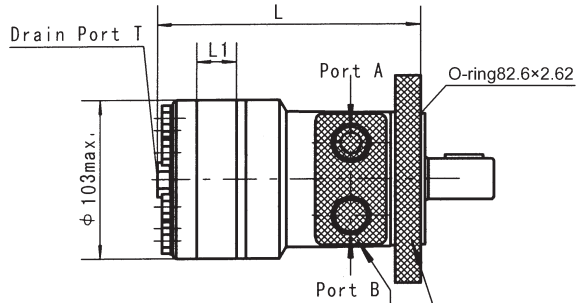


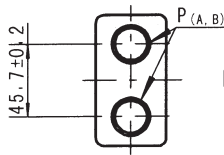


BMRS DIMENSIONS AND MOUNTING DATA

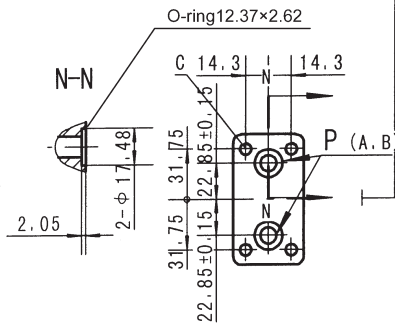
MOUNTING



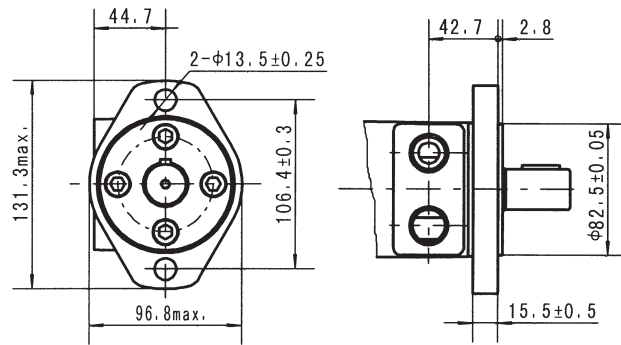
PORT: G、S、P、R、M1、M2、M3



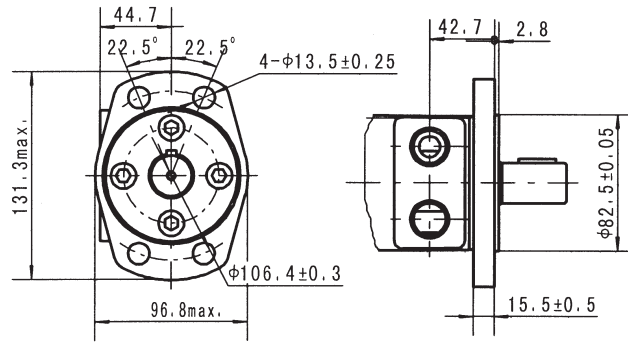
PORT: B4、B5



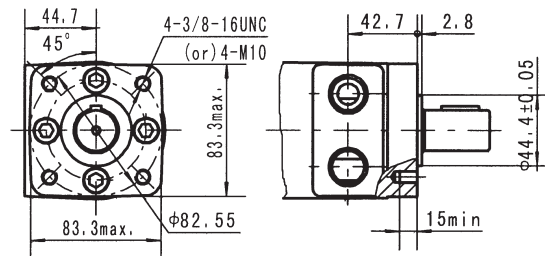
Flange H2



Flange H6



Flange H4/H5

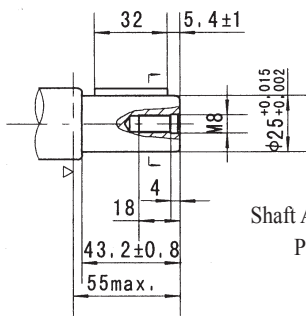


Model	L	L1
BMRS36	143	7
BMRS50	146	10
BMRS80	152	16
BMRS100	156	20
BMRS125	161	25
BMRS160	166.5	30.5
BMRS200	174	38.1
BMRS250	186	50
BMRS315	198	62
BMRS375	210	74

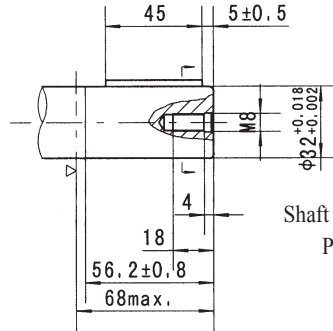
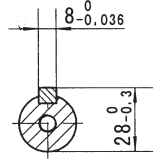
Note: The size L of the BMRS N1 should be increased by 2mm.

