



ASEDA

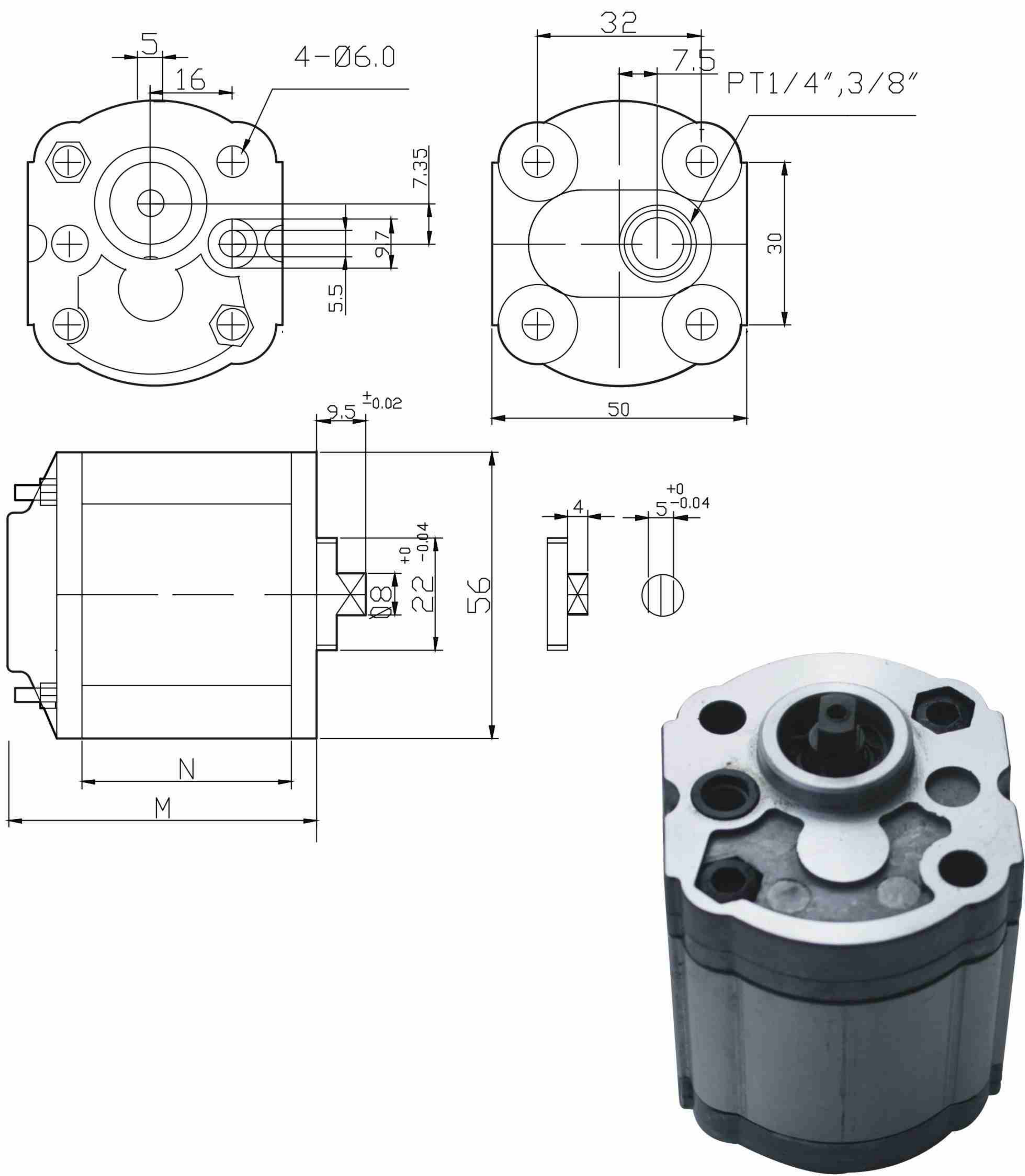
Hydraulic Gear Oil Pump



GLOBALTECH Co., Ltd.

CHUZHOU SHIJI HYDRAULIC EQUIPMENT CO.,LTD

Mounting And Connecting Size



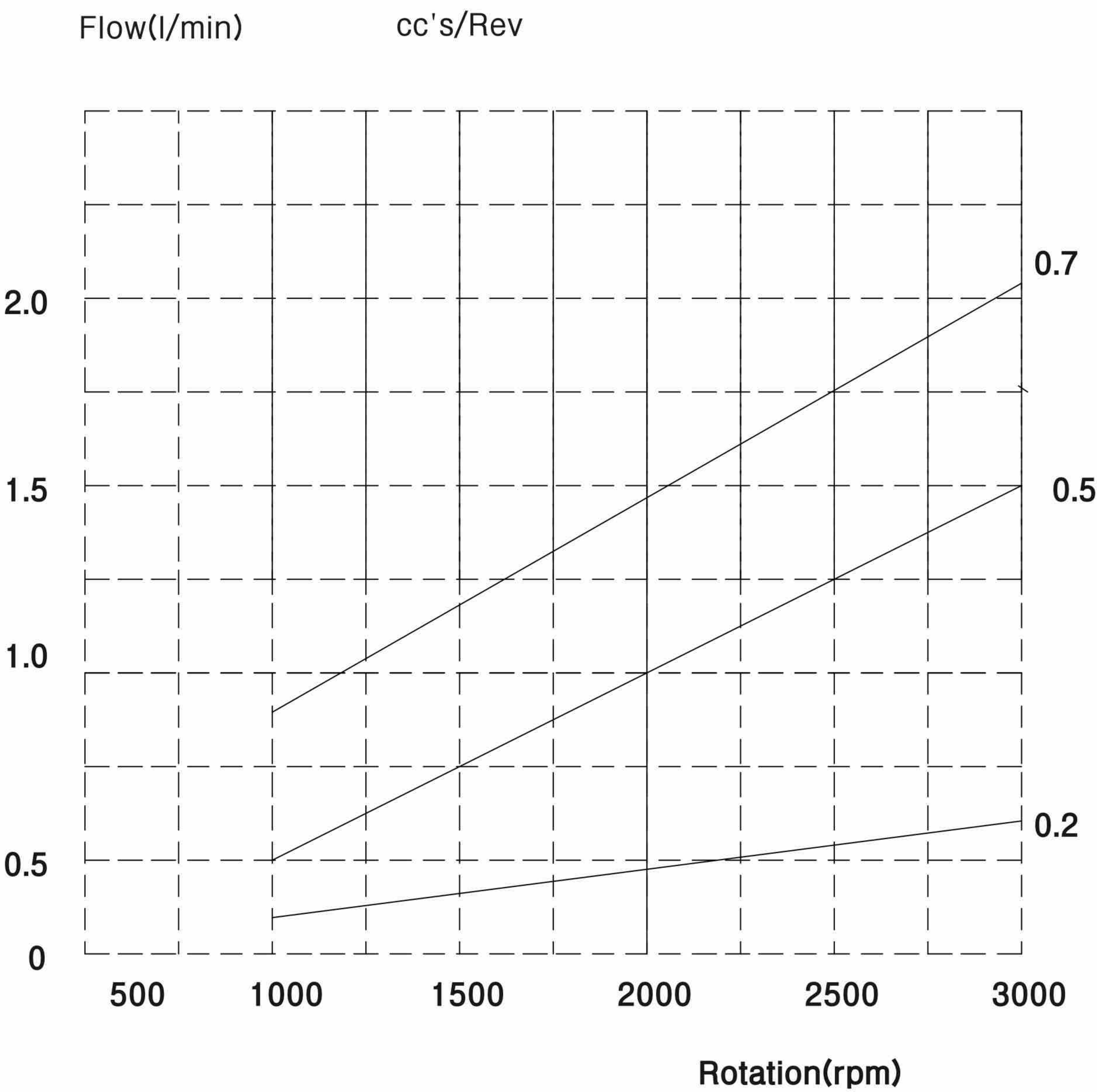
PERFORMANCE DATA

Type	Displacement (cm/rev)	Litri/min at 1500 r.p.m	Max operating pressure at 3000r/m.bar	Max peak pre. At 3000r/m.bar	Max speed r.p.m	M	N
SAP0.5DO.20	0.20	0.3	170	210	4500	61.3	30.5
SAP0.5DO.50	0.49	0.73	170	210	4500	63.8	32.0
SAP0.5DO.70	0.70	1.05	170	210	4500	64.0	34.0
SAP0.5DO.10	0.90	1.35	170	210	4500	66.0	36.0

Single Pump

SAP0.5-. Performane Curves

- 1. Fluid Temperature = 48 ±2°c
- 2. Viscosity = 30 cst



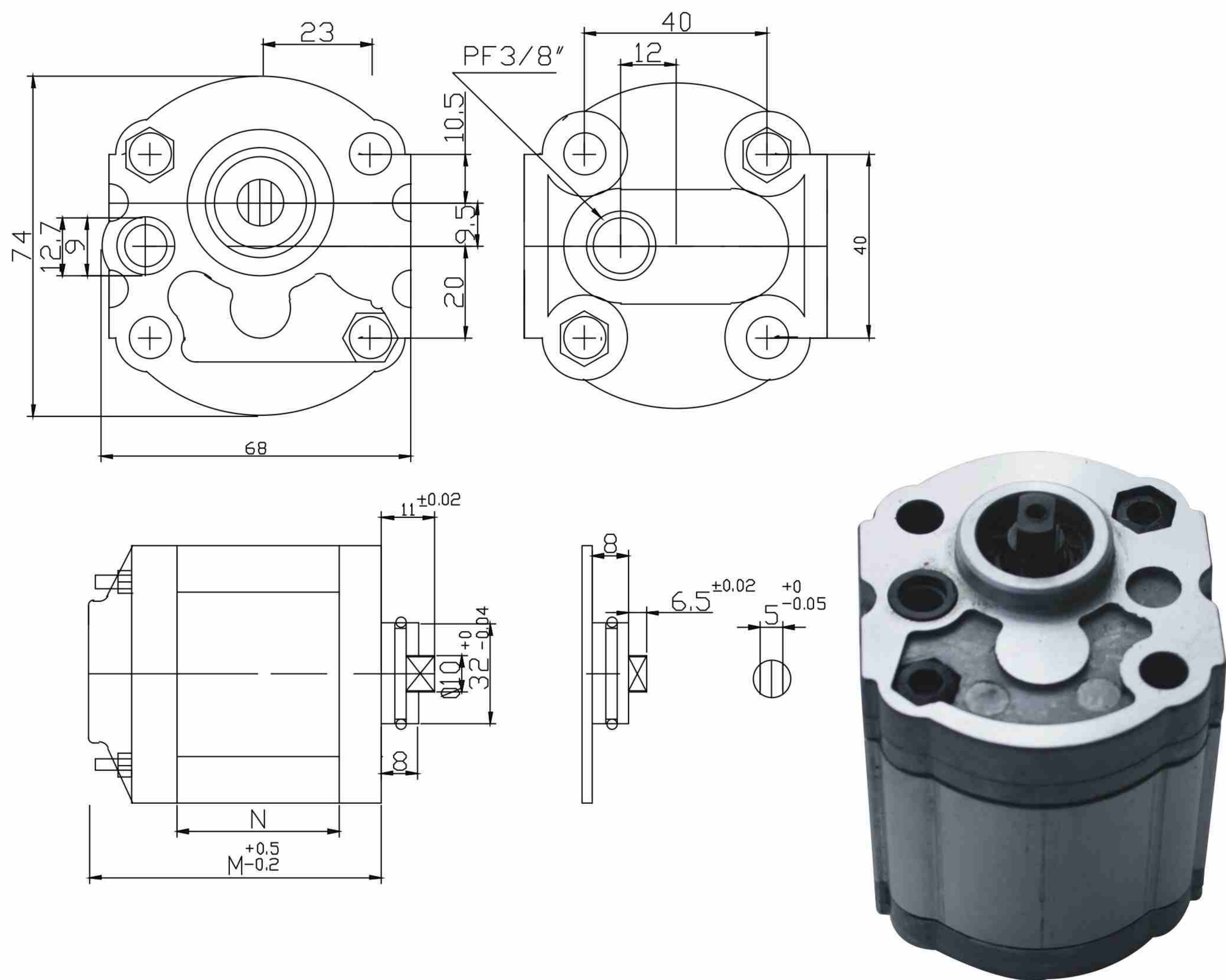
ASESA Hydraulic Gear Pump 10 Series



PERFORMANCE DATA

Type	Displacement (cm/mm)	Min. Speed r.p.m	Max. speed r.p.m	Max operating pressure at 1500rpm(kg/cm)	Pump Flow 1500rpm/L	Max peak pressure (kg/cm)
SAP10 – 1.0	1.0	600	4500	250	1.5	270
SAP10 – 2.0	2.0	600	4500	250	3.0	270
SAP10 – 3.2	3.2	600	3500	250	4.8	270
SAP10 – 4.0	4.0	600	3500	240	6.0	250
SAP10 – 5.0	5.0	600	3500	240	7.5	230
SAP10 – 6.3	6.3	600	3500	230	9.5	230
SAP10 – 8.0	8.0	600	3000	220	12.0	210

Mounting And Connecting Size



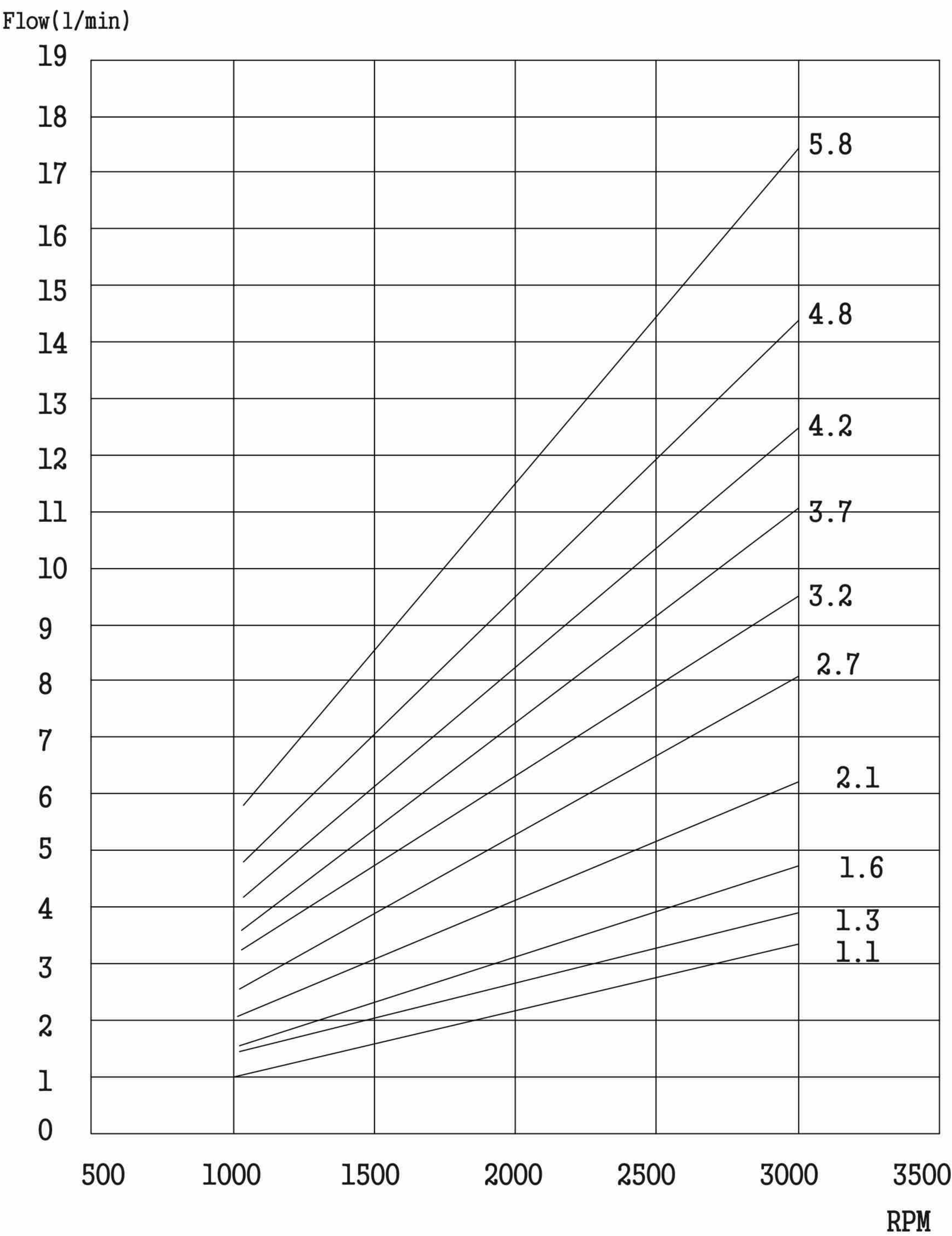
PERFORMANCE DATA

Type	Displacement (cm/rev)	Litri/min at 1500 r.p.m	Max operating pressure at 1500r/m.bar	Max peak pre. At 3000r/m.bar	Max speed r.p.m	M	N
SAP10 - 1.1	1.1	1.65	210	250	4500	74	36
SAP10 - 1.3	1.3	1.95	210	250	4500	75	37
SAP10 - 1.6	1.6	2.40	210	250	4500	76	38
SAP10 - 2.1	2.1	3.15	210	250	4500	78	40
SAP10 - 2.7	2.7	4.05	210	250	4000	80	42
SAP10 - 3.2	3.2	4.80	200	240	3800	82	44
SAP10 - 3.7	3.7	5.55	200	240	3200	84	46
SAP10 - 4.2	4.2	6.30	180	220	2800	85	48
SAP10 - 4.8	4.8	7.20	180	220	2500	88	50
SAP10 - 5.8	5.8	8.70	170	210	1800	92	54
SAP10 - 8.0	8.0	12.00	170	210	1500	100	62

