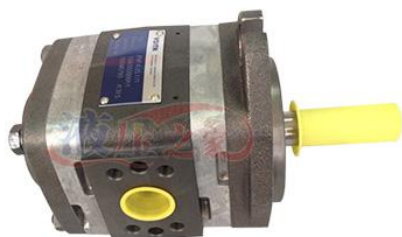


高压内齿合齿轮泵IPVP7系列

High pressure within the gear pump

IPVP7 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 ³]	Speed		Delivery		Pressures		
		min.	max.	at 1500 min ⁻¹	at n _{max}	Continuous pressure	Peak pressure at 1500 min ⁻¹	Moment of inertia
		[min ⁻¹]	[min ⁻¹]	[l/min]	[l/min]	[bar]	[bar]	[kg cm ²]
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 mm²s⁻¹
- An input pressure of 0.8...3.0 bar absolute

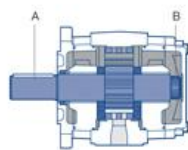
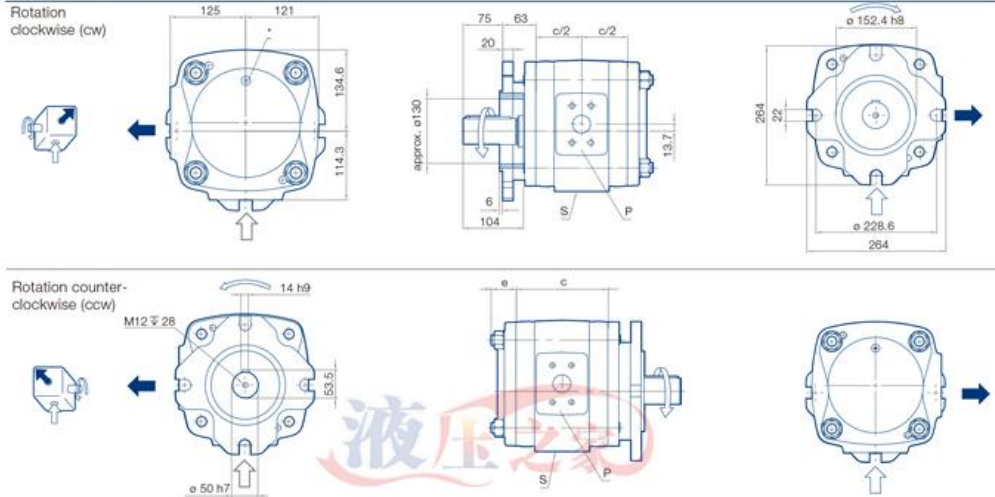
Notes:

- 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

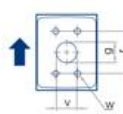
Installation size figure let more worry

IPVP Size 7, Rotation and Dimensions

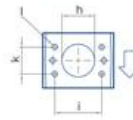


Allowed input torques:
Input shaft A: 1960 Nm
Secondary shaft B: 1200 Nm

Pressure port (P)



Suction port (S)

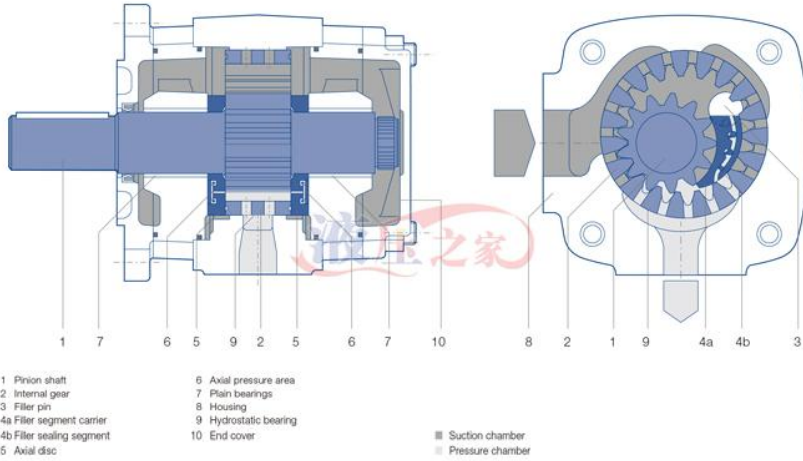


Type/ Delivery	Dimensions and Weight										SAE Flange No.		
	c	e	g	h	i	k	l	r	v	w	Weight	↑	↓
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Thread	[mm]	[mm]	Thread	[kg]		
IPVP 7 - 125	152	48	30	50	77.8	42.9	M12x20	70	36	M12x20	46.5	14	15
IPVP 7 - 160	162	48	30	56	89	50.8	M12x20	70	36	M12x20	50	14	16
IPVP 7 - 200	174	46	34	62	89	50.8	M12x20	70	36	M12x20	54	14	16
IPVP 7 - 250	188	42	38	72	106.3	62	M16x25	70	36	M12x20	59	14	17

* 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.

分解图 让您快速了解

Diagram allows you to quickly understand



性能曲线图 让效率不再低

Performance curves for higher efficiency

Diagram IPVP 7 - Continuous pressure depending on the speed

