

A2FO (ISO) Bent Axis Pumps

ISO Mounting Flange High Pressure Bent Axis Pump

High Pressure Hydraulic Bent Axis Piston Pumps, High Pressure, 350/400 BAR Working Pressure. High Rotational Speed, High Efficiency, Slim Design, Cast Iron Pump Body, Re-Designed.

Designation;

5cc, 10cc, 12cc, 18cc, 25cc, 32cc, 41cc, 50cc,
56cc, 63cc, 80cc, 108cc, 125cc, 160cc, 180cc



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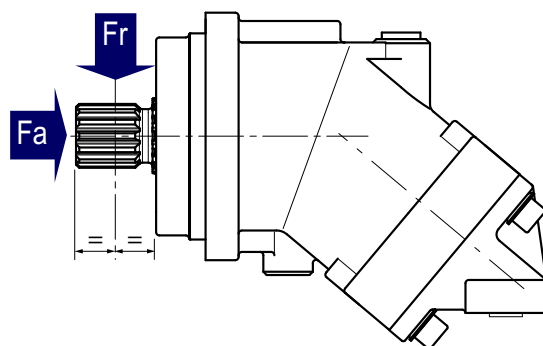
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Characteristics of the A2FO - ISO Flange Bent Axis Pumps

Pump MODEL	DISPL. (cc)	CONTINUOUS MAX. SPEED (rpm)	INTERMITTENT MAX. SPEED (rpm)	MAX. FLOW ABSORBED (l/min)	TORQUE BAR (m.N/bar)	TORQUE AT 350 BAR (m.N)	THEORETICAL MAX. POWER AT 400 BAR (HP / kW)	MAX. ALLOW PRESSURE CONTN./PEAK (bar)	WEIGHT (kg)
5 cc	5.1	8800	9600	45	0.09	46	64.1 / 48.2	400 / 450	5.2
10 cc	10.2	8600	9400	88	0.14	58	72.9 / 54.4	400 / 450	5.5
12 cc	12.0	8000	8800	96	0.19	67	85.5 / 64.4	400 / 450	5.5
18 cc	18.0	8000	8800	144	0.28	99	128.5 / 95.9	400 / 450	5.5
25 cc	25.0	6300	6900	158	0.40	139	140.0 / 104.4	400 / 450	11.4
32 cc	32.0	6300	6900	202	0.50	178	180.5 / 134.4	400 / 450	11.5
41 cc	41.0	5600	6200	230	0.65	228	205.2 / 153.1	400 / 450	11.6
45 cc	45.0	5600	6200	252	0.72	253	202.4 / 151.8	400 / 450	17.9
50 cc	50,3	5000	5500	252	0.80	280	224.1 / 167.5	400 / 450	18.1
56 cc	56,0	5000	5500	280	0.90	320	244.5 / 187.1	400 / 450	18.1
63 cc	63.0	5000	5500	315	1.00	351	281.6 / 209.1	400 / 450	18.2
80 cc	80,4	4500	5000	362	1.27	447	323.6 / 241.5	400 / 450	23.1
90 cc	90,1	4500	5000	405	1.43	500	361.5 / 269.9	400 / 450	23.2
108 cc	108	4000	4400	435	1.70	598	328.8 / 245.6	400 / 450	35.2
125 cc	125	3400	4400	428	2.00	698	382.6 / 284.6	400 / 450	38.8
160 cc	160	3400	4000	486	2.55	890	514.6 / 383.9	400 / 450	48.6
180 cc	180	3400	4000	612	2.86	1004	581.2 / 433.6	400 / 450	52.6



Pump model	5, 10, 12	18 cc	25 cc	32 cc	41. 45	50 cc	56, 63cc	80,90,108	125 cc	160, 180
Fr (lbf)	630	900	1350	1462.5	1462.5	1686	2023	2812	3262	4500
Fr (N/bar)	2800	4000	6000	6500	6500	7500	9000	12500	14500	20000
Fa (lbf)	0.23	0.31	0.42	0.46	0.62	0.62	0.77	1.24	1.33	1.47
Fa (N/bar)	(15)	(20)	(27)	(30)	(40)	(40)	(50)	(80)	(86)	(95)

Ordering Code; A2FO - ISO Flange Bent Axis Pumps

Model Code

A2FO

Bent Axis Hydraulic Piston Pump
(ISO) Mounting Flange

Displacement

63

5	10	12	18	25	32	41	45	50	56	63	80	90	108	125	160	180
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Flange Type
4 bolts ISO 3019-2

4B

4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
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Shaft Type
Keyed or Splined

S14

S18	S18	S18	S18	S18	S18	S18	S16	S16	S16	S16	S18	S18	S18	S18	S24	S24
K25	K25	K25	K25	S14	S14	S14	S14	S14	S14	S14	S16	S16	S16	S21	K50	K50
K20	K20	K20	K20	K25	K25	K25	K30	K30	K30	K30	K40	K40	K40	K40		
				K30	K30	K30	K35	K35	K35	K35				K45		

Rear Cover Type

RD1

SLR	SLR	SLR	SLR	SLR	SLR	SLR	SLR	SLR	SLR	SLR						
RS1	RS1	RS1	RS1	RD1	RD1	RD1	RD1	RD1	RD1	RD1	RD1	SLR	SLR	SLR	SLR	SLR
RS2	RS2	RS2	RS2	RD2	RD2	RD2	RD2	RD2	RD2	RD2	RD2	RD1	RD1	RD1	RD1	RD1
				SD2	SD2	SD2	SD2	SD2	SD2	SD2	SD2	SD2	SD2	SD2		

Direction of Rotation

CW

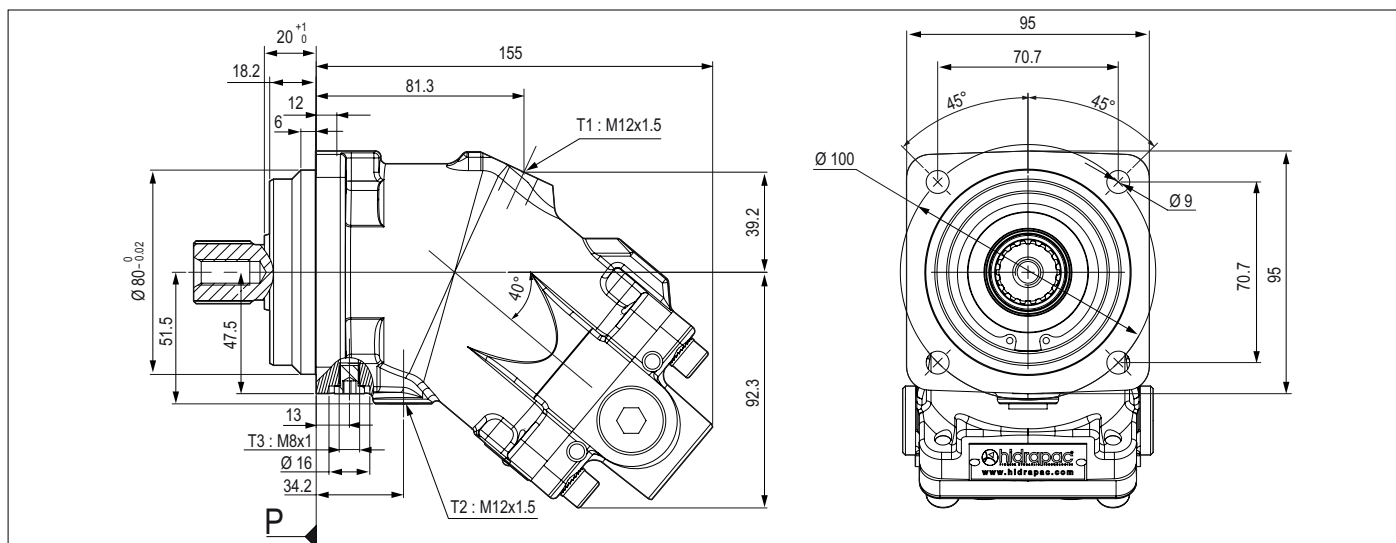
CW	Right Rotation	CCW	Left Rotation
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Seal Options

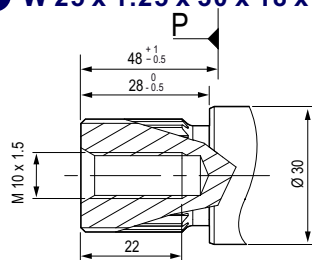
V

V	Viton Seals	N	Nitrile Seals	H	High Pressure Seals
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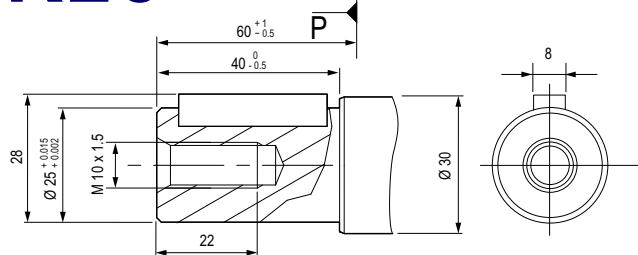
A2FO - 5 cc (ISO) Bent Axis Pump



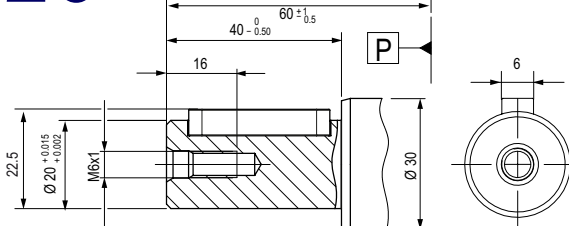
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



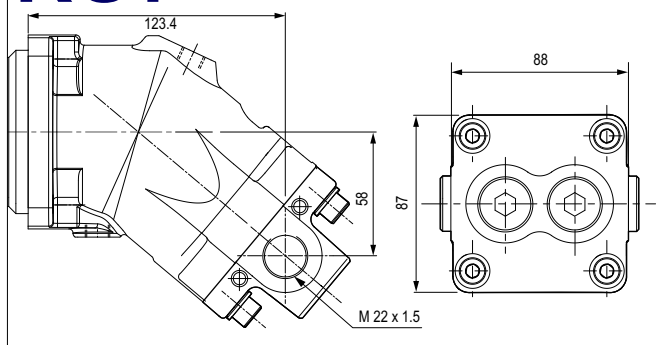
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 32



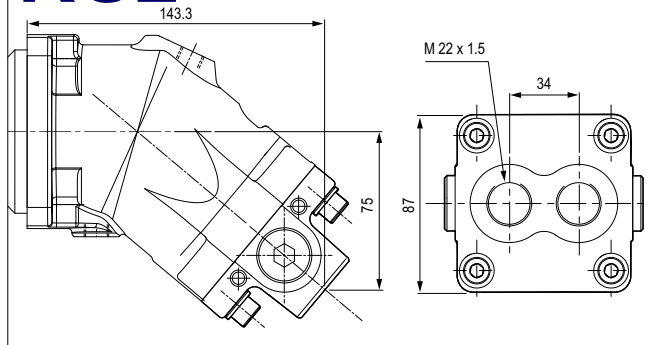
K20 Cylindrical keyed shaft Ø 20 DIN 6885 AS 6 x 6 x 32



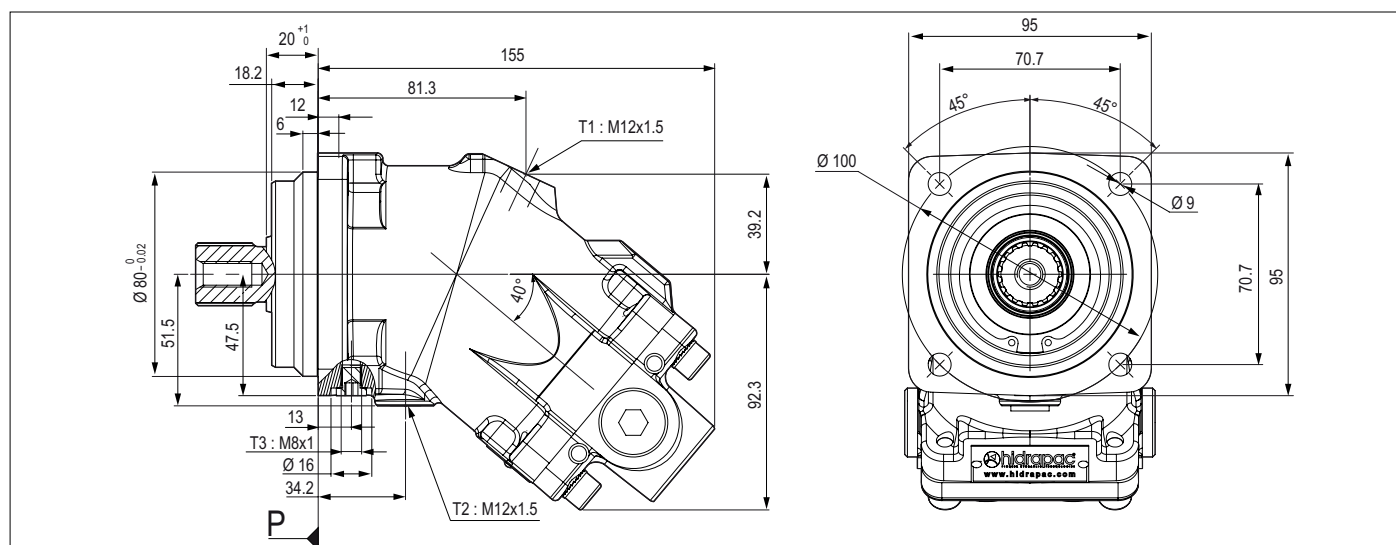
RS1 Side threaded ports A and B



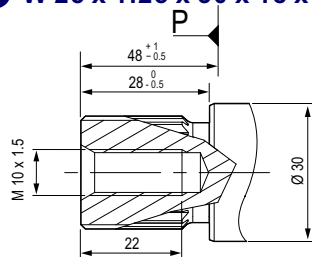
RS2 Rear threaded ports A and B



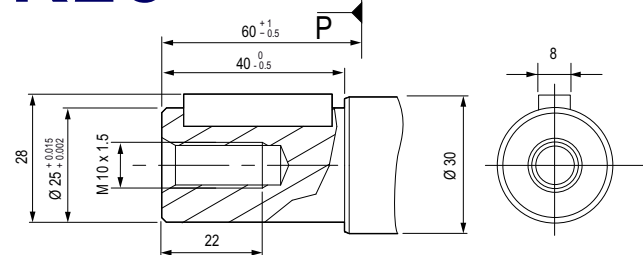
A2FO - 10 cc (ISO) Bent Axis Pump



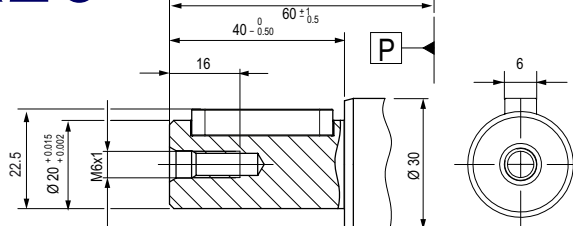
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



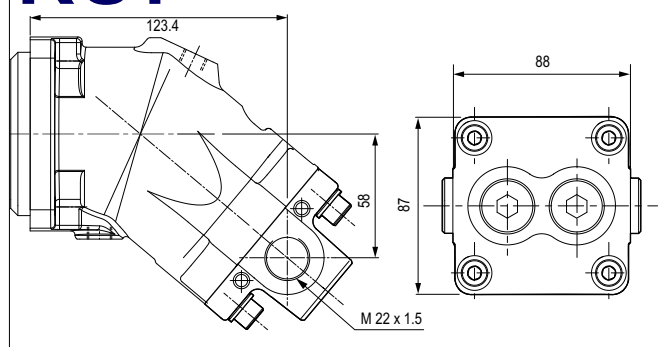
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 32



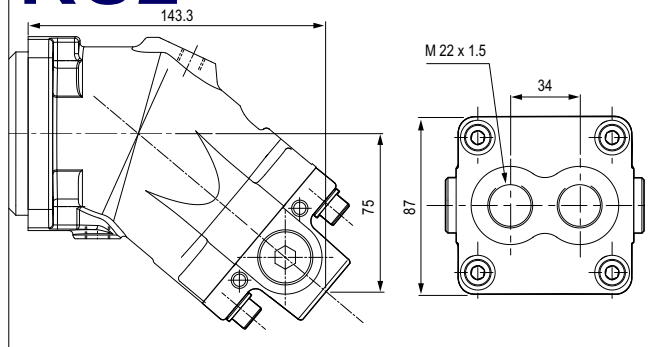
K20 Cylindrical keyed shaft Ø 20 DIN 6885 AS 6 x 6 x 32



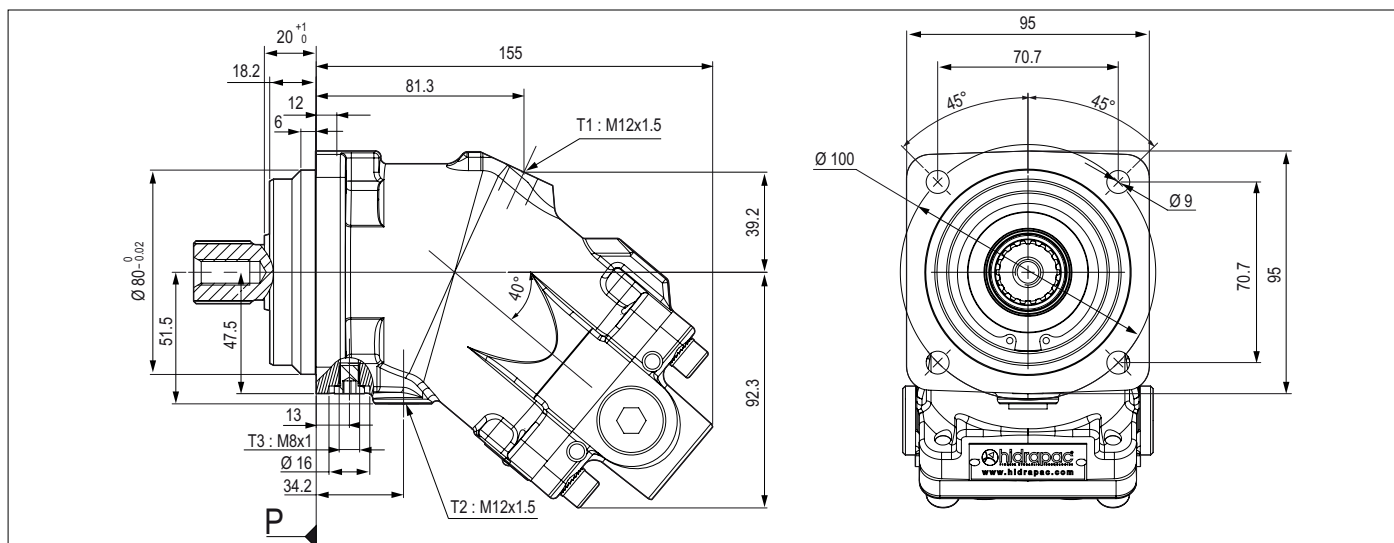
RS1 Side threaded ports A and B



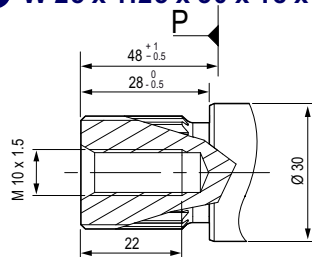
RS2 Rear threaded ports A and B



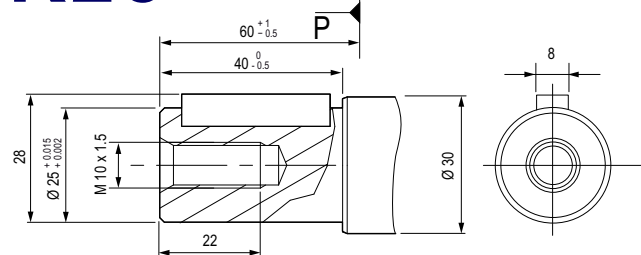
A2FO - 12 cc (ISO) Bent Axis Pump



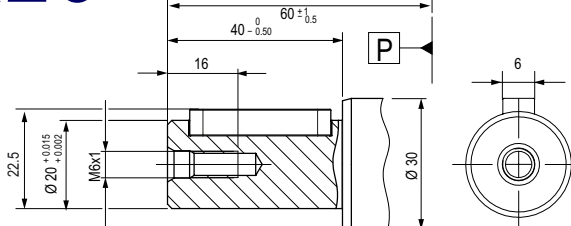
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