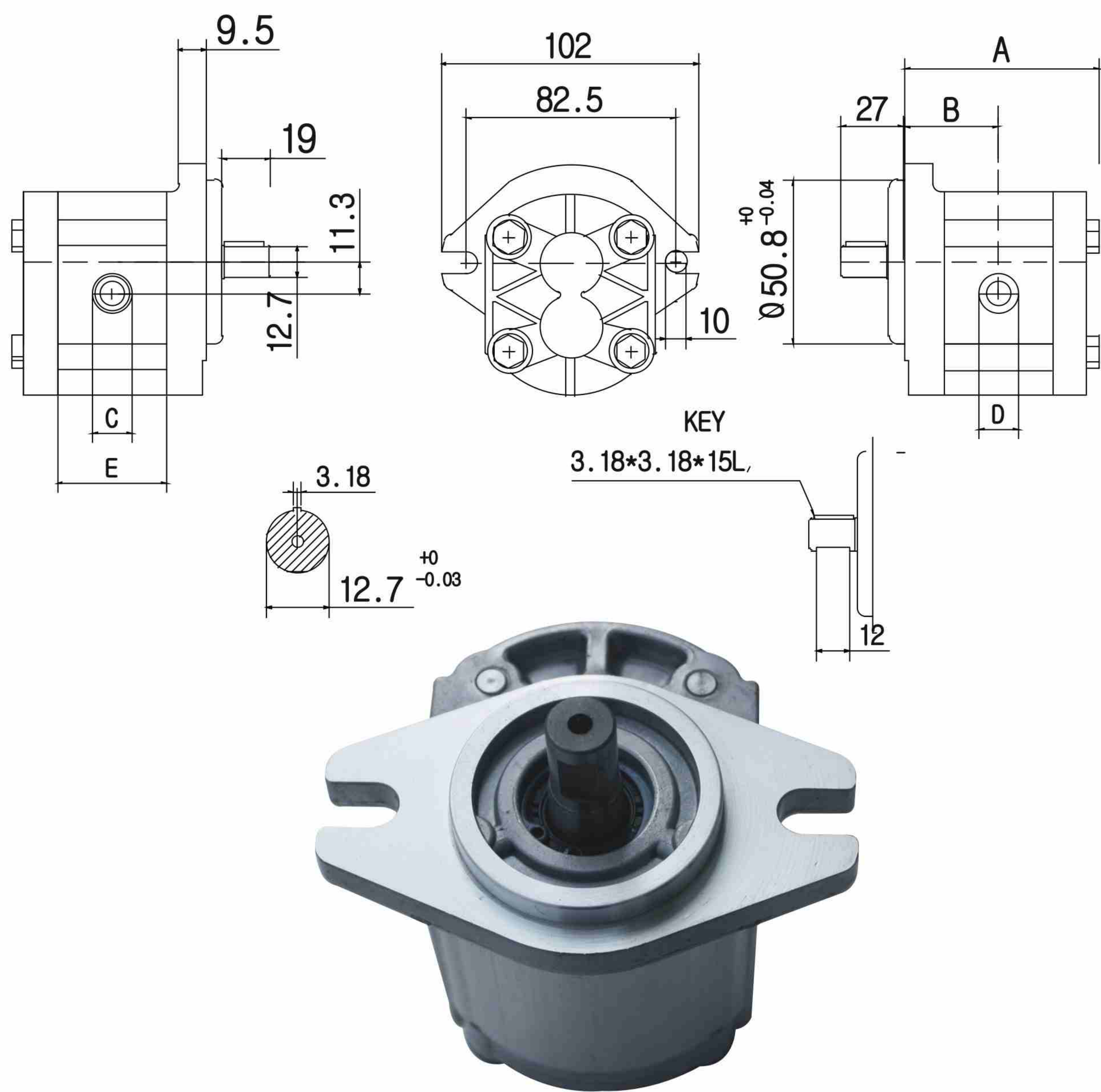
Pump

SAP10C. Performane Curves

- 1. Fluid Temperature = 48 ±2°c
- 2. Viscosity = 30 cst



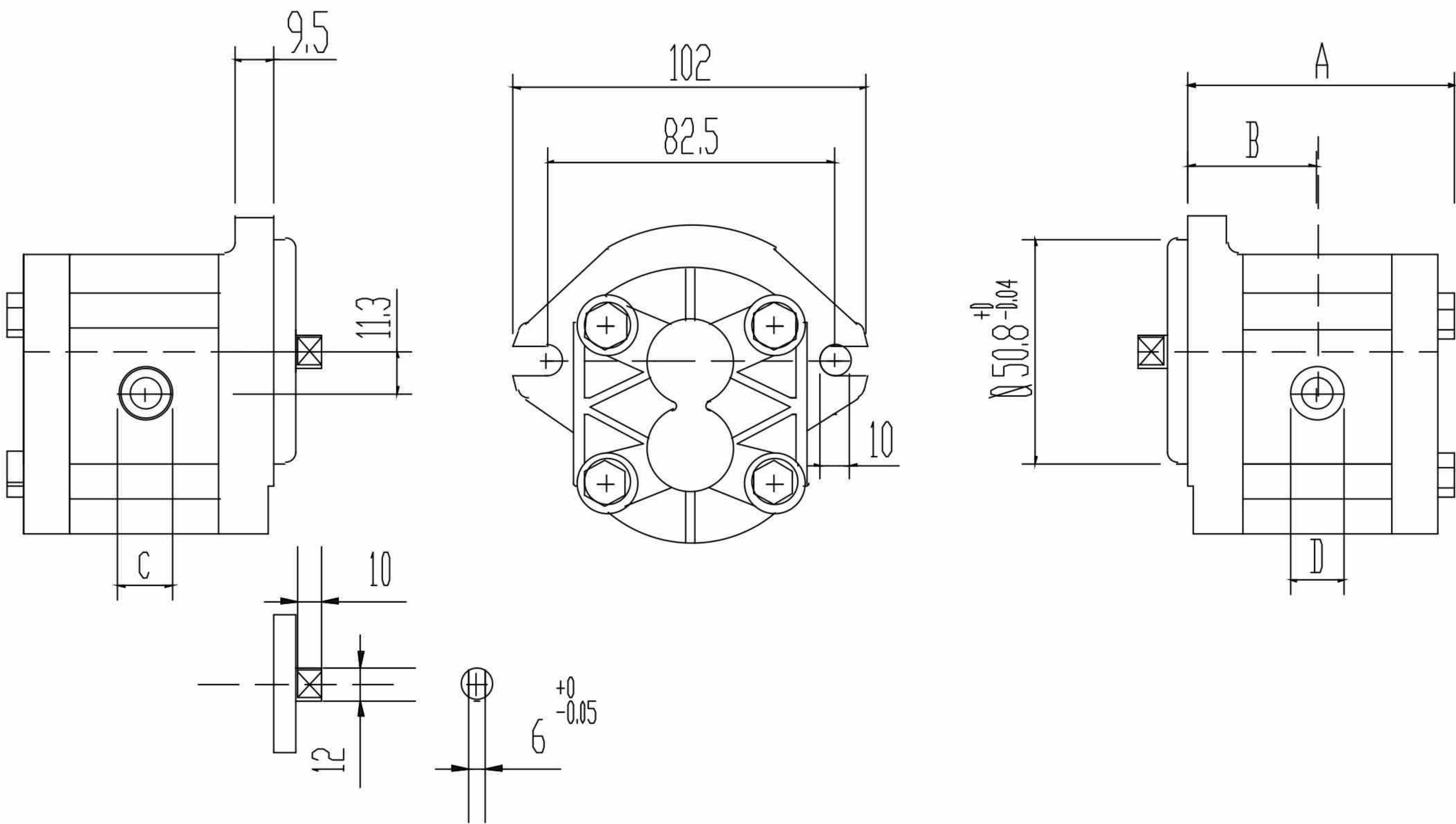
Mounting And Connecting Size



DIMENSIONS & PORT SIZE

Type	A	B	E	C(IN) (PS)	D(OUT) (PS)
	mm	mm	mm		
SAP10 - 1.0	67.7	33.6	35.8	3/8"	3/8"
SAP10 - 2.0	70.9	35.2	38.3		
SAP10 - 3.15	74.5	37.0	41.8		
SAP10 - 4.0	77.3	38.4	44.8	1/2"	1/2"
SAP10 - 5.0	80.5	40.0	47.8		
SAP10 - 6.3	84.5	42.0	51.8		
SAP10 - 8.0	90.0	44.8	57.8		

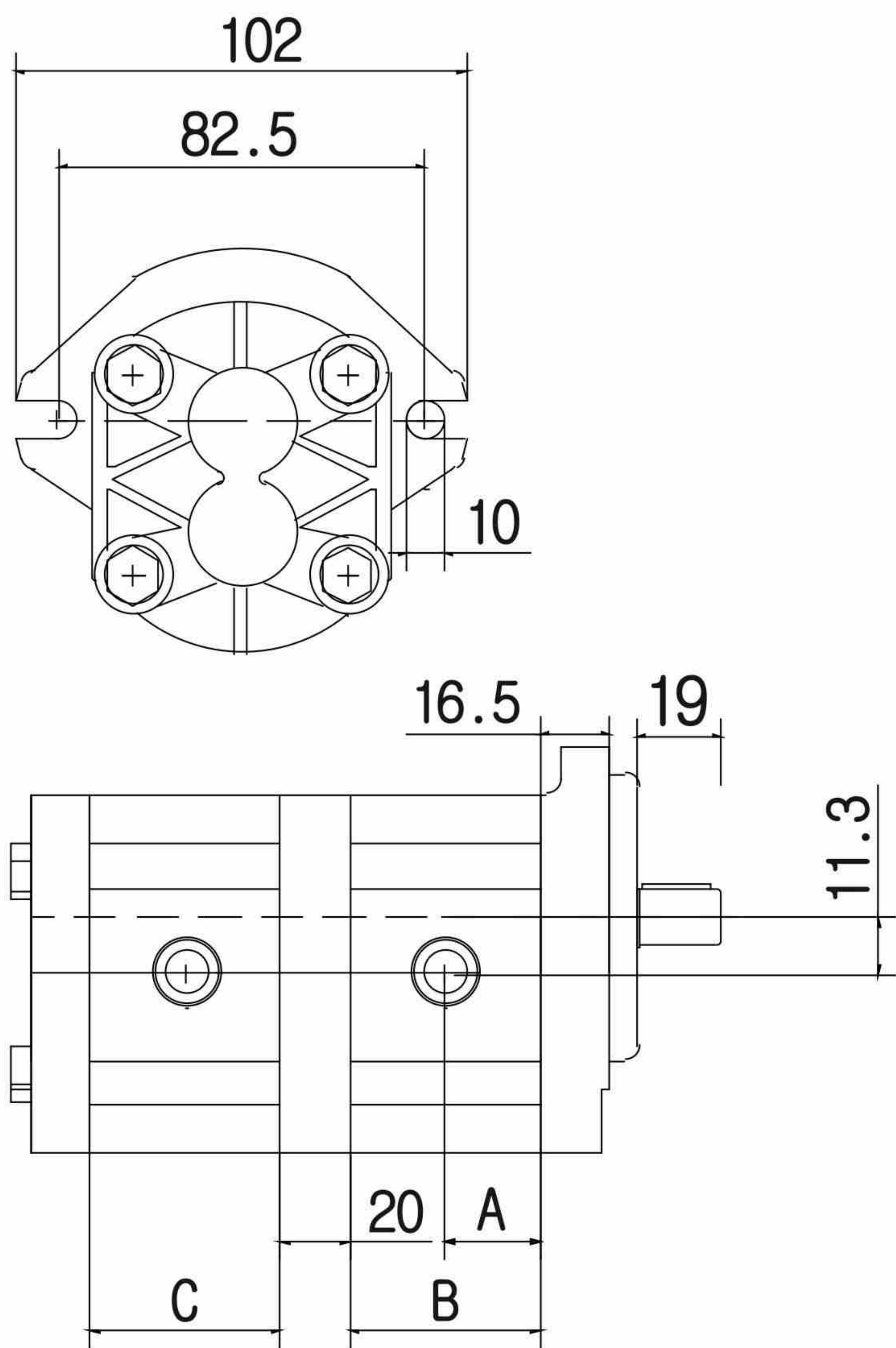
Mounting And Connecting Size



DIMENSIONS & PORT SIZE

Type	A	B	C(IN) (PS)	D(OUT) (PS)
	mm	mm		
SAP10 - 1.0	67.7	33.6	3/8"	3/8"
SAP10 - 2.0	70.9	35.2		
SAP10 - 3.15	74.5	37.0		
SAP10 - 4.0	77.3	38.4	1/2"	1/2"
SAP10 - 5.0	80.5	40.0		
SAP10 - 6.3	84.5	42.0		
SAP10 - 8.0	90.0	44.8		

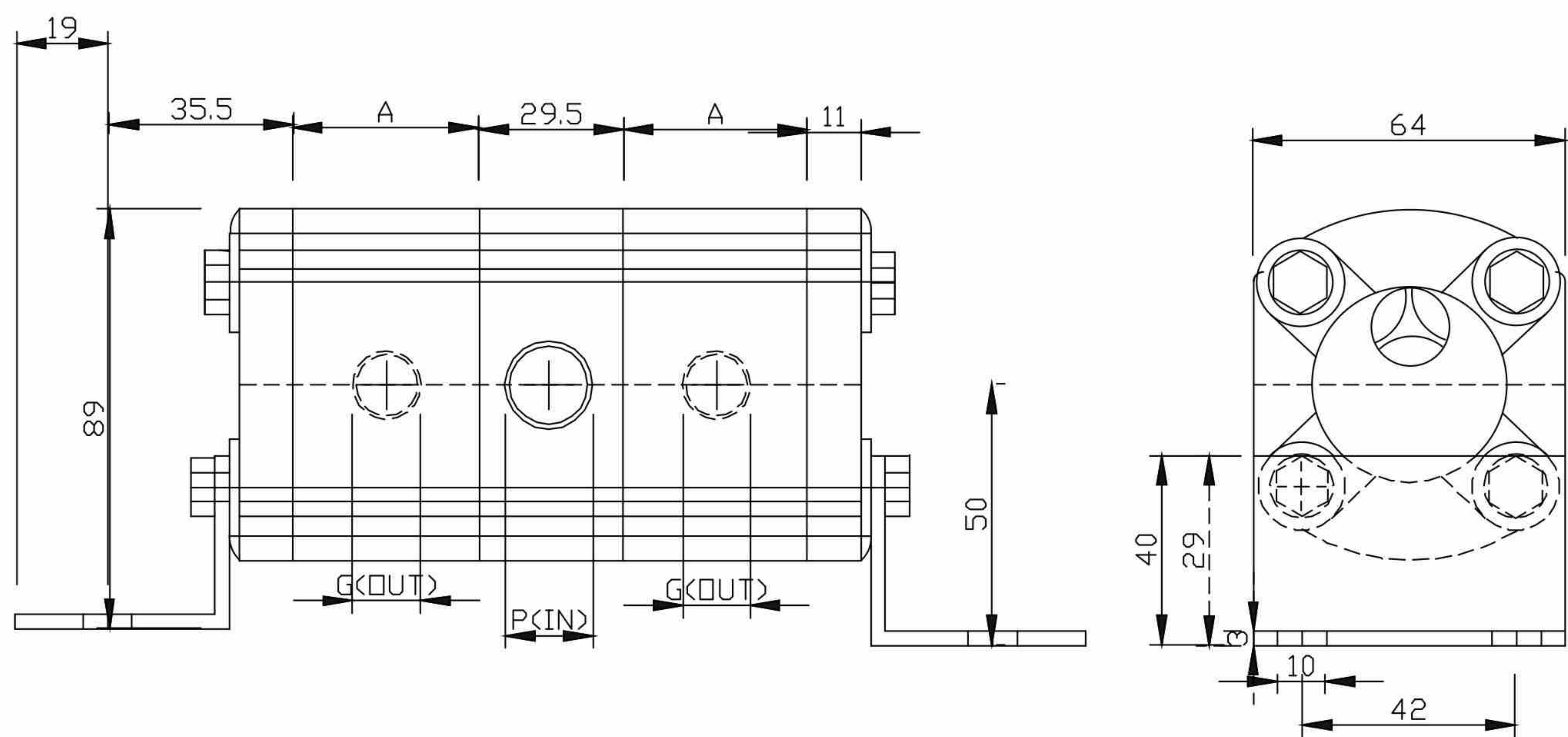
Mounting And Connecting Size



DIMENSIONS & PORT SIZE

Type	A	B	C
	mm	mm	mm
SAP10 - 1.0*1.0	17.9	35.8	35.8
SAP10 - 2.0*2.0	19.2	38.3	38.3
SAP10 - 3.2*3.2	20.9	41.8	41.8
SAP10 - 4.0*4.0	22.8	44.8	44.8
SAP10 - 5.0*5.0	23.9	47.8	47.8
SAP10 - 6.3*6.3	25.9	51.8	51.8
SAP10 - 8.0*8.0	28.9	57.8	57.8

