

A10F

AXIAL PISTON MOTOR



YEOSHE

YEOSHE HYDRAULICS TECHNOLOGY CO.,LTD.

A10F Series Fixed Displacement Axial Piston Hydraulic Motors

Product Introduction

The A10F series are fixed displacement axial piston hydraulic motors, featuring lightweight, compact size, and high durability.

The A10F series adopts a simple structural design, allowing it to maintain excellent durability under operating conditions such as rapid acceleration/ deceleration, torque changes caused by frequent forward/reverse rotation, and pressure fluctuations.

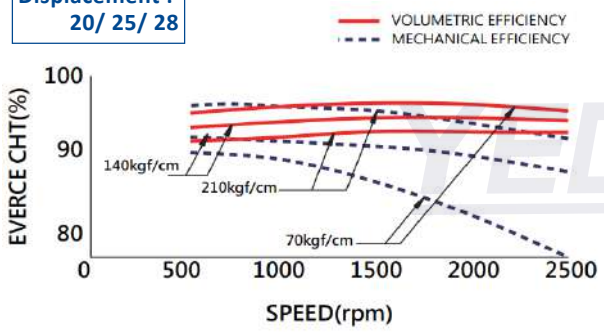


Specifications Table

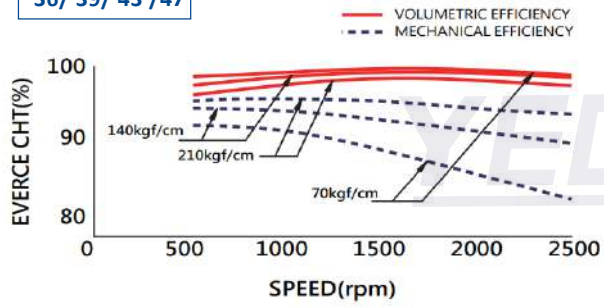
Model Type	Displacement (cc/rev)	Pressure (kg/cm²)		Torque (kgf.m)		Speed (rpm)	Weight (kg)
		Rated	Peak	Rated	Peak		
A10FM20	20	210	250	6.6	8	3000	8.14
A10FM25	25	210	250	8.6	10.2	3000	8.14
A10FM28	28	210	250	8.6	10.2	3000	8.14
A10FM36	36	210	250	12	14.3	3000	10.71
A10FM39	39	210	250	13	15.3	3000	10.71
A10FM43	43	210	250	14.3	17.1	3000	10.71
A10FM47	47	210	250	15.7	18.1	3000	10.71

Performance Curve

Displacement : 20/ 25/ 28

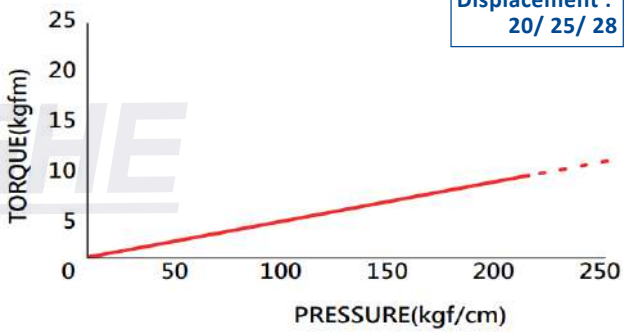


Displacement : 36/ 39/ 43 /47

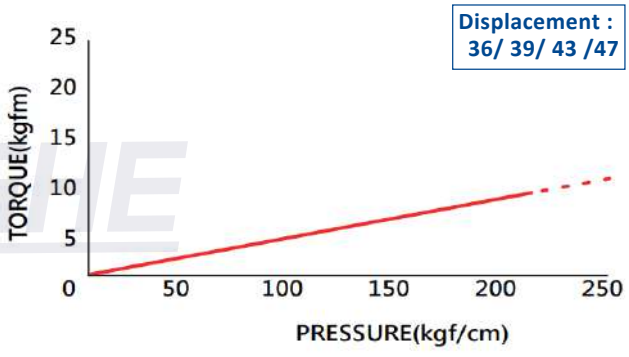


Output Torque

Displacement : 20/ 25/ 28



Displacement : 36/ 39/ 43 /47



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A10F Series Fixed Displacement Axial Piston Hydraulic Motors

Model Description

A10F : Fixed Displacement Axial Piston Hydraulic Motors

B1 : SAE B 2-hole - 82.55 Horizontal
C1 : SAE C 2-hole - 101.6 Horizontal
C2 : SAE C 2-hole - 101.6 45 degrees

※ B : Rear outlet (same side)
○ C : Side outlet (same side)
○ S : Dual outlet (opposite sides)

20 : 20 (cc/rev)
25 : 25 (cc/rev)
28 : 28 (cc/rev)
36 : 36 (cc/rev)
39 : 39 (cc/rev)
43 : 43 (cc/rev)
47 : 47 (cc/rev)

10 : PT, Ports 3/8", Drain 1/4"
30 : PF, Ports 3/8", Drain 1/4"
31 : PF, Ports 1/2", Drain 3/8"

Order model :

Series	Interface	Displacement		Rotation	Flange	Axis	Oil port	Tooth type		Special code
A10F	M	25	-	W	C1	S1	B	10	-	

※ M : Connection interface at the front of the motor.
○ E : Connection interface at the middle section of the motor.
○ N : Connection interface at the rear of the motor.

Forward Rotation
Reverse Rotation
Reversible (Bi-directional)

※ S1 : 13T Spline, 24.667, M1.667, PA20°, JIS D2001
※ S2 : 13T Spline, 7/8" (22.22 mm), DP16/32, PA30°, ANSI B92.1
※ S3 : 15T Spline, 1" (25.4 mm), DP16/32, PA30°, ANSI B92.1
○ K1 : Keyed 24 × 7 × 7 mm
○ K2 : Keyed 24 × 8 × 7 mm
※ K3 : Keyed 25 × 7 × 7 mm
○ K4 : Keyed 25 × 8 × 7 mm
○ N4 : Keyed 25.4 × 6.35 mm
○ T22 : Tapered Keyed, 21.774 × 6.35, SAE J744 22-3
○ T25 : Tapered Keyed, 25.16 × 6.35, SAE J744 25-3

Special Code :
Customer - specific product combination ordering code for repeat orders.

