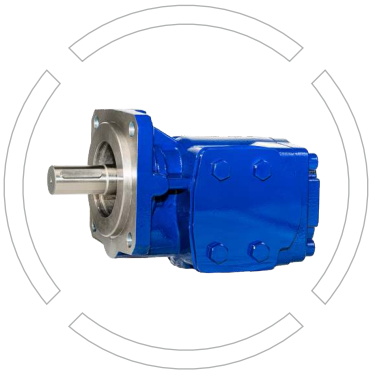
THM HYDRAULICS

CF Series

Gear Pump
Displacement: 63~315 mL/r
Rated Pressure: 25 Bar
Maximum Pressure: 40 Bar



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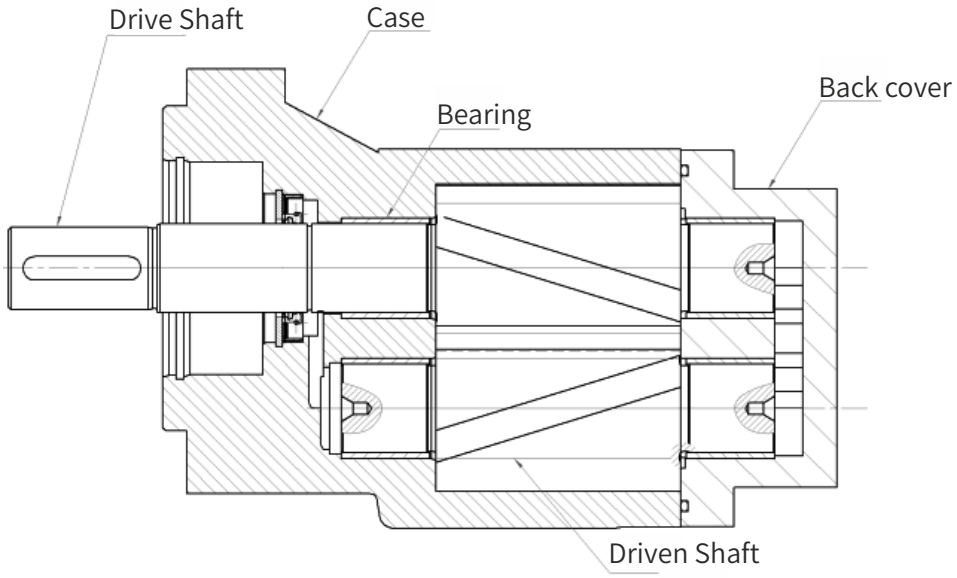
Overview

The structure and characteristics of CF series gear pump as a power component in the hydraulic system, Gear pumps are widely used in various occasions as typical positive displacement pumps, in hydraulic Transmission。 Motion and control and lubrication equipment are indispensable and important components.
Gear pumps。It is composed of pump gear, gear shaft, side plate, pump body, bearing, pump end cover, etc.



Features

- Gear pump KF is used to deliver all kinds of liquids.
- The main feature of the gear pump KF is the variety of models, which can be arbitrarily combined according to the module design principle , Can also be expanded in the future.
- The pump is also suitable for the less lubricated media.
- Standard specification shell parts are made of grey cast iron. The gearbox is carburized by high strength Made of steel, and hardened, fixed in a special made of a variety of materials On the axis tile.
- The standard specification drive shaft is sealed with a radial shaft sealing ring.
- All structural sizes are used for oblique teeth.
- Therefore, combined with the special gear geometry can achieve the ultra–low sound level value and small the pressure fluctuation.

Ordering Code

CF						

Gear Pump = CF

Nominal Displacement (mL/r)
63, 80, 100, 112, 125, 150, 180, 200, 250, 315

Rotation Direction
Clockwise = R
Anticlockwise = L
Clockwise and Anti-Clockwise = B
Universal Be Curren = U

Fixed Type:
DIN flange without front bearing = F
DIN flange with front bearing = G
Angle support without front bearing = W
Angle support with front bearing = X

Seal type:
- Radial shaft seal NBR (BABSL) = 1
- Radial shaft seal FKM (BABSL) = 2
- Radial shaft seal PTFE (Hn2390) = 3
- Double radial shaft seal PTFE (Hn2390) = 4
- Slide ring seal with FKM auxiliary seal (AX15) C2S2V1G3G1 = 5
- Slide ring seal with FFKM double radial shaft seal auxiliary seal (AX30) Q2Q2K1G3 (KF 2.5–25) / Q2B2K1G3 (KF 32–200) = 6
- Double radial shaft seal FKM (BABSL) = 7
- Radial shaft seal EPDM (R02–R) (Not resistant to mineral oil) = 9
- Radial shaft seal FKM (BAUMX7) = 18
- Double radial shaft seal NBR (BABSL) = 19
- Radial shaft seal FKM (MSS1) (Low temperature) (KF 2.5–80) = 23
- Without shaft seal O-ring FKM = 30
- Radial shaft seal FKM (BABSL) (Low temperature) (KF 32–200) = 31
- Double radial shaft seal EPDM (R02–R) (Not resistant to mineral oil) = 32
- Without shaft seal O-ring NBR = 36
- Slide ring seal with FKM auxiliary seal (L4) AQ2VFF = 40

Special Coding (Next Page)

Pressure Valve
Adjustable between 0–15 bar = D15
Adjustable between 15–25 bar

Ordering Code

Special Coding :

- Double radial shaft seal (for vacuum operation) connection port G 1/8" (for fluid tank) = 74
- Low noise specification for oil containing air (1) = 197
- Slide ring seal with fluid tank = 198
- Housing port: KF80: Flange port SAE 2" / KF112: Flange port SAE 2 1/2" / KF 125–150: Flange port SAE 3" / KF 180–200: Flange port SAE 3 1/2" = 232
- Vertical mounting position (shaft end on top) / Independent lubrication of radial shaft seal (reduced delivery flow) / (Structural size 4: please inquire) = 277
- Plastic sliding bearing Iglidur X (non-colored metal), Δpmax = 10 bar (Structural size 4: please inquire) = 304
- Low noise specification for oil containing air (1) (197) / Plastic sliding bearing Iglidur X (non-colored metal), Δpmax = 10 bar (304) = 317
- Triple radial shaft seal (for normal operation + vacuum operation) / Connection port G 1/8" (for fluid tank) / Plastic sliding bearing Iglidur X (non-colored metal), Δpmax = 10 bar (304) / Housing port: KF80: Flange port SAE 2" (232) = 322
- Low noise specification for oil containing air (1) (197) / Multi-layer sliding bearing DP4 (lead-free) / Structural size 4: please inquire = 353
- Low noise specification for oil containing air (1) (197) / Housing port: KF80: Flange port SAE 2" (232) / KF112: Flange port SAE 2 1/2" (232) / KF 125–150: Flange port SAE 3" (232) / KF 180–200: Flange port SAE 3 1/2" (232)402Double radial shaft seal (for vacuum operation) (74) / Connection port G 1/8" (for fluid tank) (74) / Housing port: KF80: Flange port SAE 2" (232) / KF112: Flange port SAE 2 1/2" (232) / KF 125–150: Flange port SAE 3" (232) / KF 180–200: Flange port SAE 3 1/2" (232) = 391
- Low noise specification for oil containing air (1) (197) / Vertical mounting position (shaft end on top) / Independent lubrication of radial shaft seal (reduced delivery flow) (277) = 455
- Double radial shaft seal (for vacuum operation) (74) / Connection port G 1/8" (for fluid tank) (74) / Low noise specification for oil containing air (1) (197) / Housing port: KF 100–112: Flange port SAE 2 1/2" (232) / KF 125–150: Flange port SAE 3" (232) / KF 180–200: Flange port SAE 3 1/2" (232) = 459
- Shaft outer diameter: KF 125–150: ϕ24 = 452