Code Mounting	G (depth)	S (depth)	P (depth)	R (depth)	M1 (depth)	M2 (depth)	M3 (depth)	B4 (depth)	B5 (depth)
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT(RC)1/2 (15)	M18 x 1.5 (15)	M20 x 1.5 (15)	M22 x 1.5 (15)	ø10	ø10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 (9.7)	M10 x 1 (12)	M10 x 1 (12)	M10 x 1 (12)	7/16-20UNF(12)	G1/4(12)
C	-	-	-	-	-	-	-	4-5/16-18UNC(13)	4-M8(13)

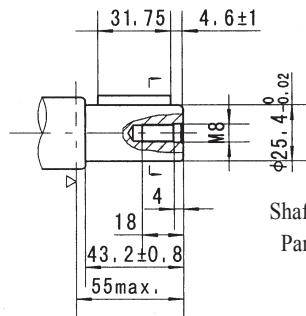
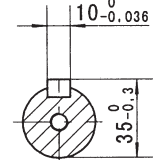
BMR SHAFT EXTENSIONS DIMENSIONS DATA



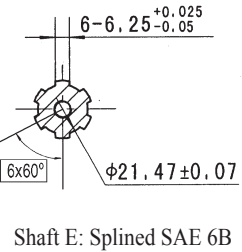
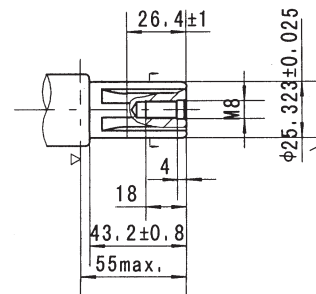
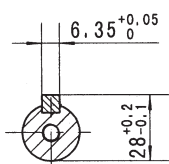
Shaft A: Cylindrical shaft $\phi 25$
Parallel key 8x7x32



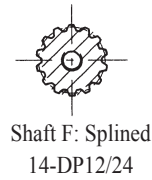
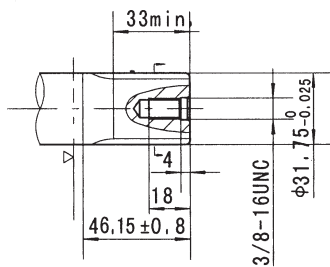
Shaft B: Cylindrical shaft $\phi 32$
Parallel key 10x8x45



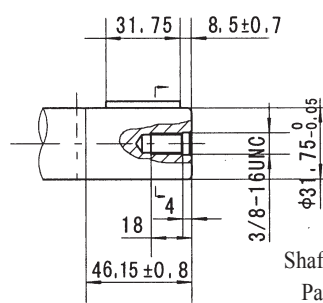
Shaft C: Cylindrical shaft $\phi 25.4$
Parallel key 6.35x6.35x31.75



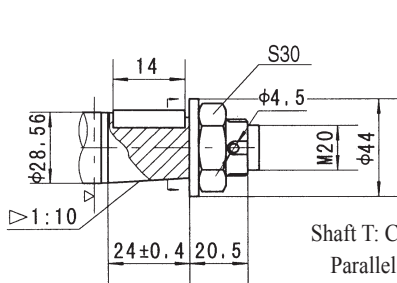
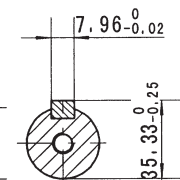
Shaft E: Splined SAE 6B



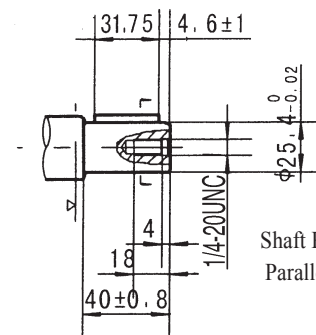
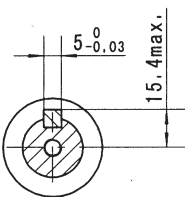
Shaft F: Splined
14-DP12/24



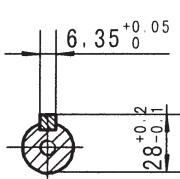
Shaft G: Cylindrical shaft $\phi 31.75$
Parallel key 7.96x7.96x31.75



Shaft T: Cone-shaft $\phi 28.56$
Parallel key B5x5x14
Tightening torque: 100±10Nm