※ In stock, regular item
○ Customizable

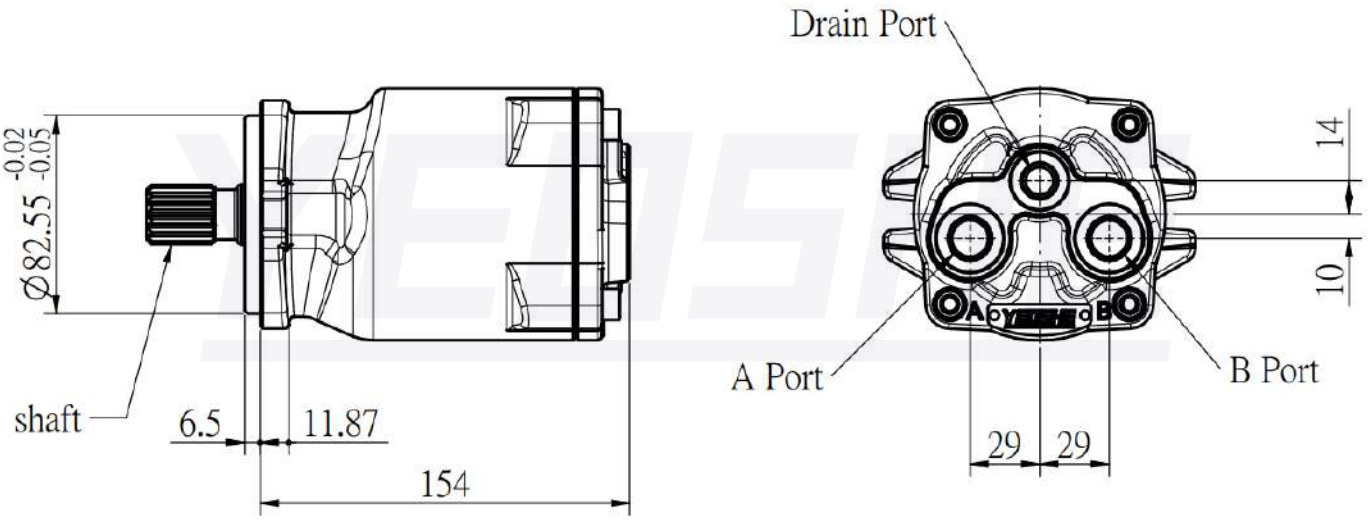
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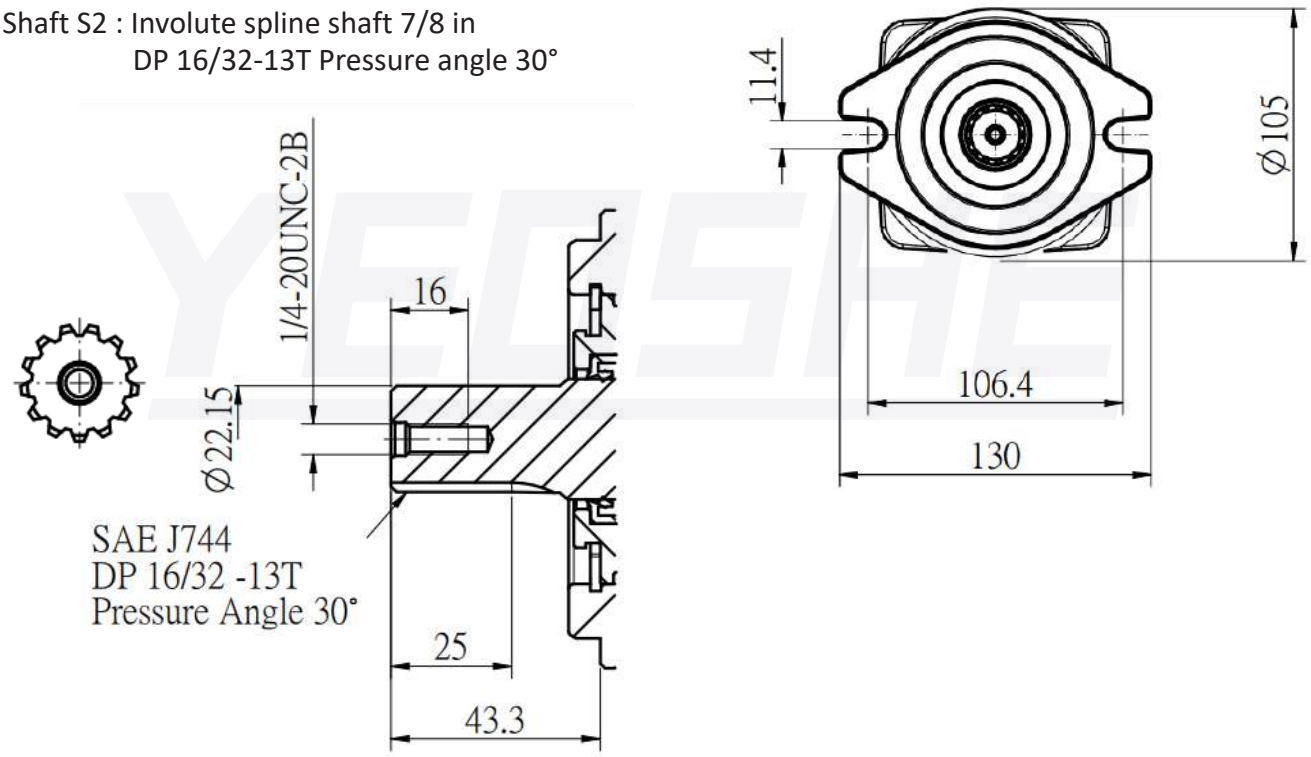
External Dimensions A10FM 20/25/28

Flange 1 : 82.55 mm horizontal

(Please refer to page 8 for details of inlet and outlet ports)
Tooth type 10 : A, B Port PT3/8, Drain Port PT1/4
Tooth type 30 : A, B Port PF3/8, Drain Port PF1/4



Shaft S2 : Involute spline shaft 7/8 in
DP 16/32-13T Pressure angle 30°

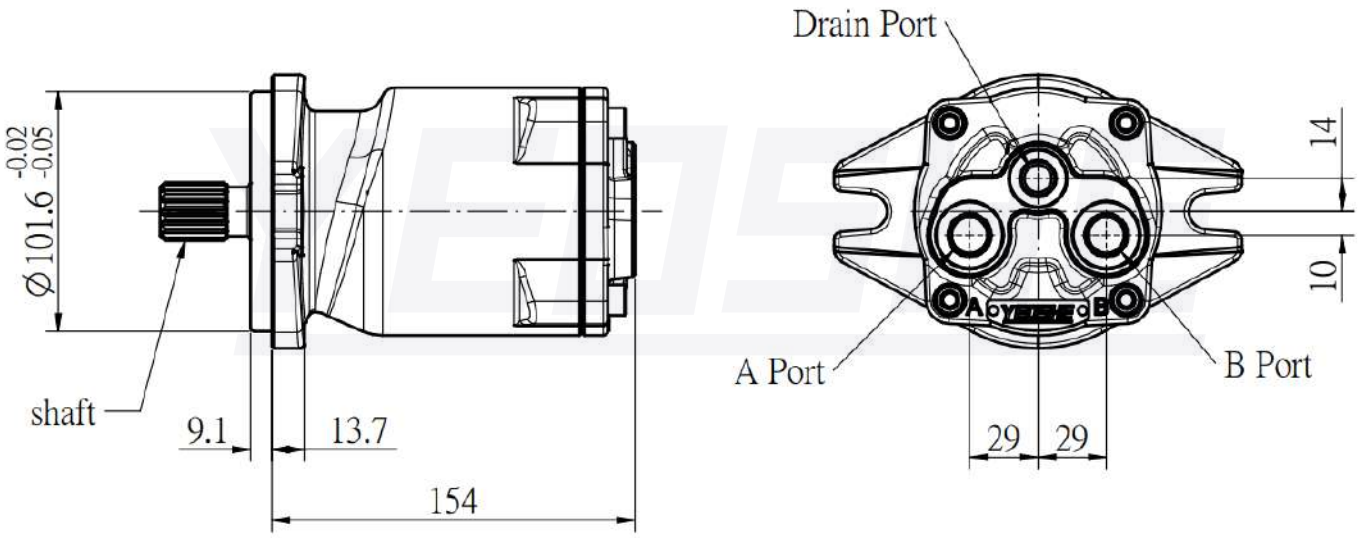


(For other shaft types, please refer to pages 6 and 7.)