Application scenarios

Wind Power Industry

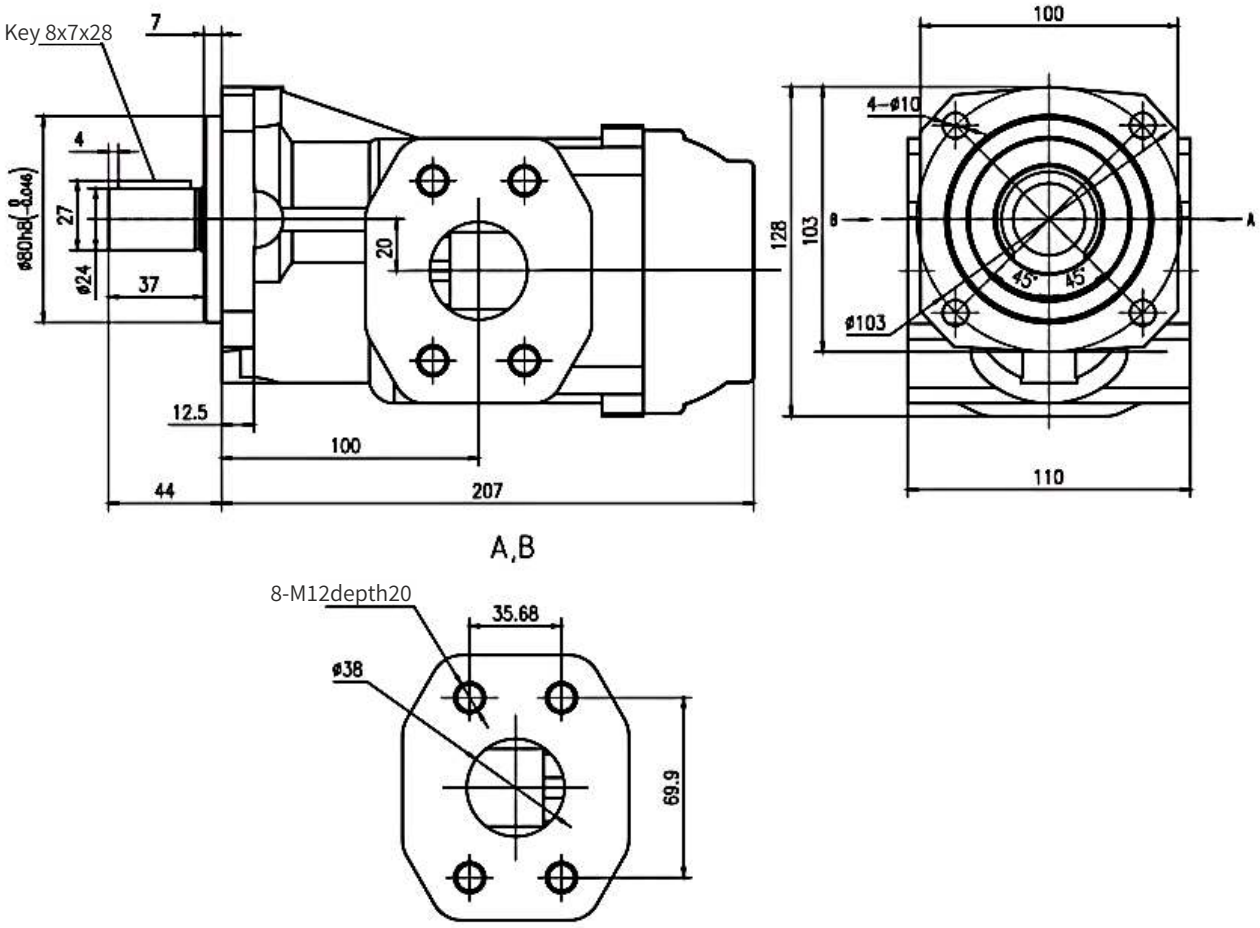
Marine Machinery Manufacturing

Filling Equipment Industry

Technical Parameters

Size			63	80	100	112	125	150	180	200	250	315
Displacement	Vg	cm^3/r	63.18	80.5	101.5	113.5	129.4	155.6	186.6	206.2	245.1	312.9
Rated Pressure	Pb	bar	25	25	25	25	25	25	25	25	25	25
Maximum Pressure	Pmax	bar	40	40	40	40	40	40	40	40	40	40
Range of speeds	nmin	L/min	200	200	200	200	200	200	200	200	200	200
	nmax	L/min	3600	3000	3000	3000	3000	3000	3000	2500	2000	2000
Allowed radial force	Fradial	N	1500	1500	1500	1500	1500	1500	1500	1500	2500	2500
Sound pressure level	dB(A)	P=5bar	≤67	≤67	≤67	≤67	≤65	≤65	≤65	≤65	≤75	≤75
		P=15bar	≤68	≤68	≤68	≤68	≤65	≤65	≤65	≤65	≤75	≤75
		P=25bar	≤68	≤68	≤69	≤69	≤65	≤65	≤65	≤65	≤75	≤75

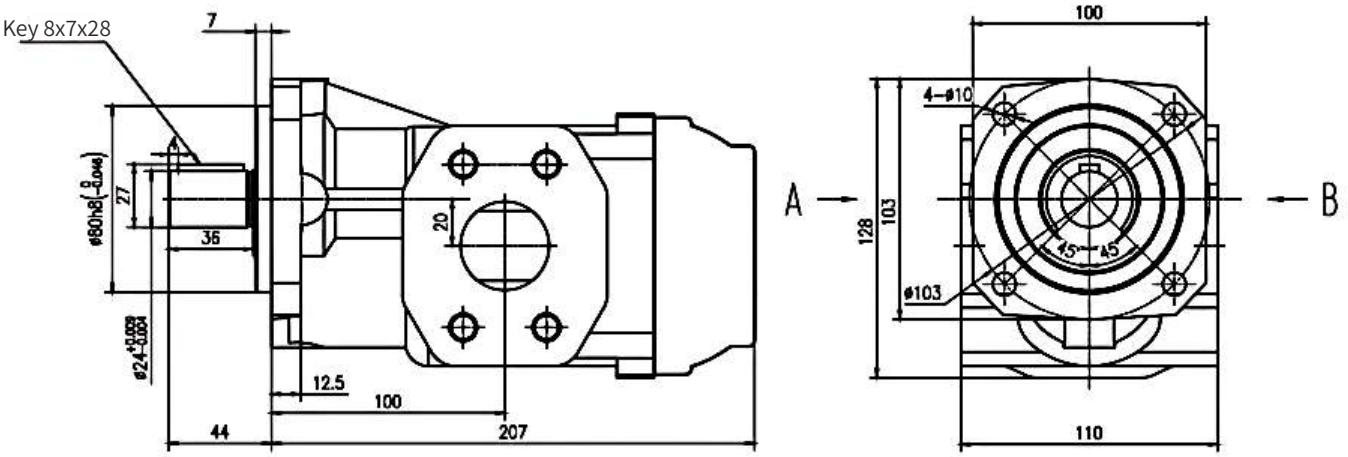
Unit Dimensions 63RF31

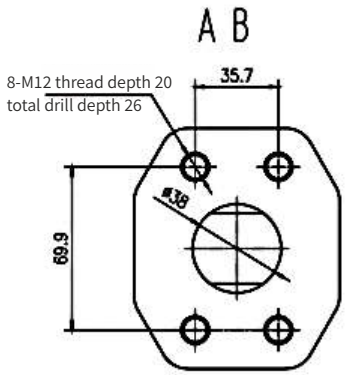


Oil Port

Actuator Port — Flange: SAE J518, 1-1/2 in (Standard series)
Fixing thread — M12, depth 20 mm