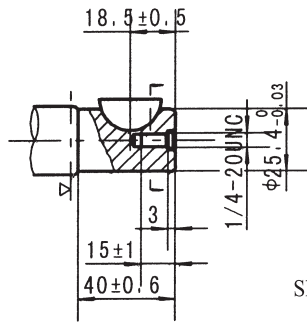


Shaft R: Cylindrical shaft $\phi 25.4$
Parallel key 6.35x6.35x31.75

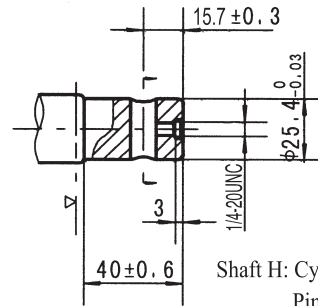
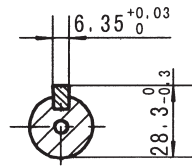


▷ Motor Mounting Surface

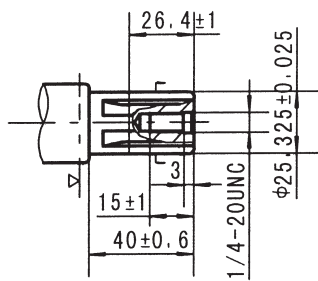
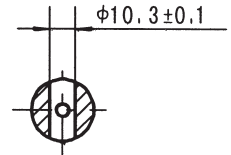
BMRS SHAFT EXTENSIONS DIMENSIDNS DATA



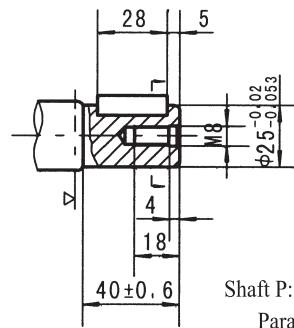
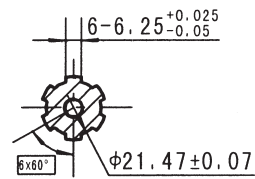
Shaft K: Cylindrical shaft ø25.4
Woodruff key ø25.4x6.35



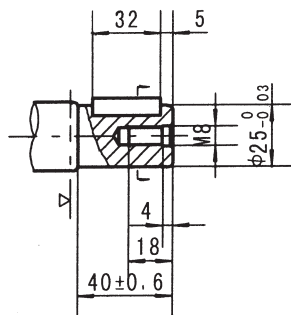
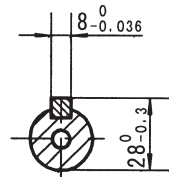
Shaft H: Cylindrical shaft ø25.4
Pin hole ø10.3



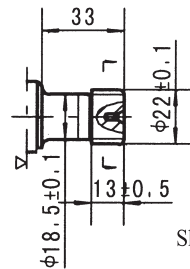
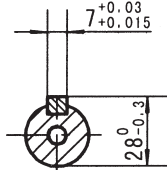
Shaft S: Splined SAE 6B



Shaft P: Cylindrical shaft ø25
Parallel key 8x7x28



Shaft J: Cylindrical shaft ø25
Parallel key 7x7x32

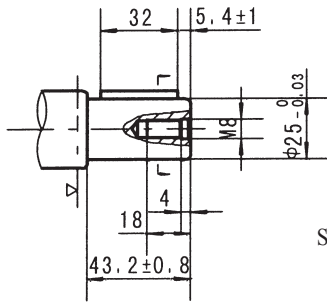


Shaft I: Splined 13-DP16/32

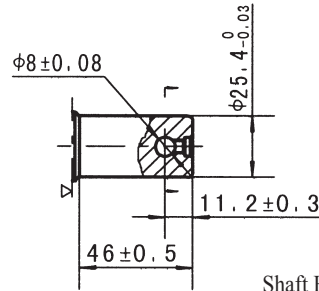
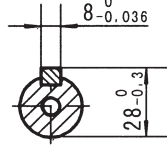


