

A7VK		MA			
01	02	03	04	05	06

轴向柱塞单元 Axial piston unit

01	可变斜轴设计, 公称压力 250 bar, 最大压力 315 bar	Variable bent axis design, nominal pressure 250 bar, peak pressure 315 bar	A7VK
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规格 (NG) Sizes (NG)

02	理论排量 $\approx$ Displacement $V_{g \max}$ in cm^3	012	028
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控制设备 Control device

03	使用手轮手动控制 Control, manual with handwheel	MA
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工作模式 Operation modes

04	泵, 开式设计 Pump, open design	O
	泵, 闭式设计 Pump, closed design	G

旋转方向 Directions of rotation

05	从传动轴看	顺时针, 标准件 clockwise (standard)	R
	Viewed from drive shaft	逆时针, 选件 counter-clockwise (option)	L

传动轴 Drive shafts

06	符合 DIN 6885 的平键轴	$\varnothing 20$	012	028	
	Parallel keyed shaft according to DIN 6885	$\varnothing 25$	-	-	P

Features

- Compact design
- Reduced dimensions and mass in comparison to A2VK
- Mounting flange, drive shaft and functions identical to A2VK, thus easy to replace
- Increased corrosion protection through special surface treatment
- Manual adjustment with precision display and clamp unit to prevent accidental adjustment
- Double shaft sealing made of special material and flushing chamber to identify damage and protect environment
- Improved volumetric efficiency through robust rotary group using proven axial tapered piston technology
- Optionally available with mounted high-pressure relief valve
- Low noise level

Closed design (A7VKG)

- High permissible filling pressure for highly-viscous media or hydraulic fluid by separating the filling channel and pump housing
- Case drain fluid must be discharged

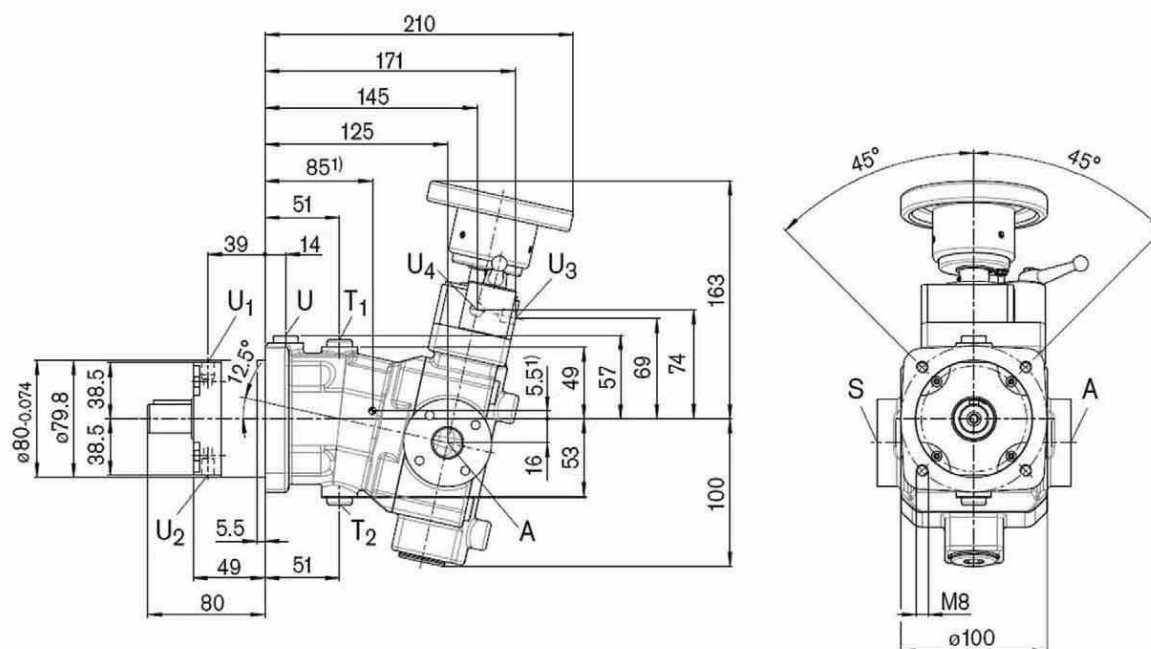
Open design (A7VKG)

- The housing is connected to the suction chamber. A case drain line between the housing and reservoir is not required