Mounting And Connecting Size



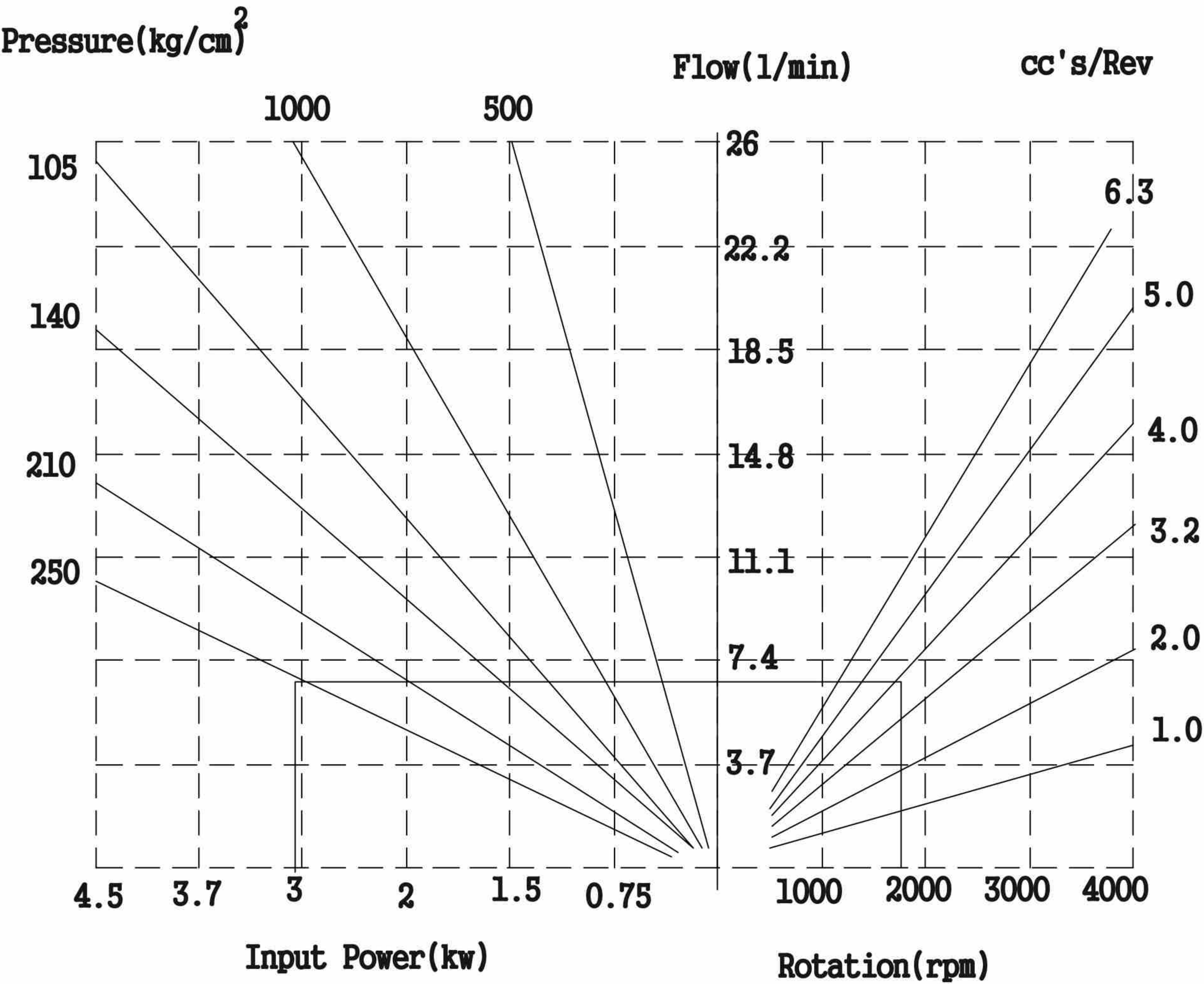
DIMENSIONS & PORT SIZE

ELEMENTS OF DIVIDER					
Type	A	IN.NET(P)	OUT.NET(G)	PRESSURE (BAR)	SPEED (RPM)
DSAP10 - 2	38.3	1/2"PS	3/8"PS	250	900-2500
DSAP10 - 4	44.8	1/2"	1/2"	250	900-2500

Single Pump

SAP10. Performane Curves(pumps&motors)

- 1. Fluid Temperature = 45 ±2℃
- 2. Viscosity = 20 - 100 cst
- 3. Speed(min.) = 500 rpm

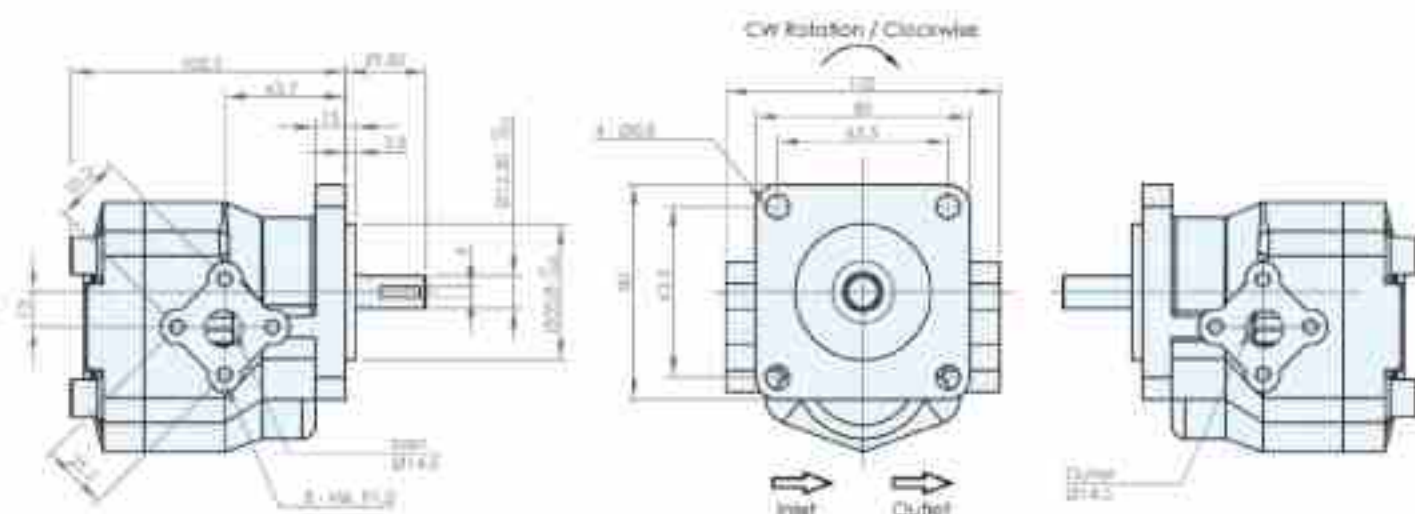




Displacement: 2-12 cc/rev

Max. pressure: 250 Bar

Flange: JIS 4-BOLT



SPECIFICATIONS

Type	Displacement	Operational Pressure (kgf/cm ²)	Max. Pressure (kgf/cm ²)	Min. speed (rpm)	Max. speed (rpm)
	(cm ³ /rev)				
SAP 15A-2	2	210	250	900	5,000
SAP 15A-3	3	210	250	850	5,000
SAP 15A-4	4	210	250	800	4,500
SAP 15A-5	5	210	250	800	4,000
SAP 15A-6	6	210	250	700	3,500
SAP 15A-8	8	210	250	600	3,000
SAP 15A-9	9	210	250	550	2,500
SAP 15A-11	11	210	250	500	2,000
SAP 15A-12	12	175	210	500	2,000

PUMP

Ordering Information

SAP – 00 – 0 – 0000 – 0 – 00 – 00 – 00
(1) (2) (3) (4) (5) (6) (7) (8)

(1) SAP = Pump , SAM = MOTOR

(2) Series NO.(20=sap20)

(3) S = Single, D = Double

(4) Displacement

(5) Rotation(R:clockwise, L:counter clockwise)

(6) Shaft

(7) Covers

(8) Design No

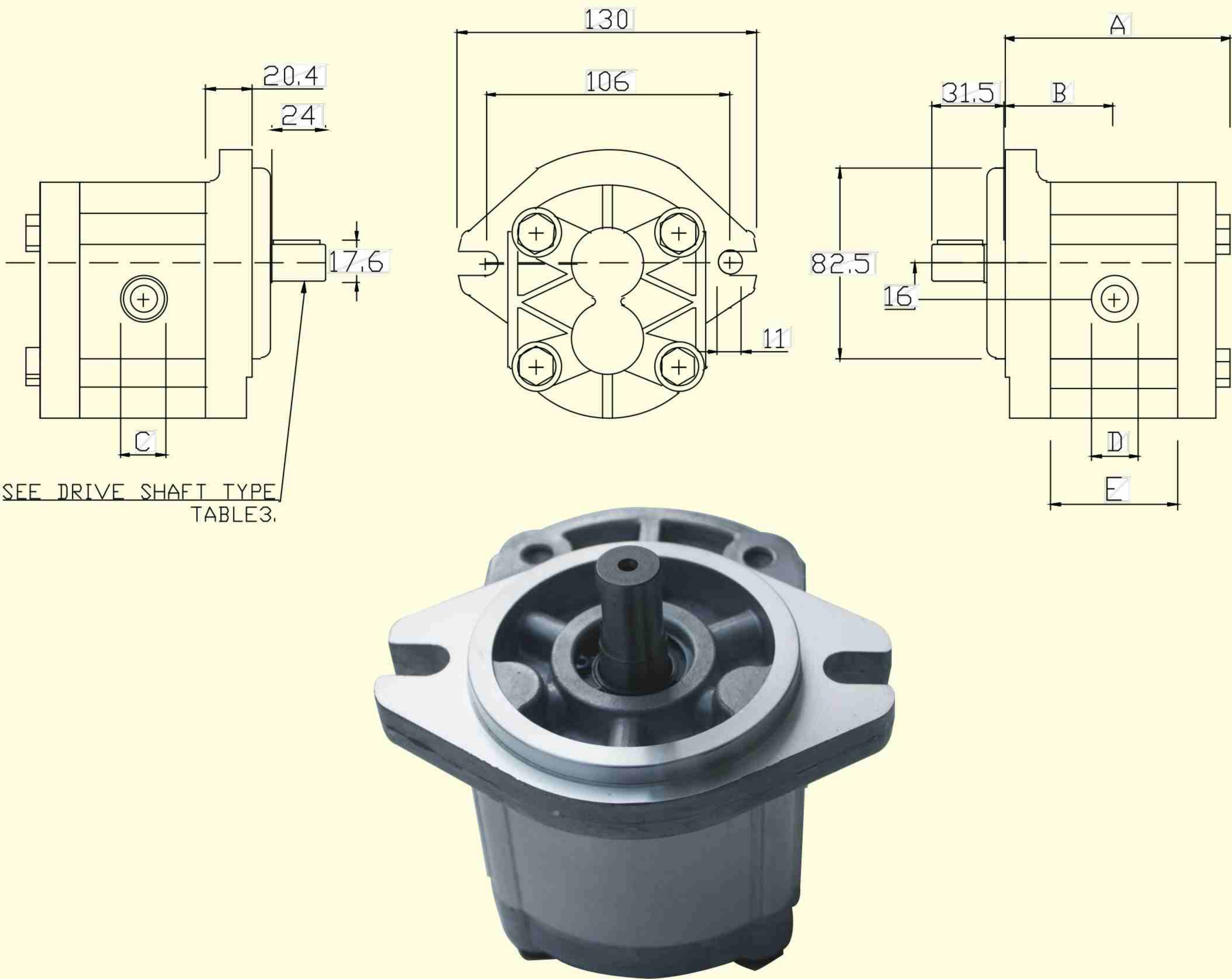
ASESA Hydraulic Gear Pump 20 Series



PERFORMANCE DATA

Type	Displacement (cm/mm)	Min. Speed r.p.m	Max. speed r.p.m	Max. oper. PRE.1500rpm (bar)	Max. CON. PRESSURE (bar)	Motor Torque 100 psi	Approx Weight(kg)
SAP20 – 4.0	4.8	600	4000	220	280	4.03	3.80
SAP20 – 6.3	6.5	600	4000	220	280	5.45	3.85
SAP20 – 8.0	8.3	600	3500	220	280	6.96	3.90
SAP20 – 11.0	11.1	600	3500	220	270	9.31	4.05
SAP20 – 14.0	14.4	600	3500	210	260	12.08	4.15
SAP20 – 16.0	16.6	600	3500	210	250	13.92	4.30
SAP20 – 20.0	20.8	600	3000	180	210	17.44	4.45
SAP20 – 25.0	26.0	600	2500	160	170	21.80	4.70
SAP20 – 31.0	32.6	600	2500	160	170	21.34	4.90

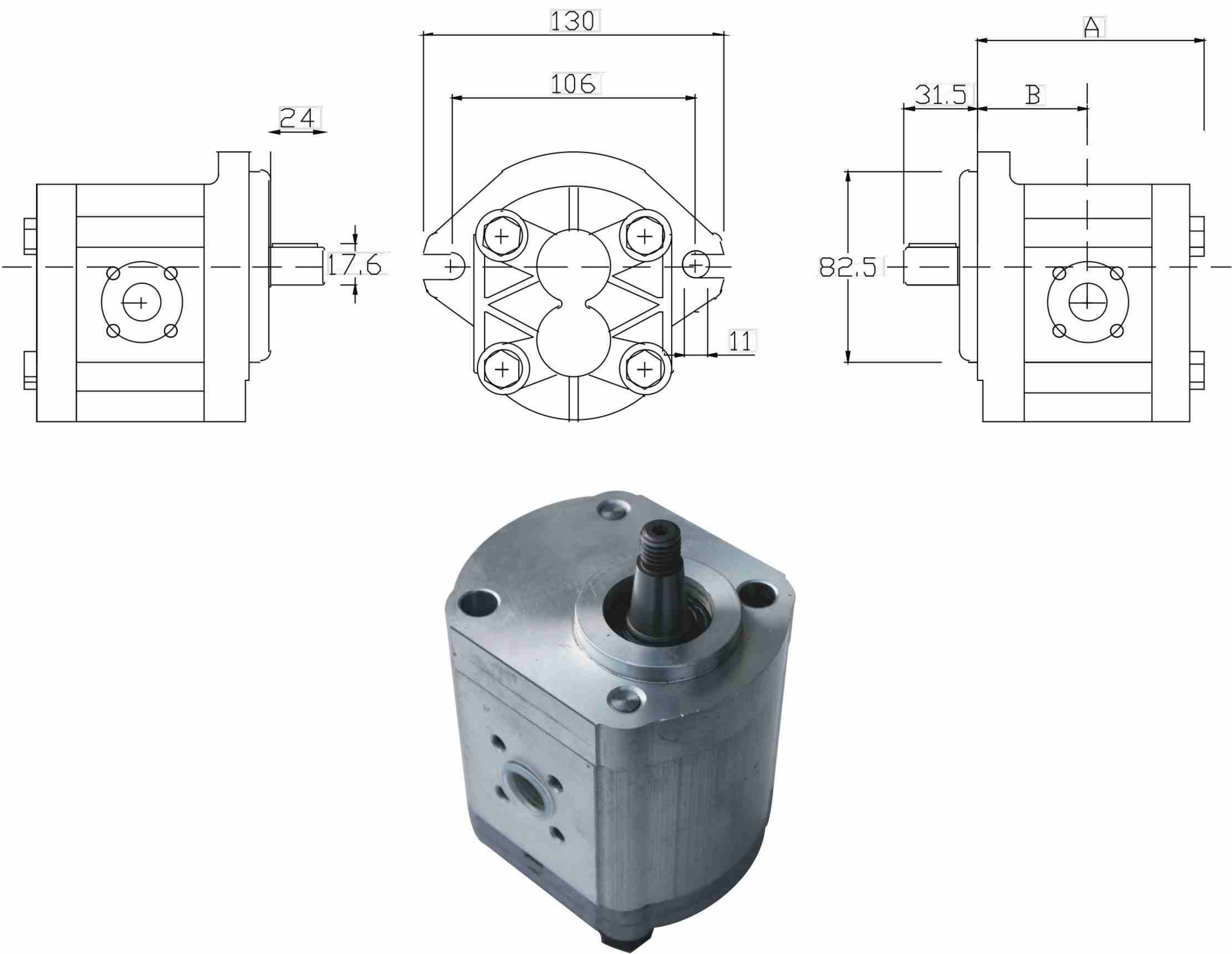
Mounting And Connecting Size

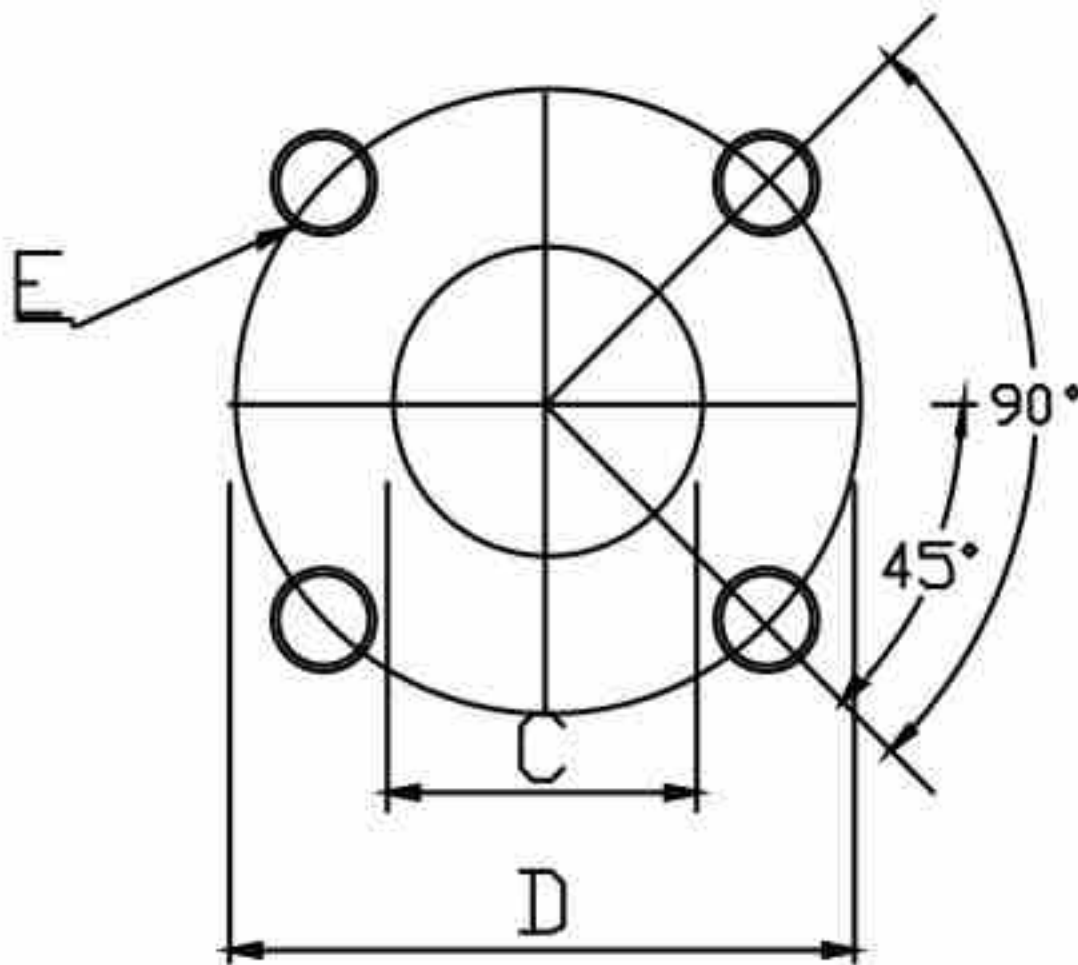


DIMENSIONS & PORT SIZE

Type	A	B	E	C(IN) (PS)	D(OUT) (PS)
	mm	mm	mm		
SAP20 – 4.0	93.0	45.0	50	1/2"	1/2"
SAP20 – 6.3	95.5	46.0	52		
SAP20 – 8.0	98.0	47.5	55		
SAP20 – 11.0	104.0	50.0	60		
SAP20 – 14.0	109.0	52.5	65	3/4"	
SAP20 – 16.0	113.0	54.5	69		
SAP20 – 20.0	118.0	57.0	74		
SAP20 – 25.0	124.0	60.0	80		
SAP20 – 31.0	131.0	63.5	87		