▷ Motor Mounting Surface

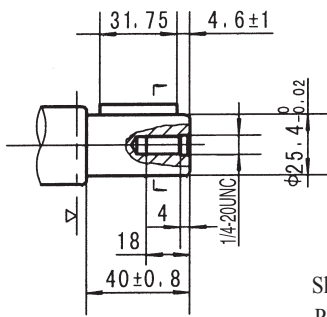
BMRS SHAFT EXTENSIONS DIMENSIONS DATA



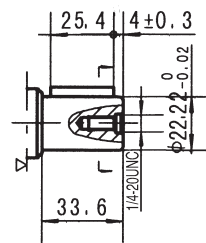
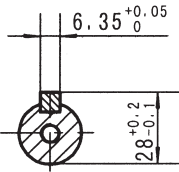
Shaft A: Cylindrical shaft $\phi 25$
Parallel key 8x7x32



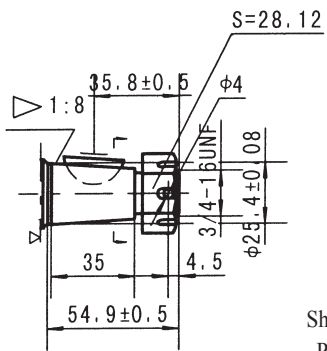
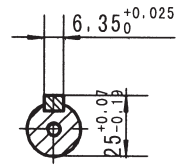
Shaft H1: Cylindrical shaft $\phi 25.4$
Pin hole $\phi 8$



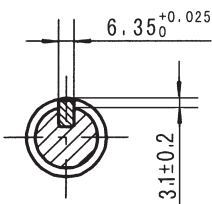
Shaft R: Cylindrical shaft $\phi 25.4$
Parallel key 6.35x6.35x31.75



Shaft D: Cylindrical shaft $\phi 22.22$
Parallel key 6.35x6.35x25.4

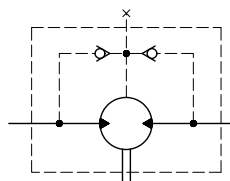


Shaft T2: Cone-shaft $\phi 25.4$
Parallel key $\phi 25.4 \times 6.35$
Tightening torque: $200 \pm 10 \text{ Nm}$

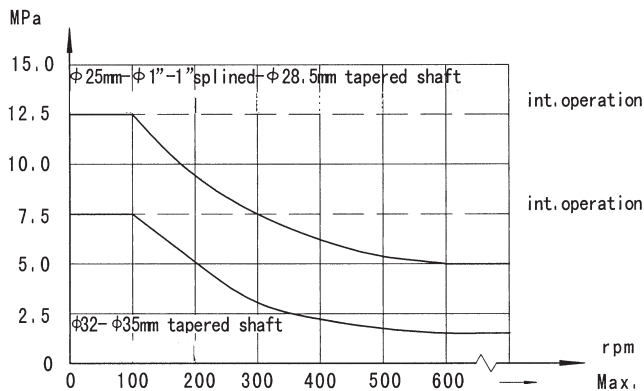
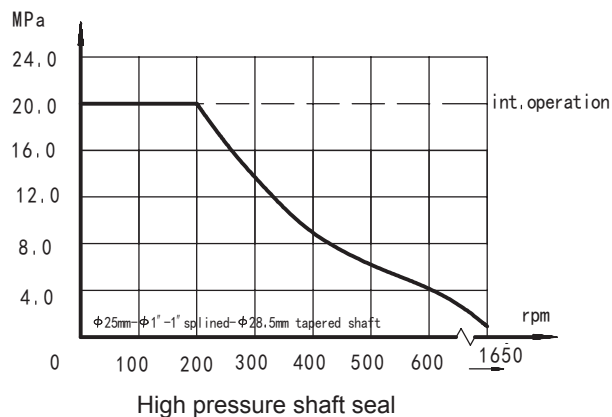