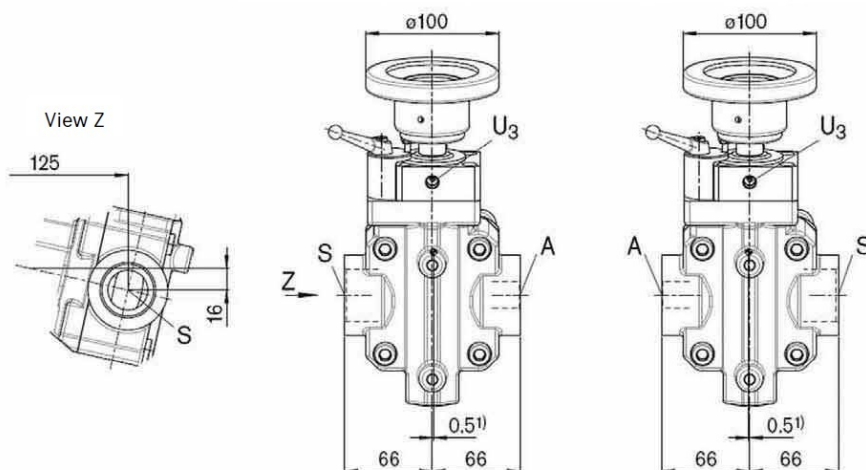


A7VK12泵外形图

A7VK12 pumps installation drawing

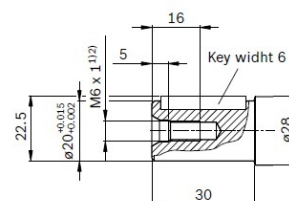


Direction of rotation counter-clockwise Direction of rotation clockwise



Parallel keyed shaft

P3 - A6x6x25.5

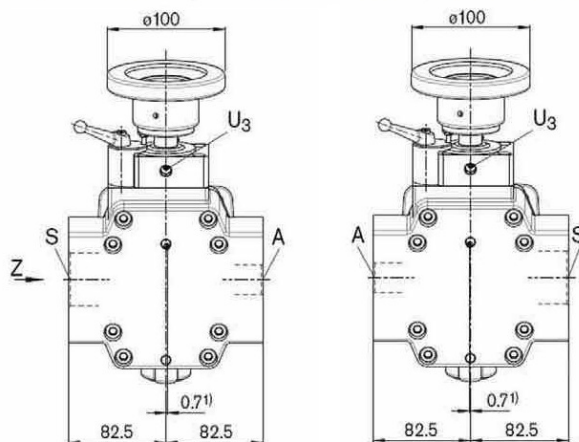


Ports		Standard	Size	P _{max} [bar]	State
A	Service port	DIN 3852	M22 x 1.5; 14 deep	315	O
S	Suction/filling port	DIN ISO 228	G1 1/4; 20 deep	6	O
T ₁	Case drain fluid	DIN 3852	M12 x 1.5; 12 deep	6	X
T ₂	Case drain fluid	DIN 3852	M12 x 1.5; 12 deep	6	X
U	Bearing flushing	DIN 3852	M12 x 1.5; 12 deep	6	X
U ₁ , U ₂	Barrier fluid	DIN 3852	M10 x 1; 8 deep	3	O
U ₃ , U ₄	Barrier fluid	DIN 3852	M10 x 1; 8 deep	3	O

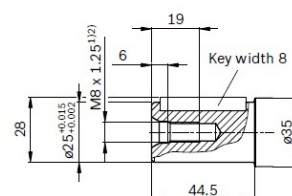
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