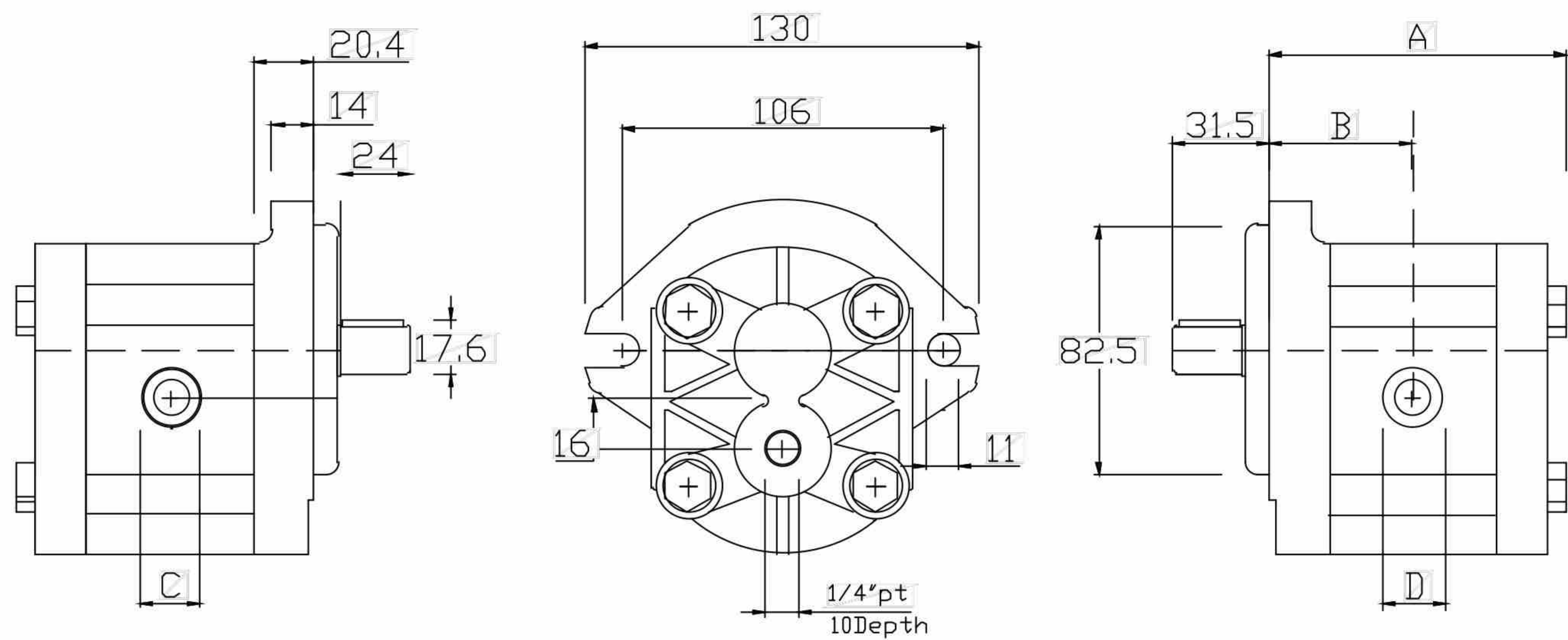
Mounting And Connecting Size



Type	A	B	FLANGE PORT TYPE																	
	mm	mm	IN	OUT																
SAP20 – 4.0	93.0	45.0	<div></div> <table><tr><td></td><td>C</td><td>D</td><td>E</td></tr><tr><td></td><td>mm</td><td>mm</td><td>mm</td></tr><tr><td>OUT</td><td>15</td><td>35</td><td>M6*P1</td></tr><tr><td>IN</td><td>20</td><td>40</td><td>M6*P1</td></tr></table>			C	D	E		mm	mm	mm	OUT	15	35	M6*P1	IN	20	40	M6*P1
	C	D			E															
	mm	mm			mm															
OUT	15	35			M6*P1															
IN	20	40			M6*P1															
SAP20 – 6.3	95.5	46.0																		
SAP20 – 8.0	98.0	47.5																		
SAP20 – 11.0	104.0	50.0																		
SAP20 – 14.0	109.0	52.5																		
SAP20 – 16.0	113.0	54.5																		
SAP20 – 20.0	118.0	57.0																		
SAP20 – 25.0	124.0	60.0																		
SAP20 – 31.0	131.0	63.5																		

HYDRAULIC MOTOR

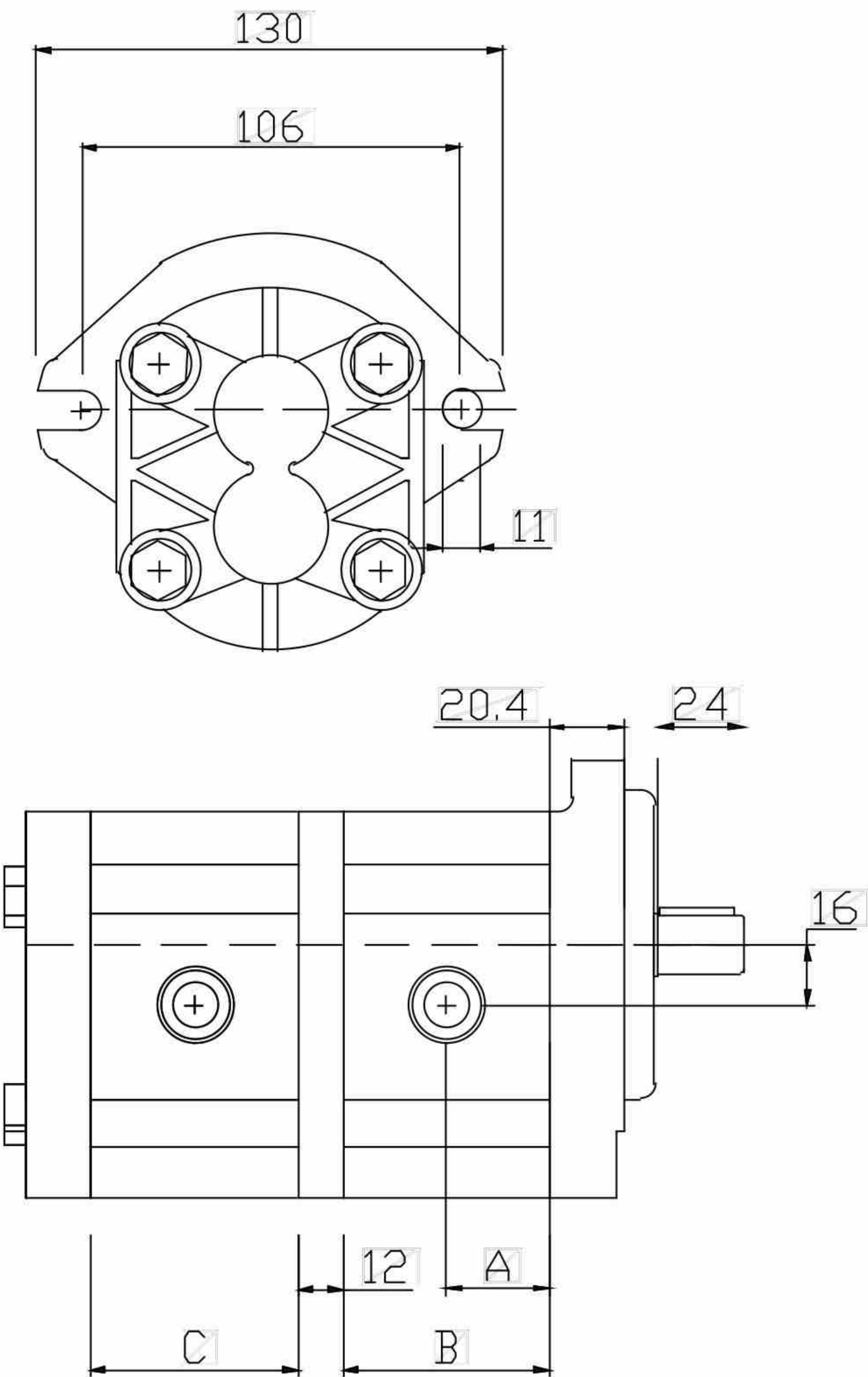
Mounting And Connecting Size



DIMENSIONS & PORT SIZE

Type	A	B	C(IN) (PS)	D(OUT) (PS)
	mm	mm		
SAM20 – 4.0	93.0	45.0	1/2"	1/2"
SAM20 – 6.3	95.5	46.0		
SAM20 – 8.0	98.0	47.5		
SAM20 – 11.0	104.0	50.0		
SAM20 – 14.0	109.0	52.5		
SAM20 – 16.0	113.0	54.5		
SAM20 – 20.0	118.0	57.0		
SAM20 – 25.0	124.0	60.0		
SAM20 – 31.0	131.0	63.5		

Mounting And Connecting Size

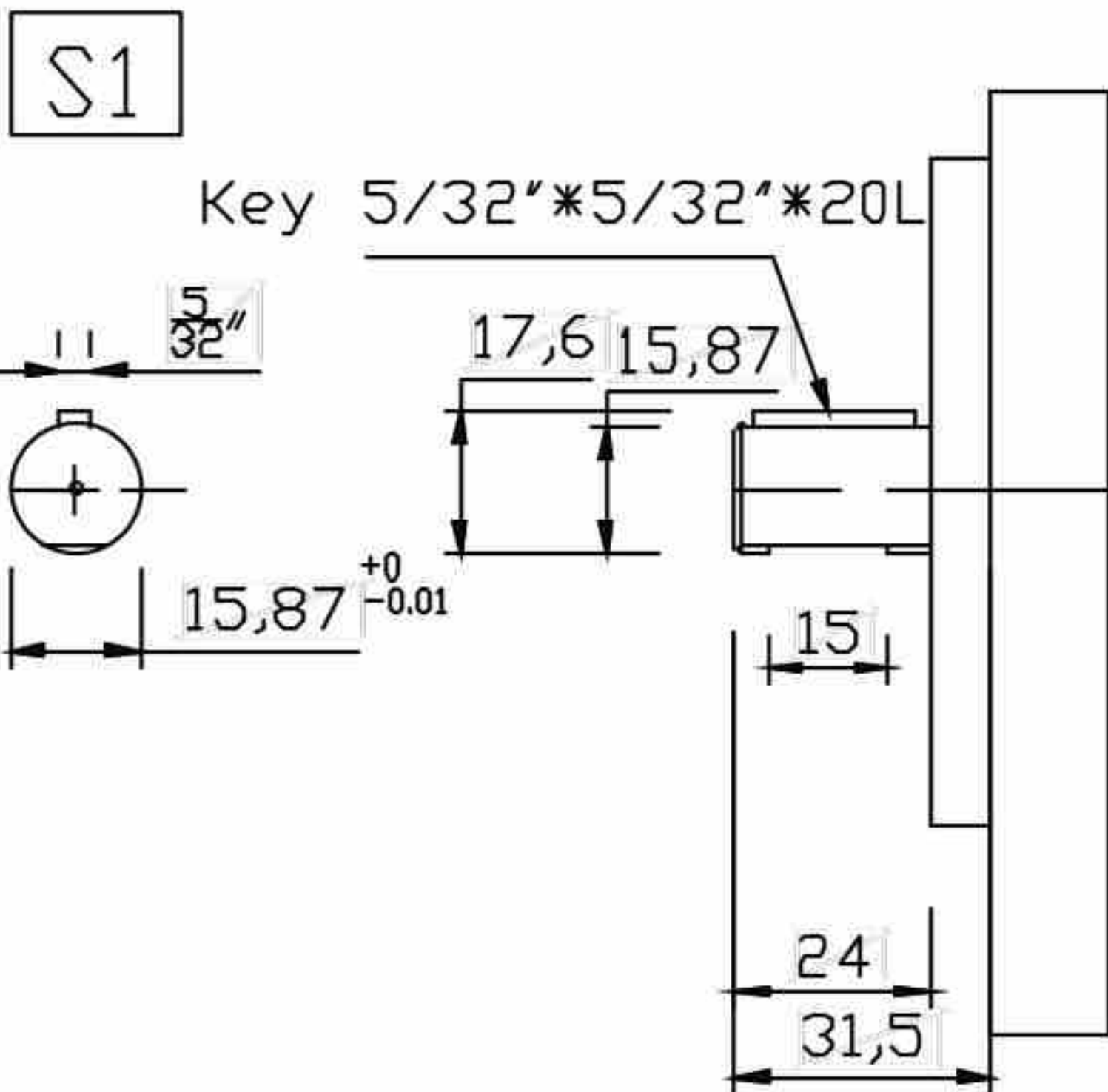


DIMENSIONS & PORT SIZE

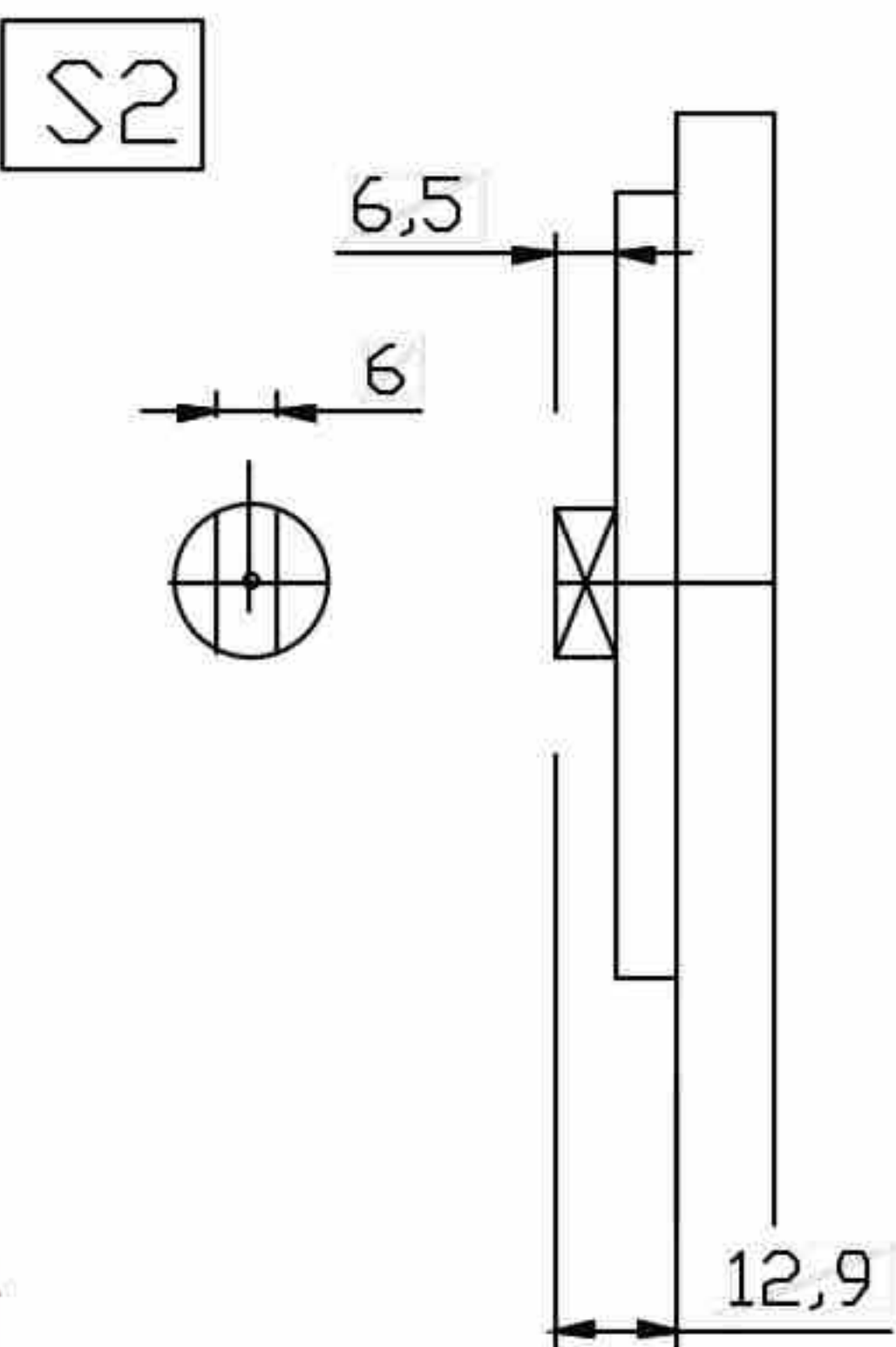
Type	A	B	C
	mm	mm	mm
SAM20 – 4.0*4.0	25.0	50.0	50.0
SAM20 – 6.3*6.3	26.0	52.0	52.0
SAM20 – 8.0*8.0	27.5	55.0	55.0
SAM20 – 11.0*11.0	30.0	60.0	60.0
SAM20 – 14.0*14.0	32.5	65.0	65.0
SAM20 – 16.0*16.0	34.5	69.0	69.0
SAM20 – 20.0*20.0	37.0	74.0	74.0
SAM20 – 25.0*25.0	40.0	80.0	80.0
SAM20 – 31.0*31.0	43.5	87.0	87.0

Drive Shaft Type

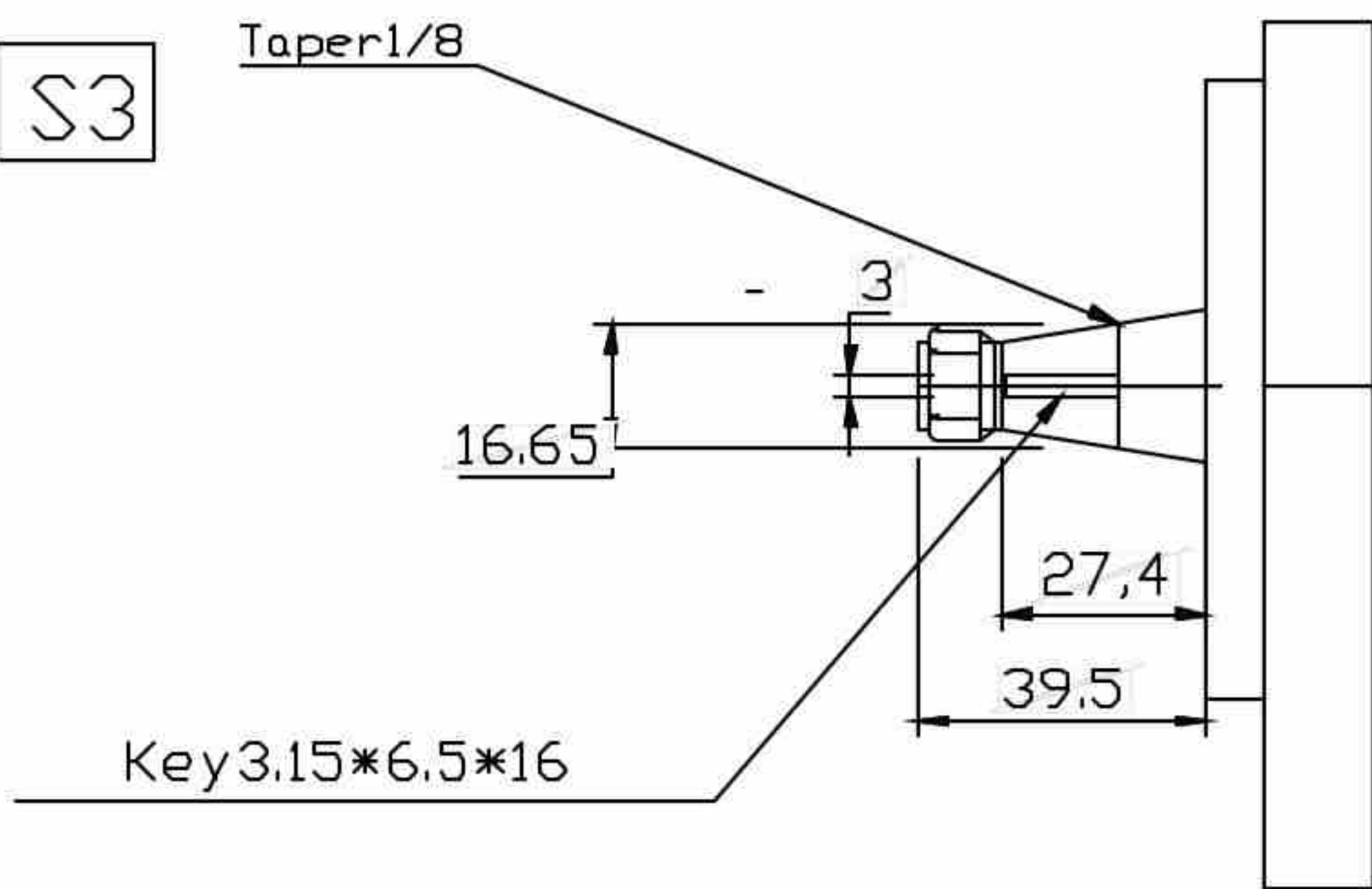
TABLE 3.