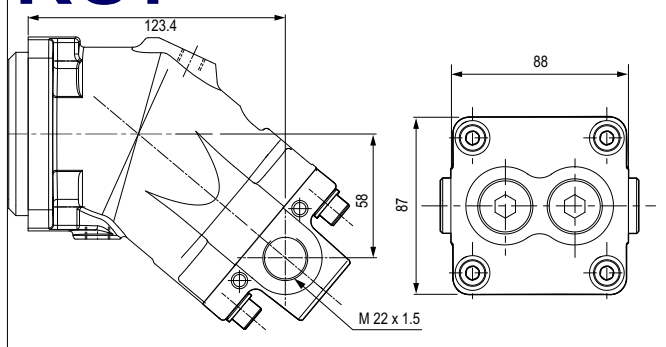
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 32



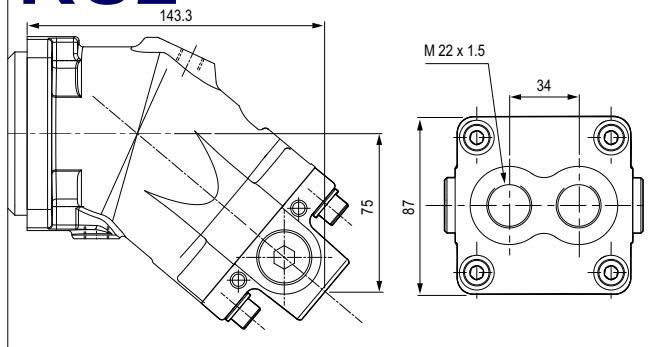
K20 Cylindrical keyed shaft Ø 20 DIN 6885 AS 6 x 6 x 32



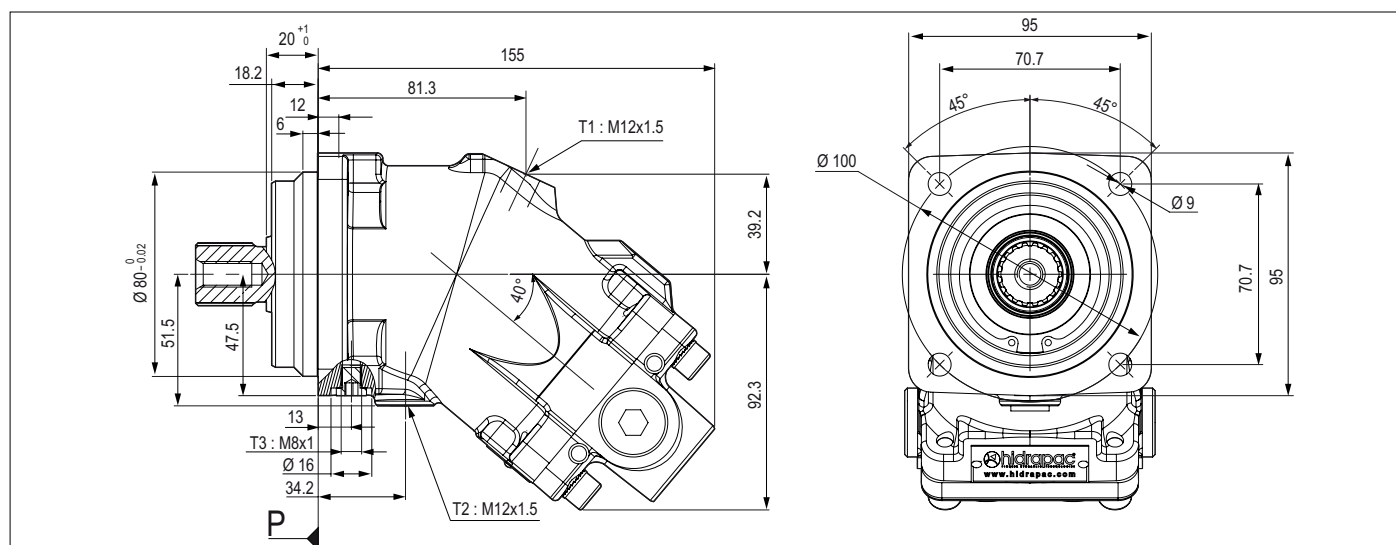
RS1 Side threaded ports A and B



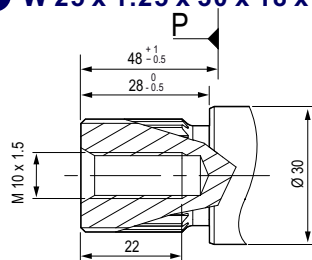
RS2 Rear threaded ports A and B



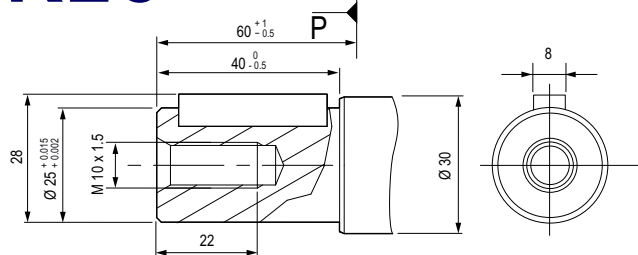
A2FO - 18 cc (ISO) Bent Axis Pump



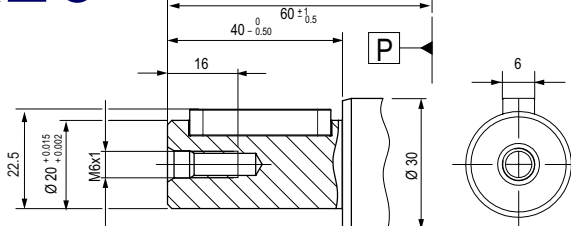
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



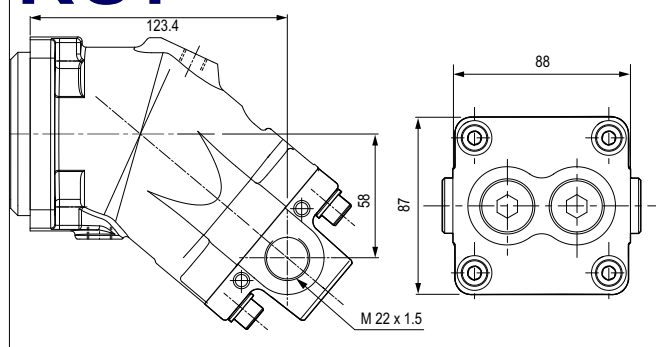
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 32



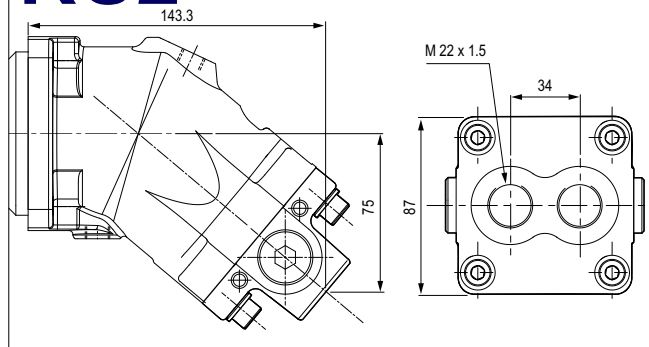
K20 Cylindrical keyed shaft Ø 20 DIN 6885 AS 6 x 6 x 32



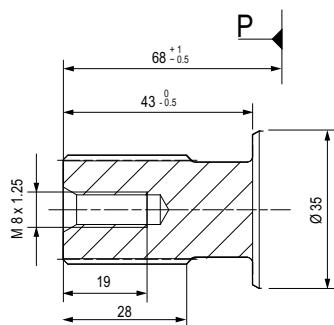
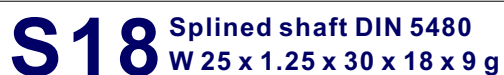
RS1 Side threaded ports A and B



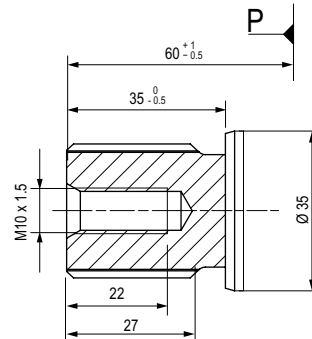
RS2 Rear threaded ports A and B



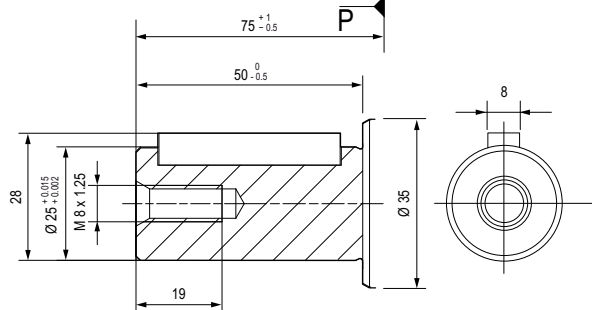
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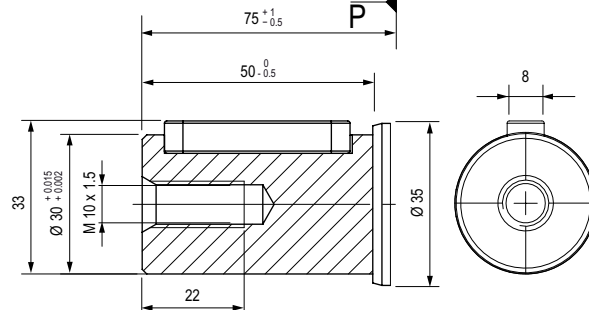
S14 Splined shaft DIN 5480
W 30 x 2 x 30 x 14 x 9 g



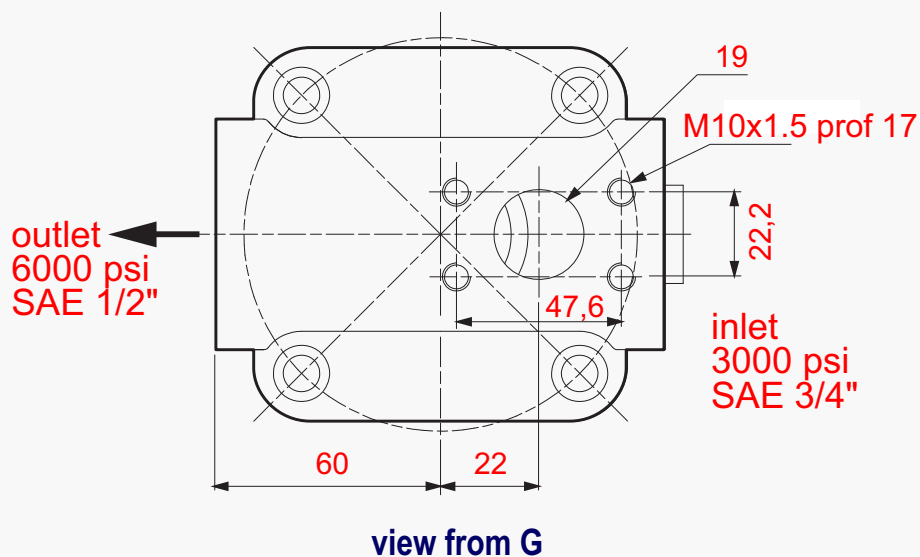
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 40



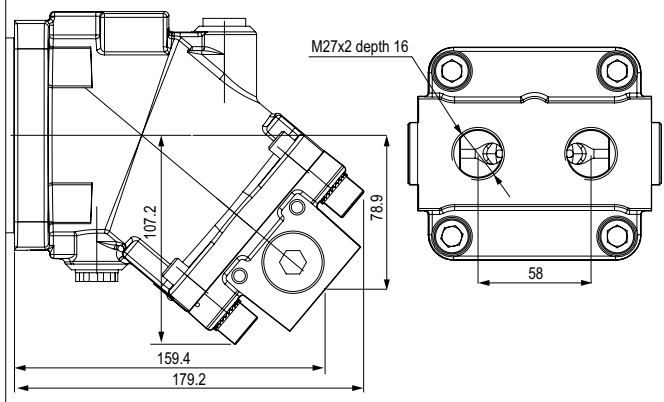
K30 Cylindrical keyed shaft Ø 30 DIN 6885 AS 8 x 7 x 40



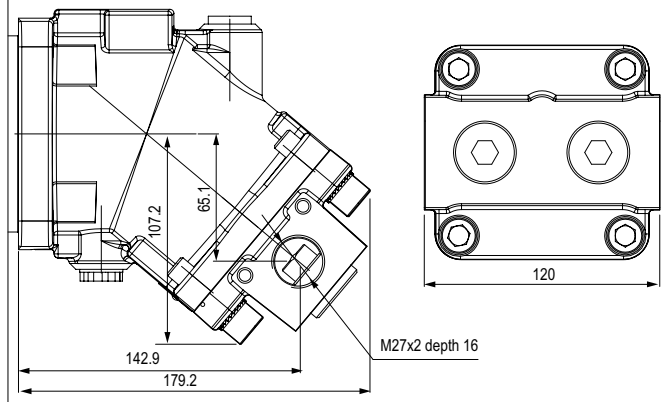
SLR



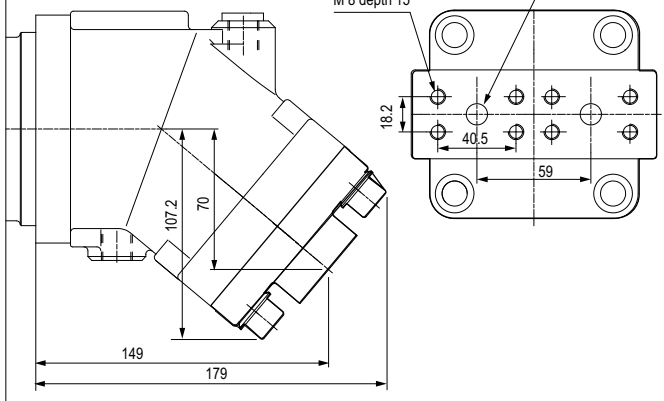
RD2 Rear threaded ports A and B



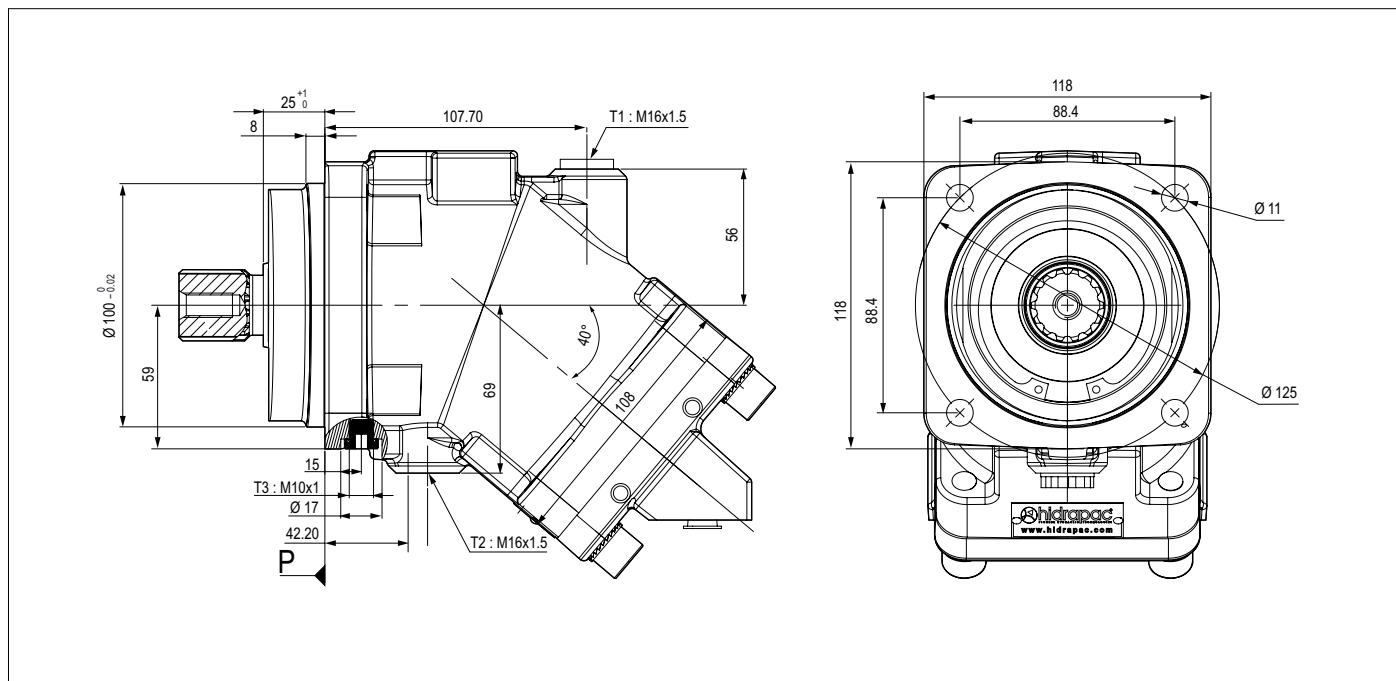
SD2 Side threaded ports A and B



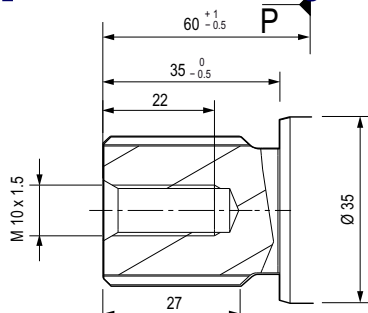
RD1 Rear flange ports A and B SAE 1/2" 6000 psi



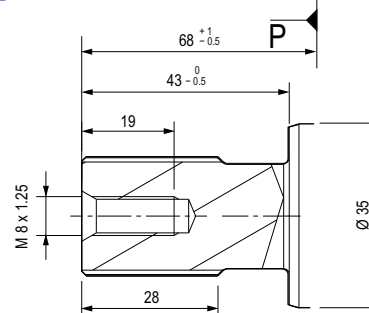
A2FO - 32 cc (ISO) Bent Axis Pump



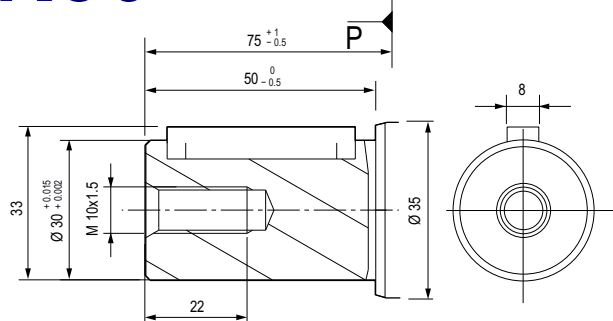
S14 Splined shaft DIN 5480 W 30 x 2 x 30 x 14 x 9 g