A7VK28 pumps installation drawing

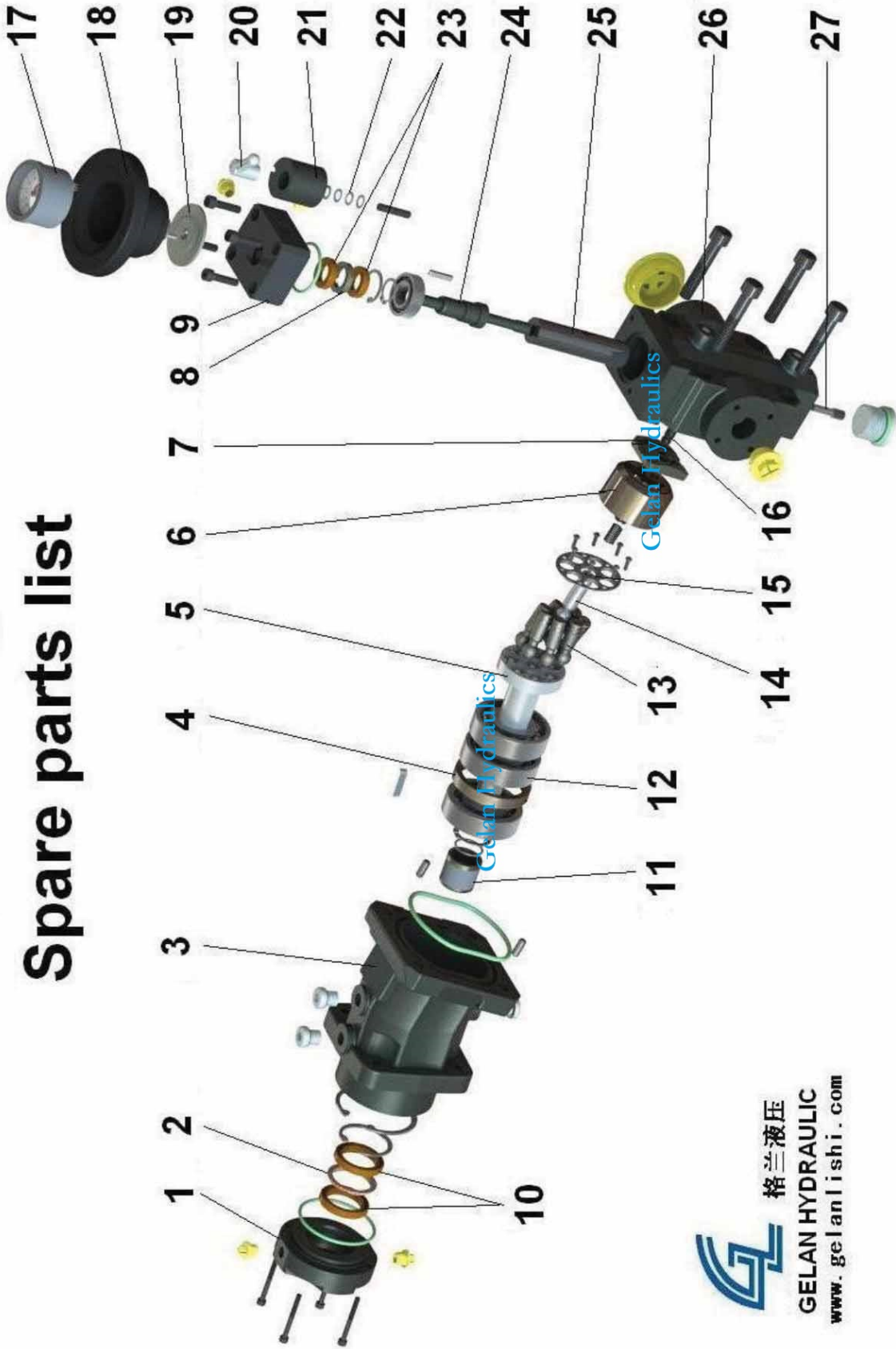


P5 - AS8x7x40



O = Must be connected (plugged on delivery)
X = Plugged (in normal operation)

A7VK series spare parts list



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01	02	03	04	05	06	07	08	09
FRONT COVER	SPACER RUSH	HOUSING	SPACER RUSH	DRIVE SHAFT	CYLINDER	CONTROL PLATE	SPACER RING	COVER
10	11	12	13	14	15	16	17	18
SHAFT SEAL	RUNNING BUSH	BEARING	PISTON	CENTER PIN	RETAINING PLATE	POSITIONING PIN	INDICATOR	HANDWHEEL
19	20	21	22	23	24	25	26	27
FASTENING PLATE	HANDLE	FASTENING BASE	CUP SPRING	SHAFT SEAL	SPINDLE	STROKE PISTON	PORT PLATE	FASTENING BOLT



Company Name : Beijing Gelan M&E Technology Co.,Ltd

Address : NO.7 Ya An Street ,Shilong industrial District,Mentougou,Beijing,.P.R.China

Phone : 010-60804831

Fax : 010-60804830

E-mail : gelanrex@sina.com

Zip code : 102308

Website : www.gelanlishi.com