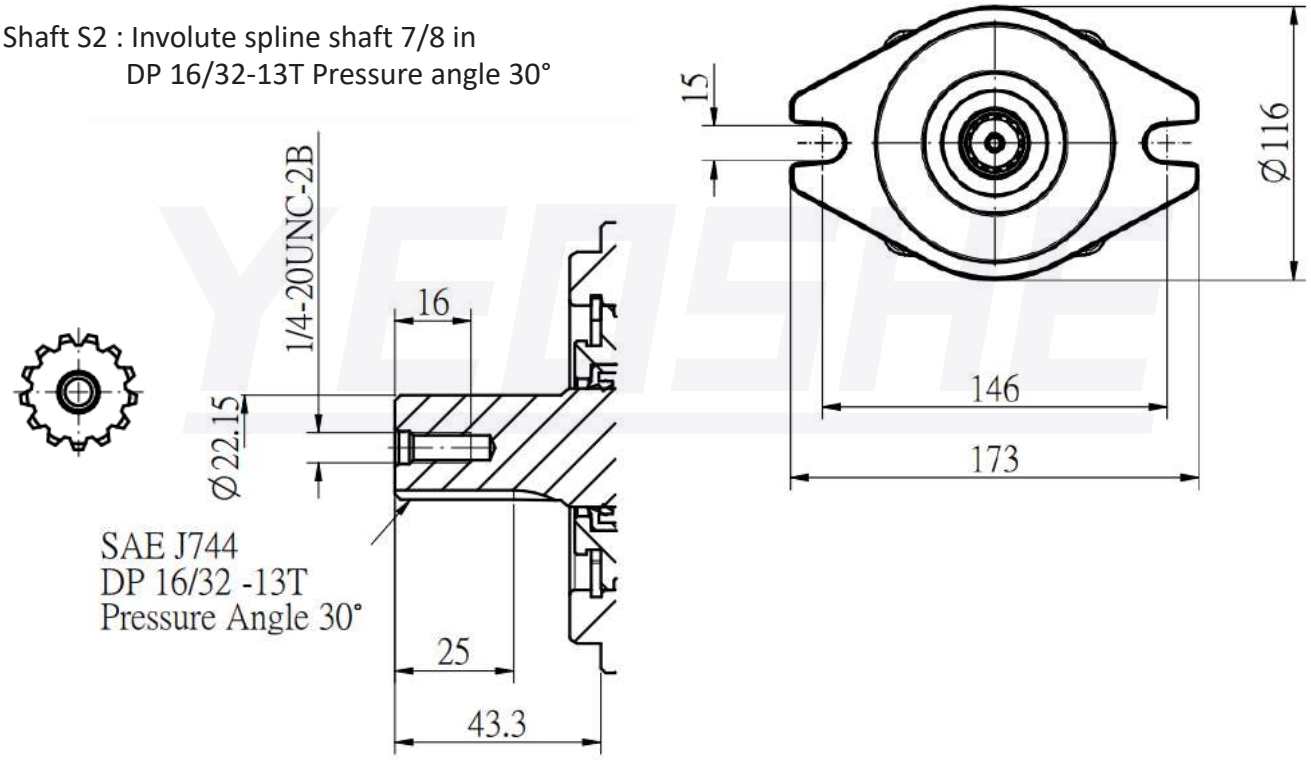
External Dimensions A10FM 20/25/28

Flange 2 : 101.6 mm horizontal

(Please refer to page 8 for details of inlet and outlet ports)
Tooth type 10 : A, B Port PT3/8, Drain Port PT1/4
Tooth type 30 : A, B Port PF3/8, Drain Port PF1/4



Shaft S2 : Involute spline shaft 7/8 in
DP 16/32-13T Pressure angle 30°



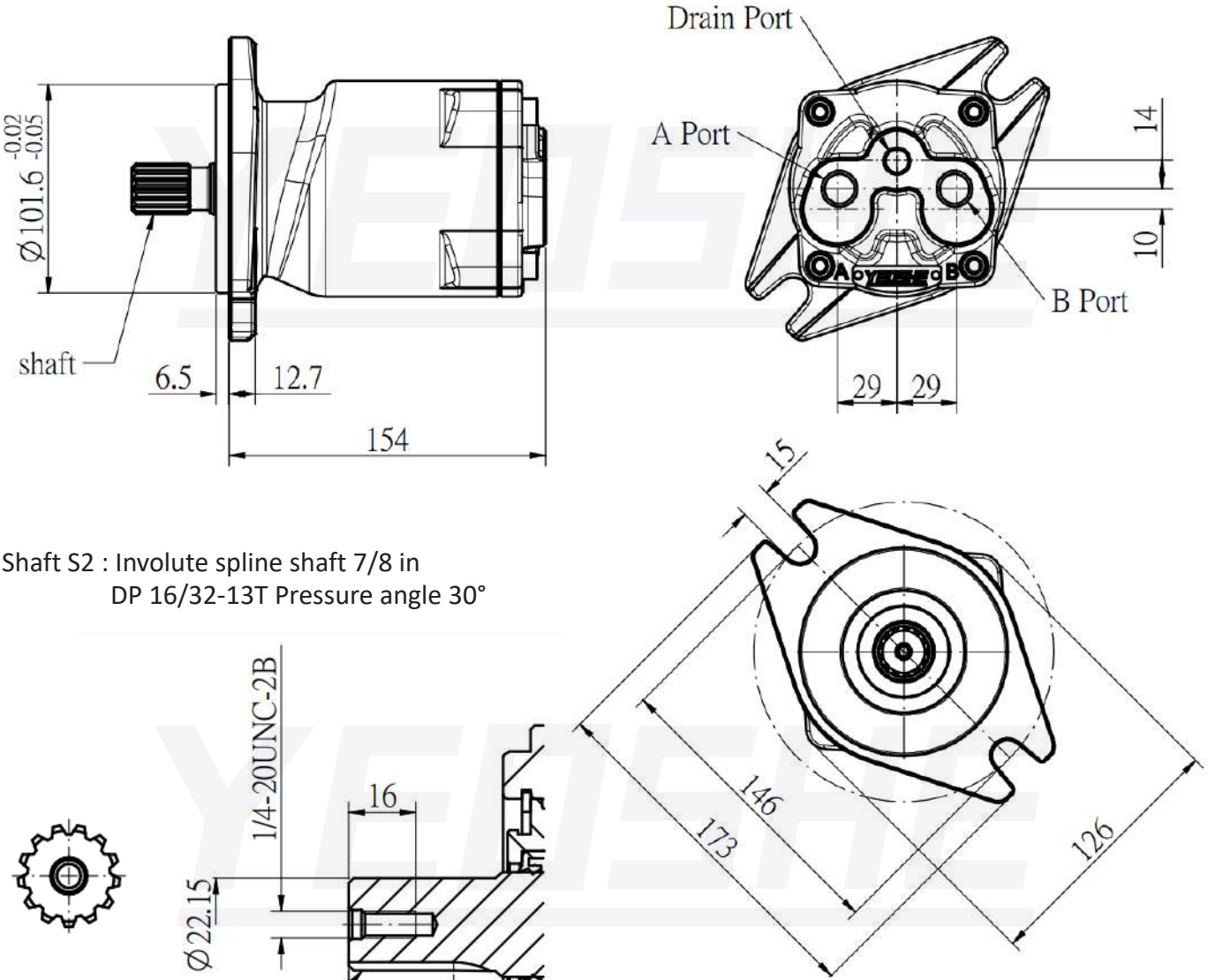
(For other shaft types, please refer to pages 6 and 7.)