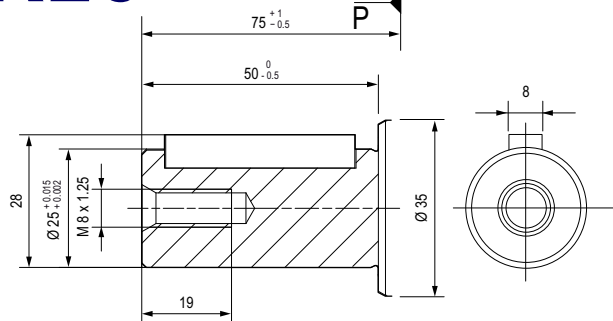
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



K30 Cylindrical keyed shaft Ø 30 DIN 6885 AS 8 x 7 x 40



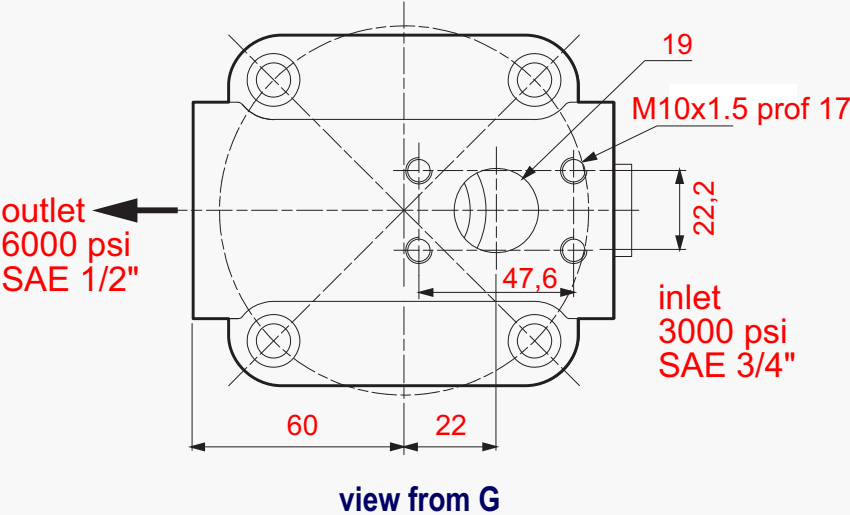
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 40



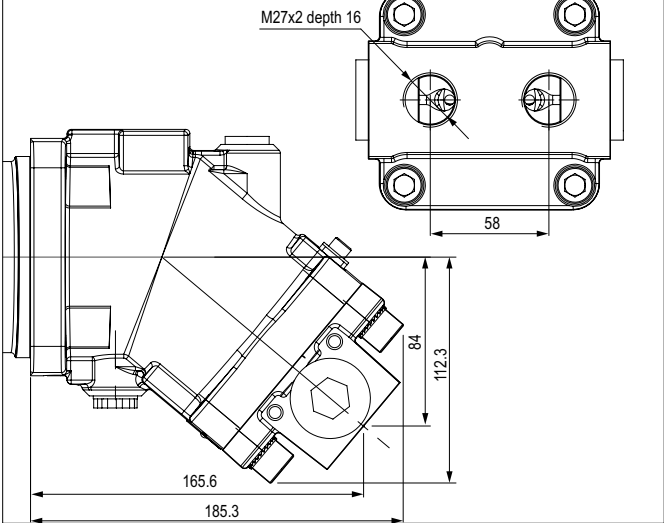
A2FO - 32 cc (ISO) Bent Axis Pump



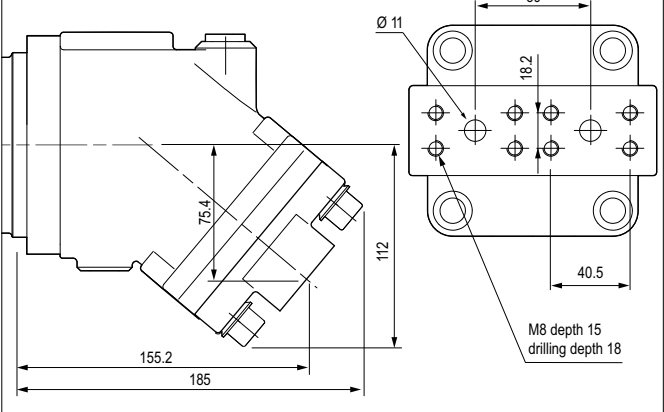
SLR



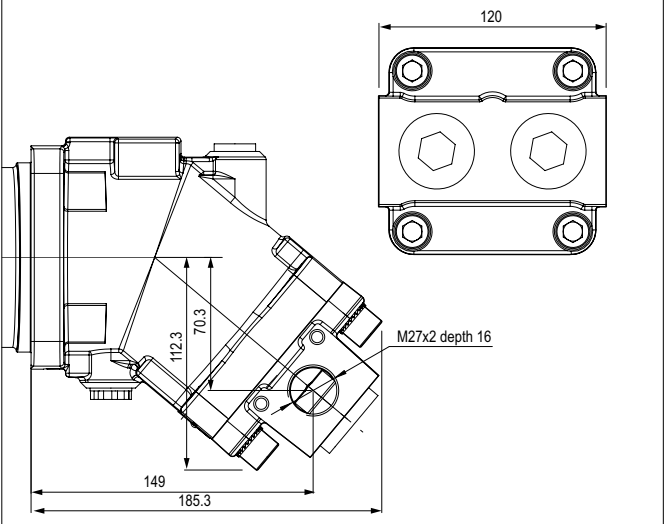
RD2 Rear threaded ports



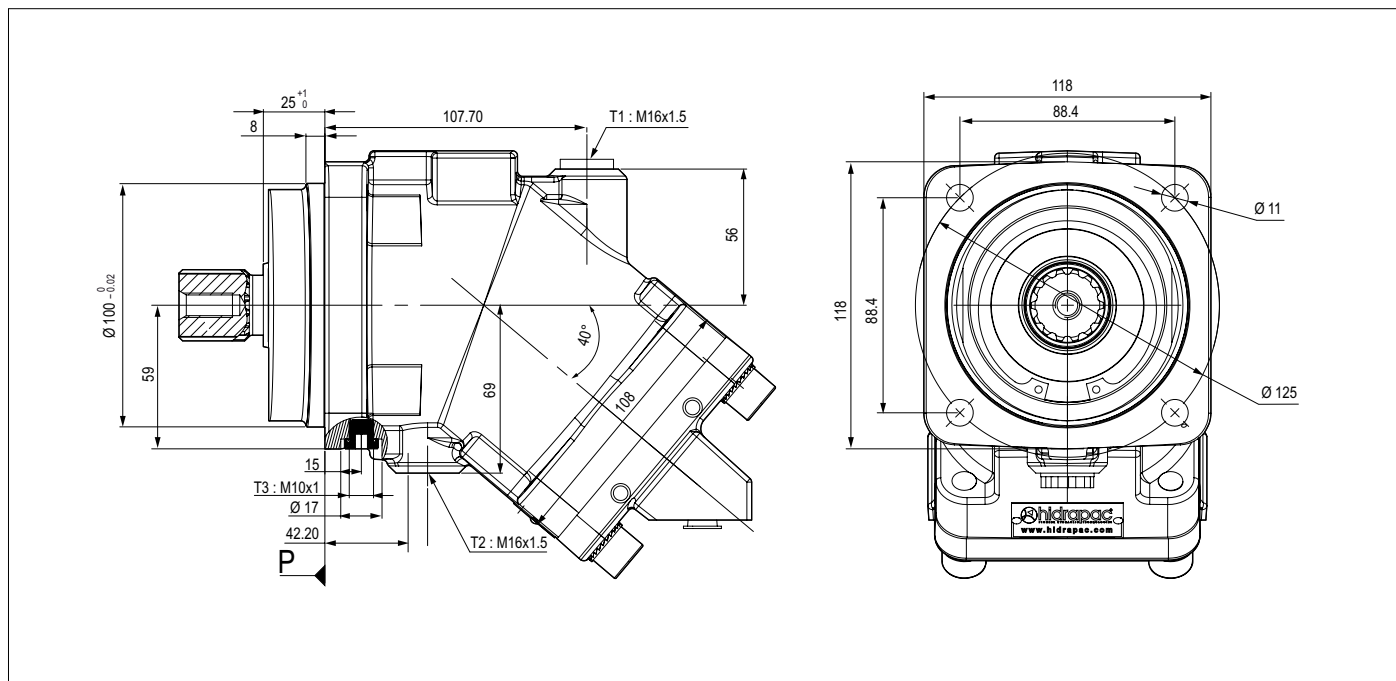
RD1 Rear flange ports SAE 1/2" 6000 psi



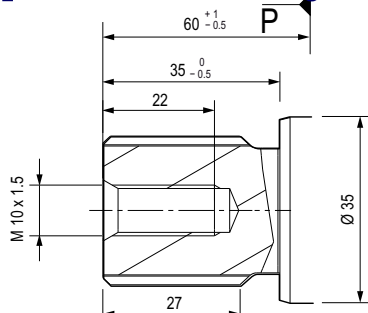
SD2 Side threaded ports A and B



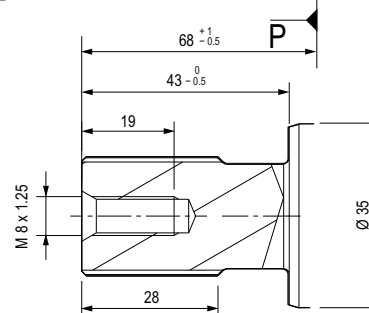
A2FO - 41 cc (ISO) Bent Axis Pump



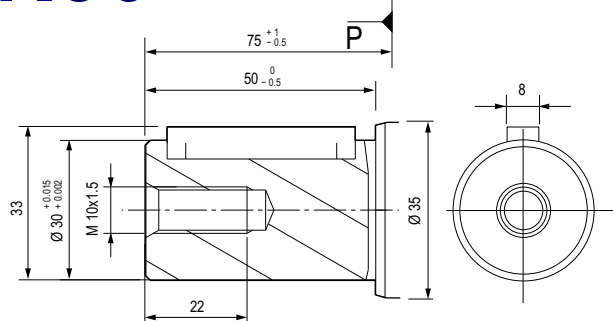
S14 Splined shaft DIN 5480 W 30 x 2 x 30 x 14 x 9 g



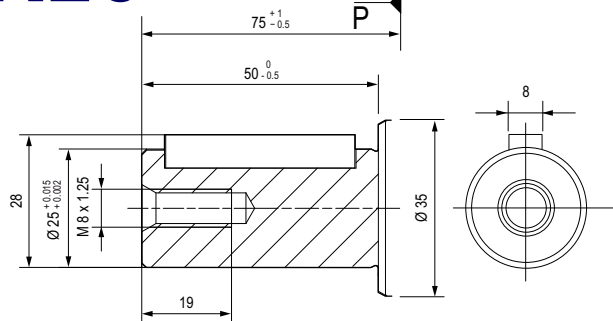
S18 Splined shaft DIN 5480 W 25 x 1.25 x 30 x 18 x 9 g



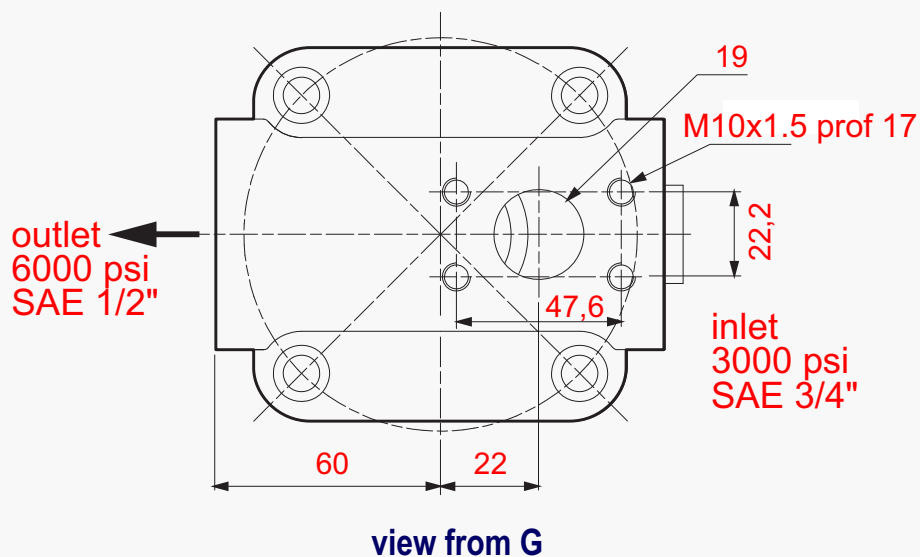
K30 Cylindrical keyed shaft Ø 30 DIN 6885 AS 8 x 7 x 40



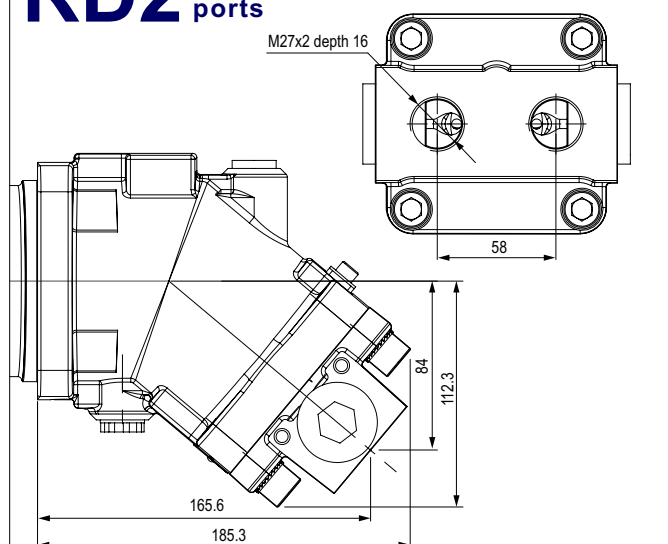
K25 Cylindrical keyed shaft Ø 25 DIN 6885 AS 8 x 7 x 40



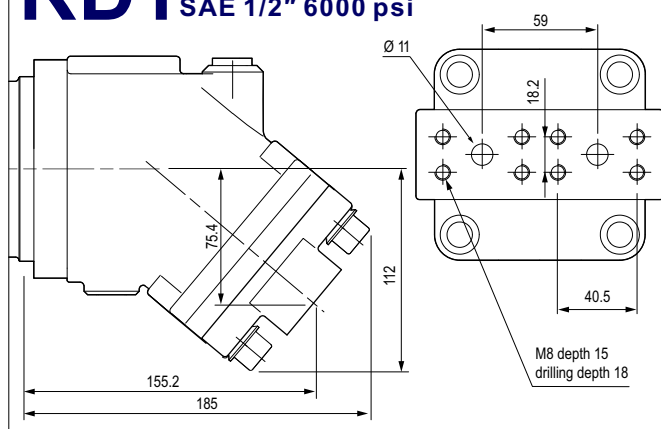
SLR



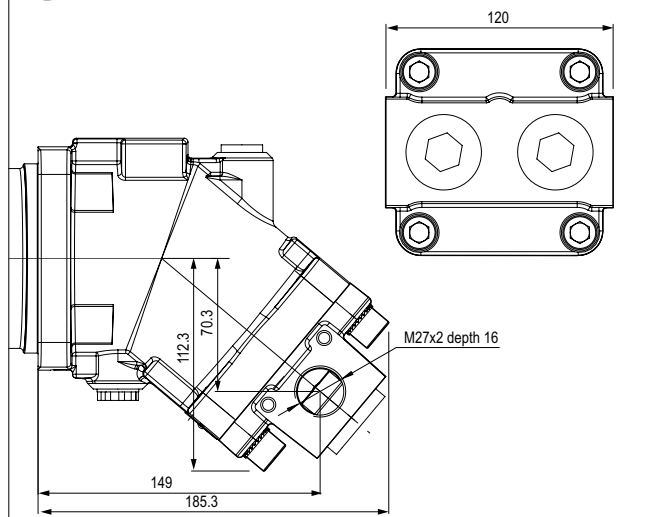
RD2 Rear threaded ports



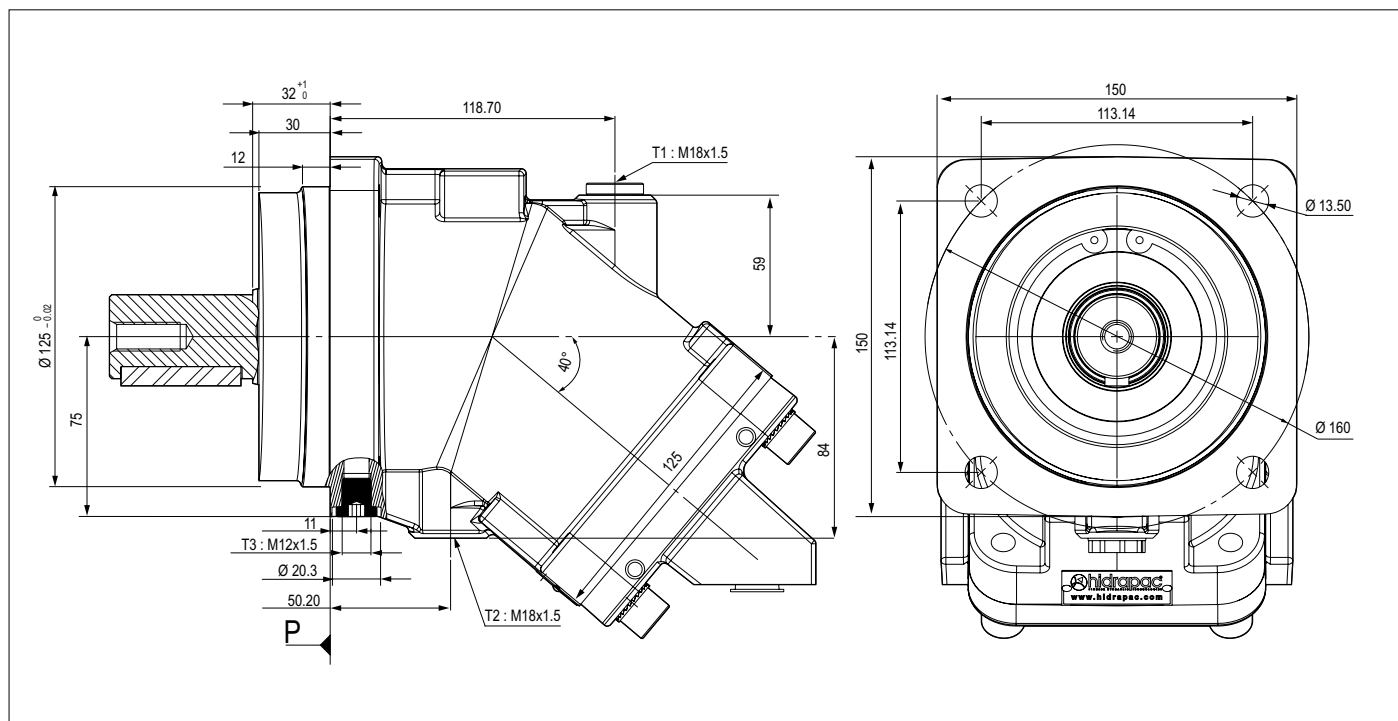
RD1 Rear flange ports SAE 1/2" 6000 psi



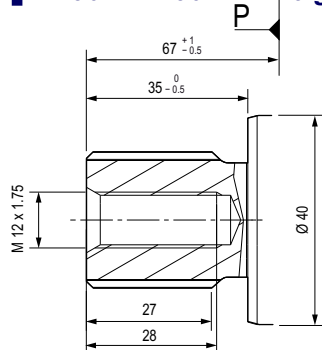
SD2 Side threaded ports A and B



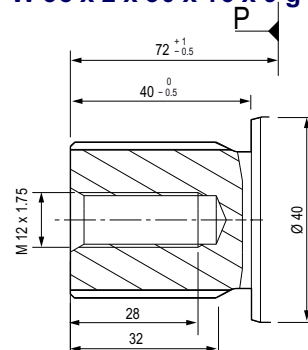
A2FO - 45 cc (ISO) Bent Axis Pump



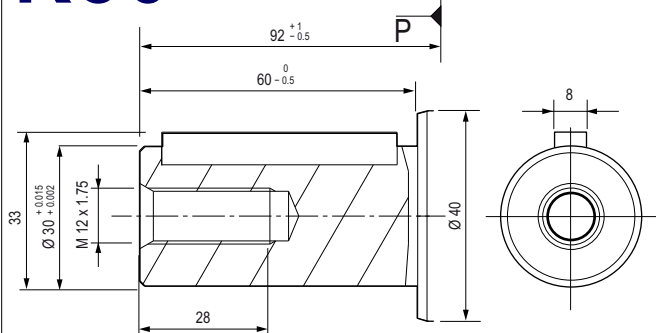
S14 Splined shaft DIN 5480 W 30 x 2 x 30 x 14 x 9 g