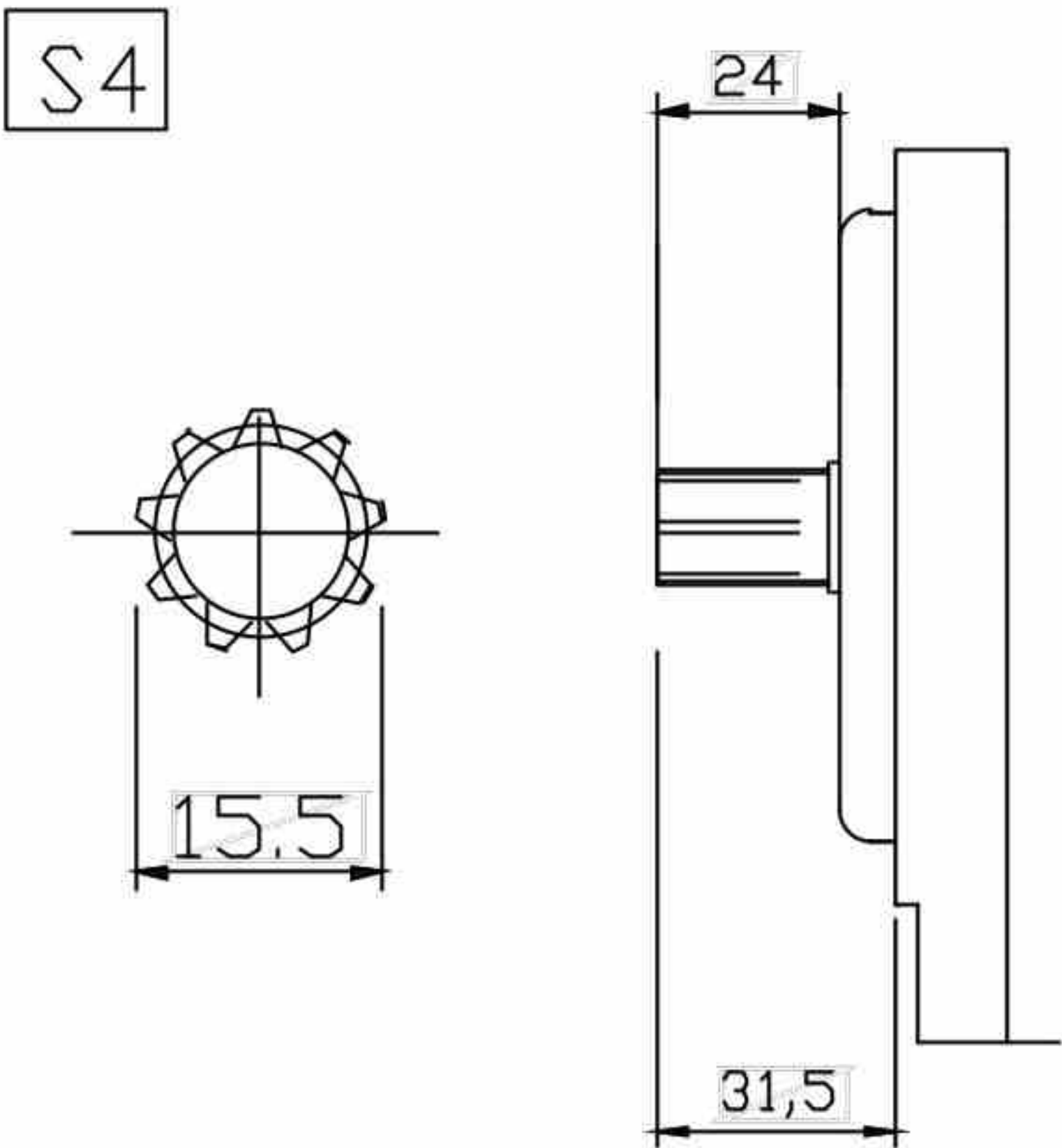
* SAE "A" STRAIGHT SHAFT
MAX. TORQUE 70NM



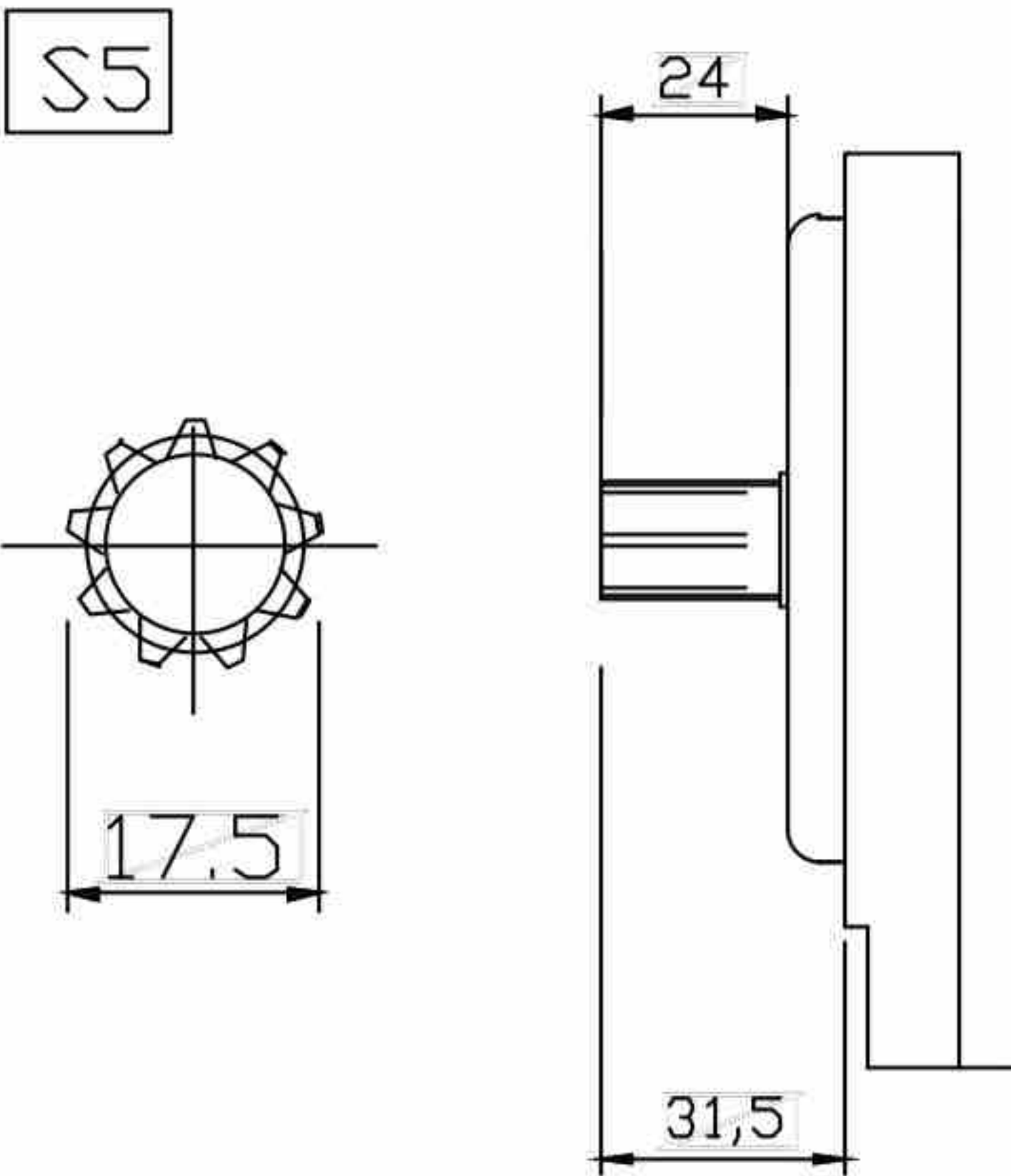
* EXTERNAL TONGUE
MAX. TORQUE 65NM



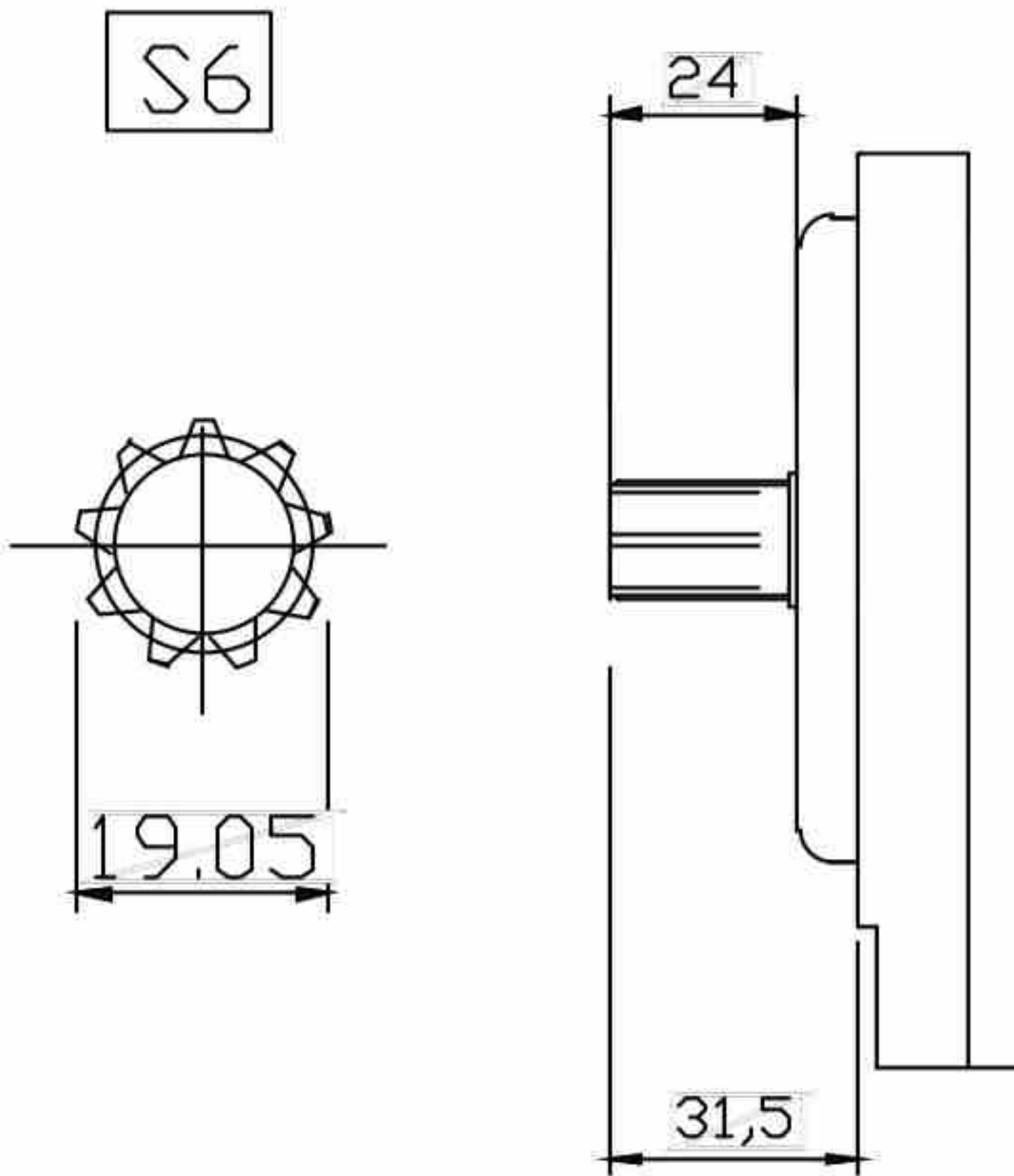
* 1/8 TAPER SHAFT
WOODRUFF KEY 3.2 * 12.7
MAX. TORQUE 140NM