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External Dimensions A10FM 20/25/28

Flange 3: 101.6 mm 45°

(Please refer to page 8 for details of inlet and outlet ports)
Tooth type 10 : A, B Port PT3/8, Drain Port PT1/4
Tooth type 30 : A, B Port PF3/8, Drain Port PF1/4



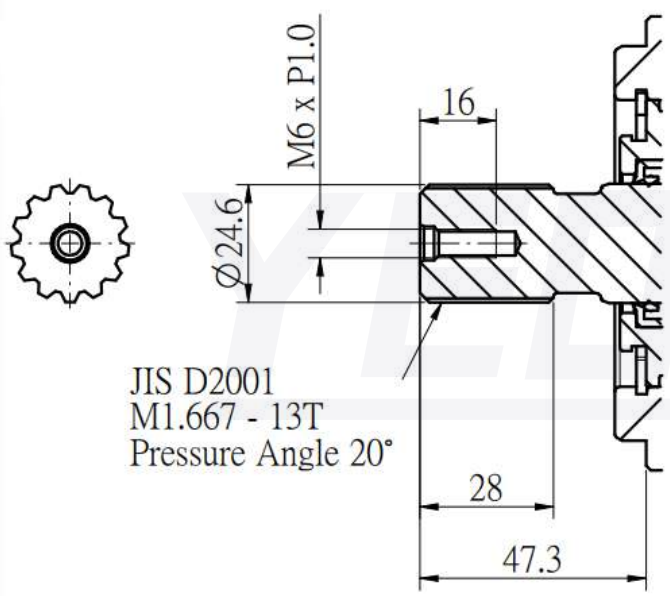
Shaft S2 : Involute spline shaft 7/8 in
DP 16/32-13T Pressure angle 30°

(For other shaft types, please refer to pages 6 and 7.)

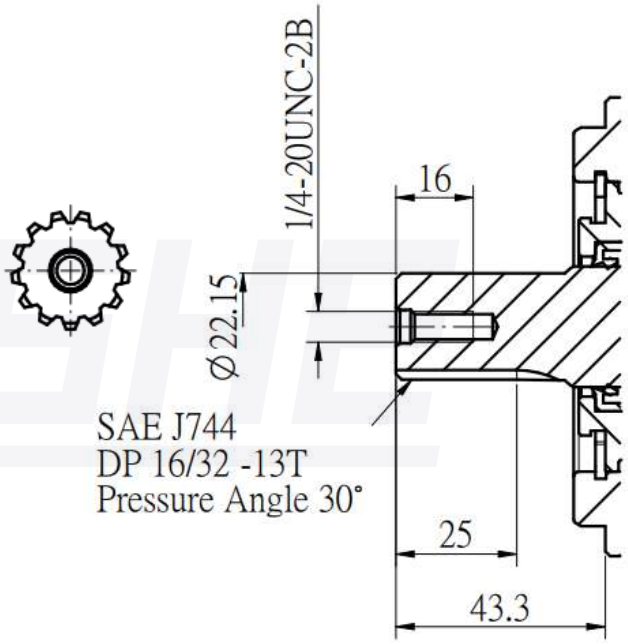
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Axial Type **A10FM 20/25/28**

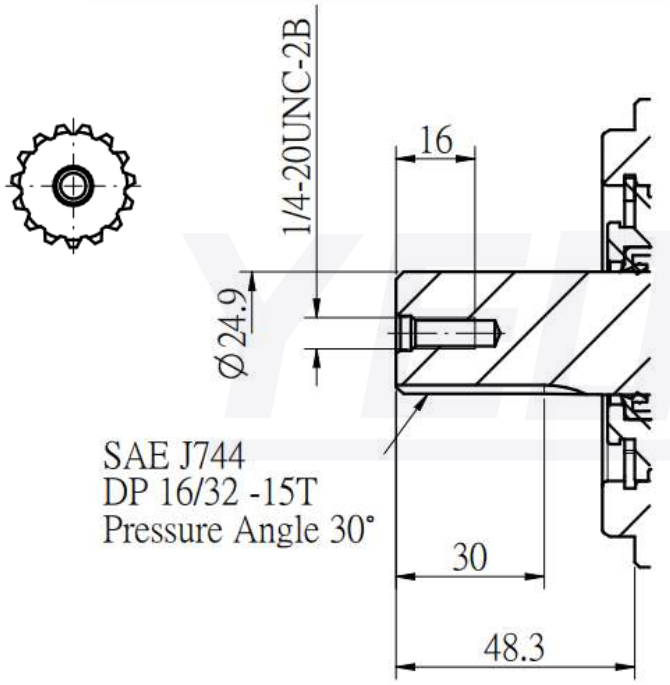
S1 : Involute Spline Shaft JIS D2001
M1.667 13T 24.667 Pressure Angle 20°



S2 : Involute spline shaft 7/8 in
DP 16/32-13T Pressure angle 30°



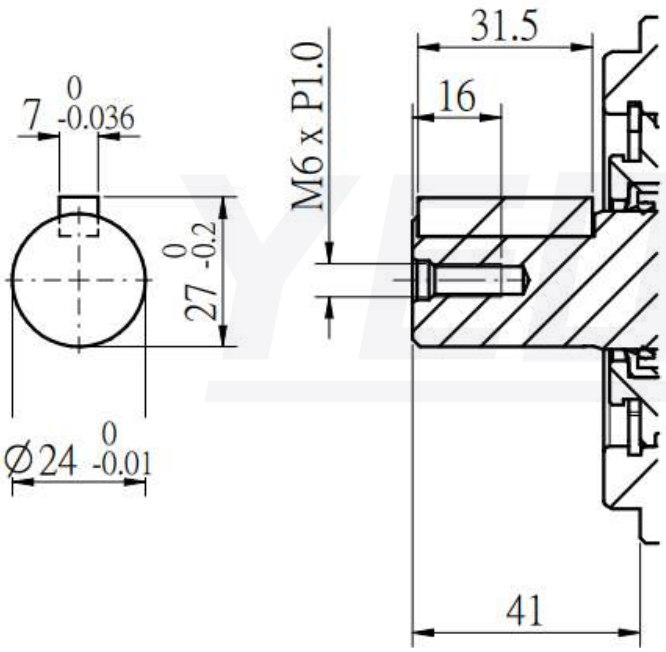
S3 : Involute Spline Shaft 1 in
DP 16/32-15T Pressure Angle 30°