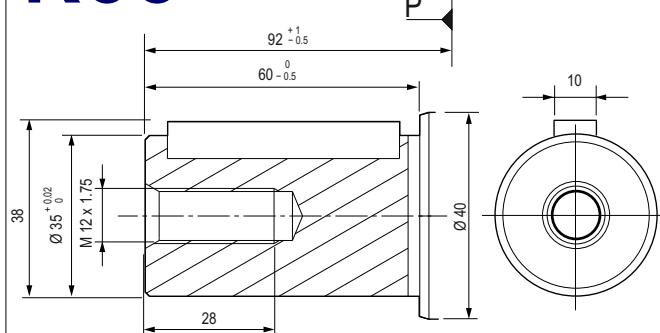
S16 Splined shaft DIN 5480 W 35 x 2 x 30 x 16 x 9 g



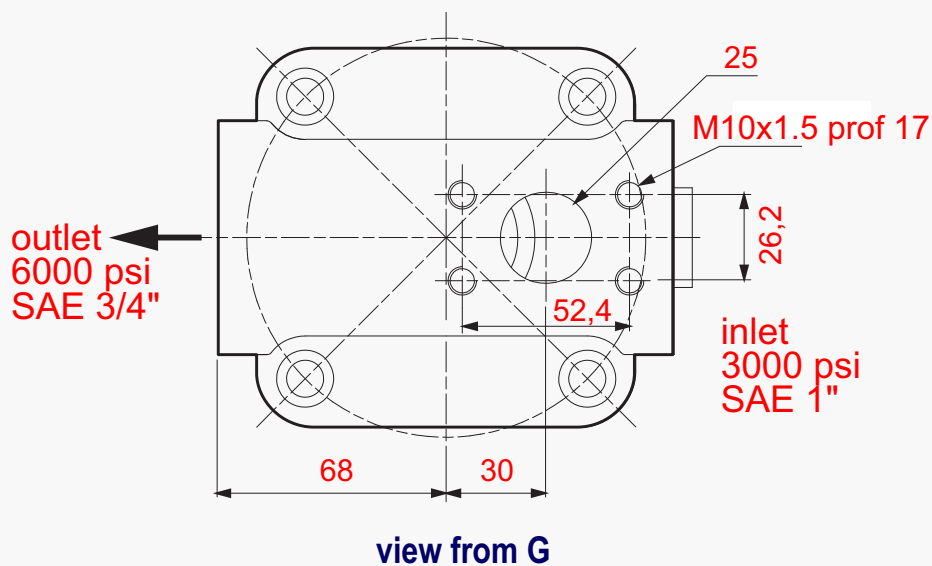
K30 Cylindrical keyed shaft $\varnothing 30$ DIN 6885 AS 8 x 7 x 40



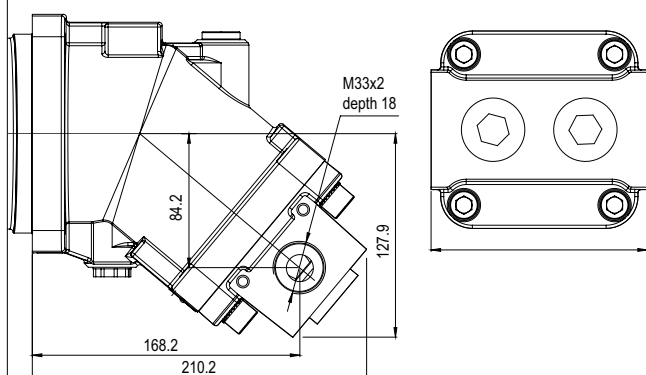
K35 Cylindrical keyed shaft $\varnothing 35$ DIN 6885 AS 10 x 8 x 50



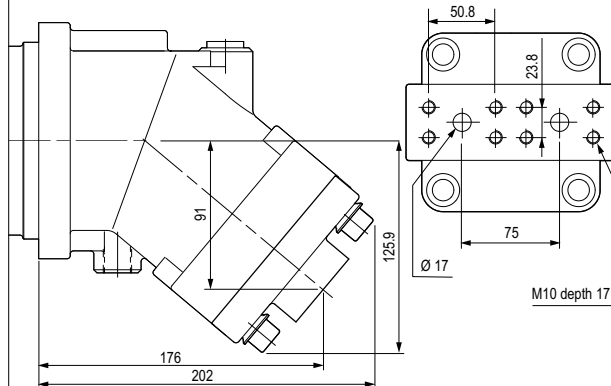
SLR



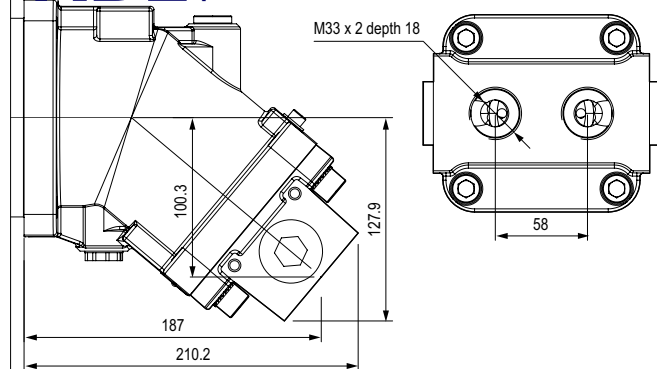
SD2 Side threaded ports A and B



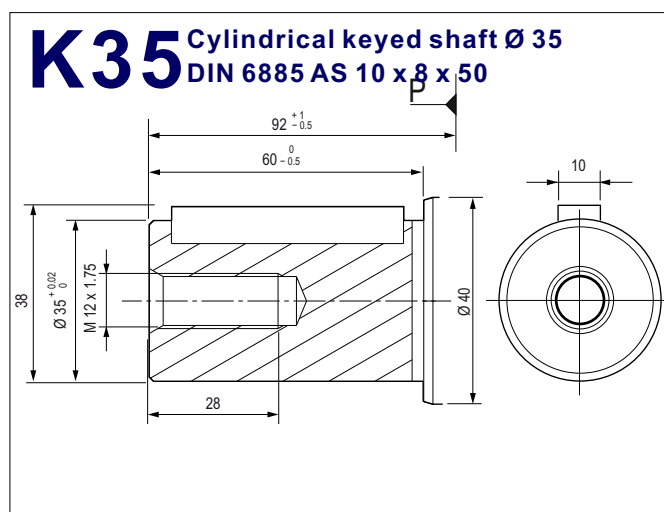
RD1 SAE flange ports, rear SAE 3/4\" 6000 psi



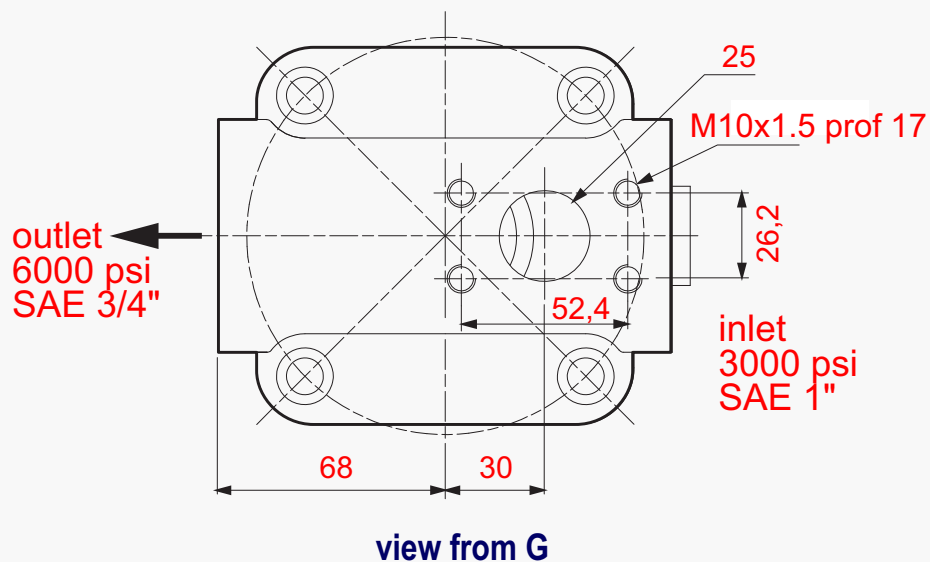
RD2 Rear threaded ports



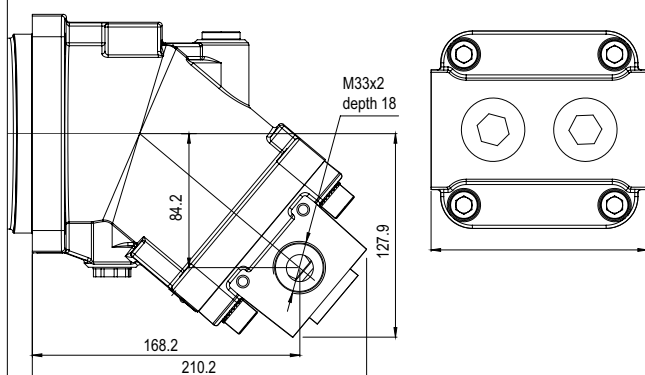
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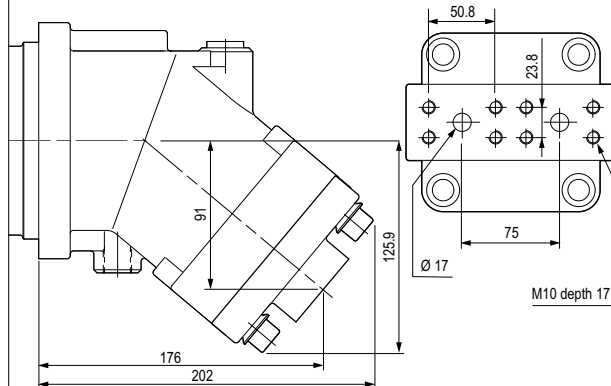
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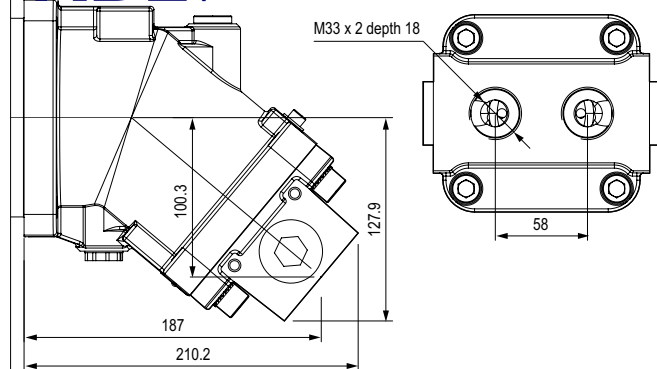
SD2 Side threaded ports A and B



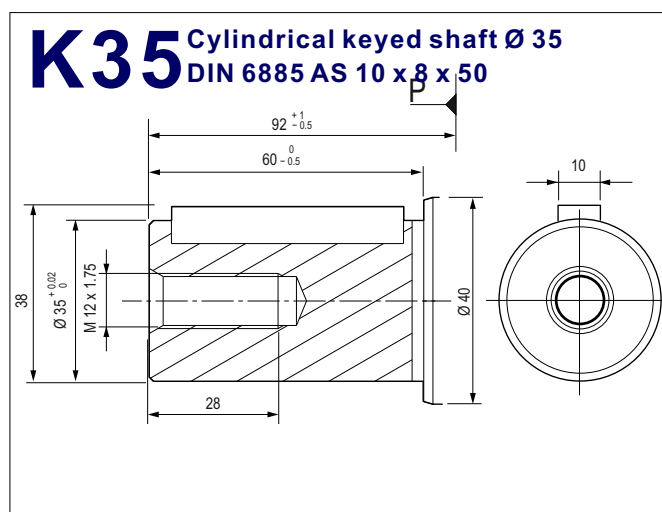
RD1 SAE flange ports, rear SAE 3/4" 6000 psi



RD2 Rear threaded ports



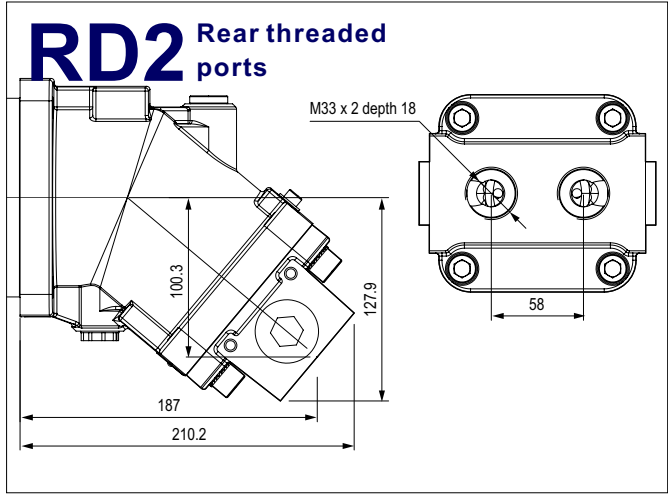
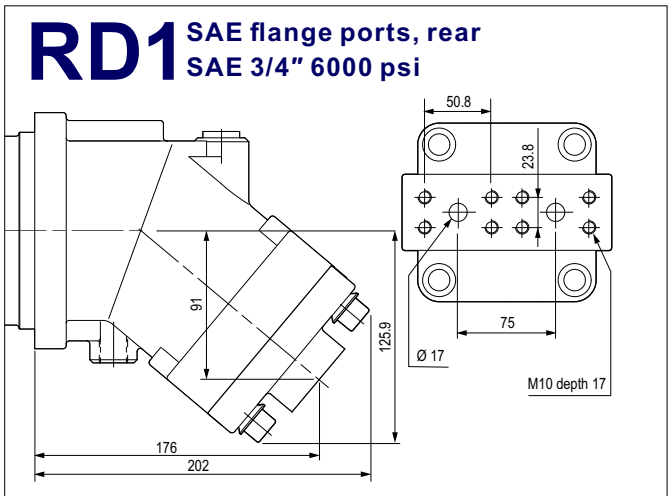
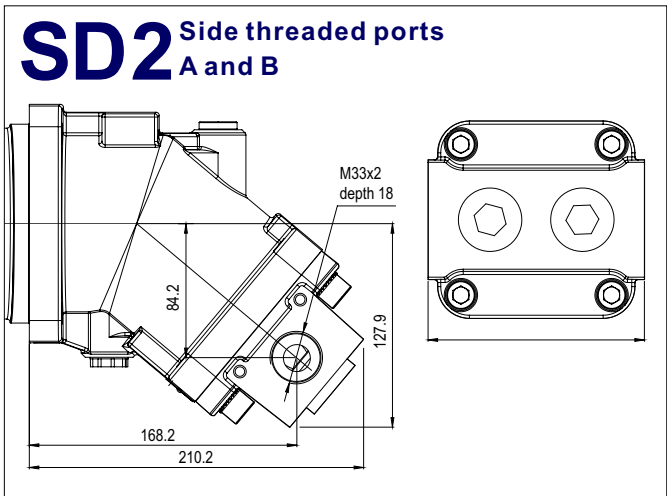
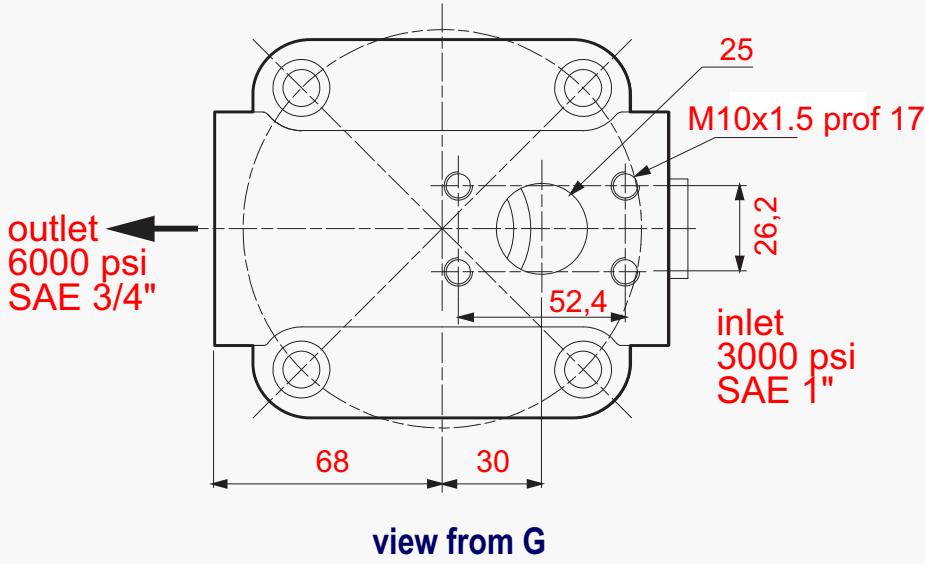
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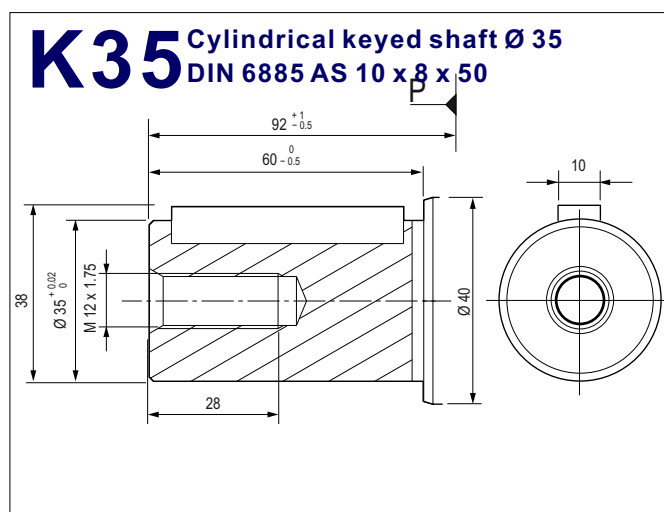
A2FO - 56 cc (ISO) Bent Axis Pump