Unit Dimensions 80RF2

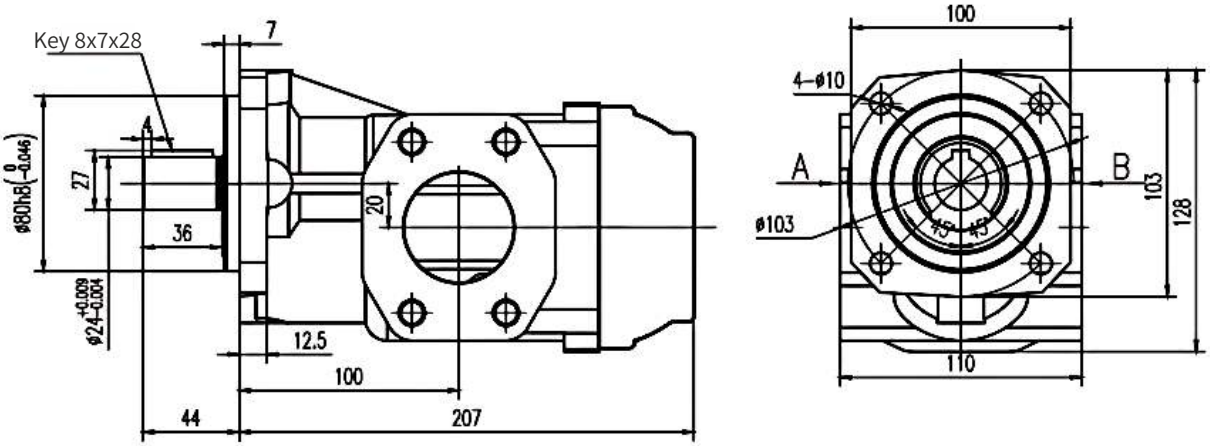


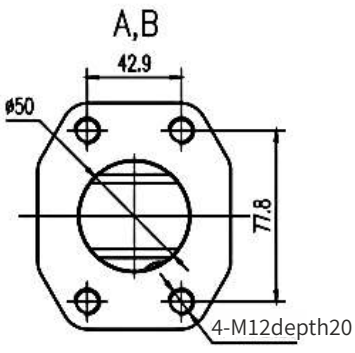


Oil Port

Actuator Port — Flange: SAE J518, 1-1/2 in (Standard series)
Fixing thread — M12, depth 20 mm

Unit Dimensions 80RF31

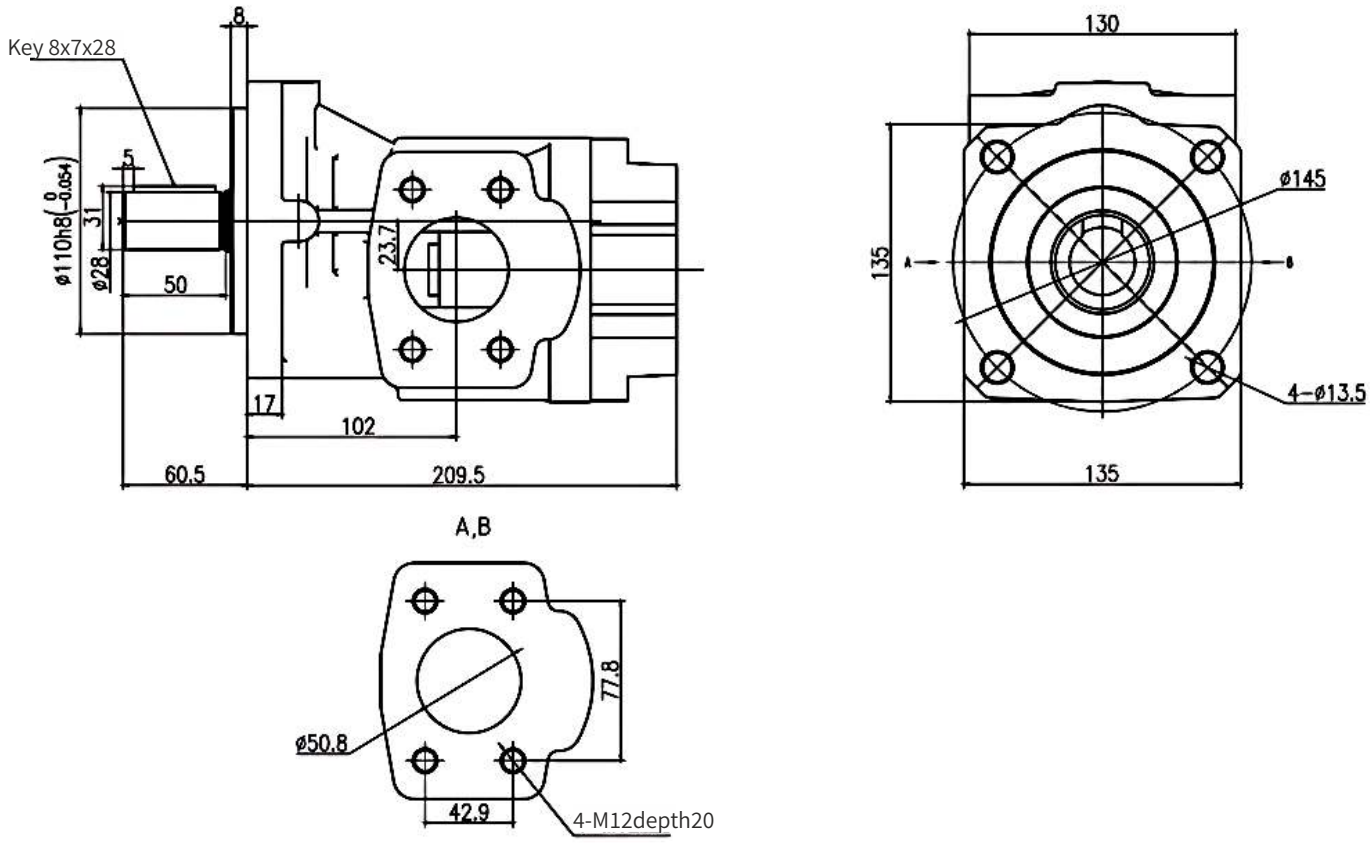




Oil Port

Actuator Port — Flange: SAE J518, 2 in (Standard series)
Fixing thread — M12, depth 20 mm