▷ Motor Mounting Surface

BMR、BMRS Series Hydraulic Motor



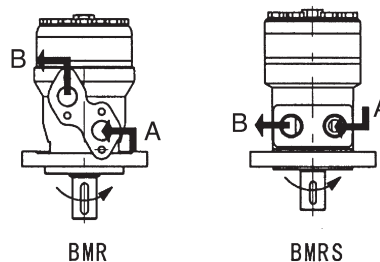
Permissible shaft seal pressure



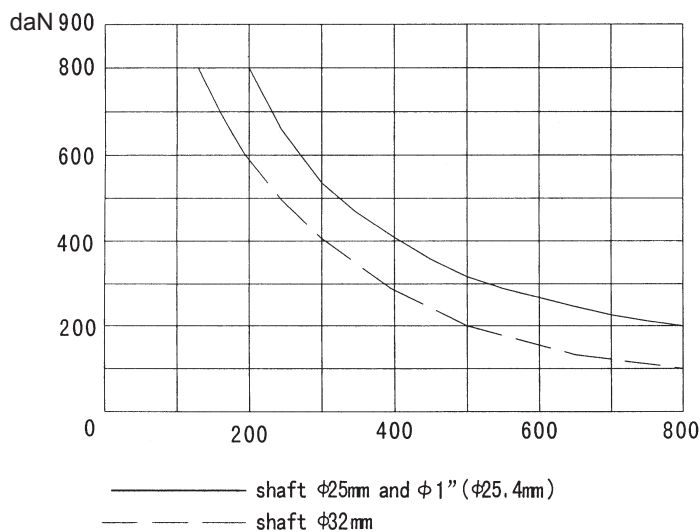
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

Direction of shaft rotation : Standard

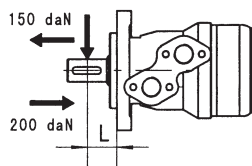
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise port "B" is pressurized.



**Status of the shaft's radial force
(Standard motor with journal bearing)**



$$F_r = \frac{800 \cdot 25000}{n \cdot 95 + L} \text{ daN}$$



F_r =Radial Force (daN)
 L =Distance (mm)
 n =Speed (rpm)
Rhomb-flange $L=30\text{mm}$
Square-flange $L=24\text{mm}$

Oil flow in drain line

The table shows the Max. oil flow in the drain line at a return pressure less than 0.5-1MPa.

Pressure drop (MPa)	Viscosity (mm ² /s)	Oil flow in the drain line (L/min.)
10	20	2.5
	35	1.8
14	20	3.5
	35	2.8



Order Information

Pos.1	2	3	4	5	6	7	8
			BMR				
Code	Disp.	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
	36	2-Ø13.5Rhomb-flange, pilot Ø82.5x8	A Shaft Ø25,parallel Key 8x7x32	D G1/2 Manifold Mount 4-M8, G1/4	Omit	00	Standard
	50		C Shaft Ø25.4,parallel Key 6.35x6.35x31.75				
	80	4-Ø13.5Rhomb-flange, pilot Ø82.5x8	E Shaft Ø25.4, splined tooth SAE 6B	S 7/8-14 O-ring manifold	R	Omit	Big radial force
	100		R Short shaft Ø25.4,parallel key 6.35x6.35x31.75				
	125	4-3/8-16 Square-flange, pilot Ø44.4x2.8	T Cone-Shaft Ø28.56,parallel Key B5x5x14	P 1/2-14 NPTF	Opposite	B	No case drain
	160		B Shaft Ø32,parallel Key 10x8x45				
	200	4-M10 Square-flange, pilot Ø44.4x2.8	F Shaft Ø31.75, splined tooth 14-DP12/24	Manifold 4-5/16-18UNC, 7/16-20UNF	S	S	Free Running
	250		FD Long shaft Ø31.75, splined tooth 14-DP12/24				
	315	4-M10 Square-flange, pilot Ø44.4x2.8	G Shaft Ø31.75, parallel Key 7.96x7.96x31.75	R PT (Rc)1/2 Manifold 4-M8, PT (Rc)1/4	LS	LS	Low Speed
	375						