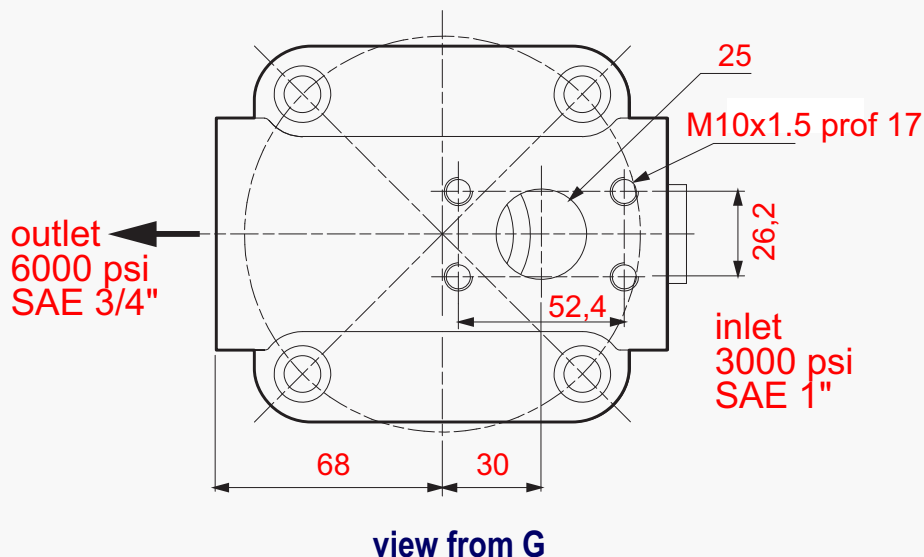
SLR



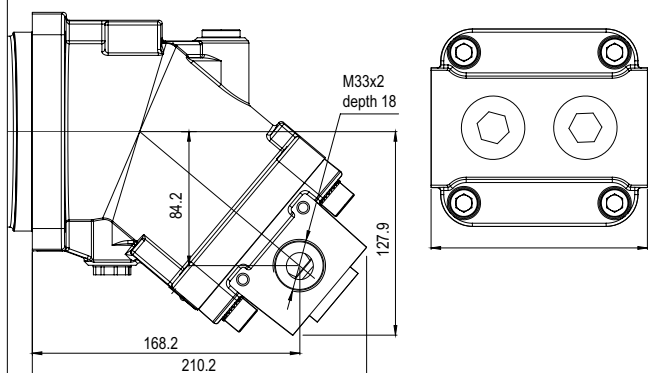
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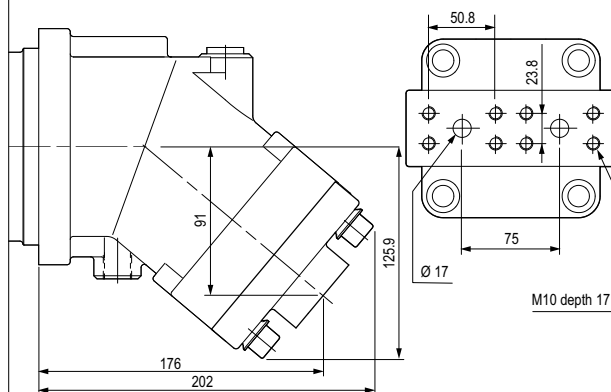
SLR



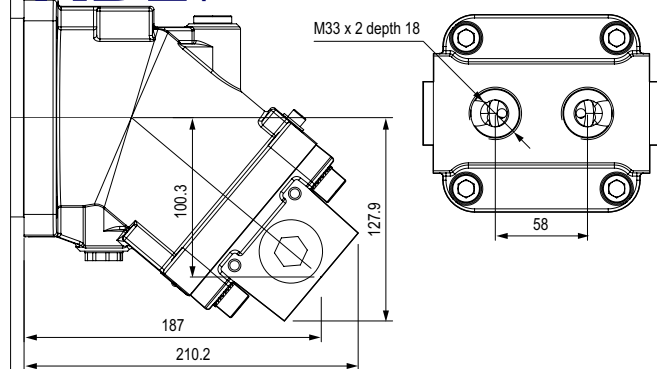
SD2 Side threaded ports A and B



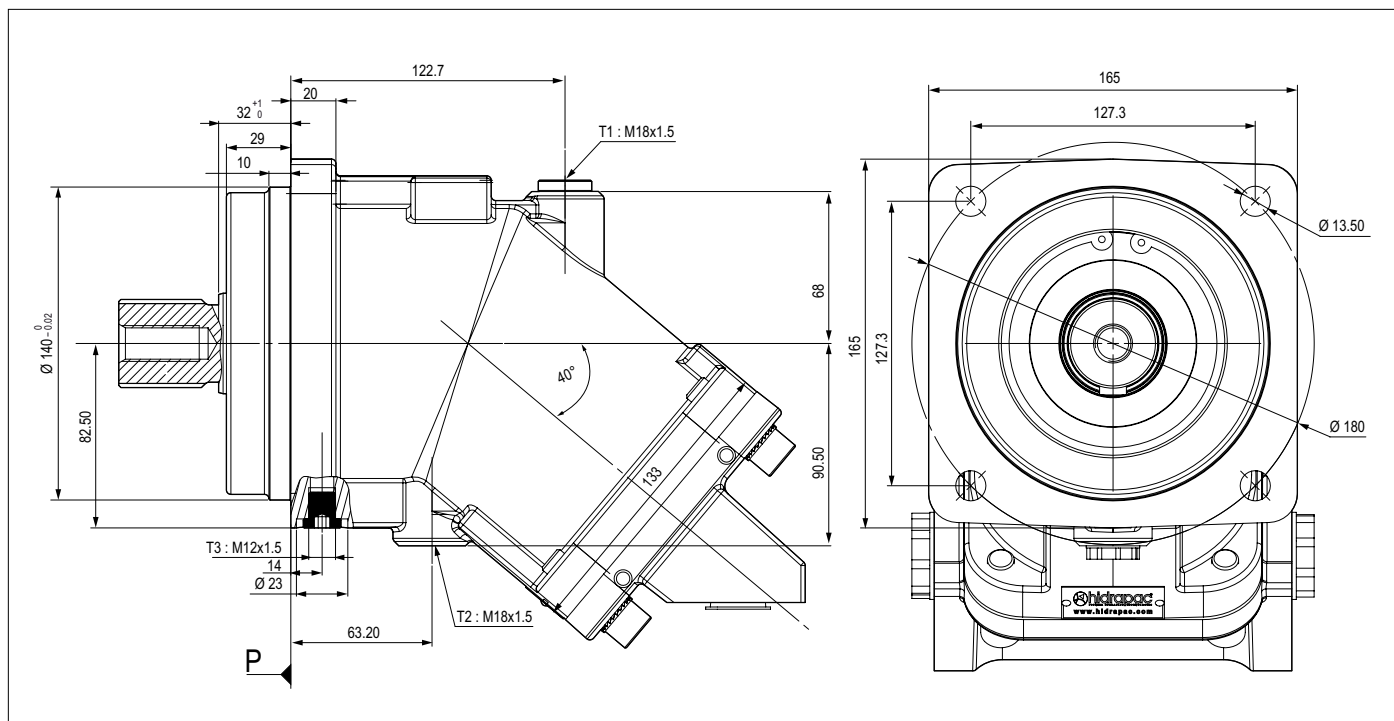
RD1 SAE flange ports, rear SAE 3/4" 6000 psi



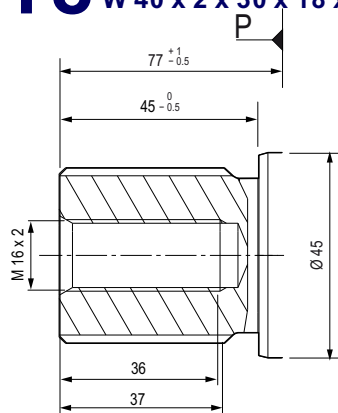
RD2 Rear threaded ports



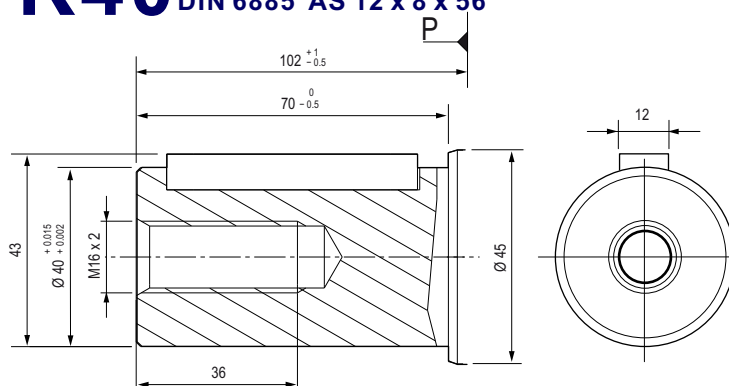
A2FO - 80 cc (ISO) Bent Axis Pump



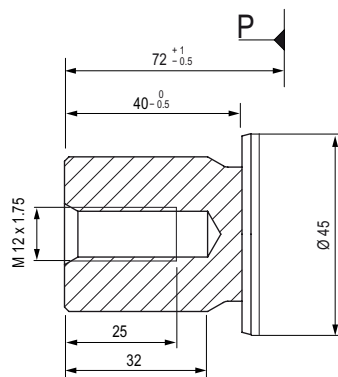
S18 Splined shaft DIN 5480 W 40 x 2 x 30 x 18 x 9 g



K40 Cylindrical keyed shaft Ø 40 DIN 6885 AS 12 x 8 x 56



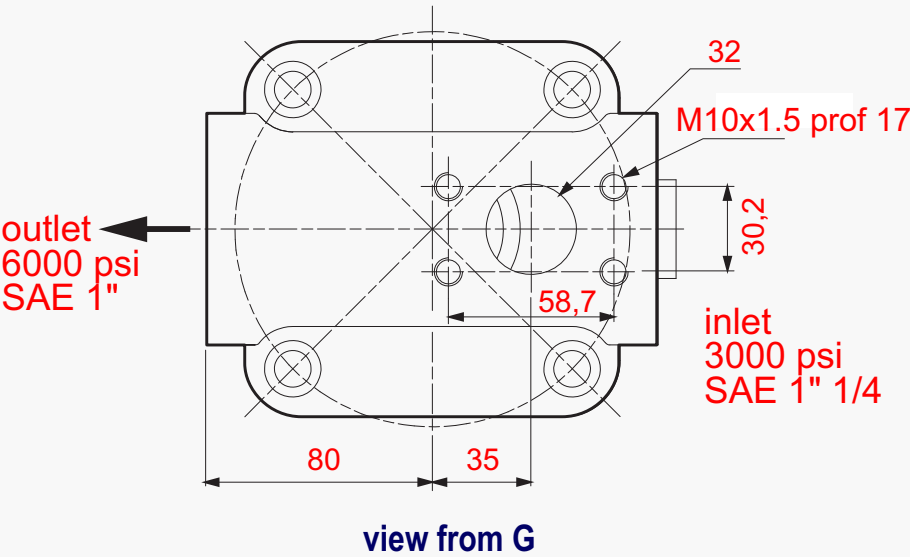
S16 Splined shaft DIN 5480 W 35 x 2 x 30 x 16 x 9 g



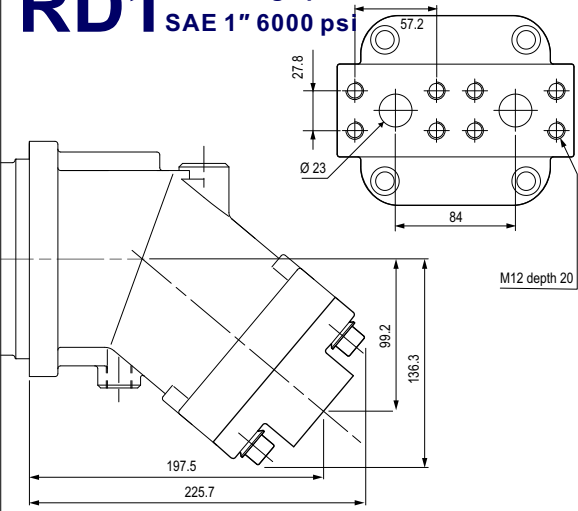
A2FO - 80 cc (ISO) Bent Axis Pump



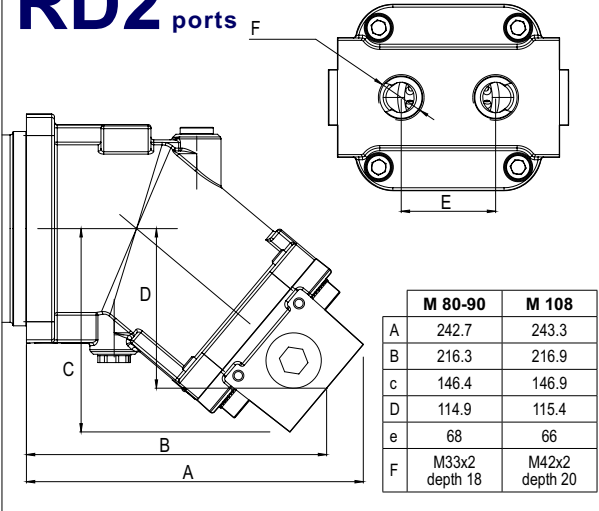
SLR



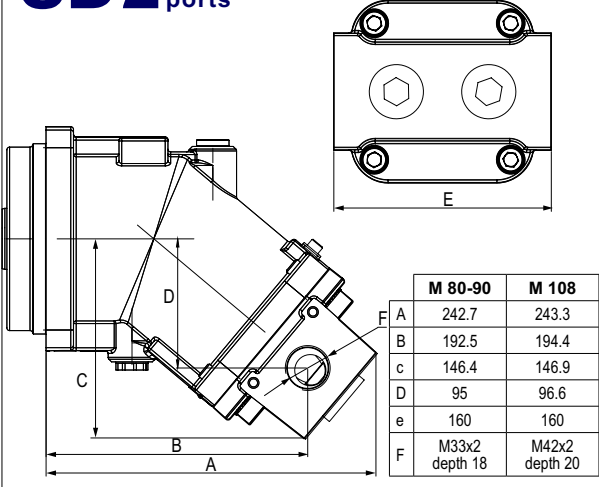
RD1 SAE flange ports, rear
SAE 1" 6000 psi



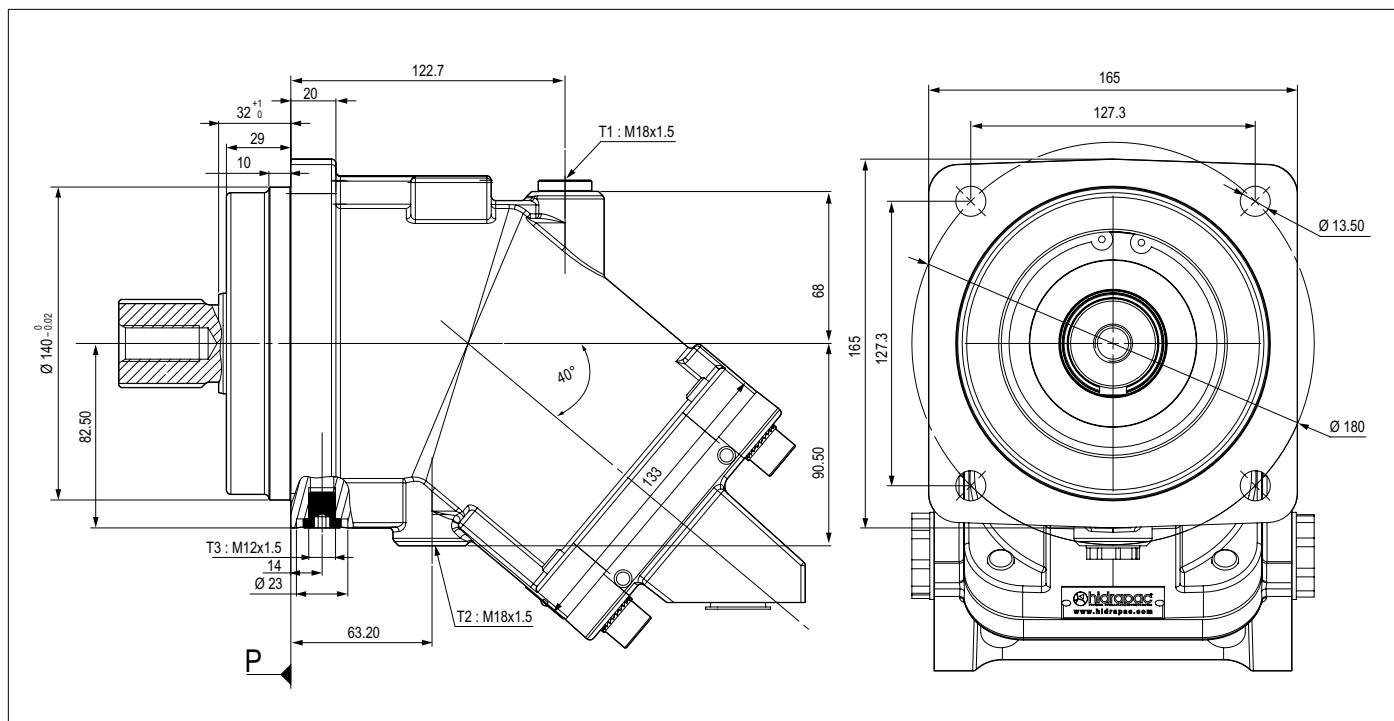
RD2 Rear threaded ports



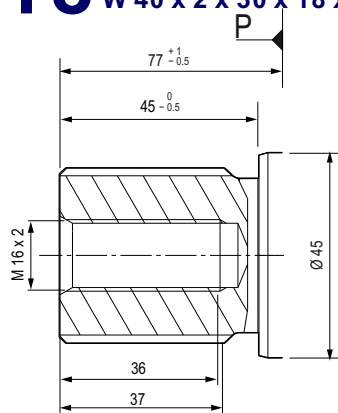
SD2 Side threaded ports



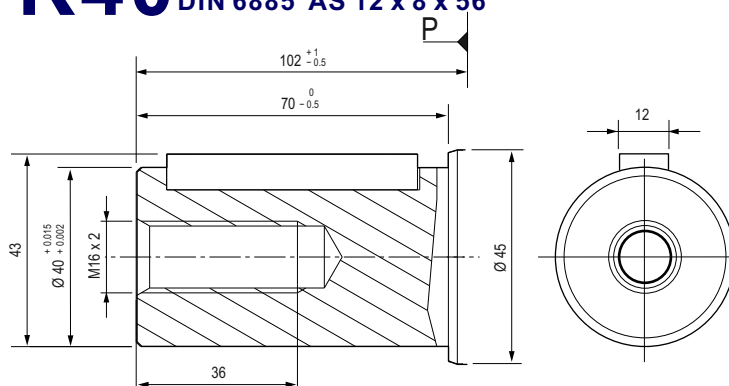
A2FO - 90 cc (ISO) Bent Axis Pump



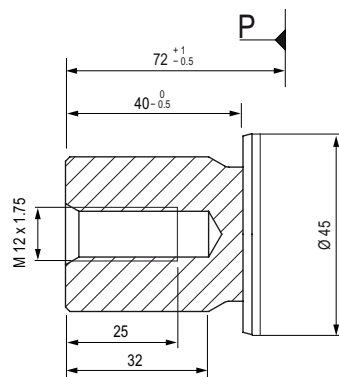
S18 Splined shaft DIN 5480 W 40 x 2 x 30 x 18 x 9 g



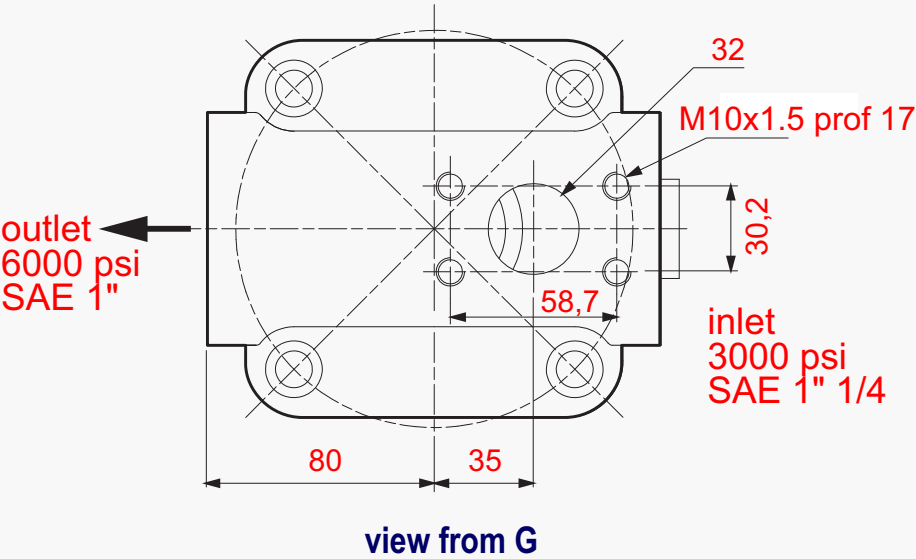
K40 Cylindrical keyed shaft $\varnothing 40$ DIN 6885 AS 12 x 8 x 56



