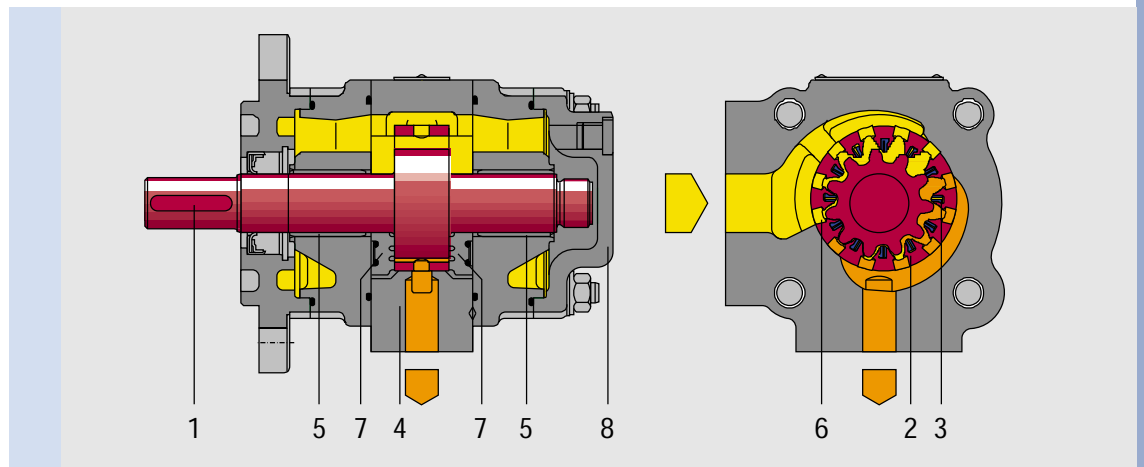
### Application

- Systems installations that require economically priced pumps in the lower medium-pressure area
- Medium-pressure pump in combination with other pump series

### Features and benefits

- Continuous pressure up to 175 bar
- Peak pressures up to 210 bar
- Voith Superlip® principle with additional axial compensation
- High efficiencies
- Very low flow and pressure pulsation
- Low noise level
- Compact design
- Multiple pumps and pump combinations possible (also with pumps from other manufacturers)
- Suitable for variable-speed drives (variable volume flow)

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Type, size- delivery	Displace- ment per revolution	Speed		Delivery at 1500 min <sup>-1</sup>	Pressures		
		min.	max.		Continuous	Peak at 1500 min <sup>-1</sup>	Peak at n <sub>max</sub>
	[cm <sup>3</sup> ]	[min <sup>-1</sup> ]	[min <sup>-1</sup> ]	[l/min]	[bar]	[bar]	[bar]
IPM 4-6.5	6.5	400	3000	9.8	175	210	210
IPM 4-8	8.0	400	3000	12.0	175	210	210
IPM 4-10	10.0	400	3000	15.0	175	210	210
IPM 4-13	13.0	400	3000	19.5	175	210	210
IPM 4-16	16.0	400	3000	24.0	175	210	210
IPM 4-20	20.0	400	3000	30.0	175	210	210
IPM 5-25	25.0	soon available					
IPM 5-32	32.0						
IPM 5-40	40.0						
IPM 6-50	50.0						
IPM 6-64	64.0						
IPM 6-80	80.0						

*Sectional view*

- 1 Pinion shaft
  - 2 Ring gear
  - 3 Compensation elements
  - 4 Housing
  - 5 Plain bearings
  - 6 Hydrostatically balanced bearing
  - 7 Axial disc
  - 8 End cover
- 
- Suction chamber
  - Pressure chamber

The values shown apply to:

- Pumping of mineral oils with a viscosity of 10...40 mm<sup>2</sup>s<sup>-1</sup>
- Input pressures of 0.8...3.0 bar absolute

Please note:

- Peak pressures apply to 15% of operating time with a maximum cycle of 1 minute.
- Peak pressures at non-standard speeds upon request.
- Due to production tolerances, the pump volume may be reduced by up to 1.5%.

Voith Turbo, the specialist for hydrodynamic drive, coupling and braking systems as well as hydrostatic pump systems, is a Group Division of Voith.

Voith is setting standards worldwide for papermaking technology, power transmission, energy technology, and industrial services. Voith was founded on January 1st, 1867. With annual sales of approximately Euro 3.1 billion, 24,000 employees and 180 locations worldwide, Voith is one of the largest family-owned companies in Europe.

**VOITH**  
*Engineered reliability.*