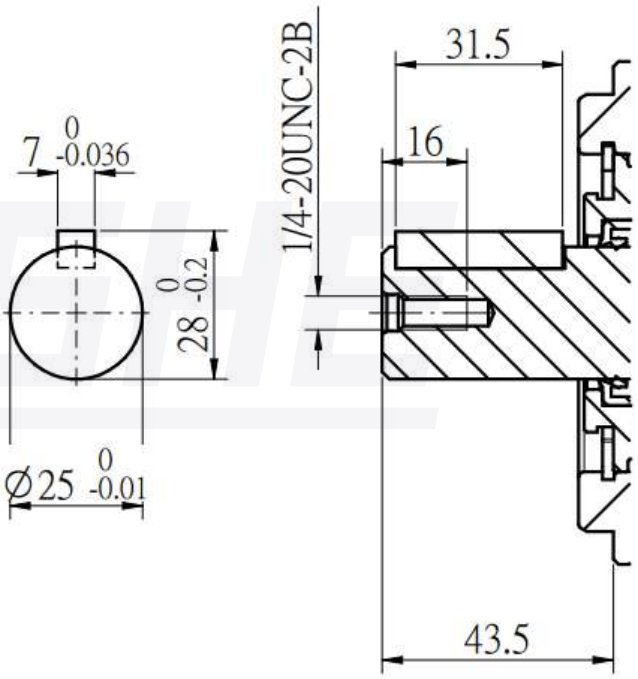
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Axial Type **A10FM 20/25/28**