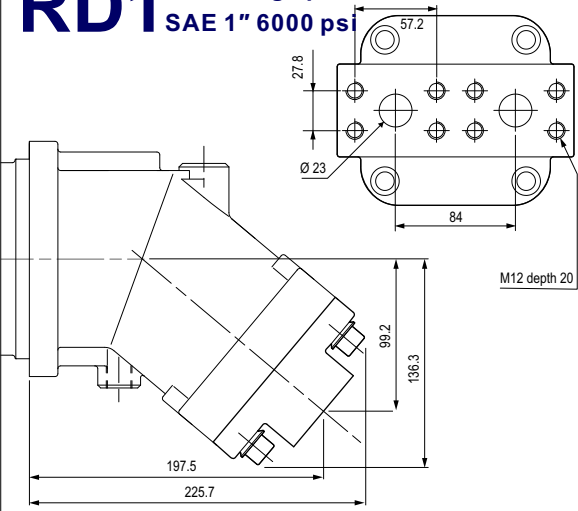
S16 Splined shaft DIN 5480 W 35 x 2 x 30 x 16 x 9 g



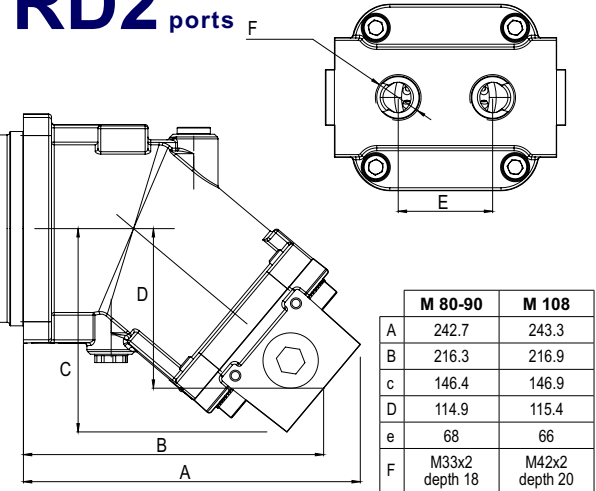
SLR



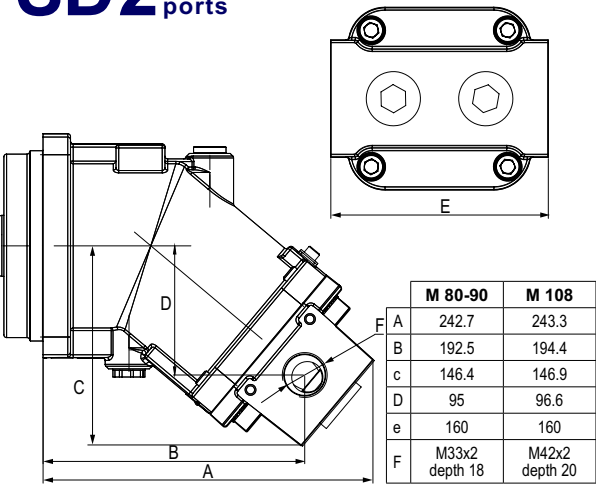
RD1 SAE flange ports, rear
SAE 1" 6000 psi



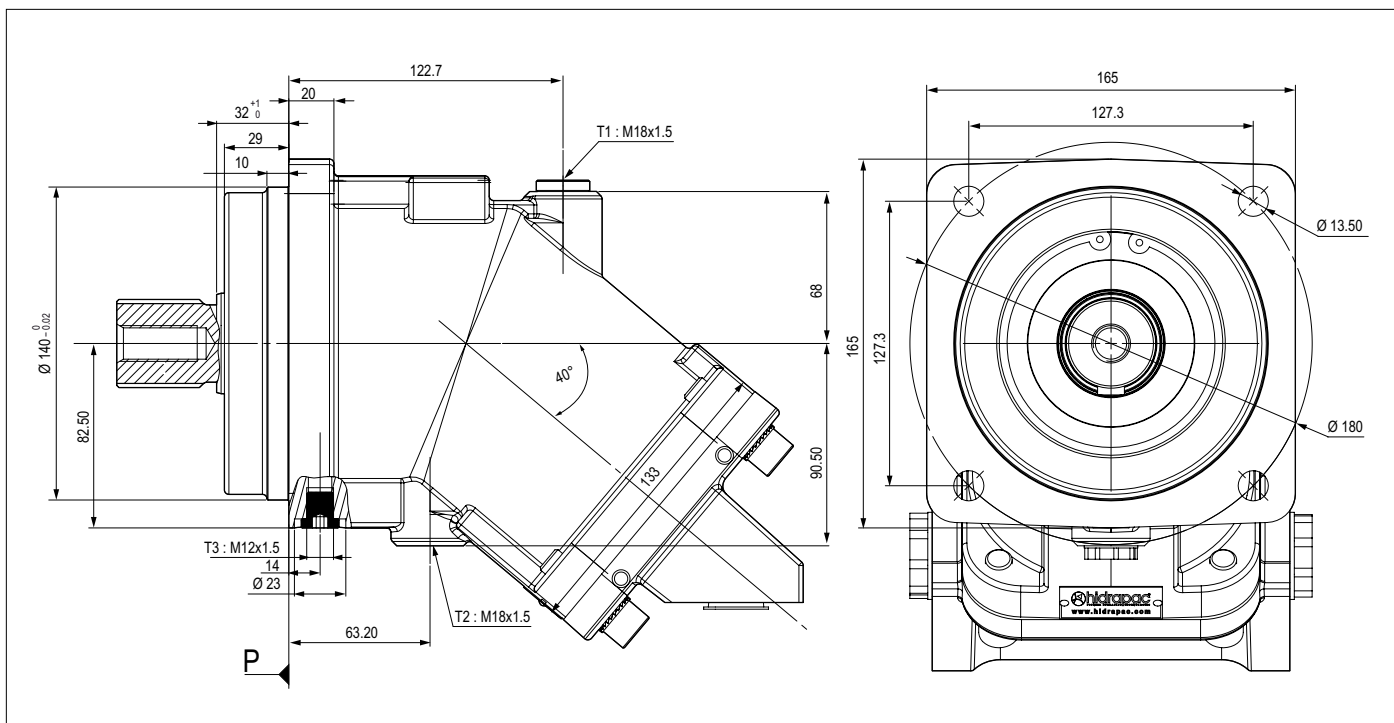
RD2 Rear threaded ports



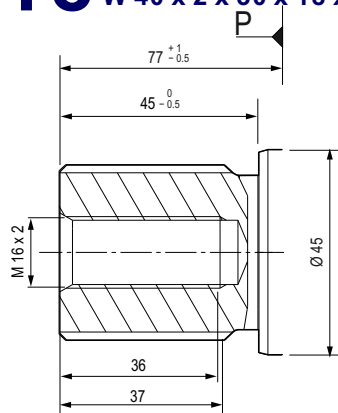
SD2 Side threaded ports



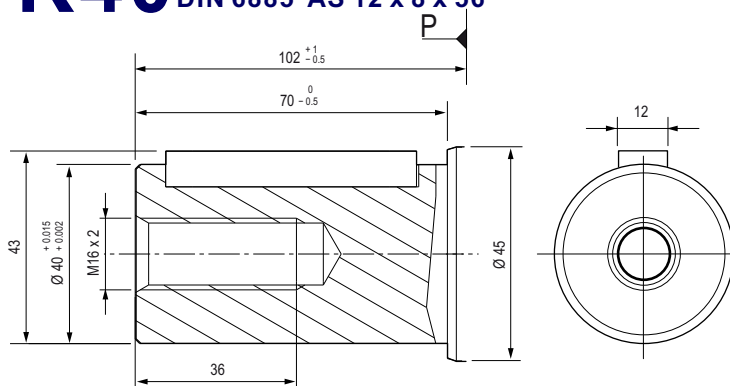
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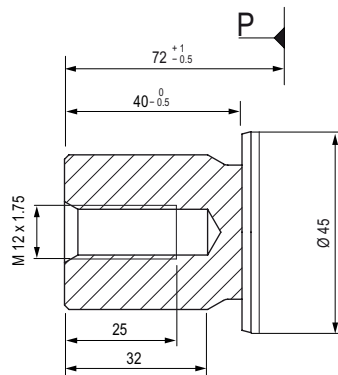
S18 Splined shaft DIN 5480
W 40 x 2 x 30 x 18 x 9 g

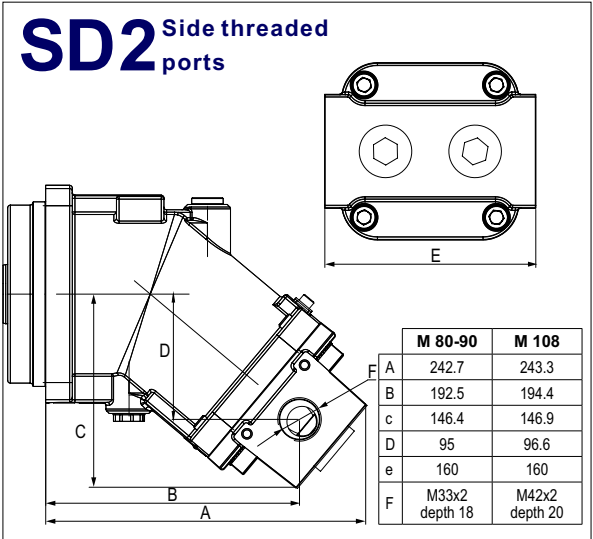
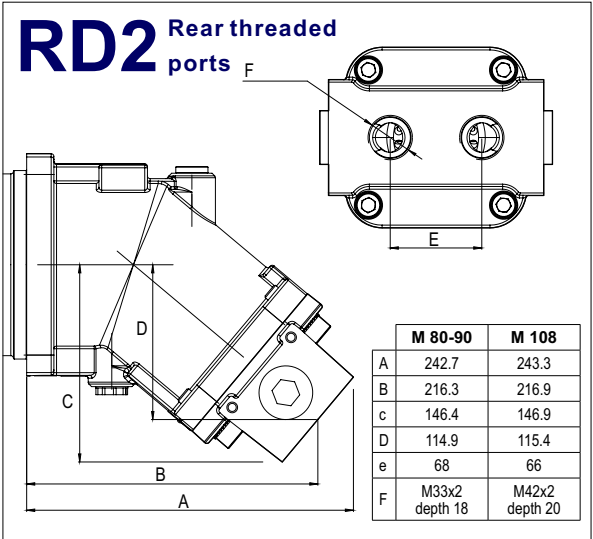
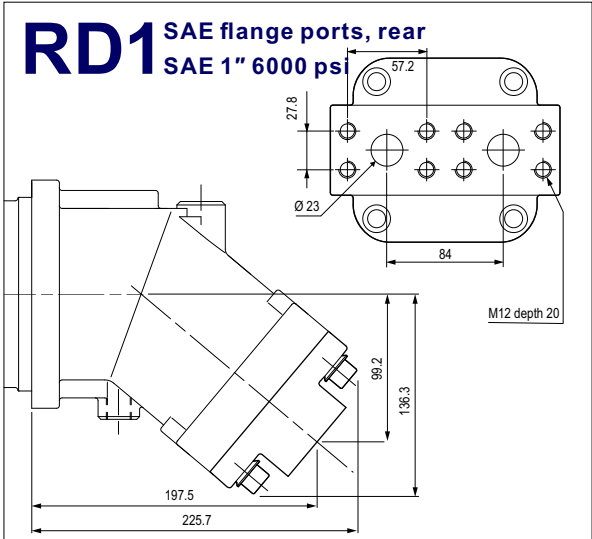
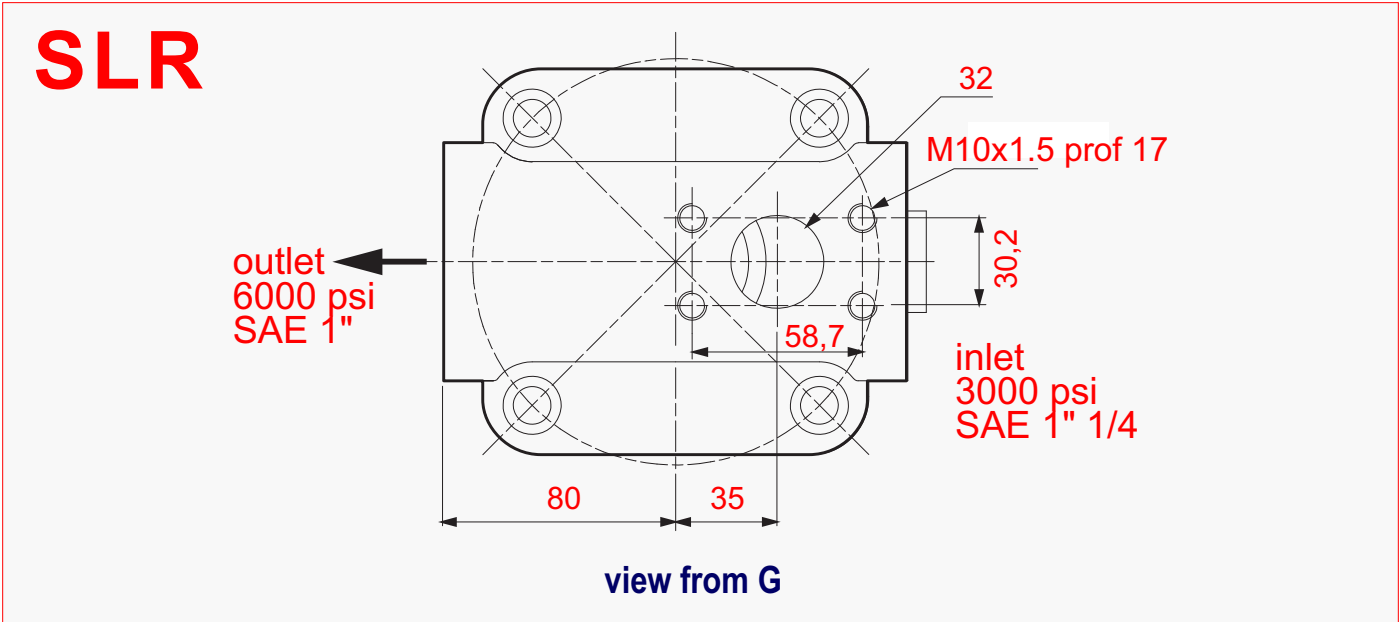


K40 Cylindrical keyed shaft Ø 40 DIN 6885 AS 12 x 8 x 56

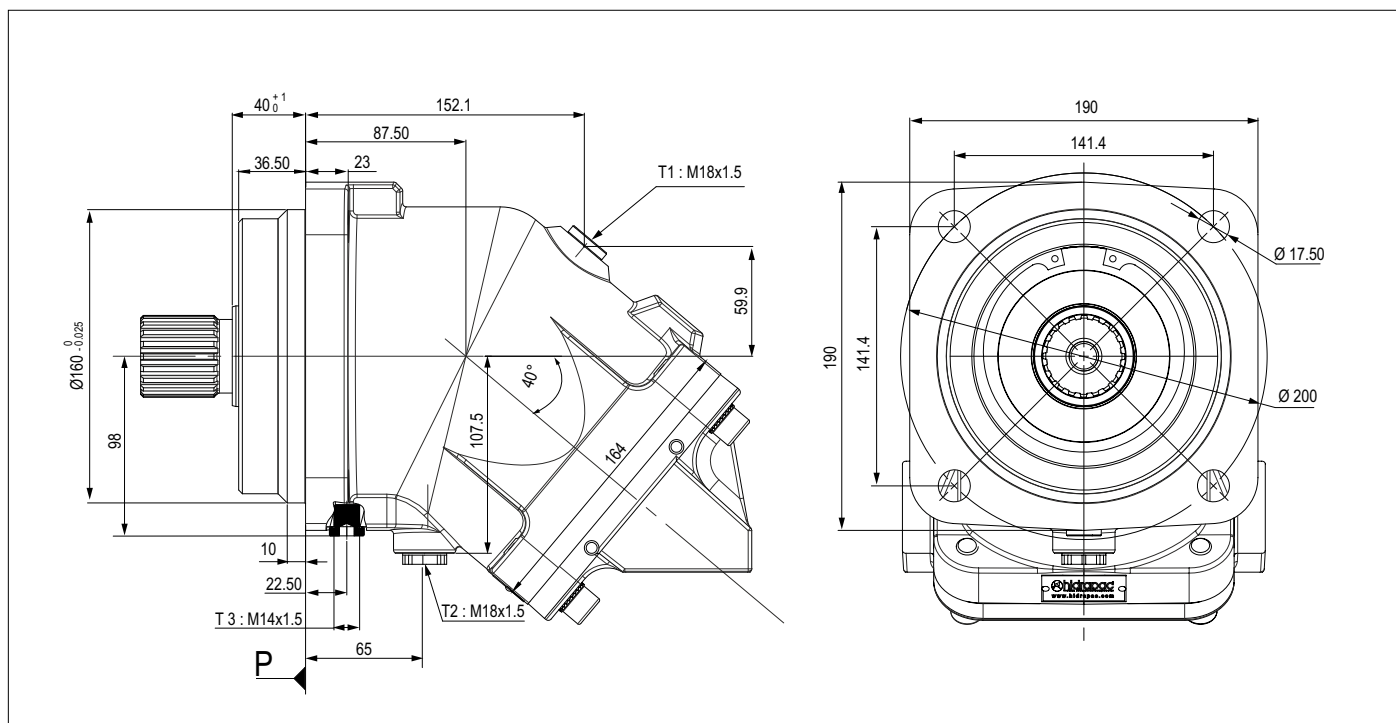


S16 Splined shaft DIN 5480
W 35 x 2 x 30 x 16 x 9 g

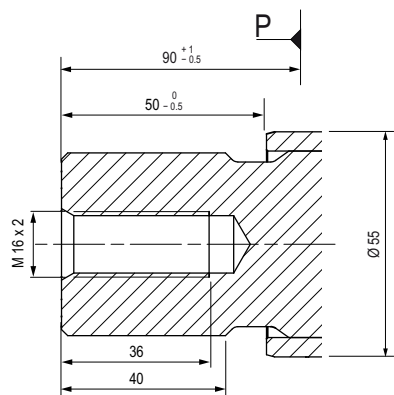




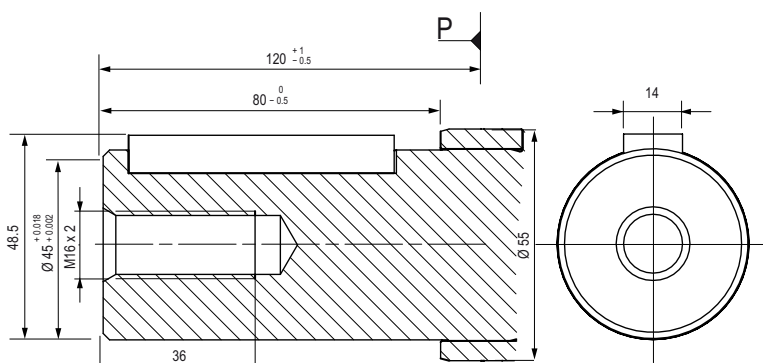
A2FO - 125 cc (ISO) Bent Axis Pump



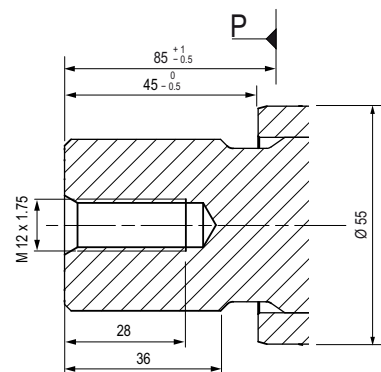
S21 Splined shaft DIN 5480 W 45 x 2 x 30 x 21 x 9 g