Unit Dimensions 100RF2

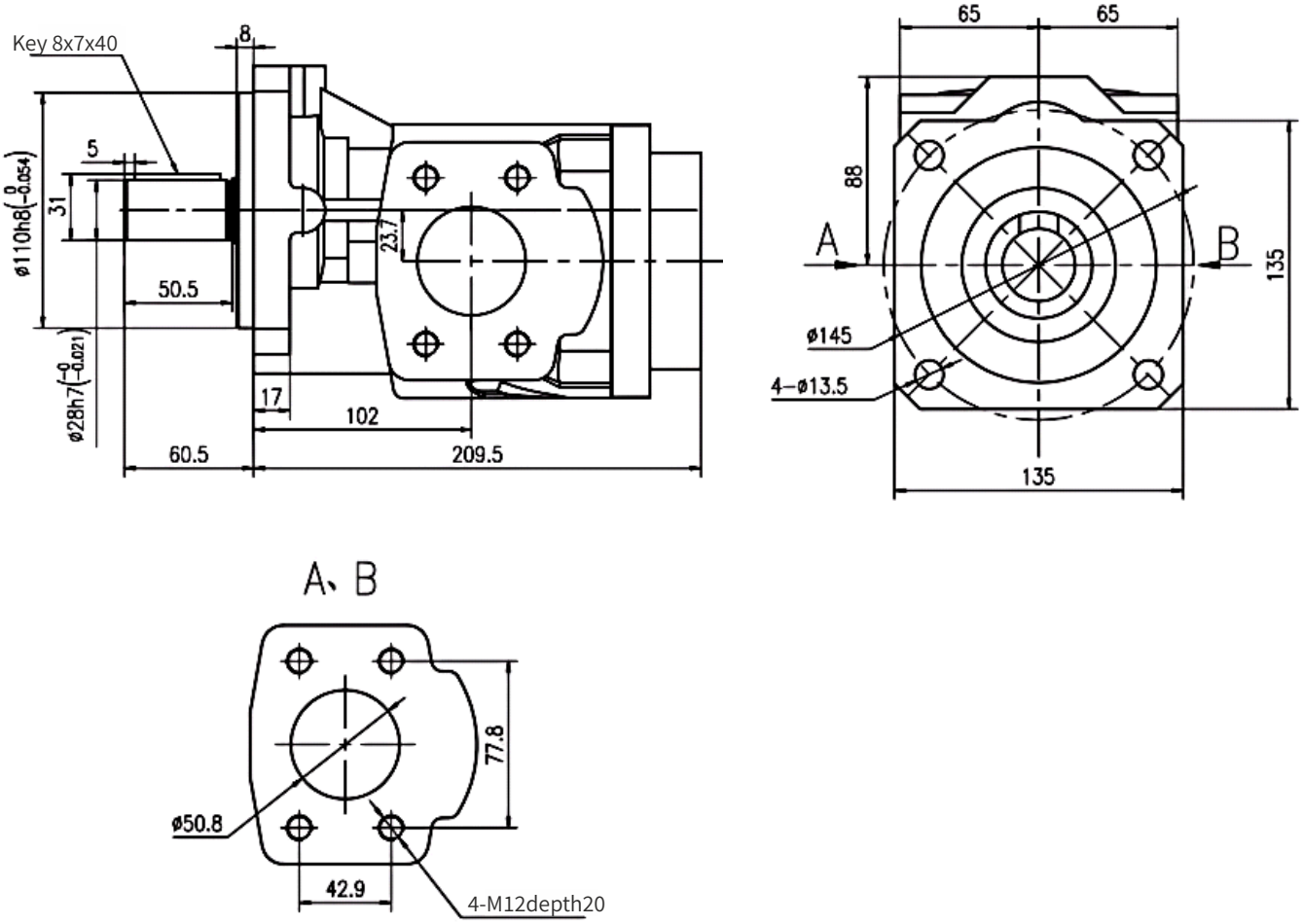


Oil Port

Actuator Port — Flange: SAE J518, 2 in (Standard series)

Fixing thread — M12, depth 20 mm

Unit Dimensions 112RF2

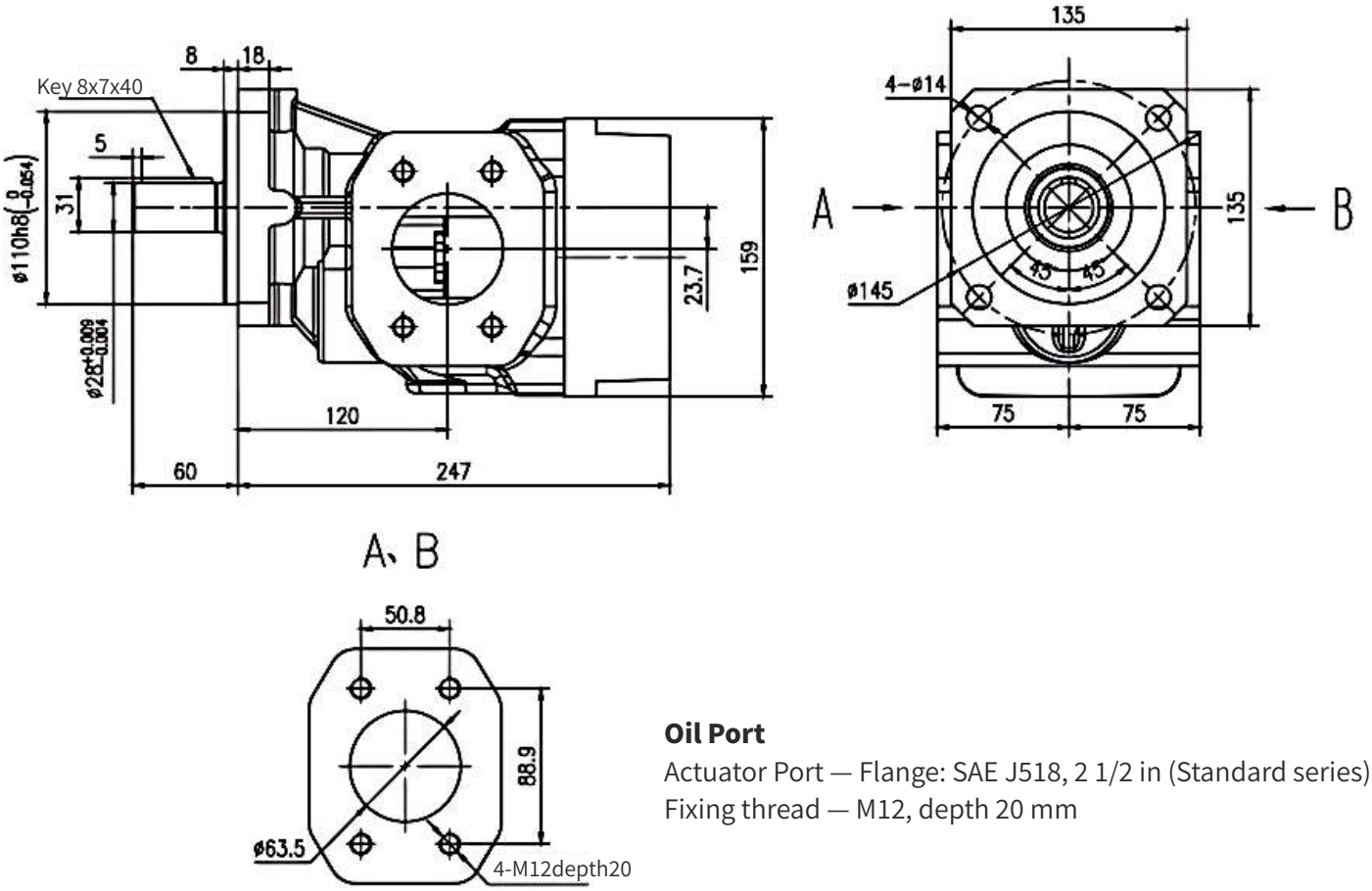


Oil Port

Actuator Port — Flange: SAE J518, 2 in (Standard series)