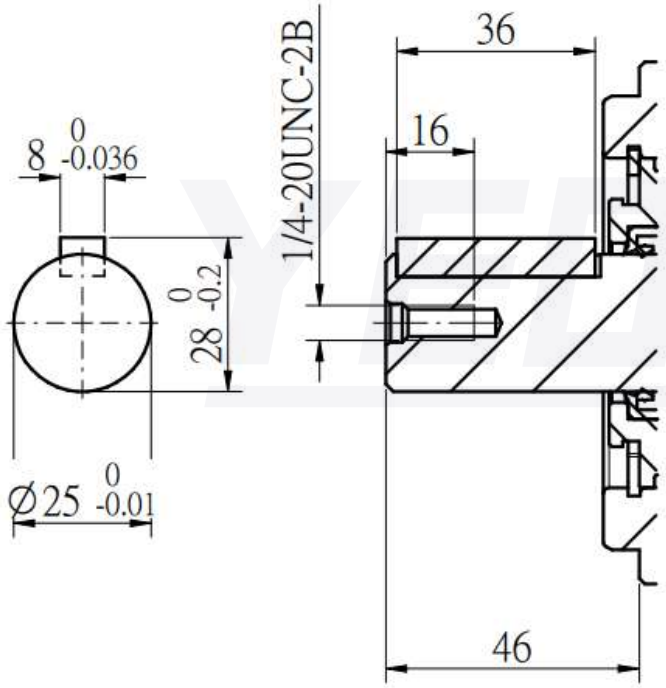
K1 : Straight key switch 24 x 7 x 7



K3 : Straight key switch 25 x 7 x 7



K4 : Straight key switch 25 x 8 x 7

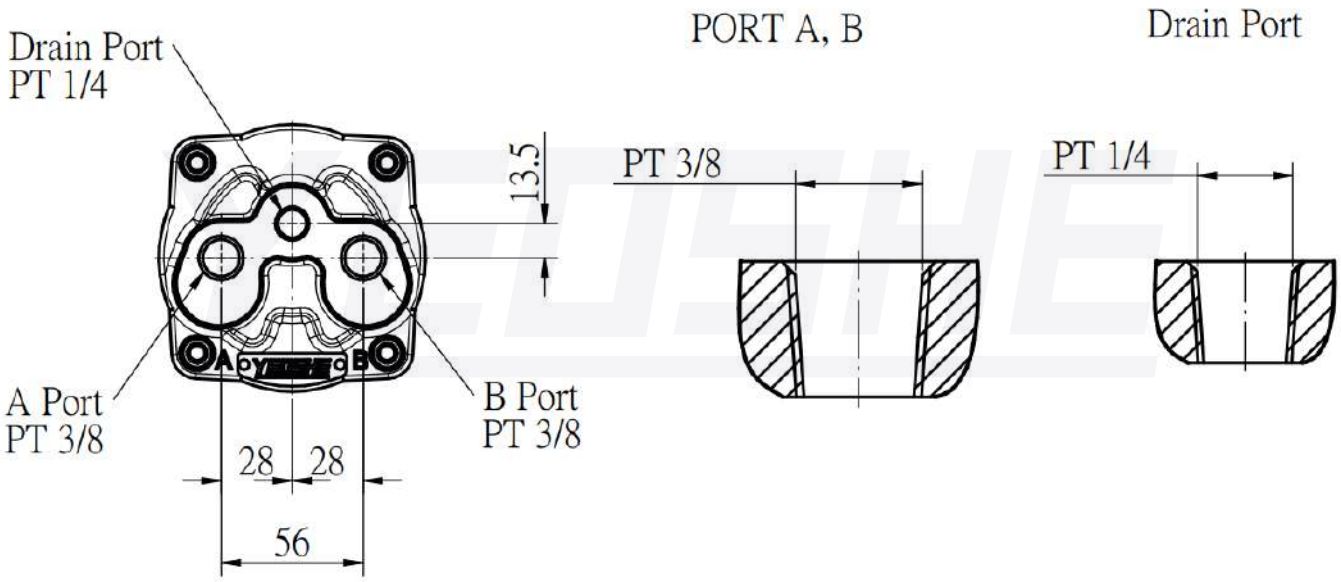


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Oil Inlet and Outlet

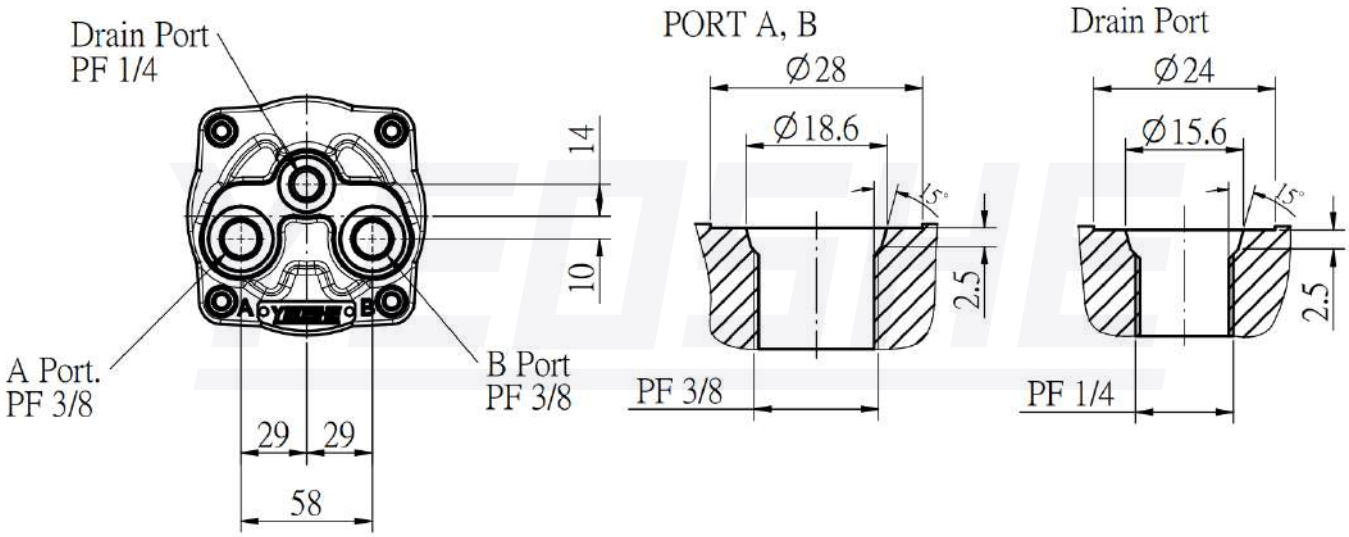
A10FM 20/25/28

Tooth type 10 : A, B holes PT3/8,drain port PT1/4



A10FM 20/25/28

Tooth type 30 : A, B holes PF3/8, drain port PF1/4



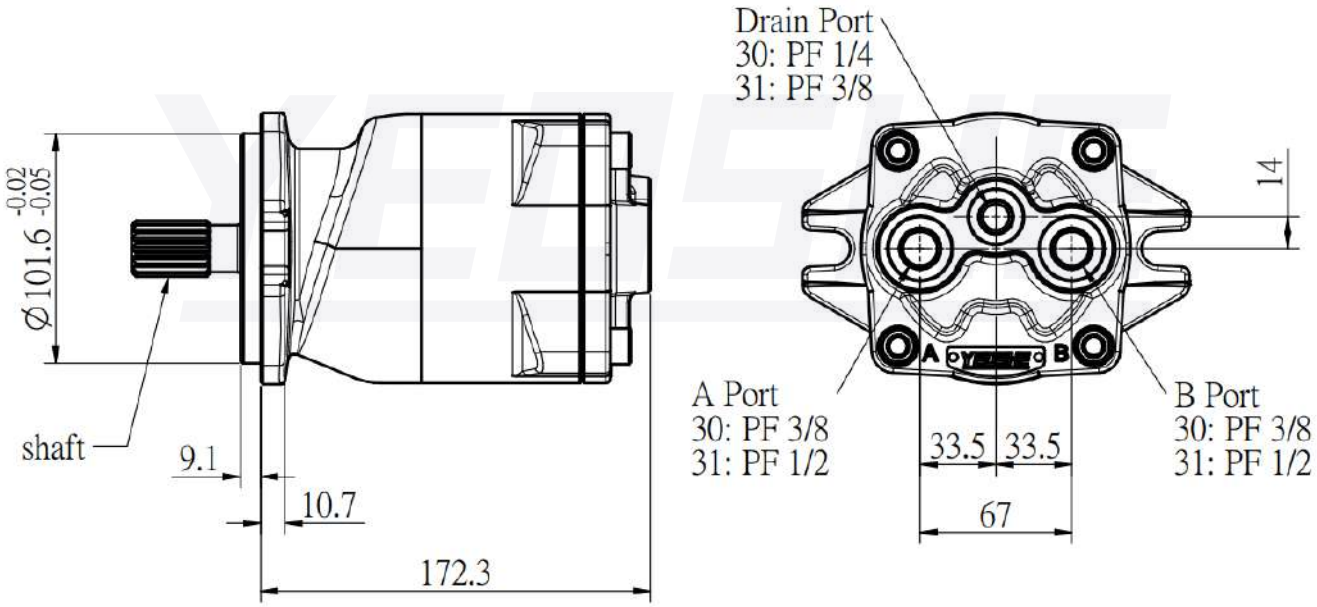
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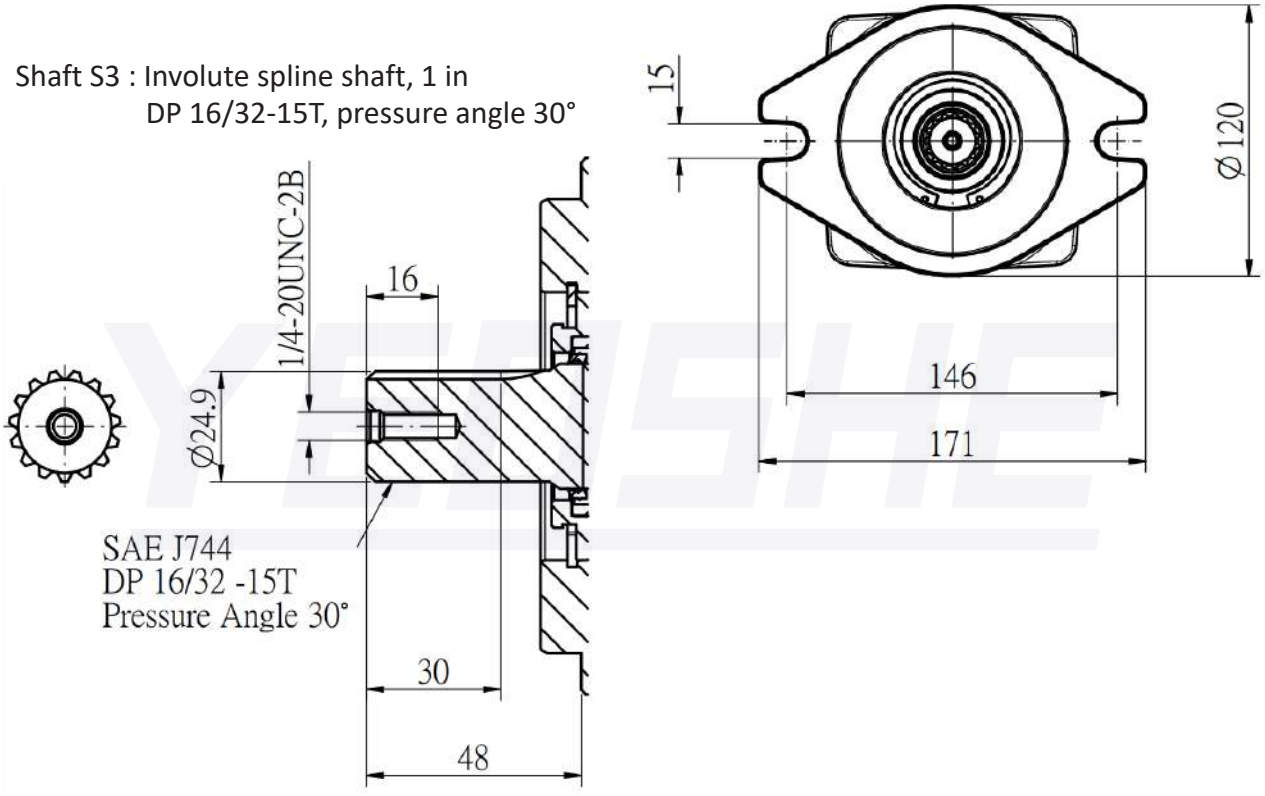
External Dimensions A10FM 36/39/43/47

flange 2 : 101.6 mm horizontal

(For details on inlet and outlet ports, please refer to page 12)
Tooth type 30 : A, B Port PF3/8, Drain Port PF1/4
Tooth type 31 : A, B Port PF1/2, Drain Port PF3/8