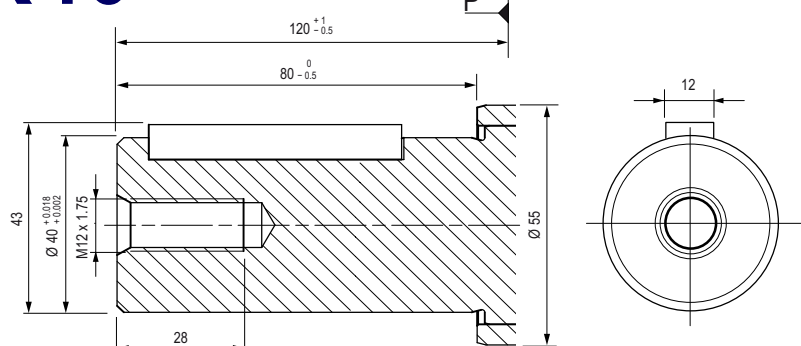
K45 Cylindrical keyed shaft Ø 45 DIN 6885 AS 14 x 9 x 63



S18 Splined shaft DIN 5480 W 40 x 2 x 30 x 18 x 9 g

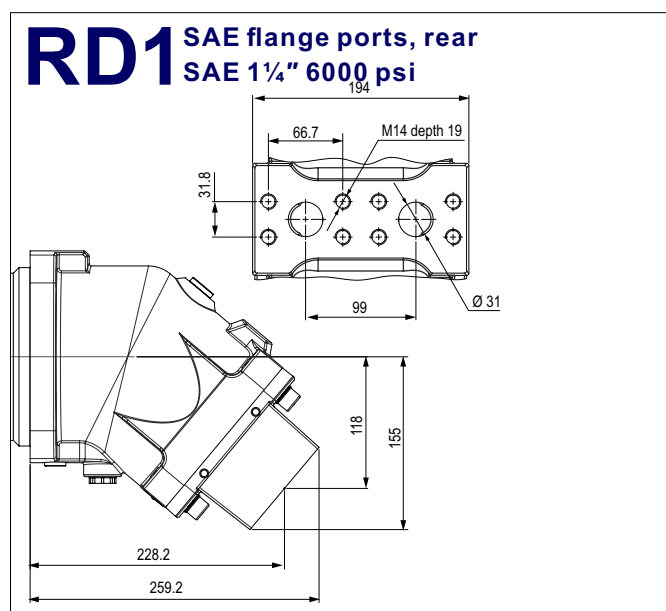
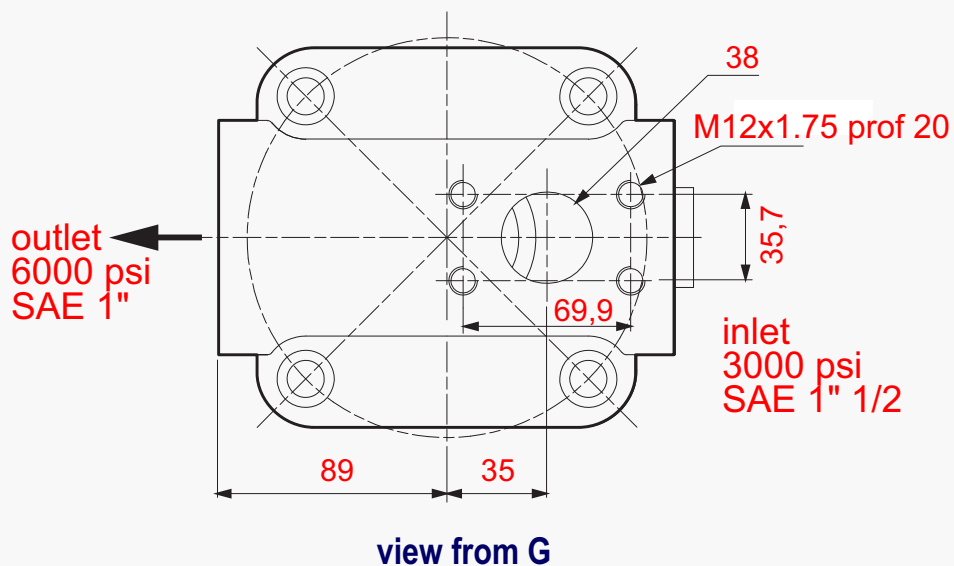


K40 Cylindrical keyed shaft Ø 40 DIN 6885 AS 12 x 8 x 56

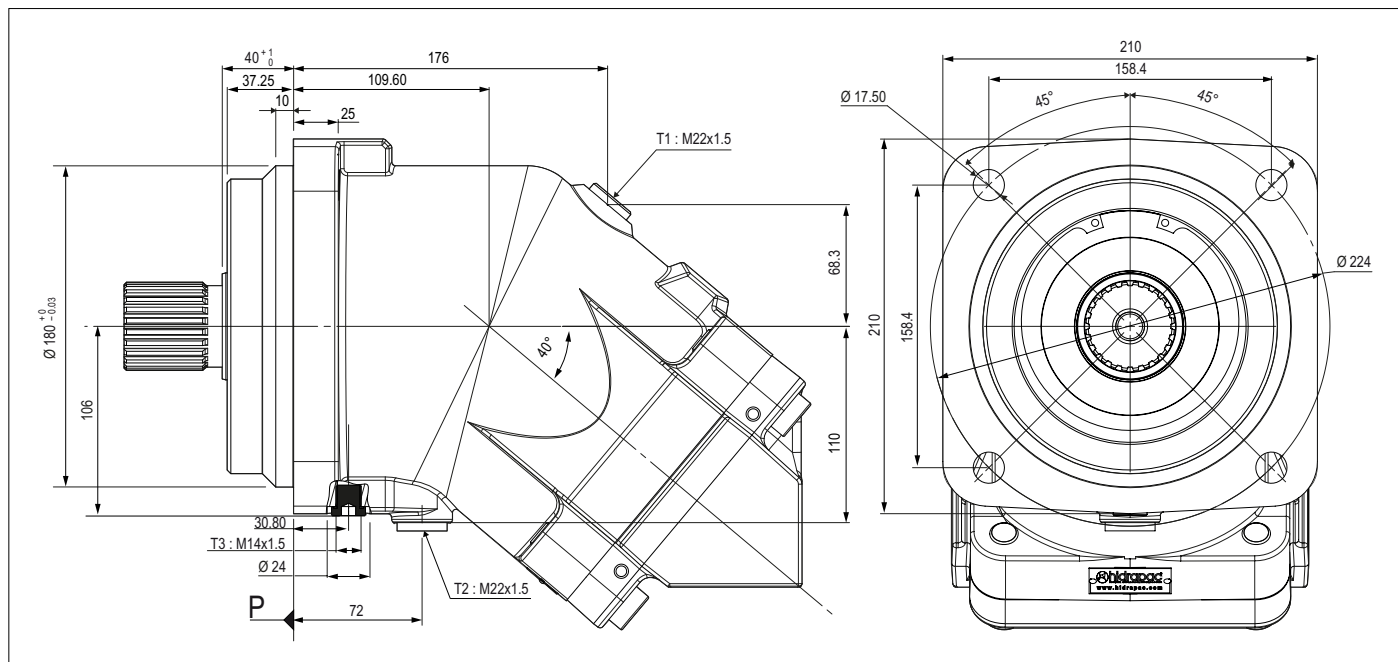


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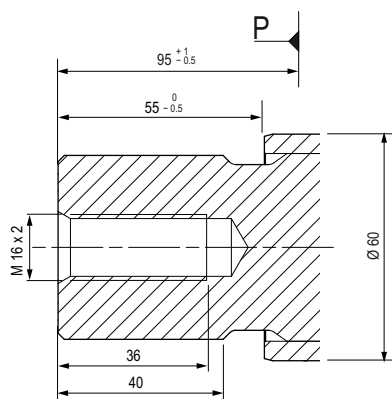
SLR



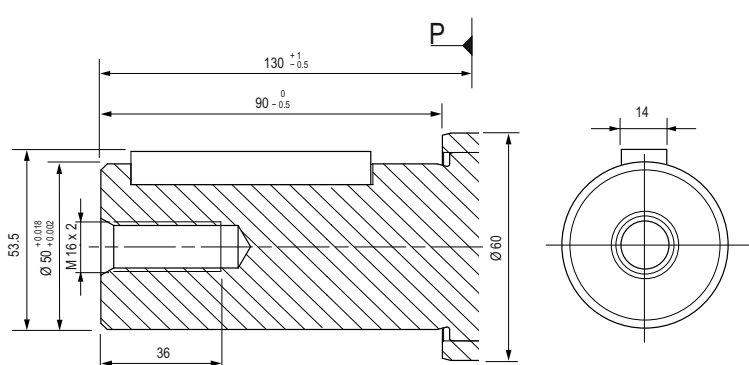
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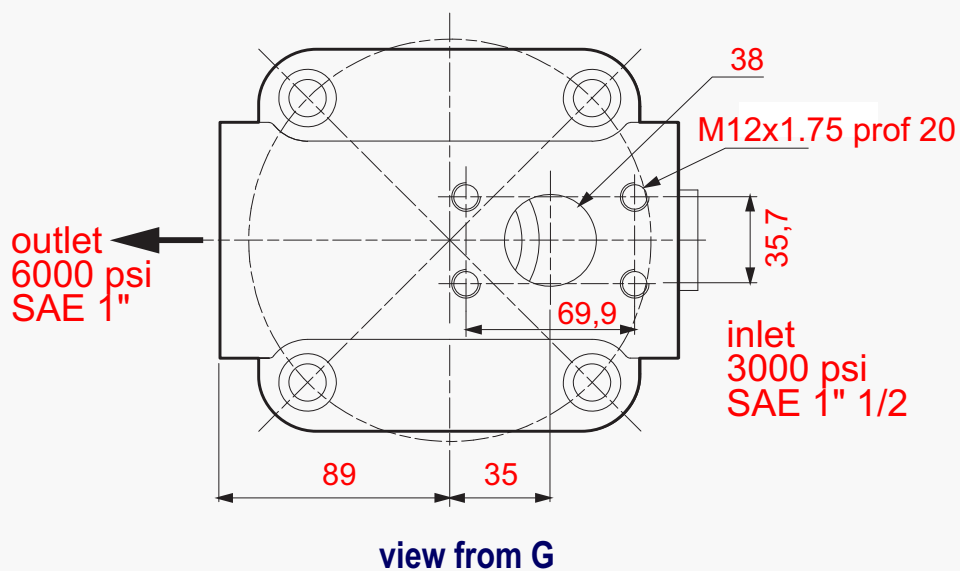
S24 Splined shaft DIN 5480
W 50 x 2 x 30 x 24 x 9 g



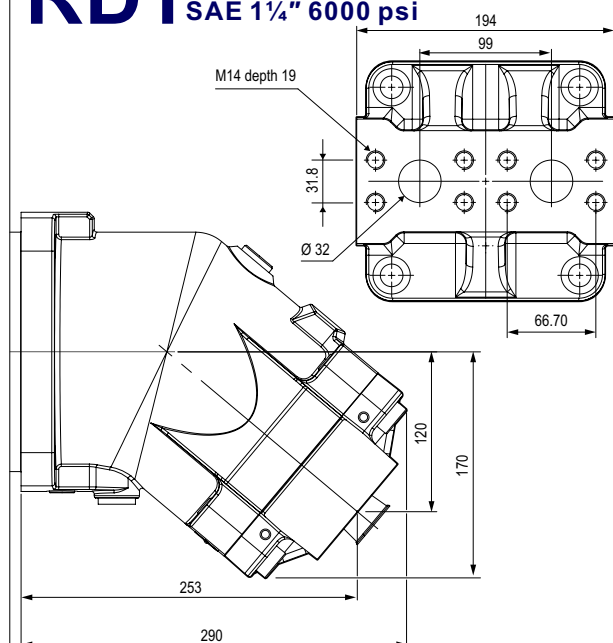
K50 Cylindrical keyed shaft Ø 50 DIN 6885 AS 14 x 9 x 70



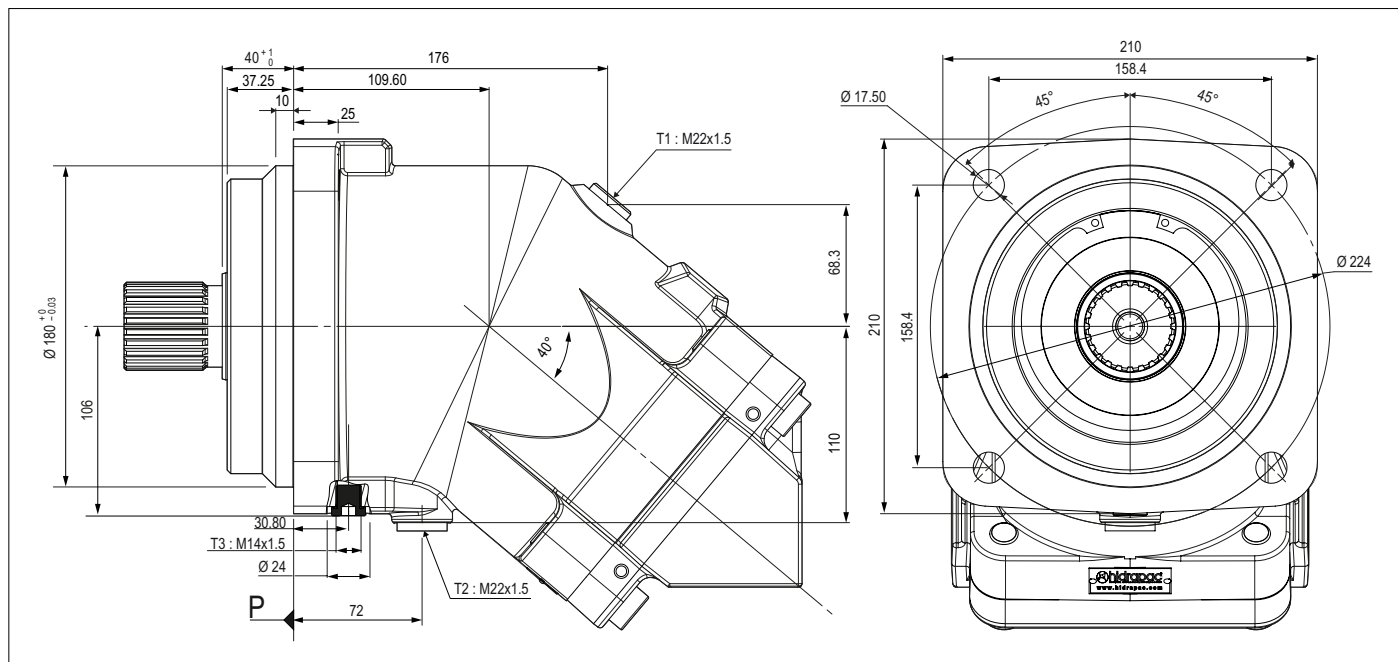
SLR



RD1 SAE flange ports, rear SAE 1 1/4" 6000 psi

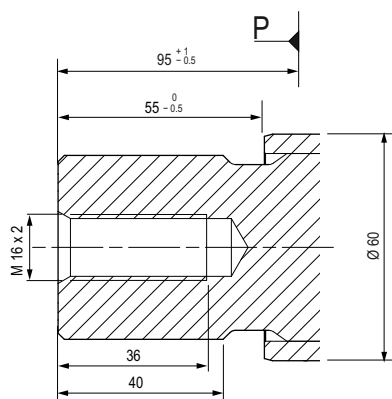


A2FO - 180 cc (ISO) Bent Axis Pump



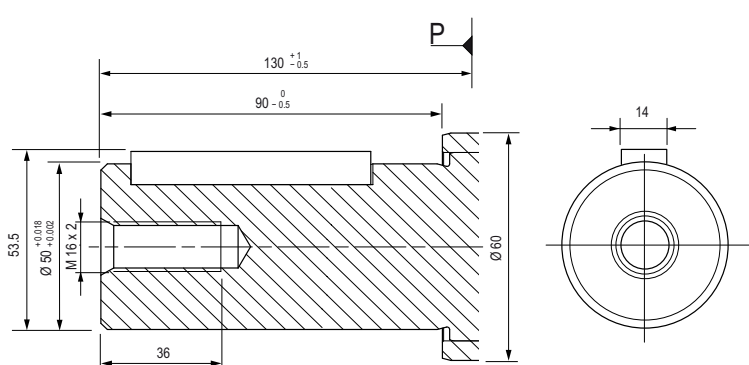
S24 Splined shaft DIN 5480

W 50 x 2 x 30 x 24 x 9 g

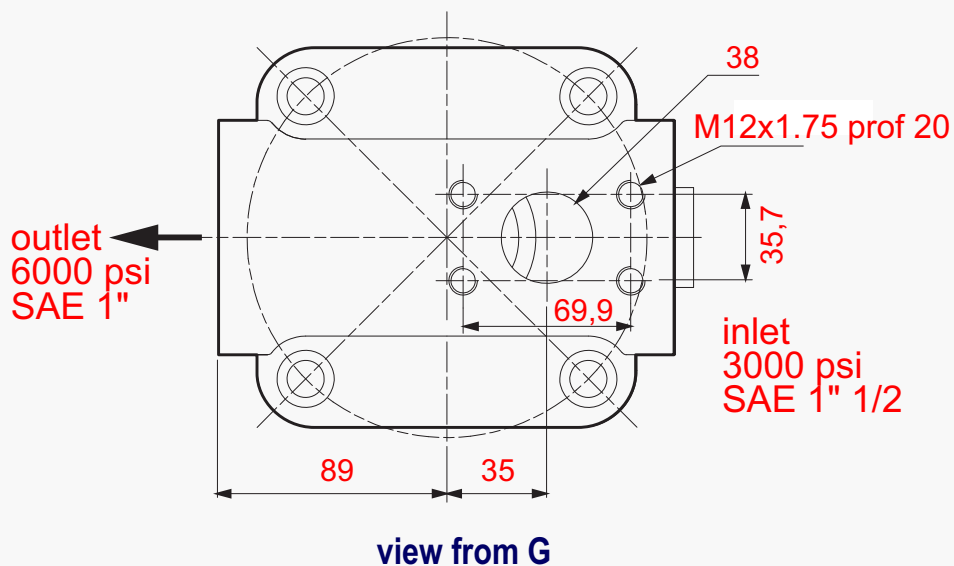


K50 Cylindrical keyed shaft $\varnothing 50$

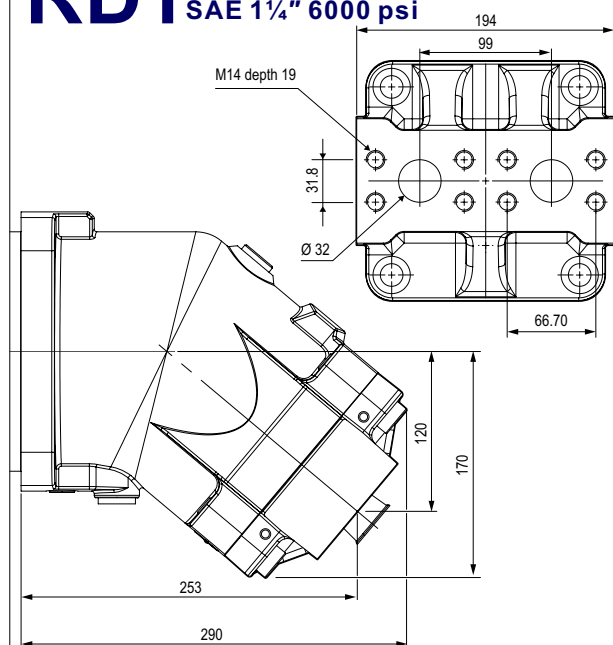
DIN 6885 AS 14 x 9 x 70



SLR



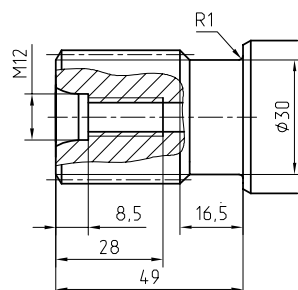
RD1 SAE flange ports, rear SAE 1 1/4" 6000 psi



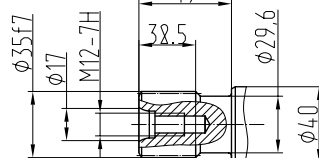
Special Shaft Drive Options for A2FO Pumps

For the Special applications, we produce Special Shaft Drive for the A2FO Pumps.
Details are listed in below.

