

# 高压内齿合齿轮泵IPVP6系列

High pressure within the gear pump

IPVP6 series



**VOITH**  
德国福伊特



How to order

01

## 型号说明 了解型号含义

Model notes model meaning

IPVP 3 - 3.5 1 0 1

### Shaft end

1 Parallel shaft with keyway

### Mounting flange

0 SAE 2-hole

1 SAE 4-hole

7 SAE 2-hole, variant

### Rotation, suction port

1 Clockwise rotation, radial suction port radial

6 Counterclockwise rotation, radial suction port radial

4 Clockwise rotation, special design

9 Counterclockwise rotation, special design

### Delivery

Size	Delivery				
3	3.5	5	6.3	8	10
4	13	16	20	25	32
5	32	40	50	64	
6	64	80	100	125	
7	125	160	200	250	

### Size

### Type

## Characteristics

Type, size – delivery	Displace- ment per revolution [cm <sup>3</sup> ]	Speed		Delivery		Pressures		
		min.	max.	at 1500 min <sup>-1</sup>	at n <sub>max</sub>	Continuous pressure [bar]	Peak pressure at 1500 min <sup>-1</sup> [bar]	Moment of inertia [kg cm <sup>2</sup> ]
IPVP 3 – 3.5	3.6	400	3600	5.4	13.0	330	345	0.34
IPVP 3 – 5	5.2	400	3600	7.8	18.7	330	345	0.42
IPVP 3 – 6.3	6.4	400	3600	9.6	23.0	330	345	0.49
IPVP 3 – 8	8.2	400	3600	12.3	29.5	330	345	0.58
IPVP 3 – 10	10.2	400	3600	15.3	36.7	330	345	0.70
IPVP 4 – 13	13.3	400	3600	19.9	47.9	330	345	2.25
IPVP 4 – 16	15.8	400	3600	23.7	56.9	330	345	2.64
IPVP 4 – 20	20.7	400	3600	31.0	74.5	330	345	3.29
IPVP 4 – 25	25.4	400	3600	38.1	91.4	300	330	3.70
IPVP 4 – 32	32.6	400	3600	48.9	117.4	250	280	4.44
IPVP 5 – 32	33.1	400	3000	49.6	99.3	315	345	8.62
IPVP 5 – 40	41.0	400	3000	61.5	123.0	315	345	10.20
IPVP 5 – 50	50.3	400	3000	75.4	150.9	280	315	11.60
IPVP 5 – 64	64.9	400	3000	97.3	194.7	230	250	14.40
IPVP 6 – 64	64.1	400	2600	96.1	166.7	300	330	25.73
IPVP 6 – 80	80.7	400	2600	121.0	209.8	280	315	30.90
IPVP 6 – 100	101.3	400	2600	151.9	263.4	250	300	36.10
IPVP 6 – 125	126.2	400	2600	189.3	328.1	210	250	43.70
IPVP 7 – 125	125.8	400	2500	188.7	314.5	300	330	84.05
IPVP 7 – 160	160.8	400	2500	241.2	402.0	280	315	102.60
IPVP 7 – 200	202.7	400	2500	304.0	503.8	250	300	119.00
IPVP 7 – 250	251.7	400	2500	377.5	629.3	210	250	144.50

The values given apply for:

- Pumping of mineral oils with a viscosity of 20...40 mm<sup>2</sup>s<sup>-1</sup>
- An input pressure of 0.8...3.0 bar absolute