Shaft S3 : Involute spline shaft, 1 in
DP 16/32-15T, pressure angle 30°

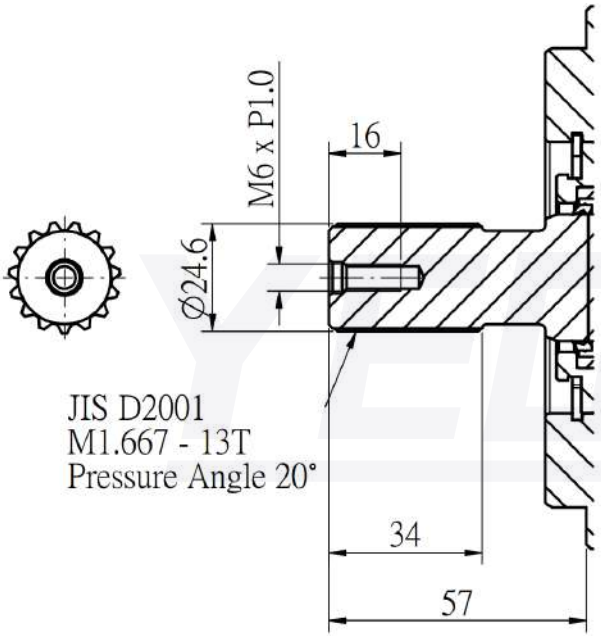


(For other shaft types, please refer to 10 and 11.)

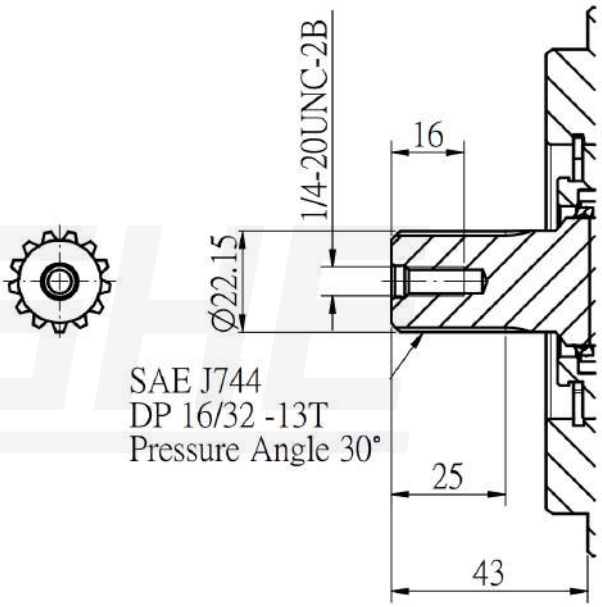
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Axial Type **A10FM 36/39/43/47**

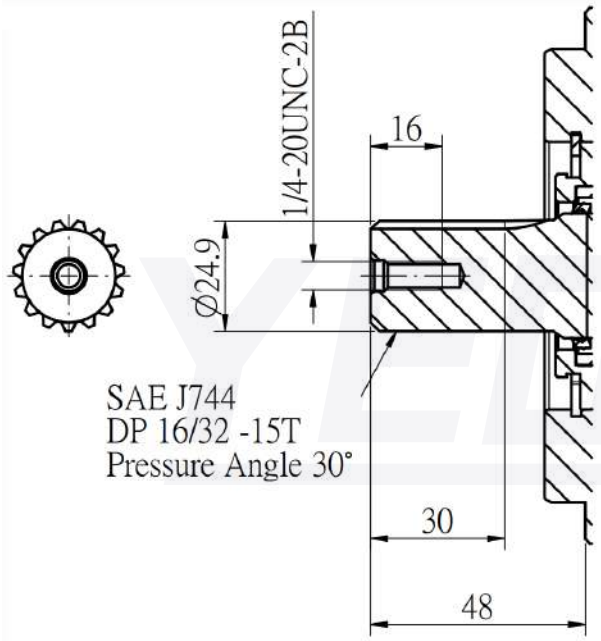
S1 : Involute Spline Shaft JIS D2001
M1.667 13T 24.667 Pressure Angle 20°



S2 : Involute spline shaft 7/8 in
DP 16/32-13T Pressure angle 30°



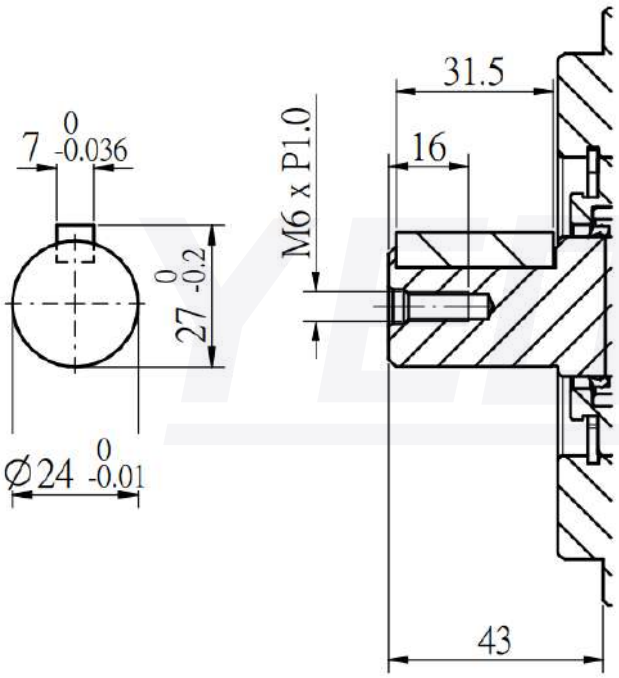
S3 : Involute Spline Shaft 1 in
DP 16/32-15T Pressure Angle 30°



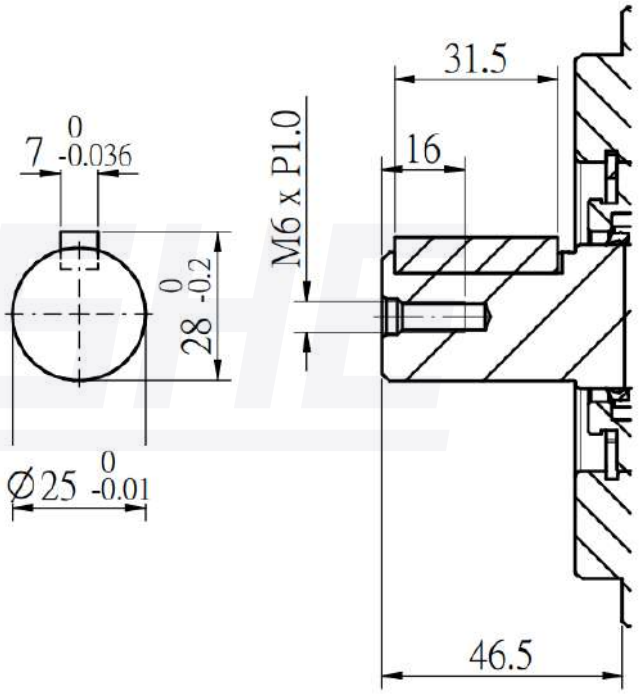
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Axial Type **A10FM 36/39/43/47**