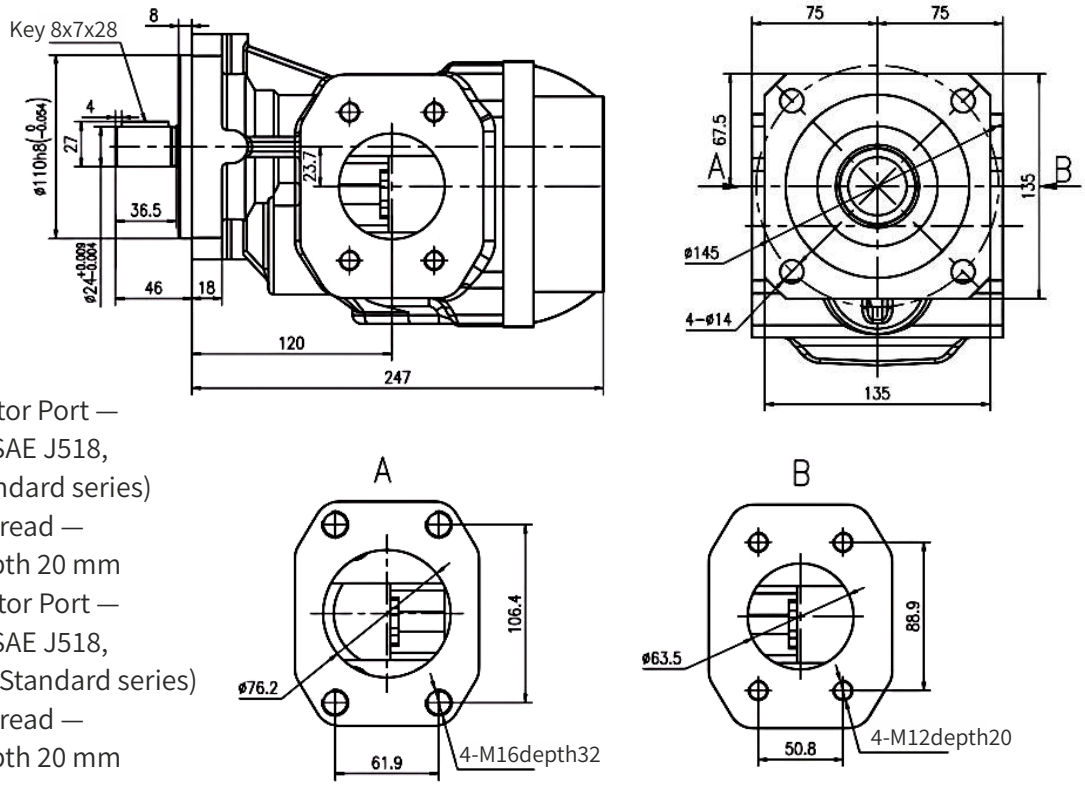
Fixing thread — M12, depth 20 mm

Unit Dimensions 125RF2



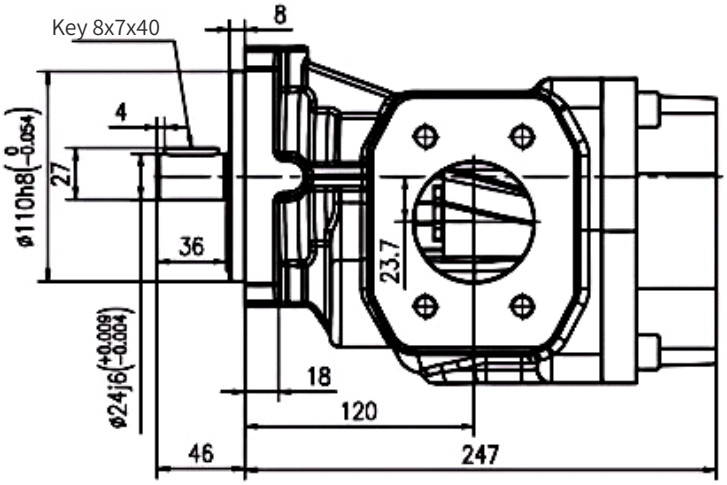
Oil Port
Actuator Port — Flange: SAE J518, 2 1/2 in (Standard series)
Fixing thread — M12, depth 20 mm

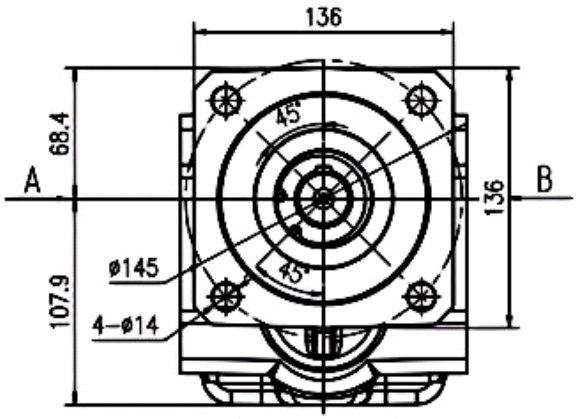
Unit Dimensions 125RF31

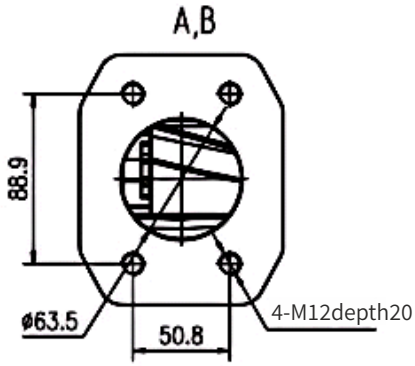


Oil Port
A: Actuator Port — Flange: SAE J518, 3 in (Standard series) Fixing thread — M12, depth 20 mm
B: Actuator Port — Flange: SAE J518, 2 1/2 in (Standard series) Fixing thread — M12, depth 20 mm