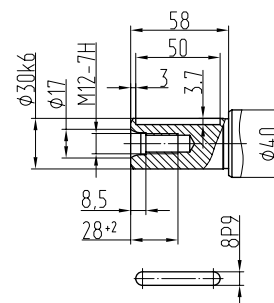
Splined shaft
35xf7x2x9g GOST 6033-80



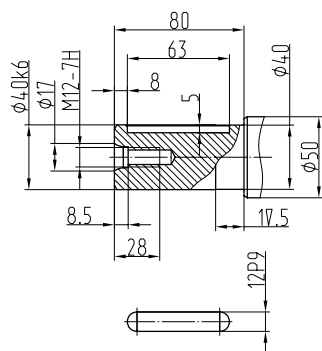
35xf7x2x9g ГОСТ6033



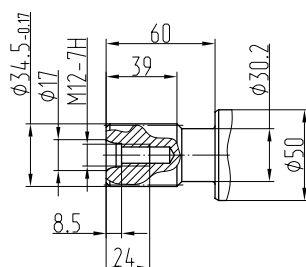
Parallel keyed shafts



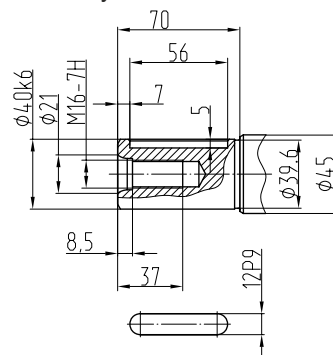
Parallel keyed shafts



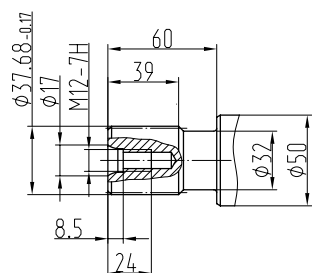
1 3/8' 21T 16/32DP ANSI B92



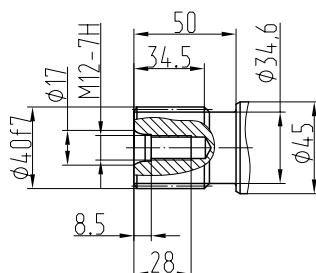
Parallel keyed shafts



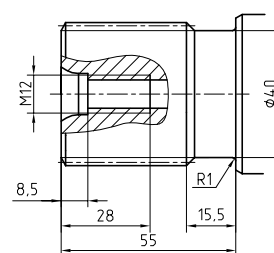
1 1/2' 23T 16/32DP ANSI B92



40xf7x2x9g GOST6033

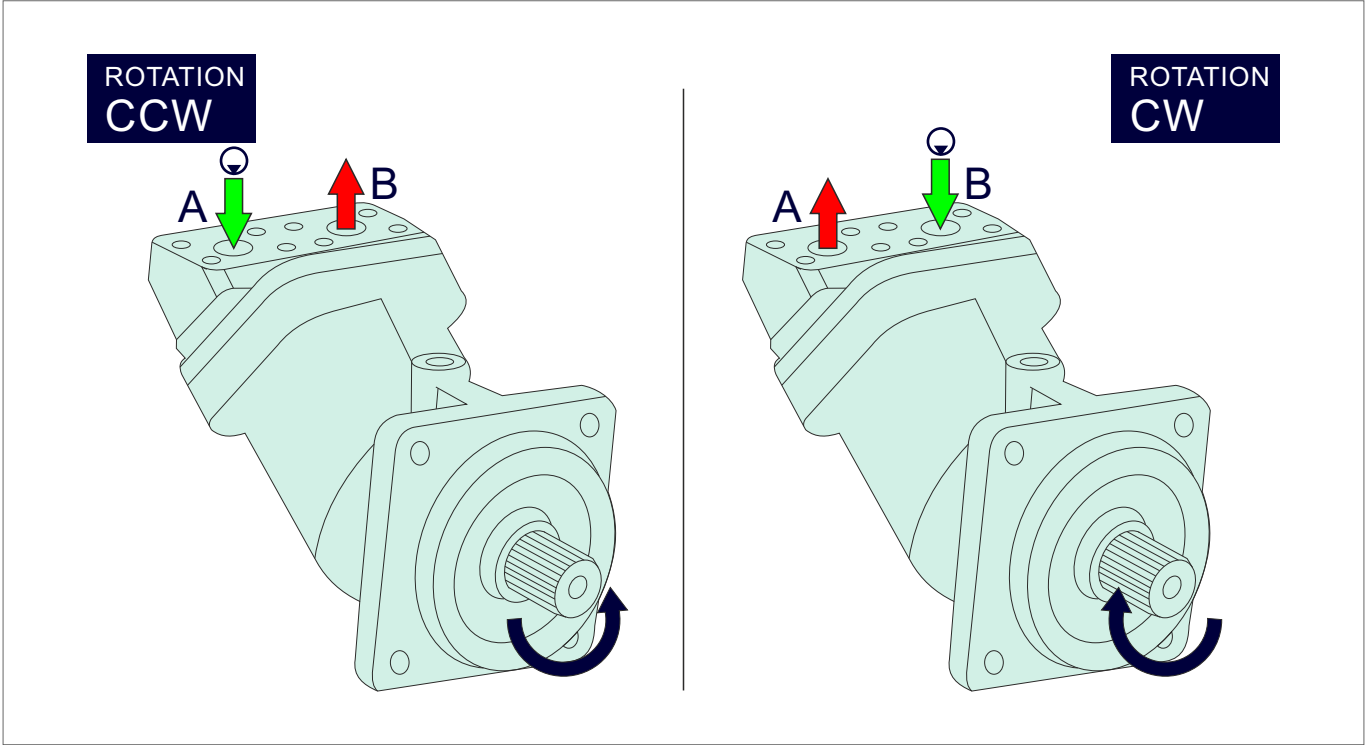


45xh8x2x9g GOST 6033-80



Direction of Rotation; Reversible

The Pumps rotate clockwise or counter-clockwise depending on the direction of hydraulic flow entering the Pump.



Formulas			
Pump Output Flow	GPM	$GPM = (Speed\ (rpm) \times disp.\ (cu.\ in.)) / 231$	$GPM = (n \times d) / 231$
Pump Input Horsepower	HP	$HP = GPM \times Pressure\ (psi) / 1714 \times Efficiency$	$HP = (Q \times P) / 1714 \times E$
Pump Efficiency	E	Overall Efficiency = Output HP / Input HP	$E_{overall} = HP_{out} / HP_{in} \times 100$
		Overall Efficiency = Volumetric Eff. $\times$ Mechanical Eff.	$E_{overall} = Eff_{Vol.} \times Eff_{Mech.}$
Pump Volumetric Efficiency	E	Volumetric Efficiency = Actual Flow Rate Output (GPM) / Theoretical Flow Rate Output (GPM) $\times 100$	$Eff_{Vol.} = Q_{act.} / Q_{theo.} \times 100$
Pump Mechanical Efficiency	E	Mechanical Efficiency = Theoretical Torque to Drive / Actual Torque to Drive $\times 100$	$Eff_{Mech} = T_{theo.} / T_{act.} \times 100$
Pump Displacement	CIPR	$Displmnt\ (In.^3\ / rev.) = Flow\ Rate\ (GPM) \times 231 / Pump\ RPM$	$CIPR = GPM \times 231 / RPM$
Pump Torque	T	Torque = Horsepower $\times 63025 / RPM$	$T = 63025 \times HP / RPM$
		Torque = Pressure (PSIG) $\times$ Pump Displacement (CIPR) / 2π	$T = P \times CIPR / 6.28$

- Horsepower for driving a pump

: For every 1 hp of drive, the equivalent of 1 gpm @ 1500 psi can be produced.
- Horsepower for idling a pump

: To idle a pump when it is unloaded will require about 5% of it's full rated power
- Wattage for heating hydraulic oil

: Each watt will raise the temperature of 1 gallon of oil by 1° F. per hour.
- Flow velocity in hydraulic lines

: Pump suction lines 2 to 4 feet per second, pressure lines up to 500 psi - 10 to 15 ft./sec., pressure lines 500 to 3000 psi - 15 / 20 ft./sec.; all oil lines in air-over-oil systems; 4 ft./sec.

Installation & Assemble Informations for Bent Axis Pumps

POSITION

ISO Flange Bent Axis Pumps can be operate any position.

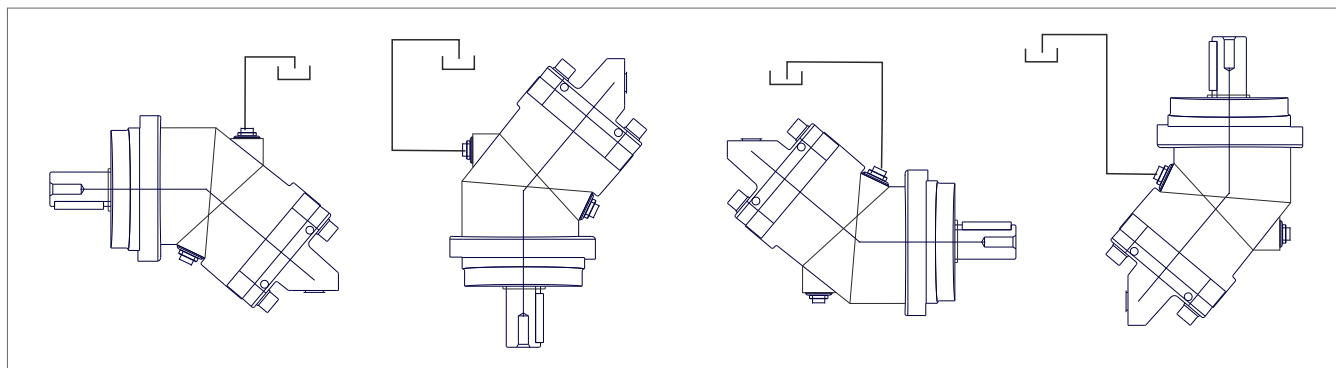
DIRECTION OF ROTATION

ISO Flange Bent Axis Pumps can be operate in both directions of rotation.

Before of Installation operation, the Pump must be filled with hydraulic fluid and air bled.

INSTALLATION POSITION

See following examples.

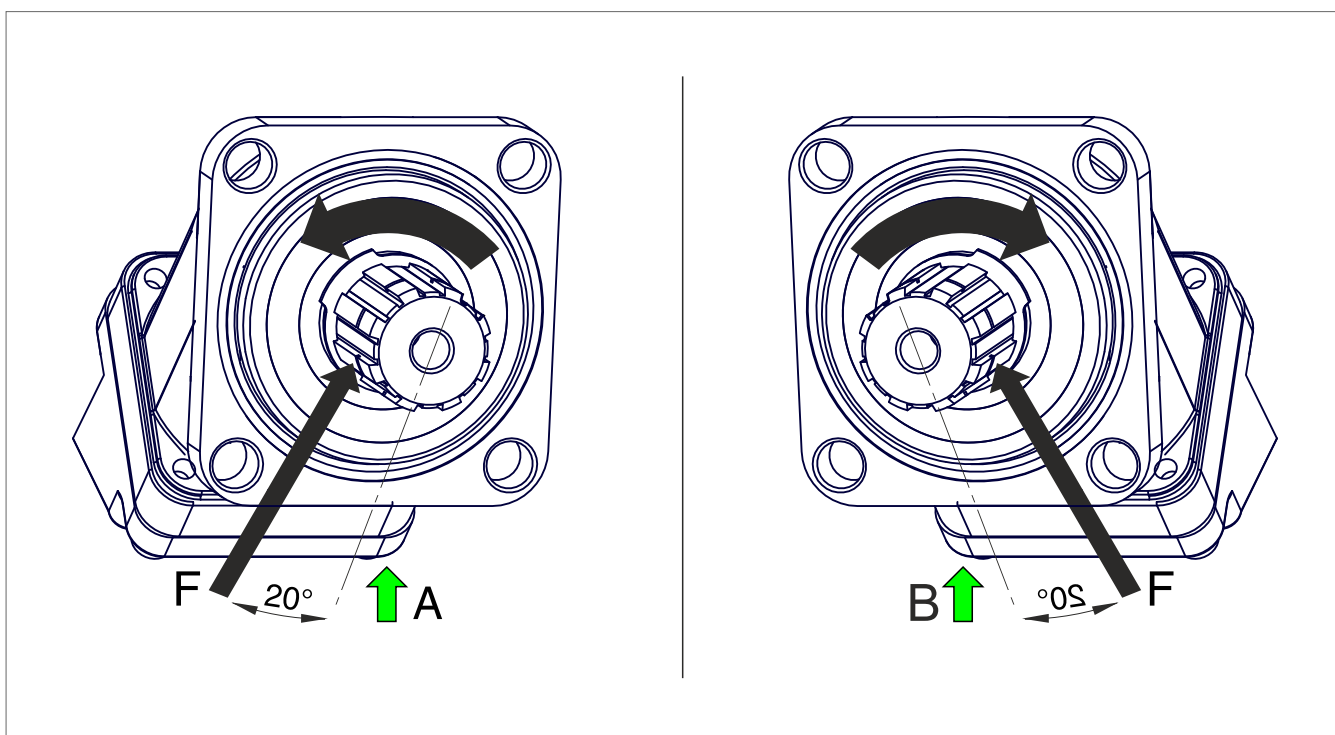


HYDRAULIC FLUID

Recommended ;

Generally : between 15 and 200 cSt.

Maximum : between 5 and 1600 cSt.



FOR USE;

Available via e-mail on request or each Pump is supplied via Starting datasheet.

Formulas, Calculations, Installation Guide

Quick Calculation

Flow rate

$$Q = \frac{V_s \cdot n}{1000 \eta_v} \text{ (lpm)}$$

Torque

$$M = \frac{V_s \cdot \Delta p \cdot \eta_{mh}}{63} \text{ (Nm)}$$

Power

$$P = \frac{2\pi \cdot M \cdot n}{60000} = \frac{M \cdot n}{9549} = \frac{Q \cdot \Delta p \cdot \eta_t}{600} \text{ (kw)}$$

Speed

$$n = \frac{1000 \cdot Q \cdot \eta_v}{V_s} \text{ (lpm)}$$

- V_s = Displacement (ccm/rev.)
 Δp = Diff. pressure (bar)
 n = Speed (rpm)
 Q = Flow (lpm)
 η_v = Volumetric efficiency
 η_{mh} = Mechanical-hydraulic efficiency
 η_t = Total efficiency ($\eta_t = \eta_v \times \eta_{mh}$)

New frame sizes to meet market requirements.

Optional by-pass valve.

For use in mobile & industrial and stationary applications areas.

The pump drive shaft bearings are designed to give the service life expected in these areas of operation. Interchangeable with other bent axis pumps & Pumps

40° bent axis design giving high power, small overall dimensions, optimum efficiency and economic design. Flange and shaft designed for direct mounting on truck gearbox PTO's. The fixed displacement bent axis pumps generates a hydraulic fluid flow. It is designed for use in trucks, commercial vehicles and all stationary hydraulic applications. The pump is a fixed pump with rotary group in bent-axis design open circuits. Flow is proportional to drive speed and displacement.

For axial piston units with bent-axis design, the Pistons are arranged diagonally with respect to the drive shaft. The pump motor covers the whole displacement range 5 to 130 cm³/rev. The pump has been developed with modern styling and design to satisfy market demand as to designed new generation plate and pistons with give high flow performance, high pressures with high efficiency and very small dimensions.

The pump is available both to DIN and SAE world standards and can be mounted either directly at the gear box or via a drive shaft. If necessary it can also be augmented with a by-pass valve.

Other brand bent axis pumps compatible and interchangeable with bent axis pumps motors. Refer to the data sheet and order confirmation for the technical data, operating conditions and operating limits of the bent axis piston pumps.

Hydraulic Pumps



K2FA (DIN)

BENT AXIS PISTON PUMPS



K2FL (DIN)

ALUMINUM BODY
BENT AXIS PISTON PUMPS



A2FD (DIN)

DUAL FLOW
BENT AXIS PISTON PUMPS



A2FO (ISO)

BENT AXIS PISTON PUMPS



A2FS (SAE)

BENT AXIS PISTON PUMPS



AXVP Series

VARIABLE DISPLACEMENT
PISTON PUMPS



A3PP Series

AXIAL PISTON PUMPS



A3PH Series

HIGH PRESSURE
PISTON PUMPS



ByPass Valve

FOR
BENT AXIS PISTON PUMPS



LS Adapters

FOR
VARIABLE PISTON PUMPS

Hydraulic Motors



K2FM (DIN)

BENT AXIS PISTON MOTORS



A2FM (ISO)

BENT AXIS PISTON MOTORS



A2MS (SAE)

BENT AXIS PISTON MOTORS



A2FE (FixedPlug)

BENT AXIS PISTON MOTORS



Anti Cavitation

VALVE
BENT AXIS PISTON MOTORS

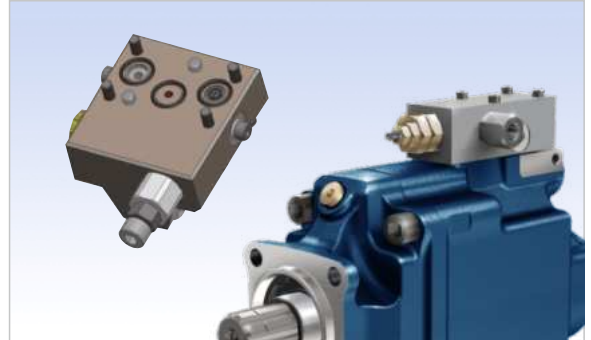
ByPass Valve

for Bent Axis Piston Pumps



LS Adapter

for Variable Displacement Piston Pump



Suction Fittings

for Bent Axis Piston Pumps



Flushing Valve

for Bent Axis Piston Motors



Adapter

for Bent Axis Piston Pumps



Flange, Couplar

for Bent Axis Piston Pumps



Hydraulic Pumps, Hydraulic Motors

Bent Axis Hydraulic Piston Pumps, Bent Axis Piston Motors,
Dual Flow Hydraulic Piston Pumps, Variable Displacement Piston Pumps,
High Pressure Piston Pumps, Straight Axial Piston Pumps..



Address;

HIDRAPAC HYDRAULIC PUMP & MOTORS

Address; (PRODUCTION)

Fevzicakmak Mah. Sila Cad. Kobisan 3 San. Sit.
No: 73 / C Karatay – Konya, PO Code; 42050, Turkiye

Address; (ASSEMBLE, SHIPMENT)

Fevzicakmak Mah. Sila Cad. Kobisan 3 San. Sit.
No: 71 / AD Karatay – Konya, PO Code; 42050, Turkiye

Phone; +90 551 111 77 44