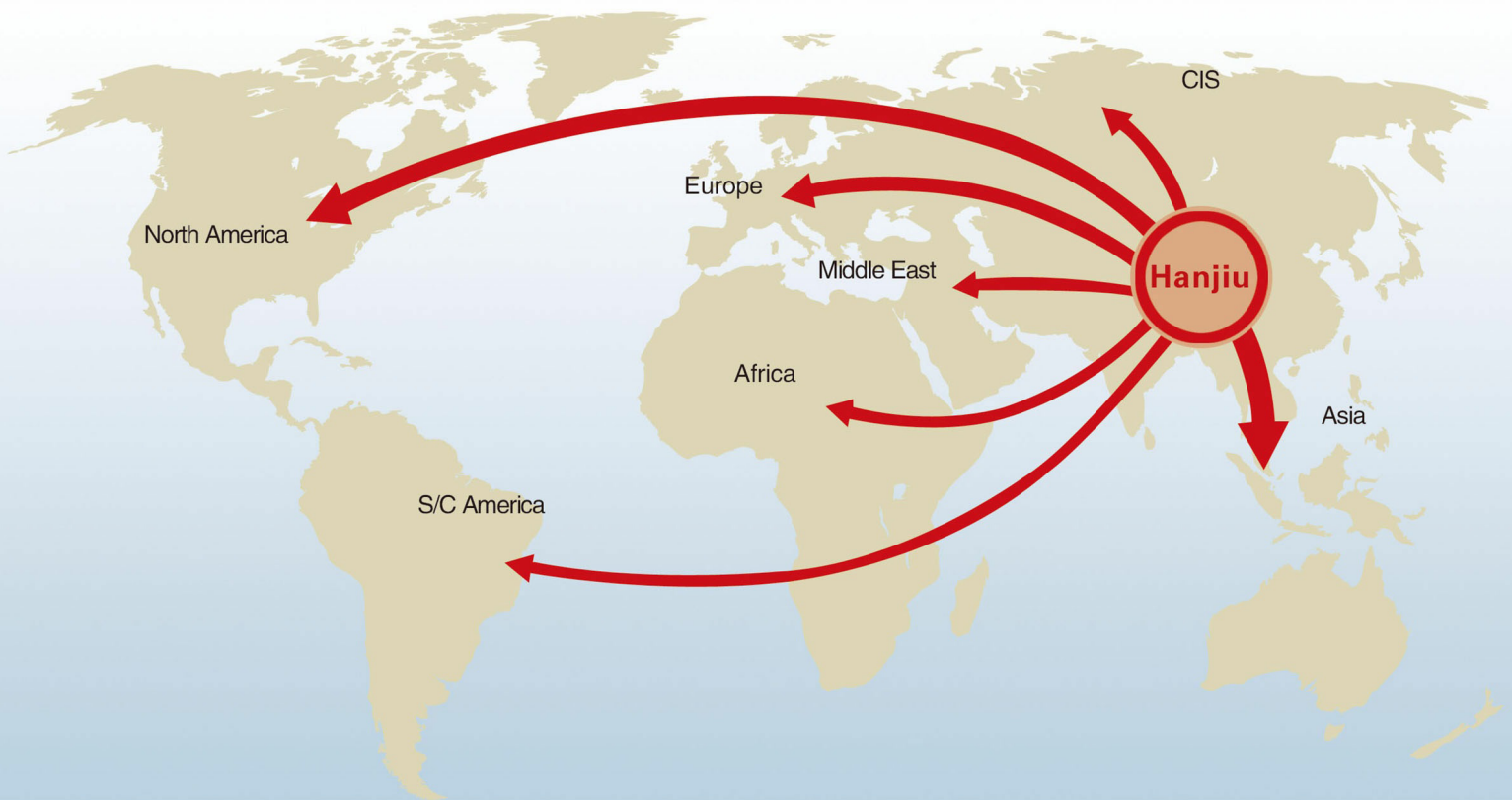
Note: The shafts of B\F\FD\G\T1\T3 are only suitable for flanges of 2 and 4.

Pos.1	2	3	4	5	6	7	8
			BMRS				
Code	Disp.	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
	36	2-Ø13.5Rhomb-flange, pilot Ø82.5x2.8	K Shaft Ø25.4, Woodruff Key Ø25.4x6.35	G G1/2, G1/4	Omit	00	Standard
	50		S Sub-shaft Ø25.4, splined tooth				
	80	4-Ø13.5Rhomb-flange, pilot Ø82.5x2.8	A Shaft Ø25 , parallel key 8x7x32	P (G1/4)	R	Omit	Big radial force
	100		R Shaft Ø25.4, parallel key				
	125	4-3/8-16 Square-flange, pilot Ø44.4x2.8	H 6.35x6.35x31.75	T 3/4-16 O-ring, 7/16-20UNF	Opposite	B	No case drain
	160		H1 Sub-shaft Ø25.4, Pin hole Ø10.3				
	200	4-M10 Square-flange, pilot Ø44.4x2.8	D Shaft Ø25.4, pin hole Ø8	B4 Ø10 O-ring manifold 4x5/16- 18, 7/16-20UNF	S	LS	Free Running
	250		I Shaft Ø22.22, splined tooth				
	315	4-M10 Square-flange, pilot Ø44.4x2.8	T2 Cone shaft Ø25.4 , woodruff key Ø25.4x6.35	M1 M18x1.5, M10x1			Low Speed
	375		P Shaft Ø25,parallel Key 8x7x28				
			J Shaft Ø25,parallel Key 7x7x32	M3 M22x1.5, M10x1			

Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.

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