Unit Dimensions 150RF2





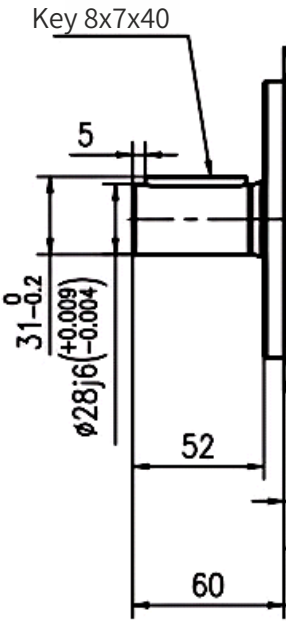


Oil Port

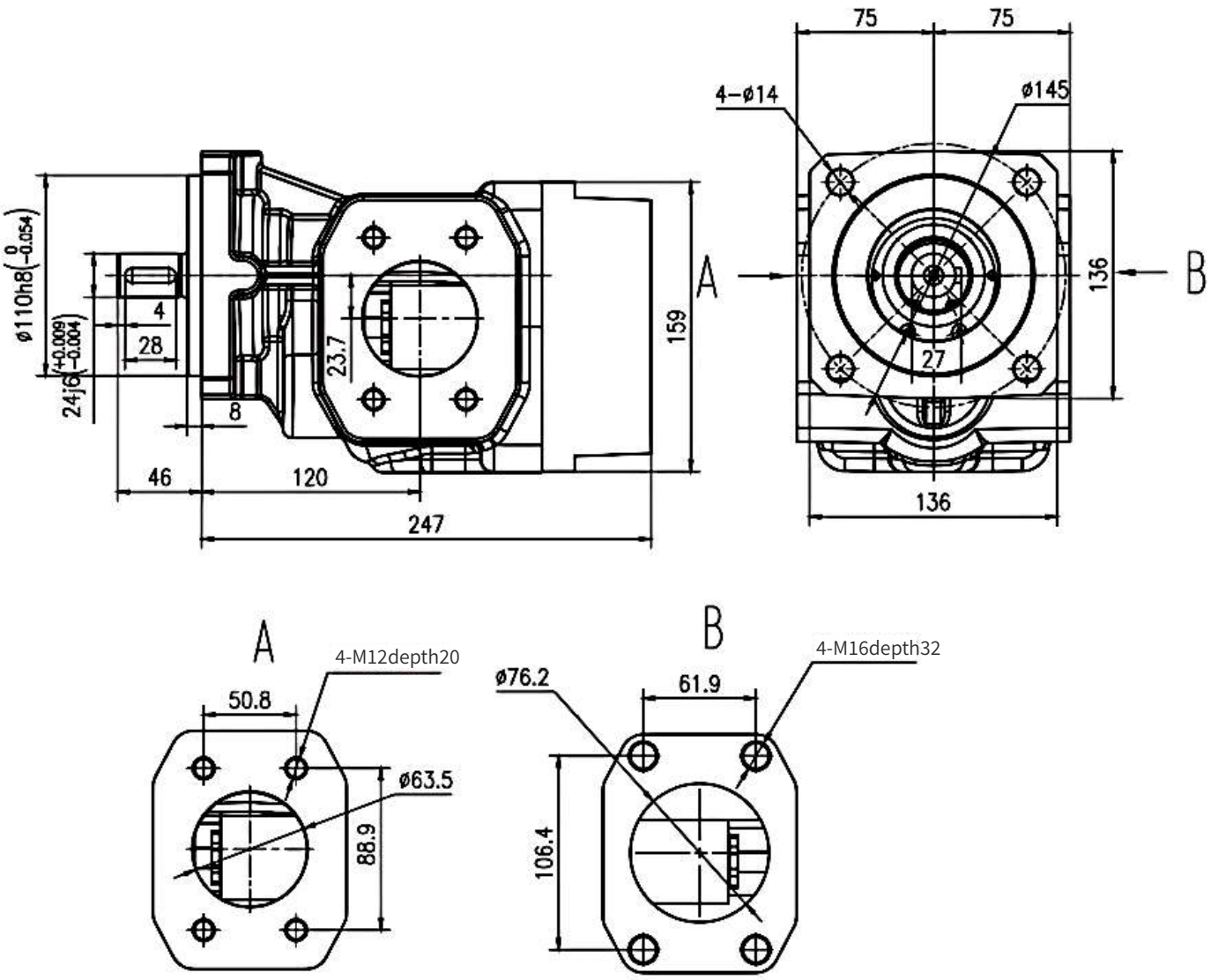
Actuator Port — Flange: SAE J518, 2 1/2 in (Standard series)
Fixing thread — M12, depth 20 mm

Shaft

RF2 DIN6885, A8x7x40



Unit Dimensions 150RF31

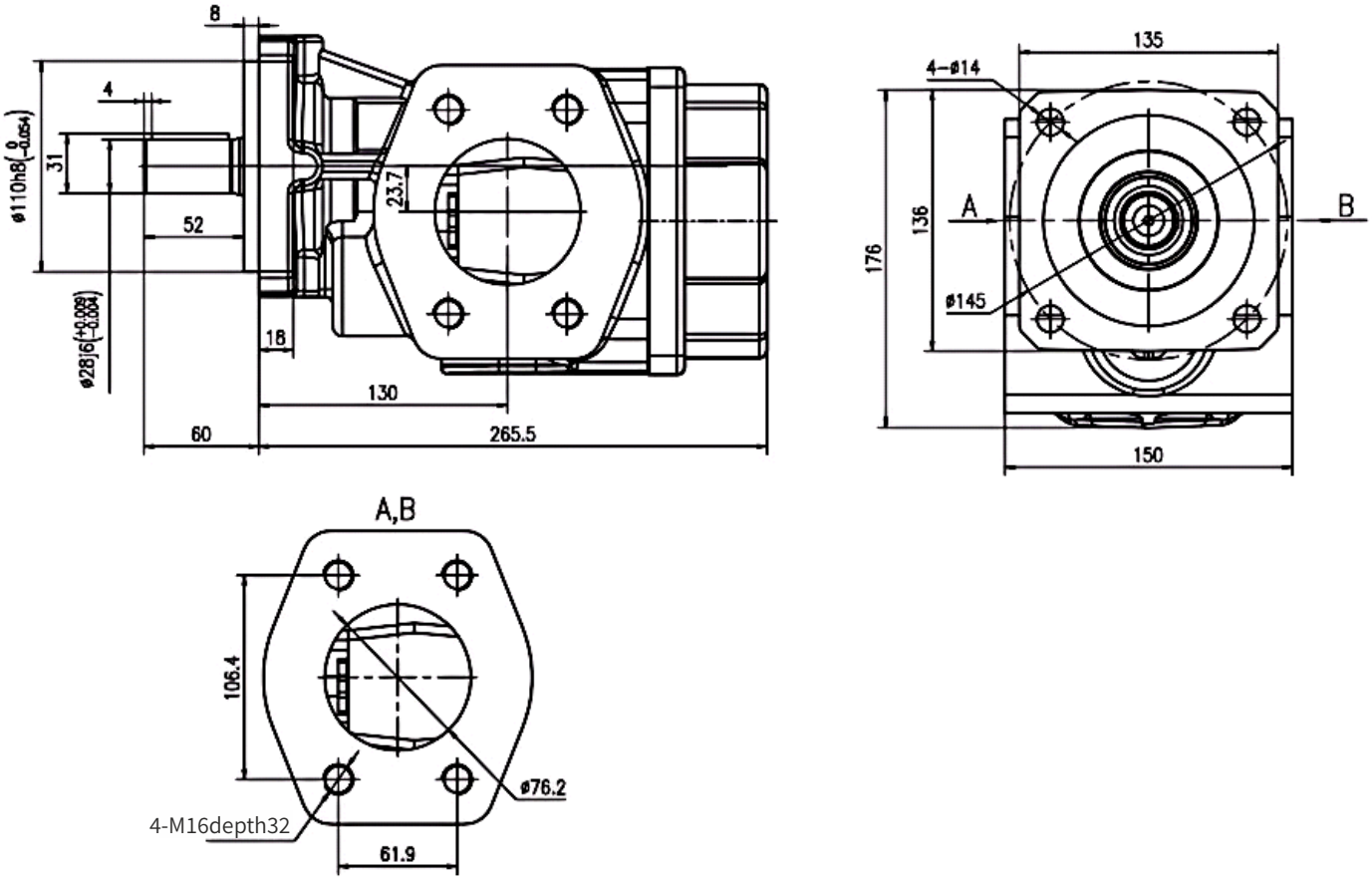


Oil Port

A Actuator Port — Flange SAE J518 2½ in (Standard series)Fixing thread M16, depth 32

B Actuator Port — Flange SAE J518 3 in (Standard series)Fixing thread M12, depth 20