* SAE 9T-16/32
MAX. TORQUE 100NM
M=1.5, PA=20

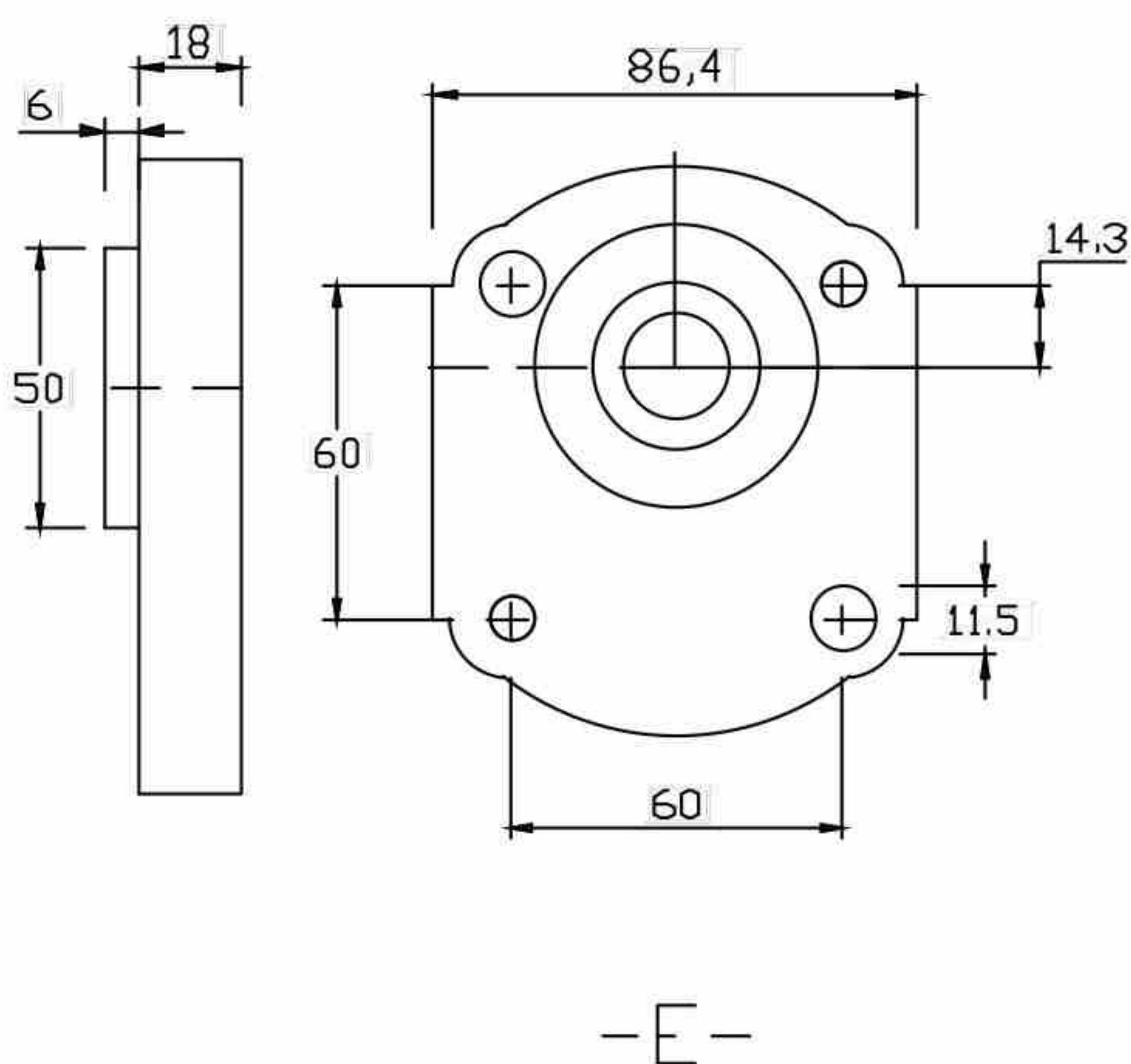
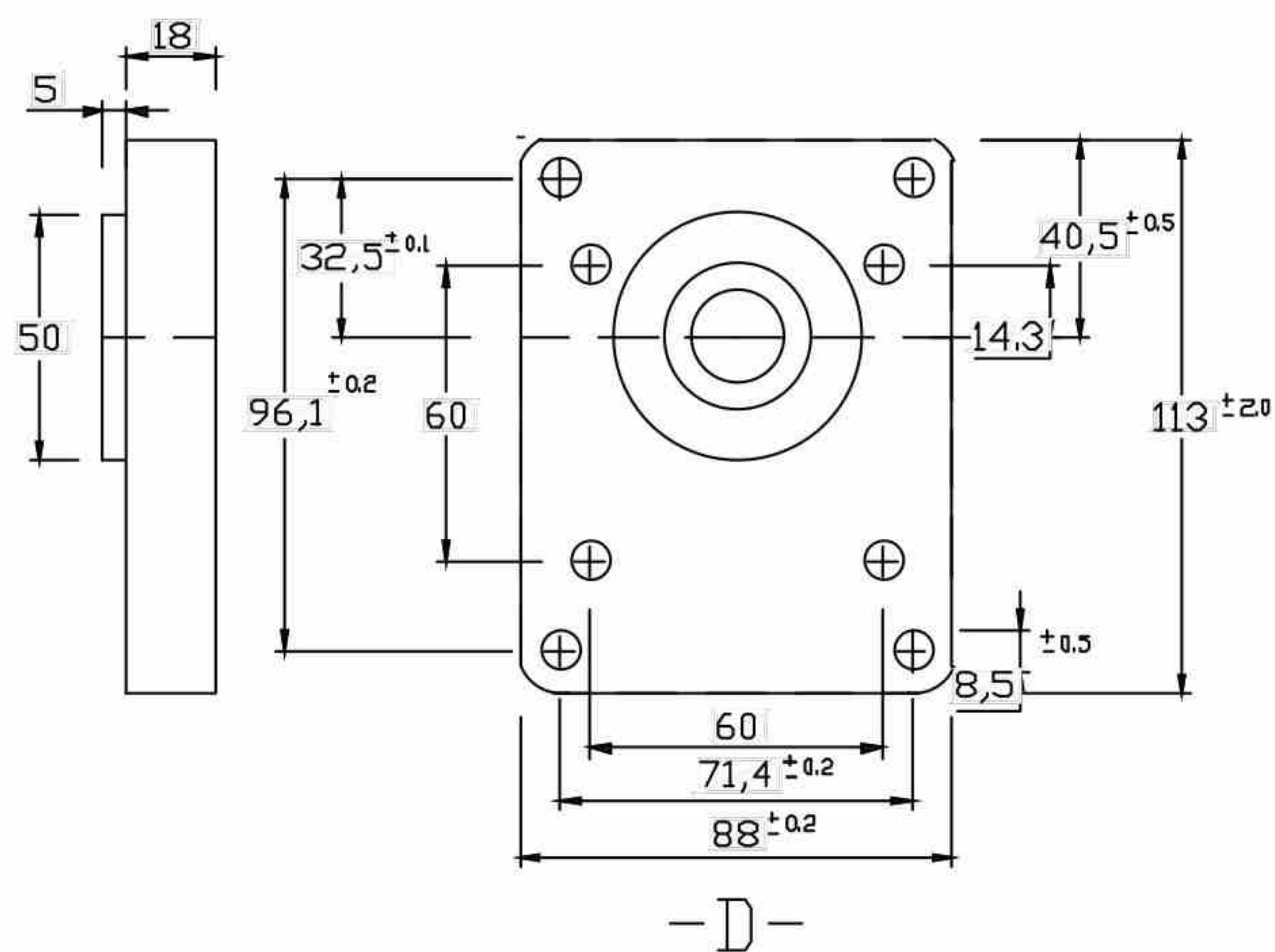
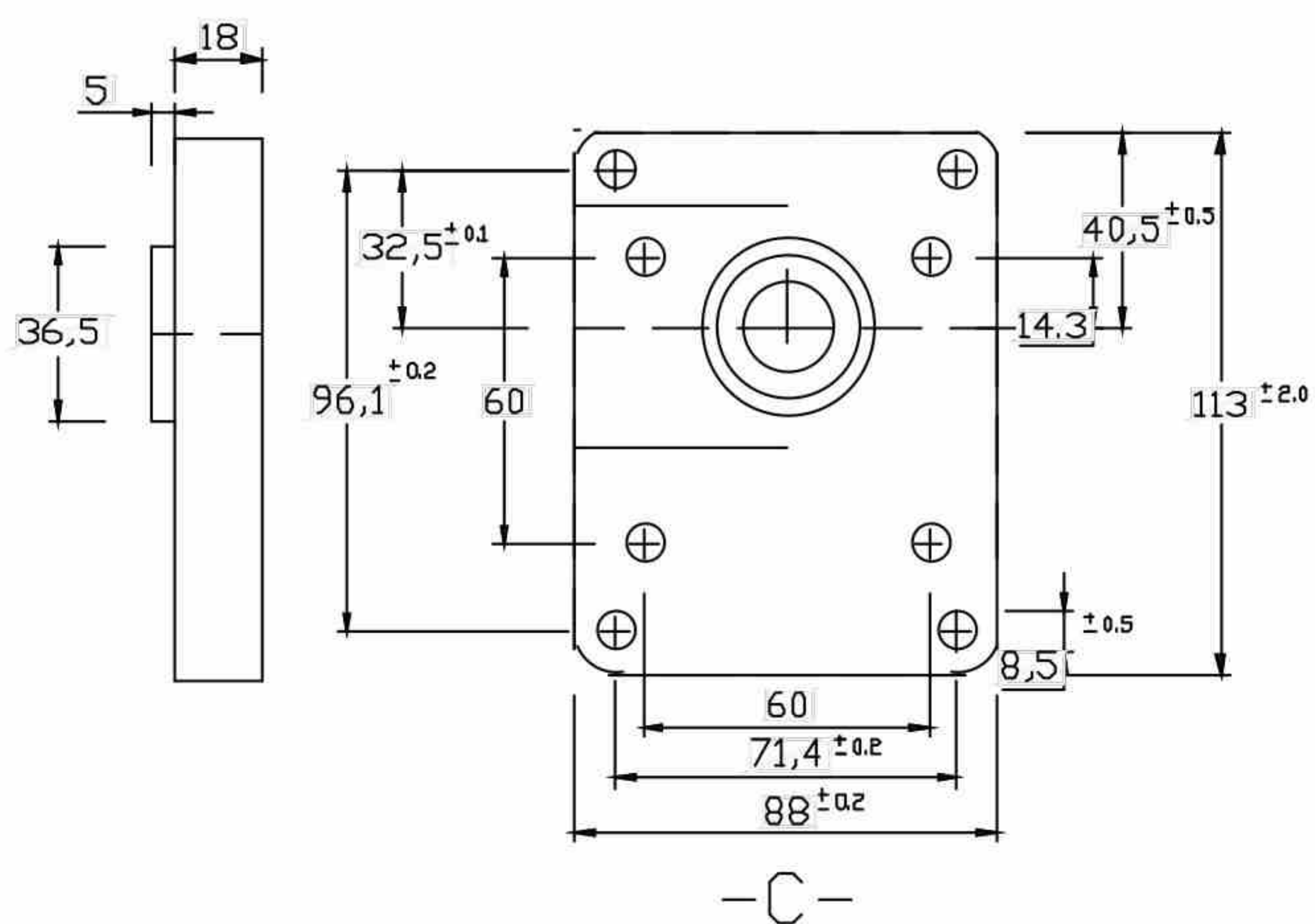
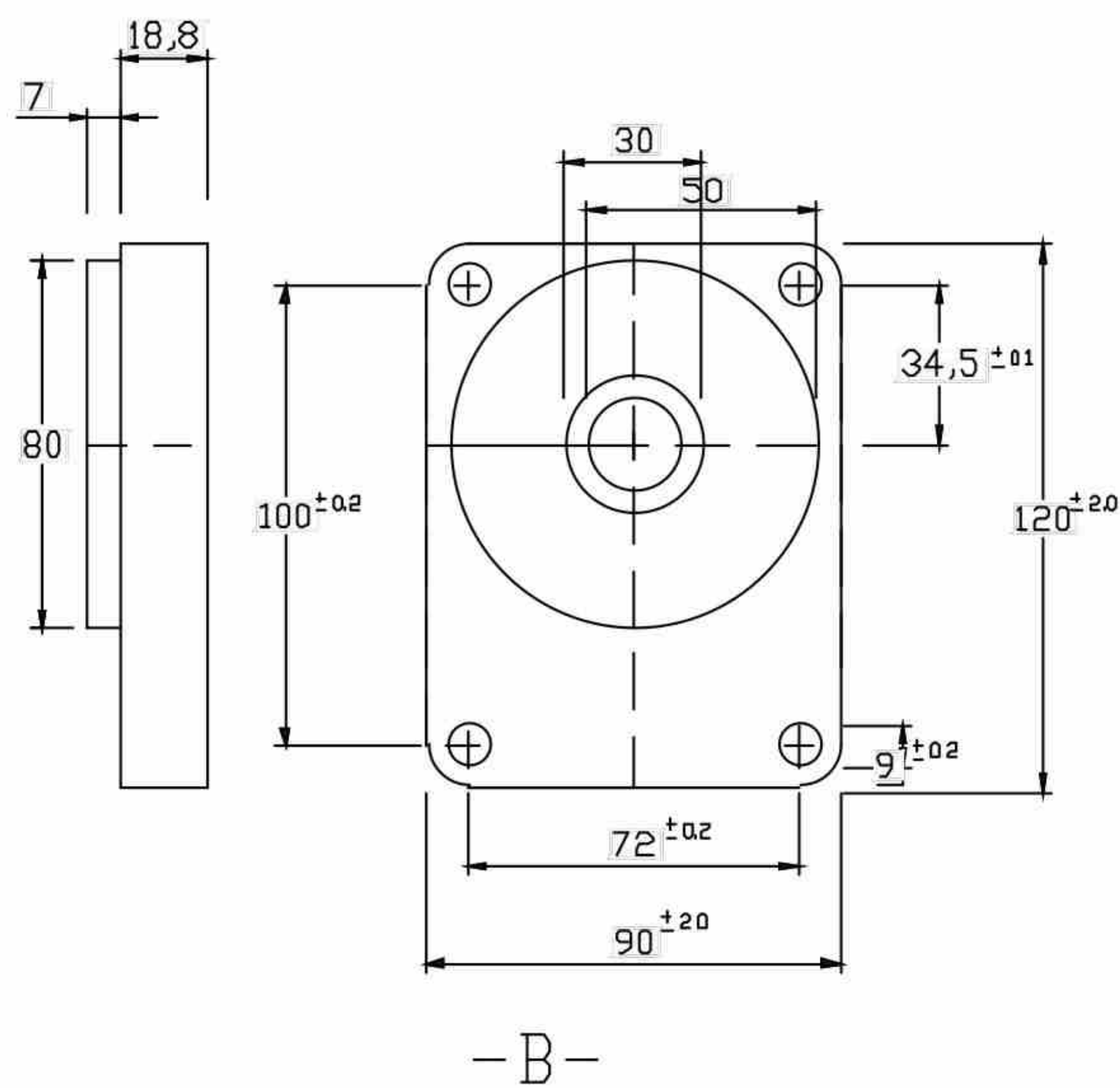
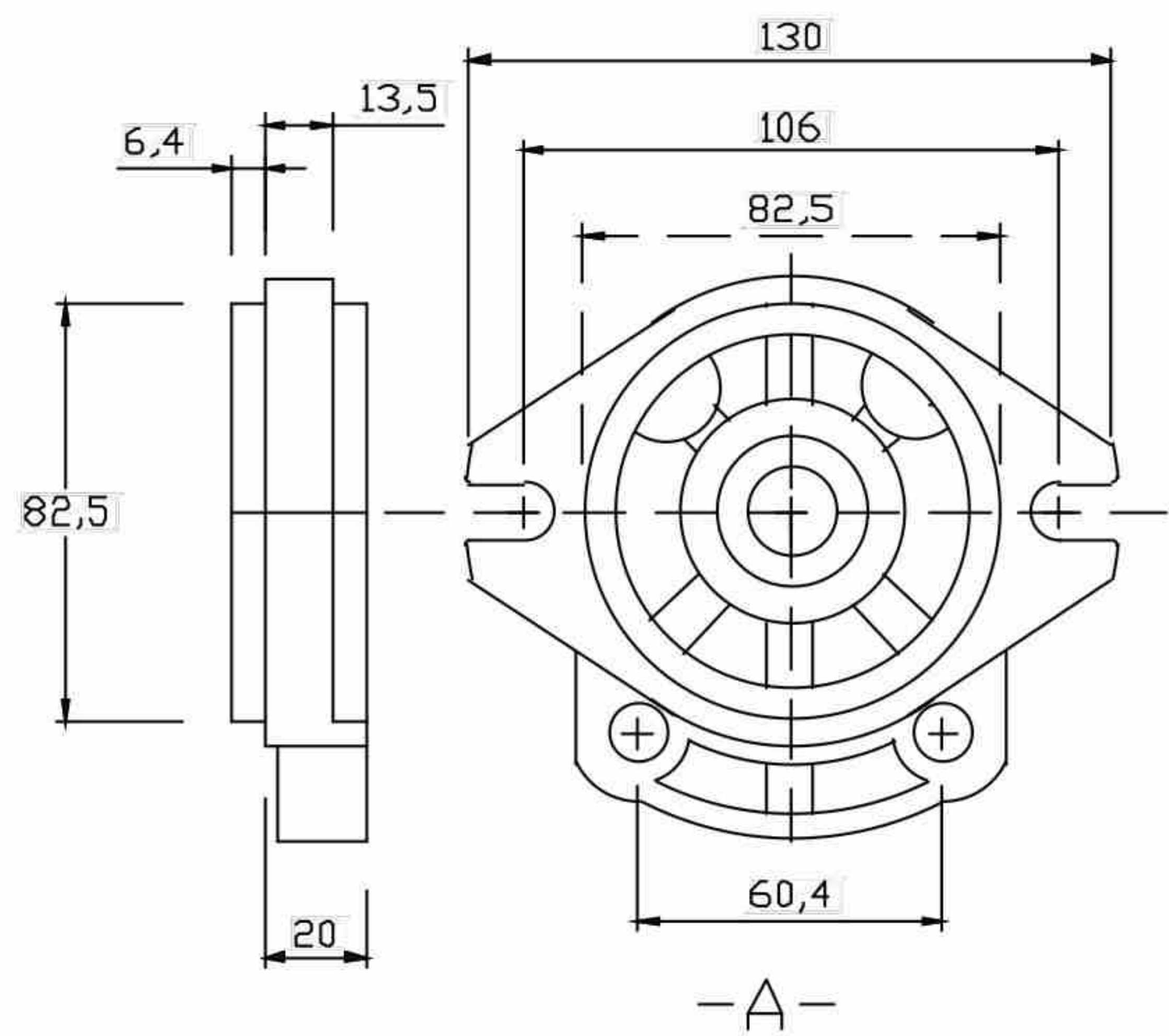


* SAE 10T-16/32
MAX. TORQUE 135NM
M=1.5, PA=20

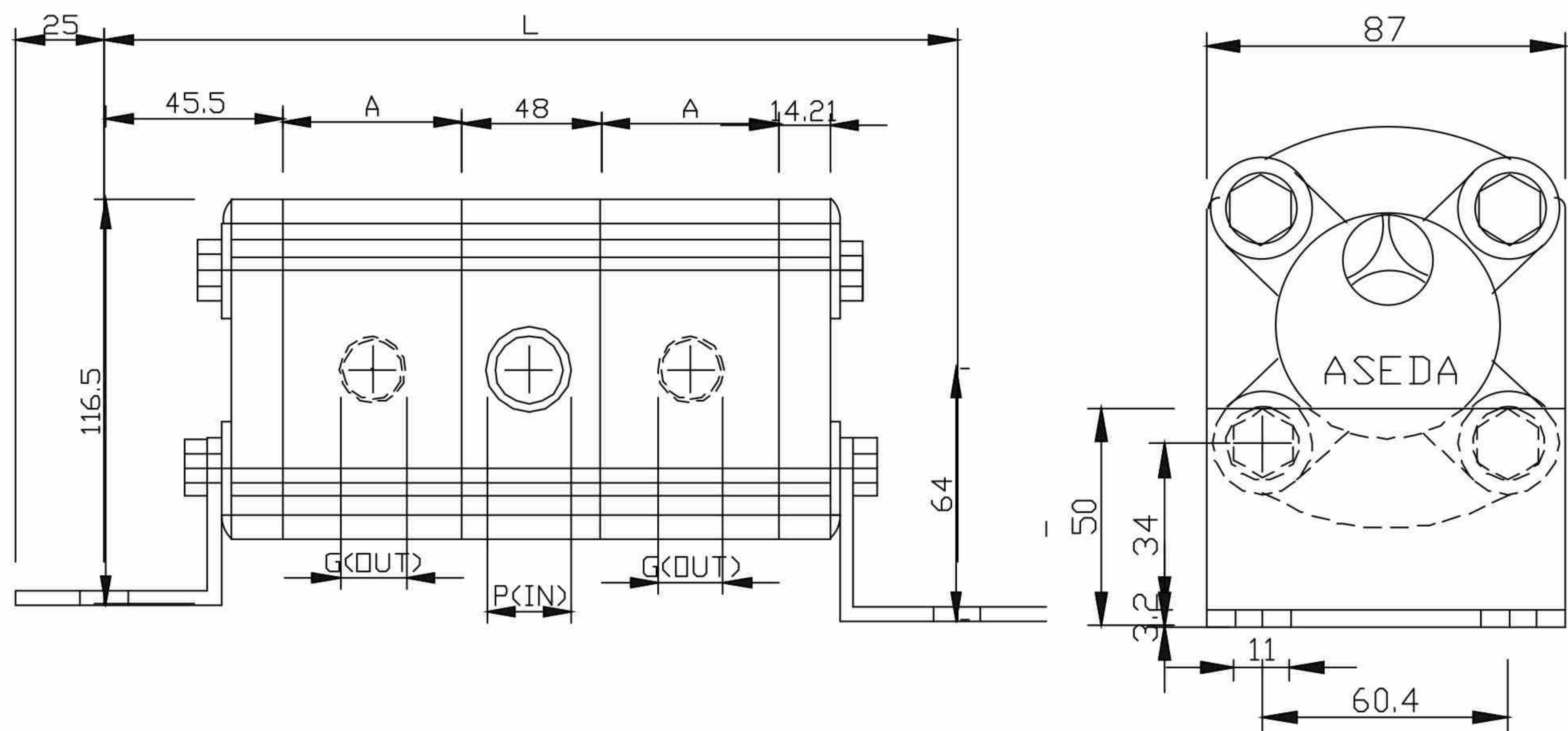


* SAE 11T-16/32
MAX. TORQUE 170NM
M=1.5, PA=20

Front Cover Type



Mounting And Connecting Size



DIMENSIONS & PORT SIZE

ELEMENTS OF DIVIDER					
Type	A	IN.NET(P)	OUT.NET(G)	PRESSURE (BAR)	SPEED (RPM)
DSAP20 - 4	50.0	3/4"PS	1/2"PS	250	900-2500
DSAP20 - 6.3	52.0			250	
DSAP20 - 8	55.0			250	
DSAP20 - 11	60.0			250	
DSAP20 - 14	65.0			250	
DSAP20 - 16	69.0			200	
DSAP20 - 20	74.0			200	
DSAP20 - 25	80.0			180	900-2000
DSAP20 - 31	87.0			180	900-2000