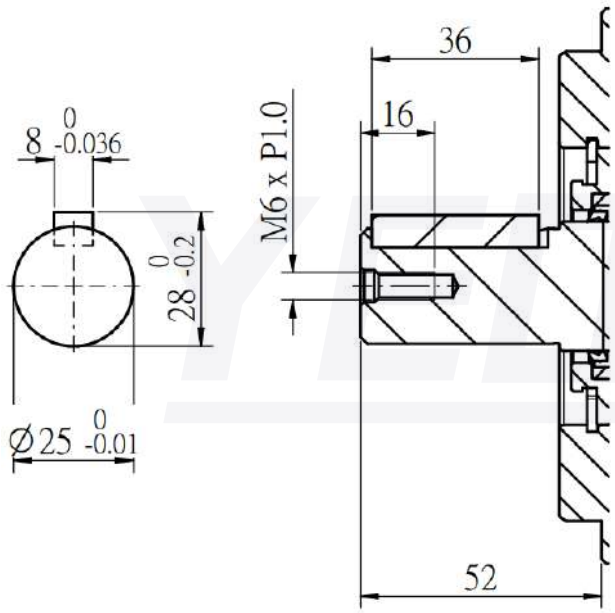
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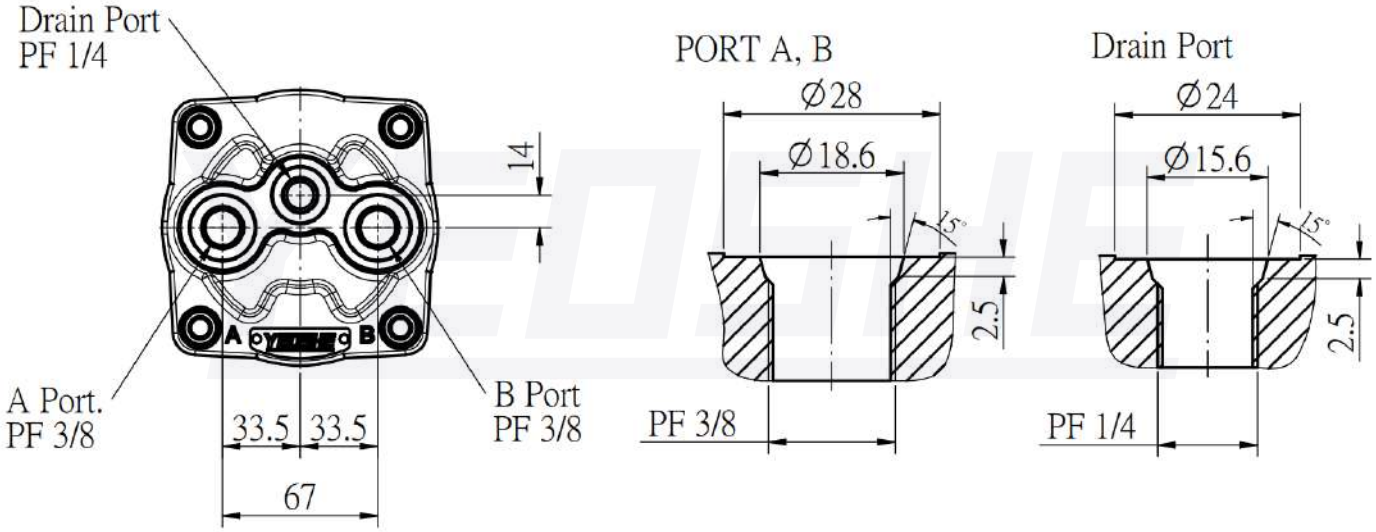


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Oil Inlet and Outlet

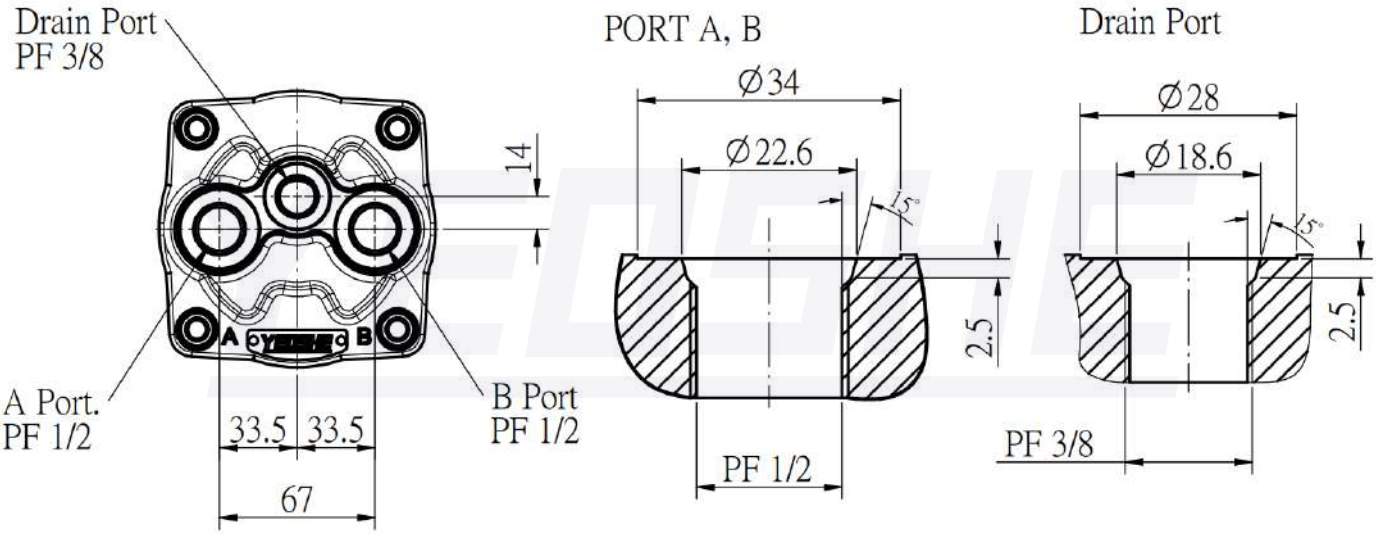
A10FM 36/39

Tooth type 30 : A, B holes PF3/8, drain port PF1/4



A10FM 43/47

Tooth type 31 : A, B holes PF1/2, drain port PF3/8



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YEOSHE BEST CHOICE Efficient Performance
Innovative Technology Reliable Quality and Service



YEOSHE

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