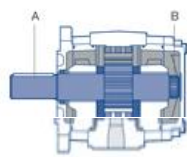
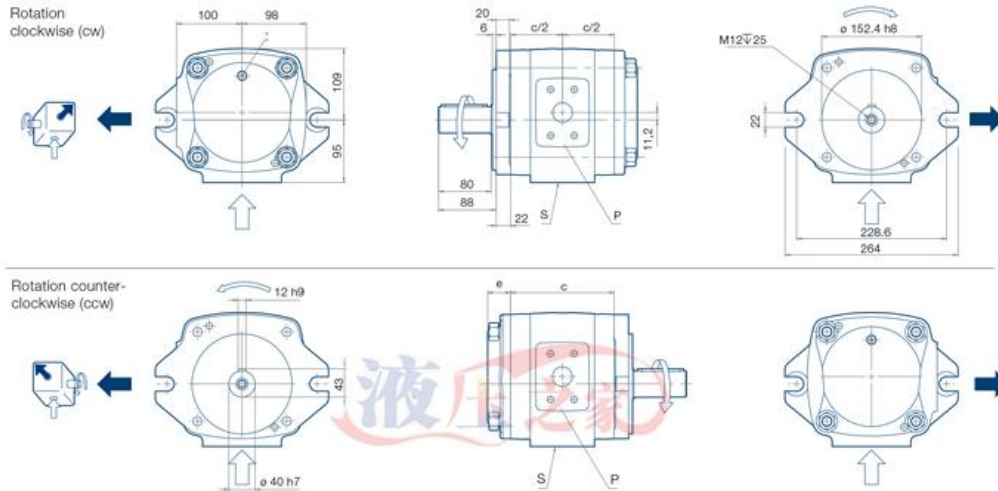
Notes:

- Peak pressures apply for 15% of operating time with a maximum cycle time of 1 minute.
- Please inquire about peak pressures at non-standard speeds.
- Due to production tolerances, the pump volume may be reduced by up to 1.5%.
- The maximum speed depends on the pressure.
- **The speed range 0-400 RPM depends on the pressure.** Please find data on the diagrams on the following pages.

# 安装尺寸图 让安装更省心

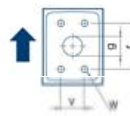
Installation size figure let more worry

## IPVP Size 6, Rotation and Dimensions

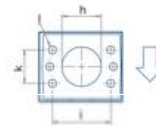


Allowed input torques:  
Input shaft A: 1050 Nm  
Secondary shaft B: 700 Nm

Pressure port (P)



Suction port (S)



Type/ Delivery	Dimensions and Weight										SAE Flange No.		
	c	e	g	h	i	k	l	r	v	w	Weight	↑	↓
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Thread	[mm]	[mm]	Thread	[kg]		
IPVP 6 - 64	140	40	23	40	70	36	M12x20	52.4	26.2	M10x15	29.2	12	30
IPVP 6 - 80	148	35	23	45	77.8	42.9	M12x20	70	36	M12x20	30.7	14	15
IPVP 6 - 100	158	35	27	50	77.8	42.9	M12x20	70	36	M12x20	32.6	14	15
IPVP 6 - 125	170	40	30	50	77.8	42.9	M12x20	70	36	M12x20	35.0	14	15

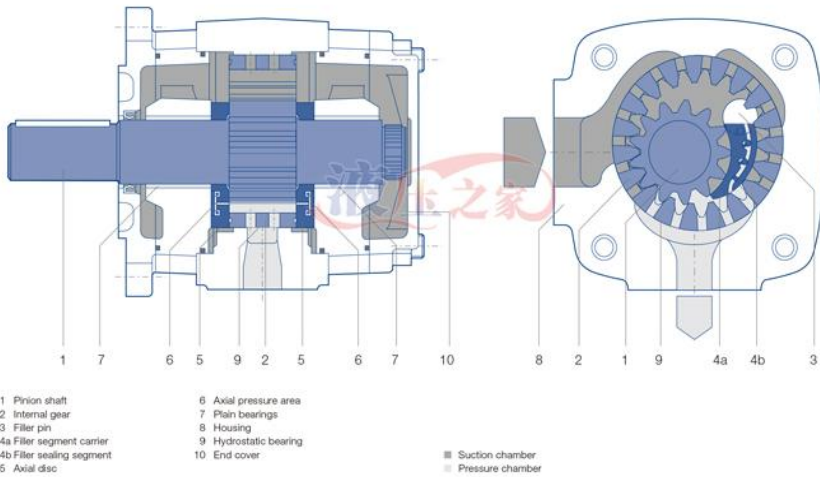
\* Ensure the M10x1 plug screw, hexagon socket SW5, is tightened to a torque of 10 Nm during pumping operation. Dependent on the pump position, filling or ventilation is possible here prior to commissioning.

Installation

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## 分解图 让您快速了解

Diagram allows you to quickly understand



performance

05

## 性能曲线图 让效率不再低

Performance curves for higher efficiency

Diagram IPVP 6 - Continuous pressure depending on the speed