1. External drain set-drain

1.1 For the correct functioning of the flow provider
The drain line must be installed under the oil line.

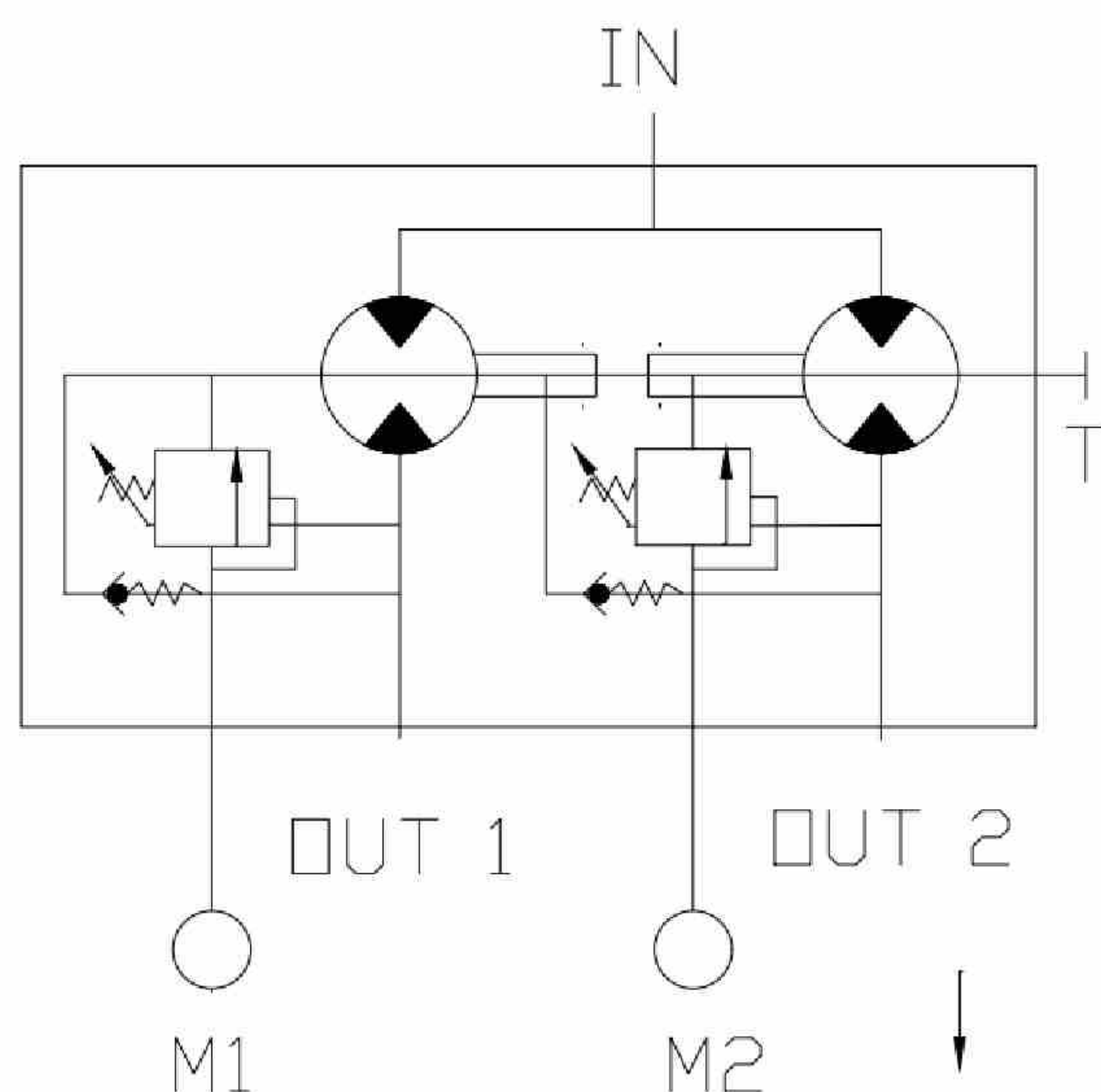
1.2 Secure the drain tube under the oil line



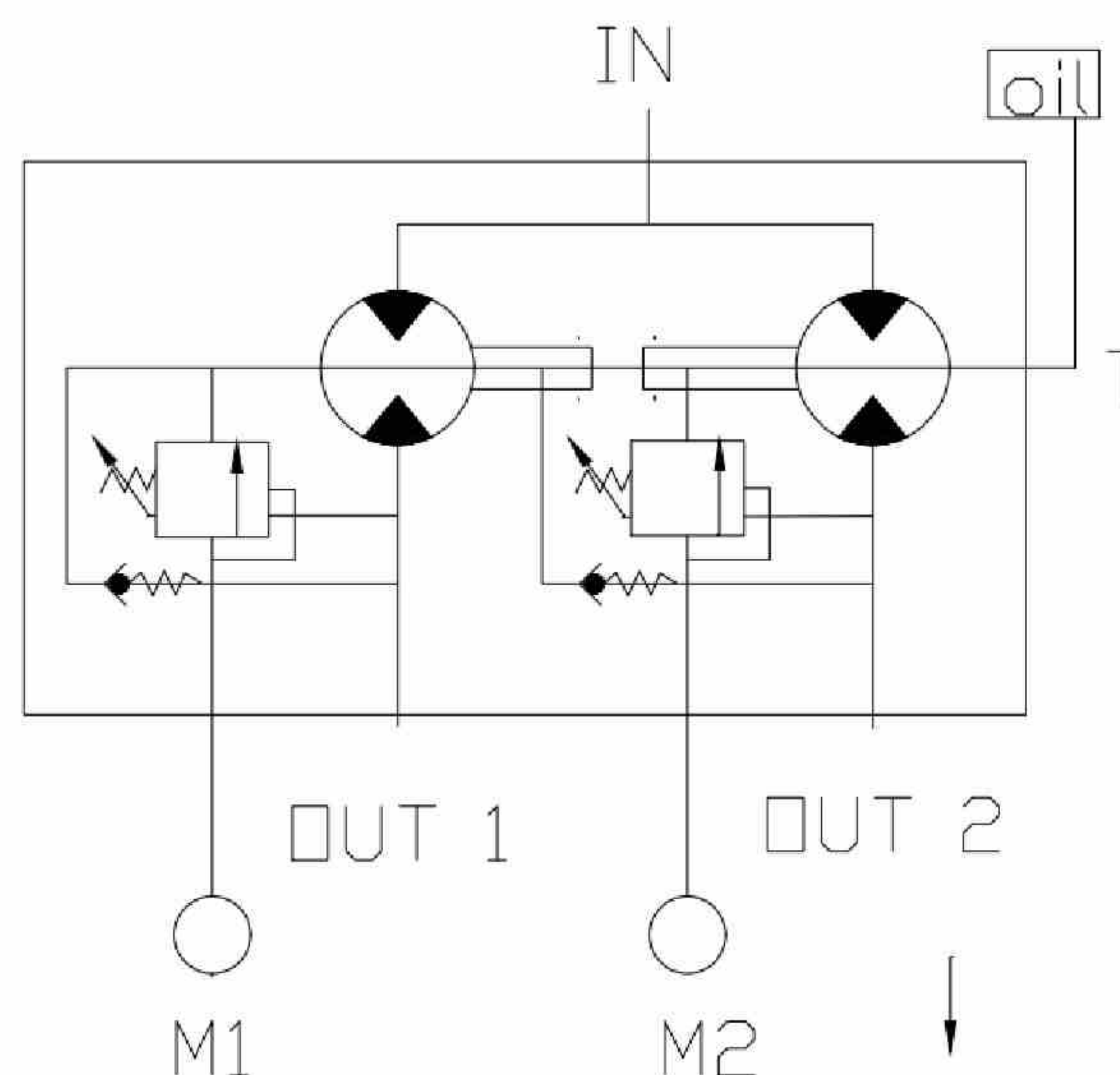
2. Set up the internal drain

2.1 Lock the 3/4"G plug in the drain port

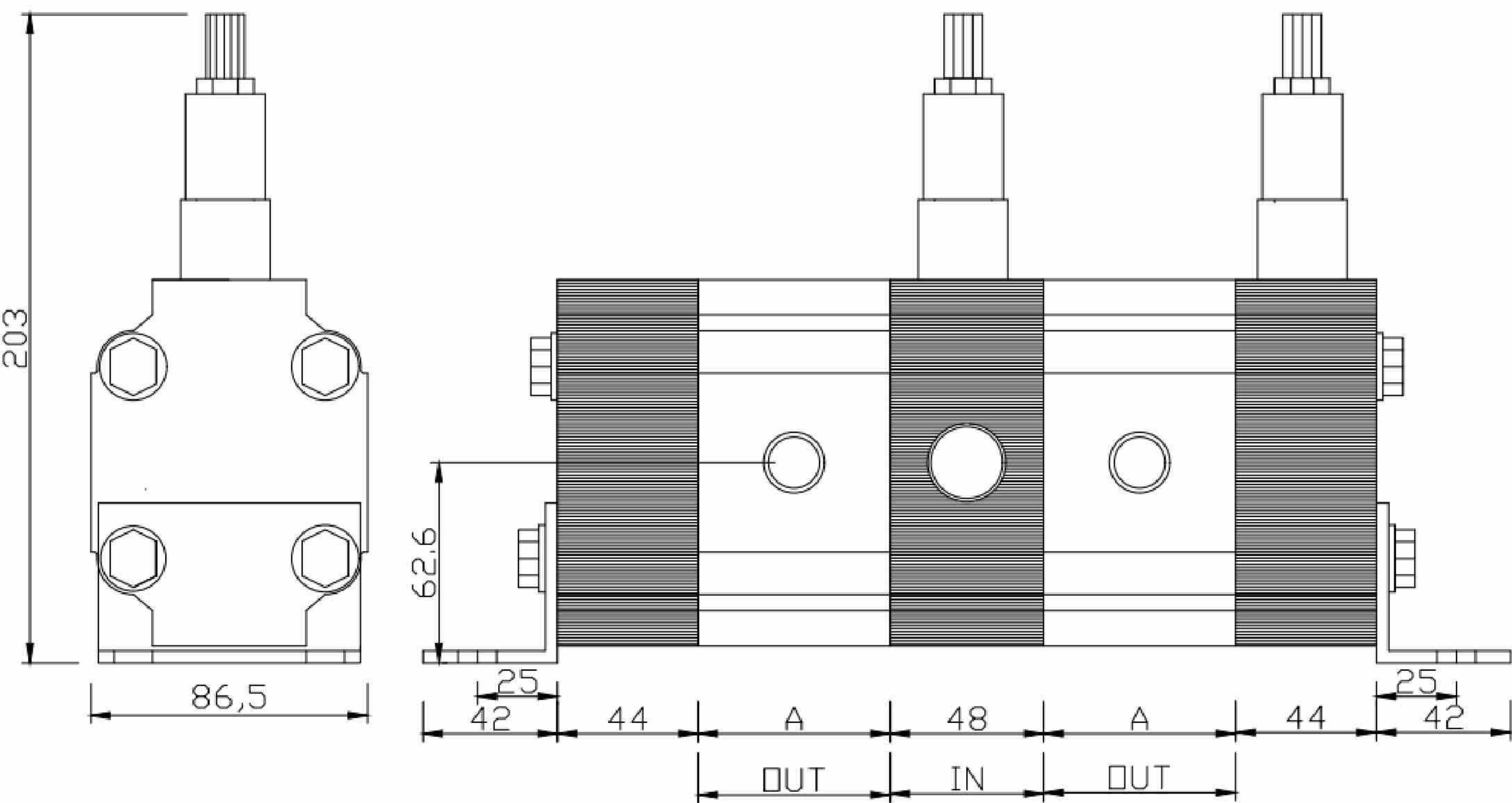
* INTERNAL DRAIN *



* EXTERNAL DRAIN *



Mounting And Connecting Size



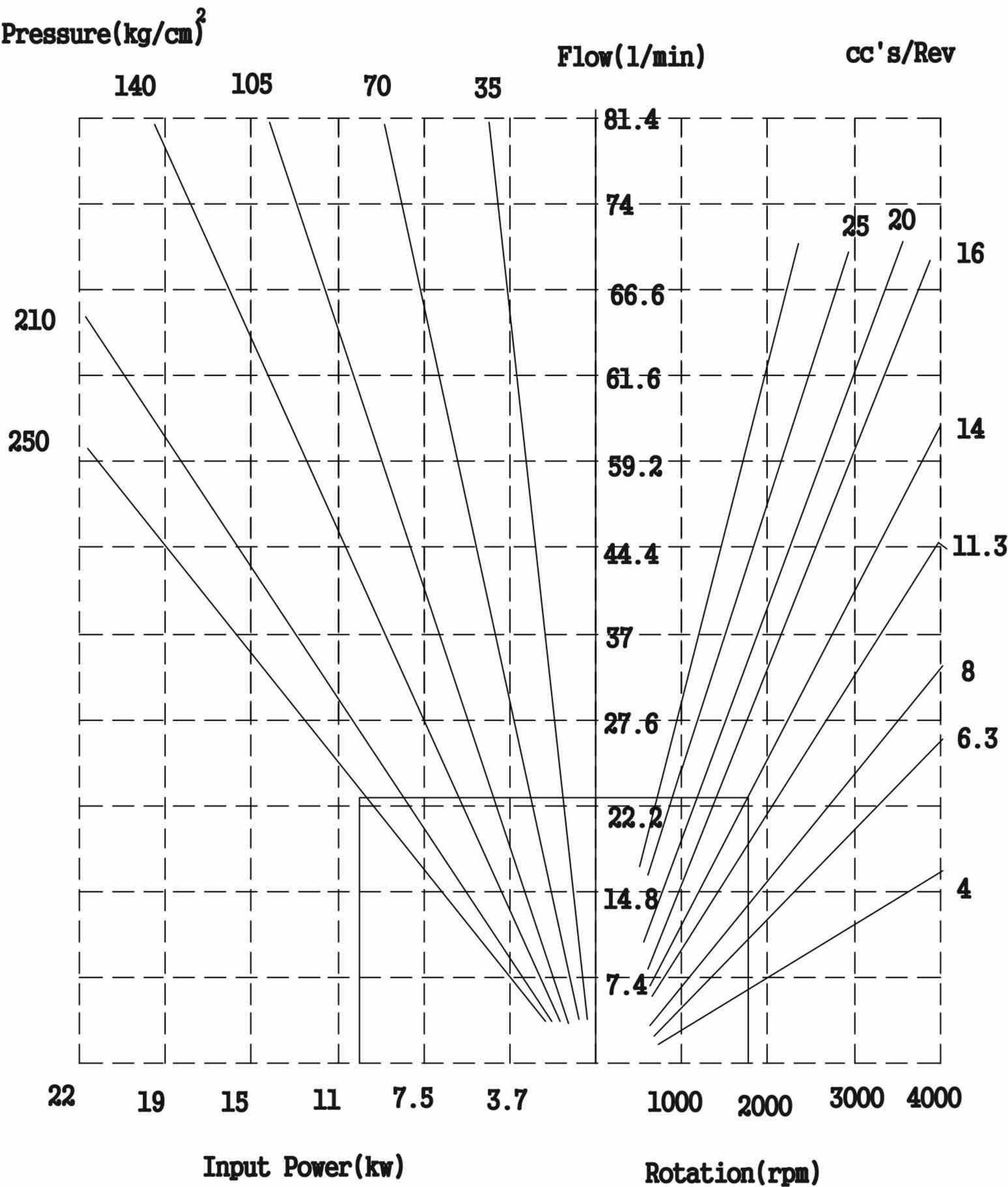
DIMENSIONS&PORT SIZE

PERFORMANCE DATA								
Type	cm³/rev	Max Pressure	One element flow rate l/min			Body Size	Port	
			Min	Recommended	Max		In	Out
RDSAP20 - 4	4	210	5	7.8	9.8	50	3/4" PF	1/2" PF
RDSAP20 - 6.3	6.3	210	7.5	11.1	14.6	52	3/4" PF	1/2" PF
RDSAP20 - 8	8	210	11.1	15.3	21.4	55	3/4" PF	1/2" PF
RDSAP20 - 11	11	210	13.5	19.8	26.8	60	3/4" PF	1/2" PF
RDSAP20 - 14	14	200	17.2	26.3	34.6	65	3/4" PF	1/2" PF
RDSAP20 - 16	16	200	20.4	30.5	41.9	69	3/4" PF	1/2" PF
RDSAP20 - 20	20	180	23.2	35	47.1	74	1" PF	3/4" PF
RDSAP20 - 25	25	160	31.6	45.6	64.3	80	2" PF	3/4" PF
RDSAP20 - 31	31	160	36.5	54.5	74.4	87	3" PF	3/4" PF

Single Pump

SAP20. Performane Curves(pumps&motors)

- 1. Fluid Temperature = 45 ±2℃
- 2. Viscosity = 20 – 100 cst
- 3. Speed(min.) = 500 rpm



*** NOTE**
THE APPLIED TORQUE SHOULD NOT BE EXCEEDED
TO THE MAX TORQUE OF THE SHAFT END
TYPE LISTED AT TABLE 3

PUMP

Ordering Information

SAP – 00 – 0 – 0000 – 0 – 00 – 00 – 00
(1) (2) (3) (4) (5) (6) (7) (8)

(1) SAP = Pump , SAM = MOTOR

(2) Series NO.(30=sap30)

(3) S = Single, D = Double

(4) Displacement

(5) Rotation(R:clockwise, L:counter clockwise)

(6) Drive Shaft

(7) Front Covers (A OR B)

(8) Back Cover (1,2,3,4,5)

General Data

Pump Type

Heavy duty, cast iron, external gear pump

Shaft Style

SAE splined, keyed, and others

Drive

Clockwise, counterclockwise, double
Direct drive with flexible coupling is recommended. pumps subject to radial loads must be specified with an outboard bearing. Axial loading is not allowed.