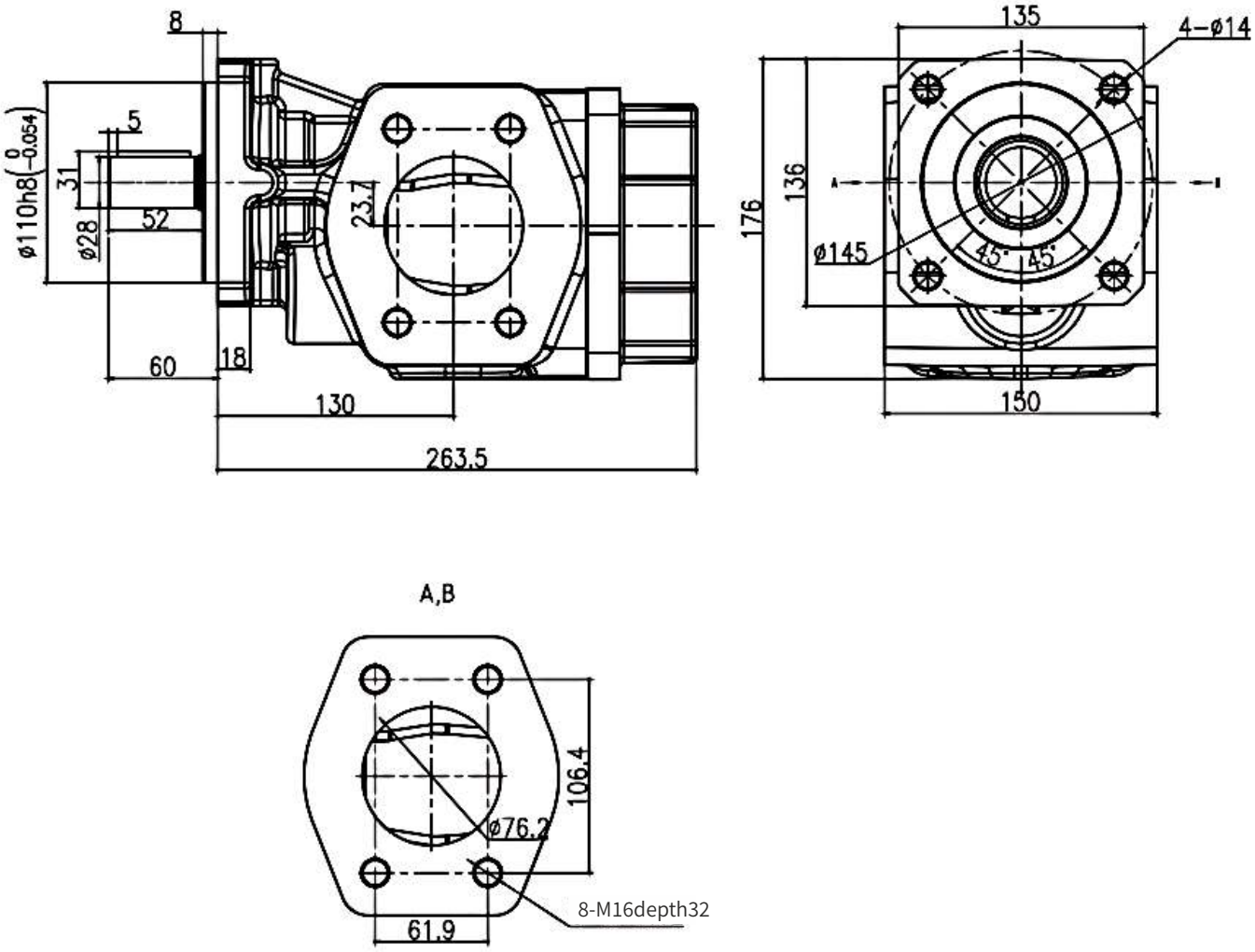
Unit Dimensions 180RF2



Oil Port

A Actuator Port — Flange SAE J518 3 in (Standard series)Fixing thread M16, depth 32

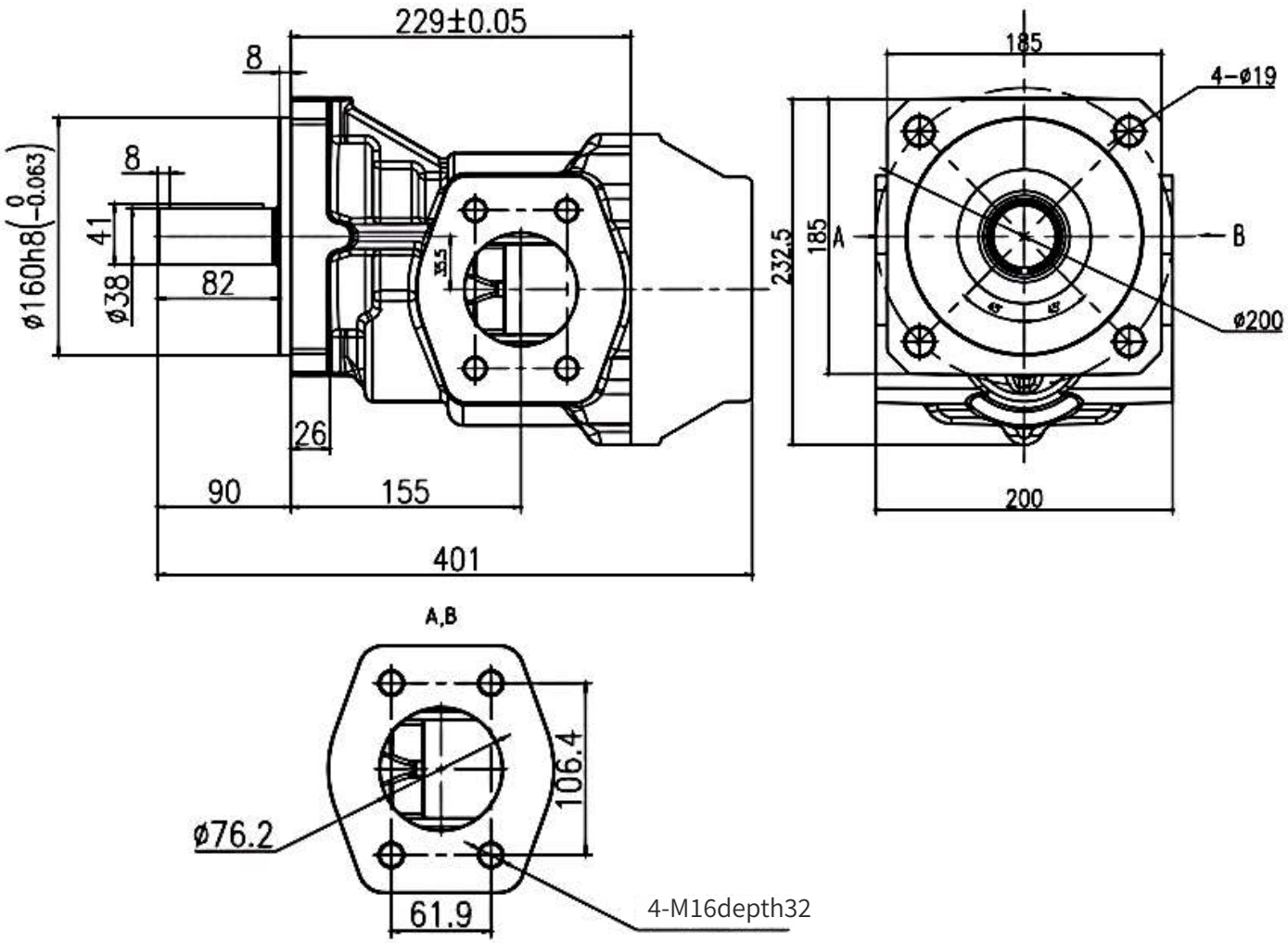
Unit Dimensions 200RF2



Oil Port

Actuator Port — Flange SAE J518 3 in (Standard series)Fixing thread M16, depth 32

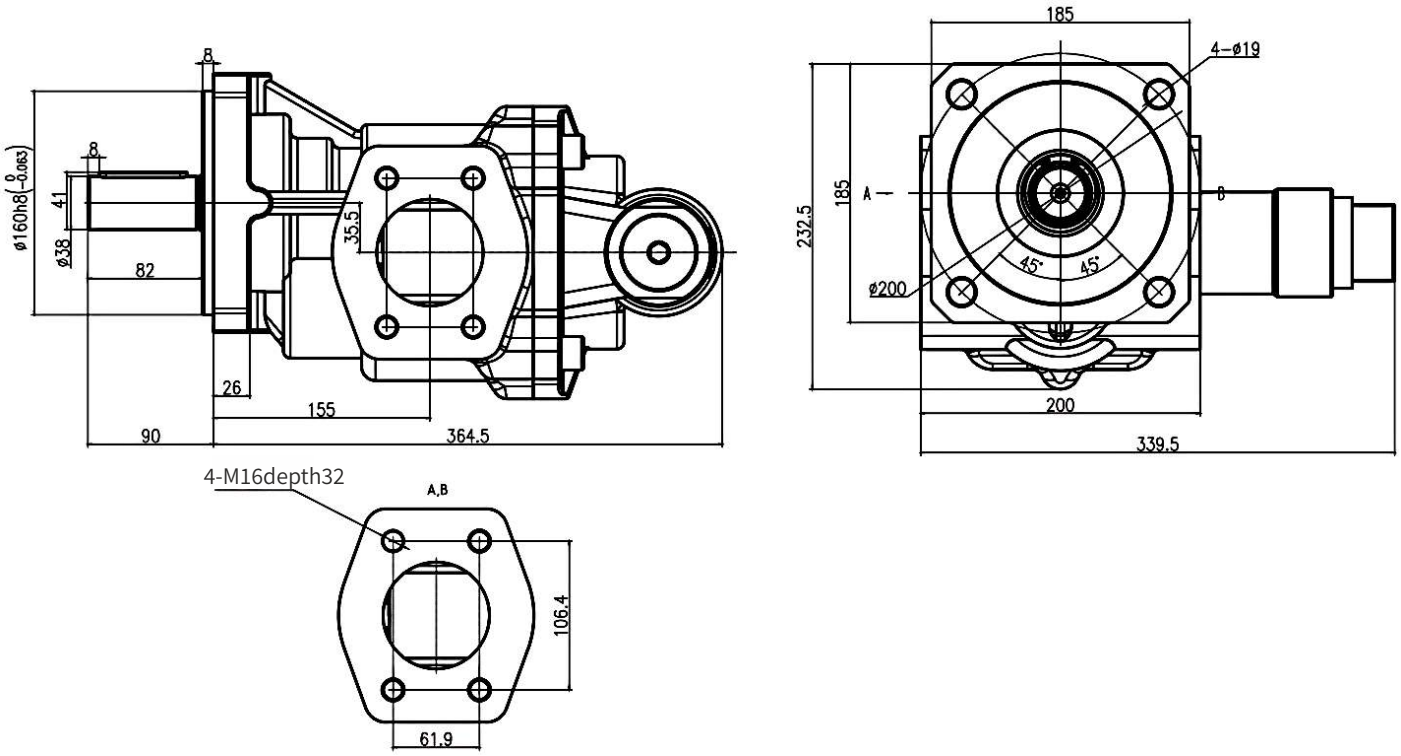
Unit Dimensions 250RF2



Oil Port

Actuator Port — Flange SAE J518 3 in (Standard series)Fixing thread M16, depth 32

Unit Dimensions 315RF2



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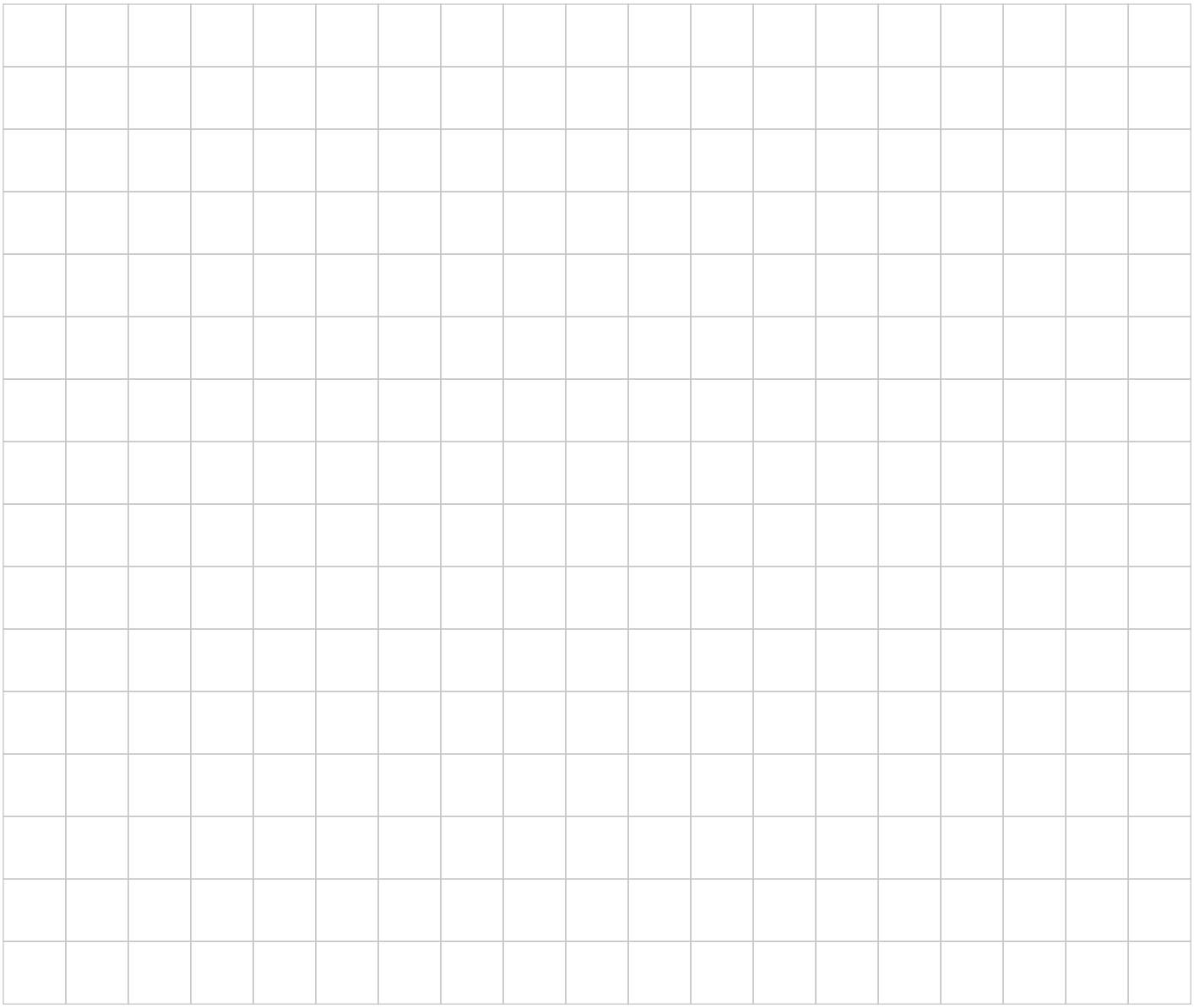
Actuator Port — Flange SAE J518 3 in (Standard series)Fixing thread M16, depth 32



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

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