Fluid

Mineral hyd. oil ISO VG 32-56

Viscosity

operating temp : min 7.4 cst
starting temp : max 1630 cst.

Oil Temperature

Mineral oil with standard seals.
-20 ° c - +80 ° c

Inlet pressure

0.8 - 2.0 bar
Oil contamination level
ISO 4406 CODE 17/14

PERFORMANCE DATA

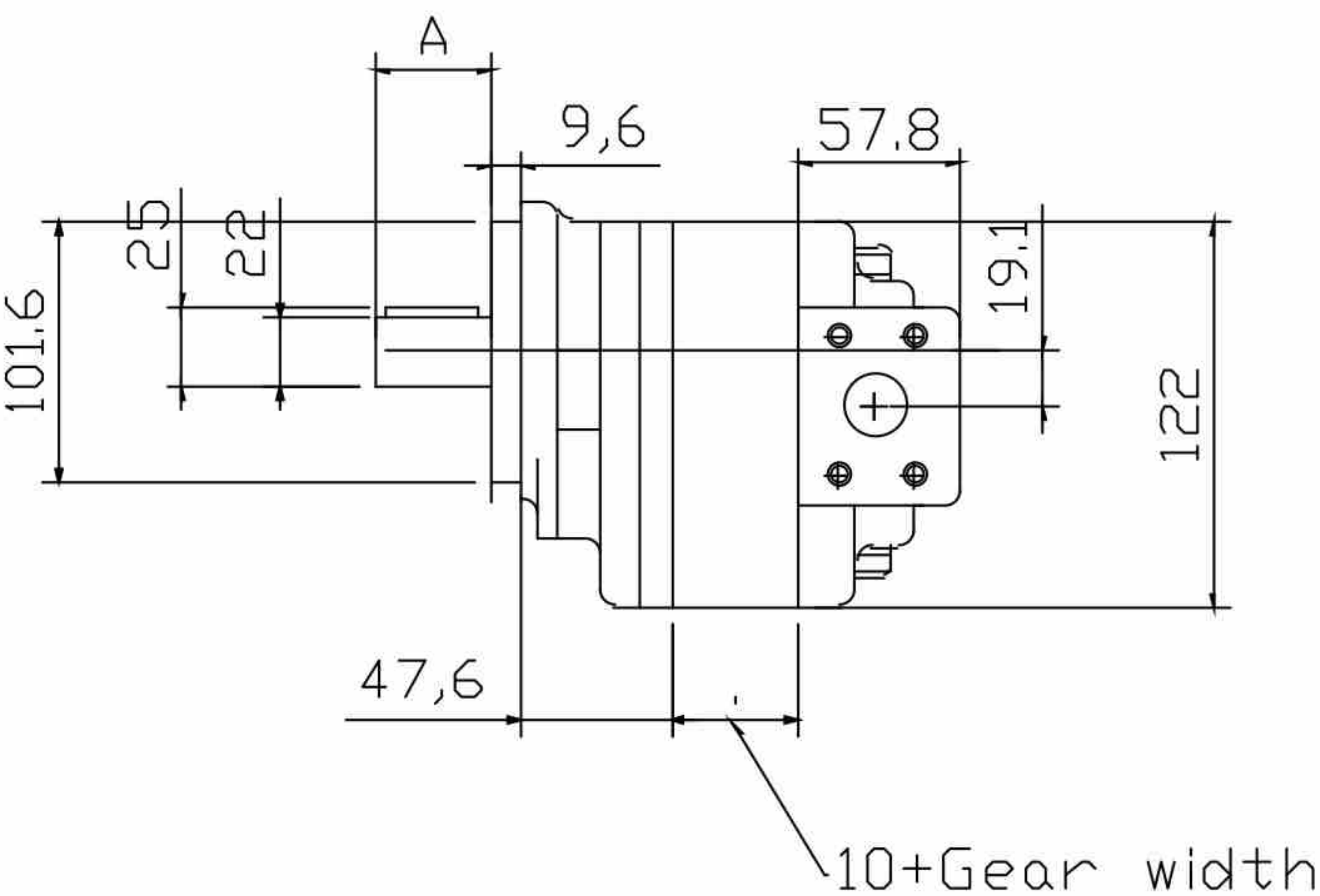
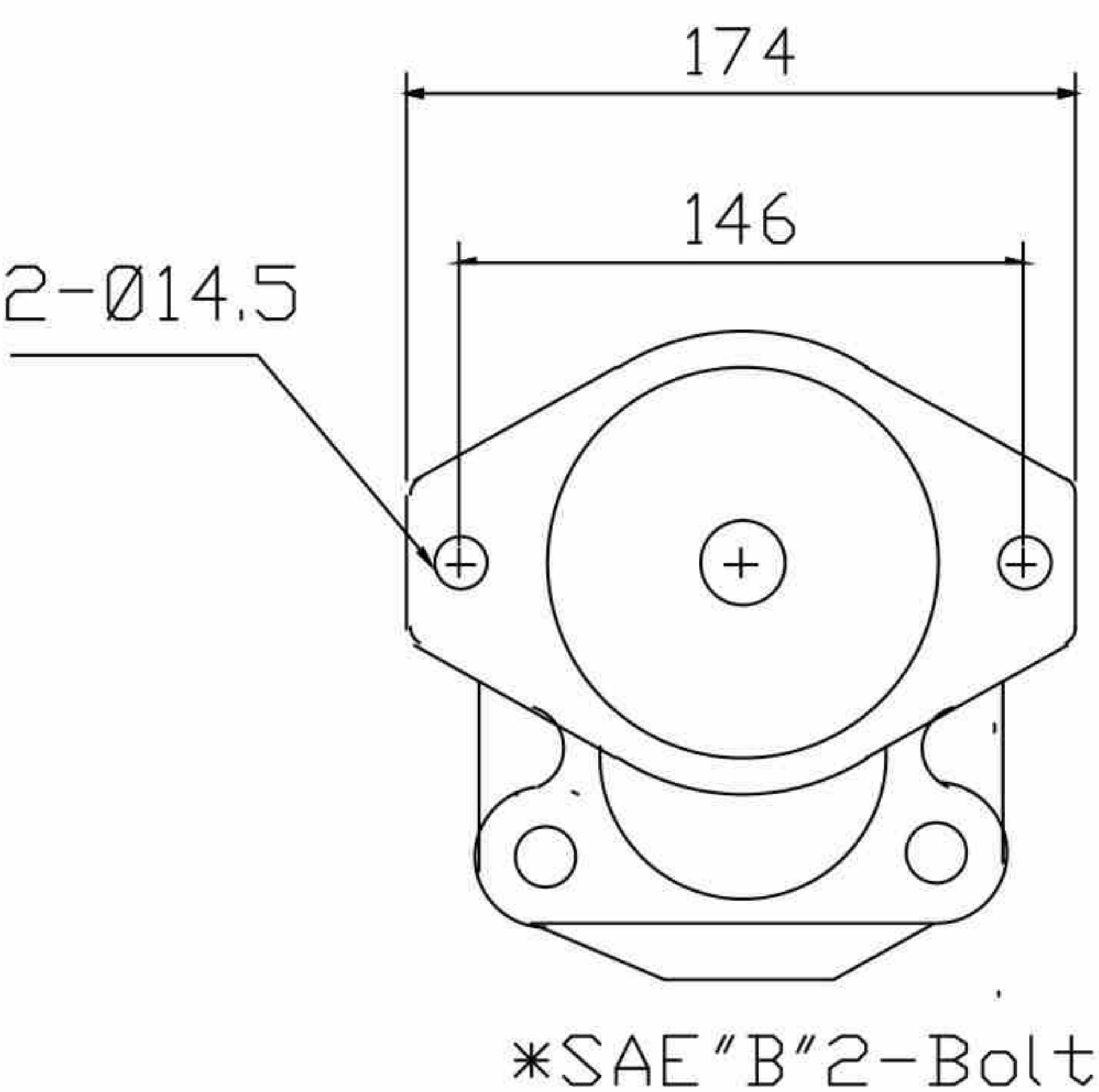
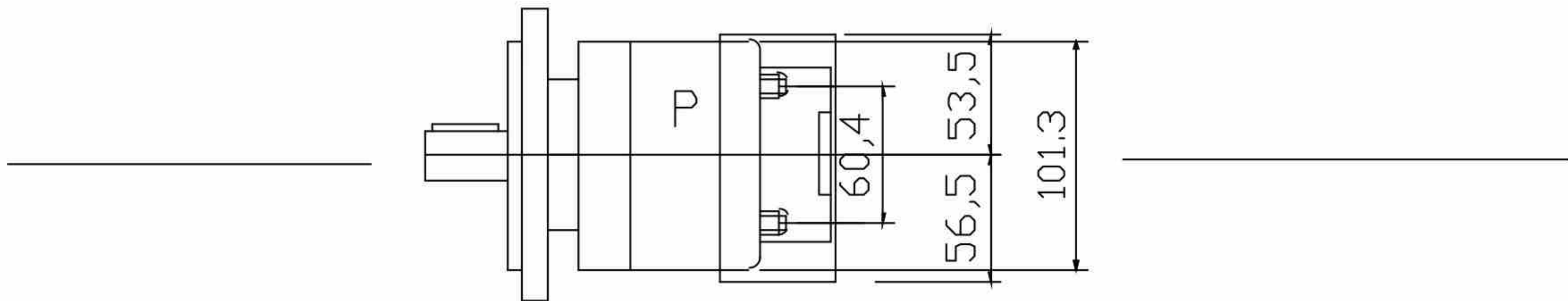
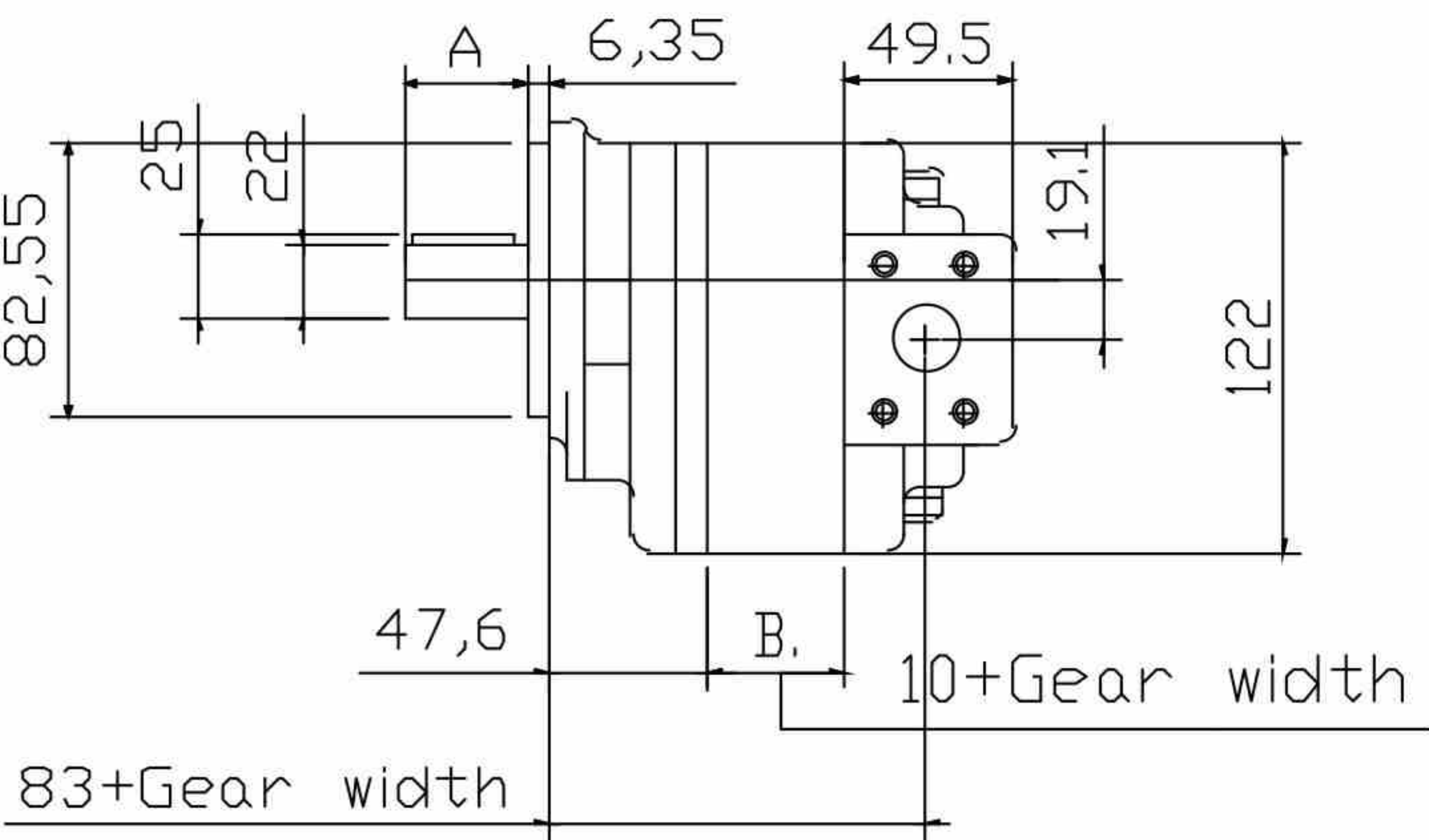
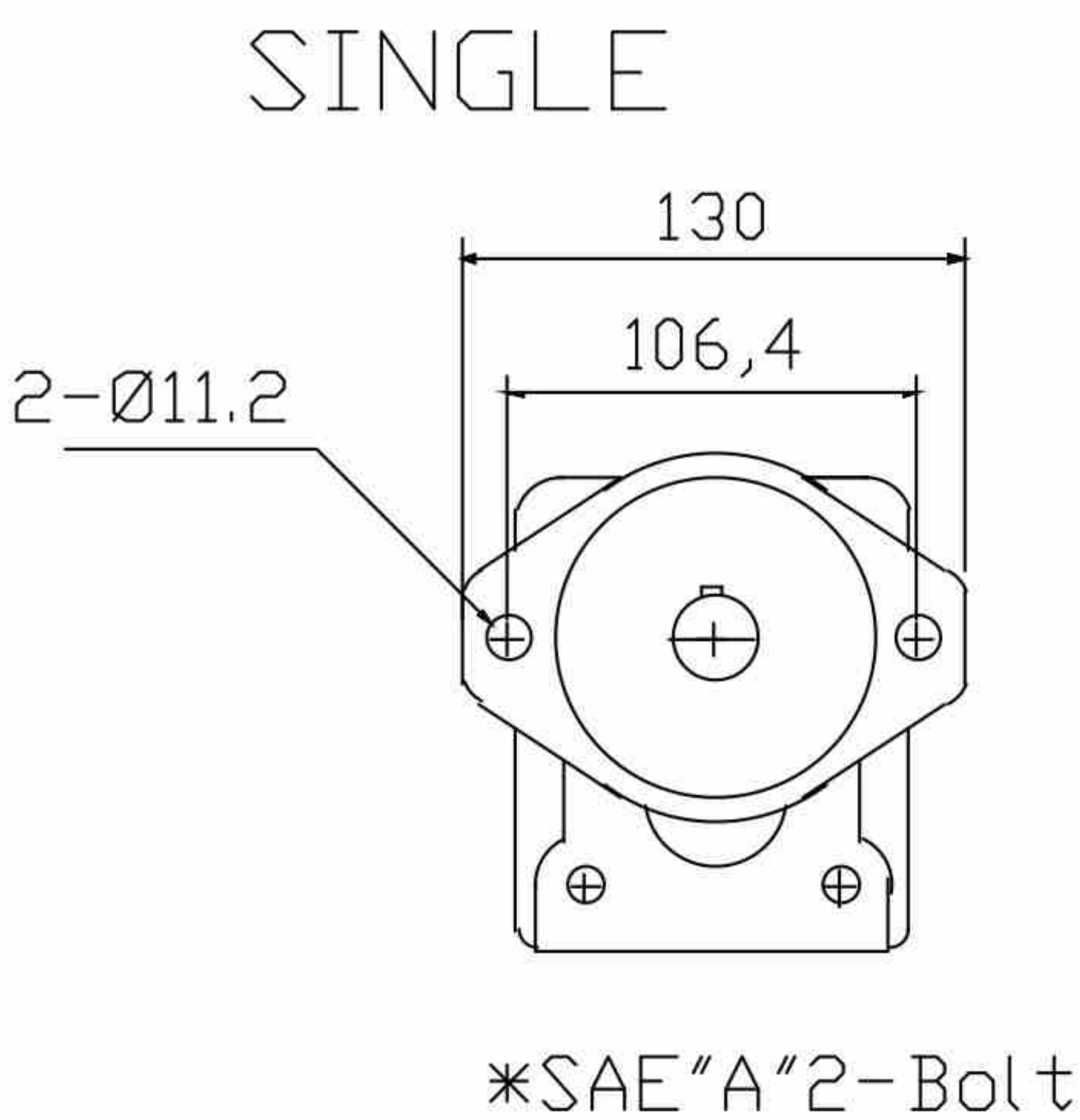
SAP30(PUMP)

Type	Displacement (cc/rev)	Gear Width(in.)	Port(Inch)		Pressure(bar)		Working speed(rpm)	Input Power/2000rpm (kw)	Body(B) Length (mm)
			IN	OUT	RATED	MAX			
SAP30 – 10	10	1/2	1	3/4	250	280	3000	14.8	22.7
SAP30 – 16	16	3/4	1	3/4	250	280	3000	23.4	29.1
SAP30 – 20	20	1	1	3/4	250	280	3000	29.5	35.4
SAP30 – 25	25	1 1/4	1 1/4	1	250	280	3000	36.9	41.7
SAP30 – 30	30	1 ½	1 1/4	1	210	250	3000	37.2	48.1
SAP30 – 35	35	1 3/4	1 1/4	1	180	210	3000	38.3	54.5
SAP30 – 40	40	2	1 1/4	1	180	210	3000	42.5	60.8

SAM30(MOTOR)

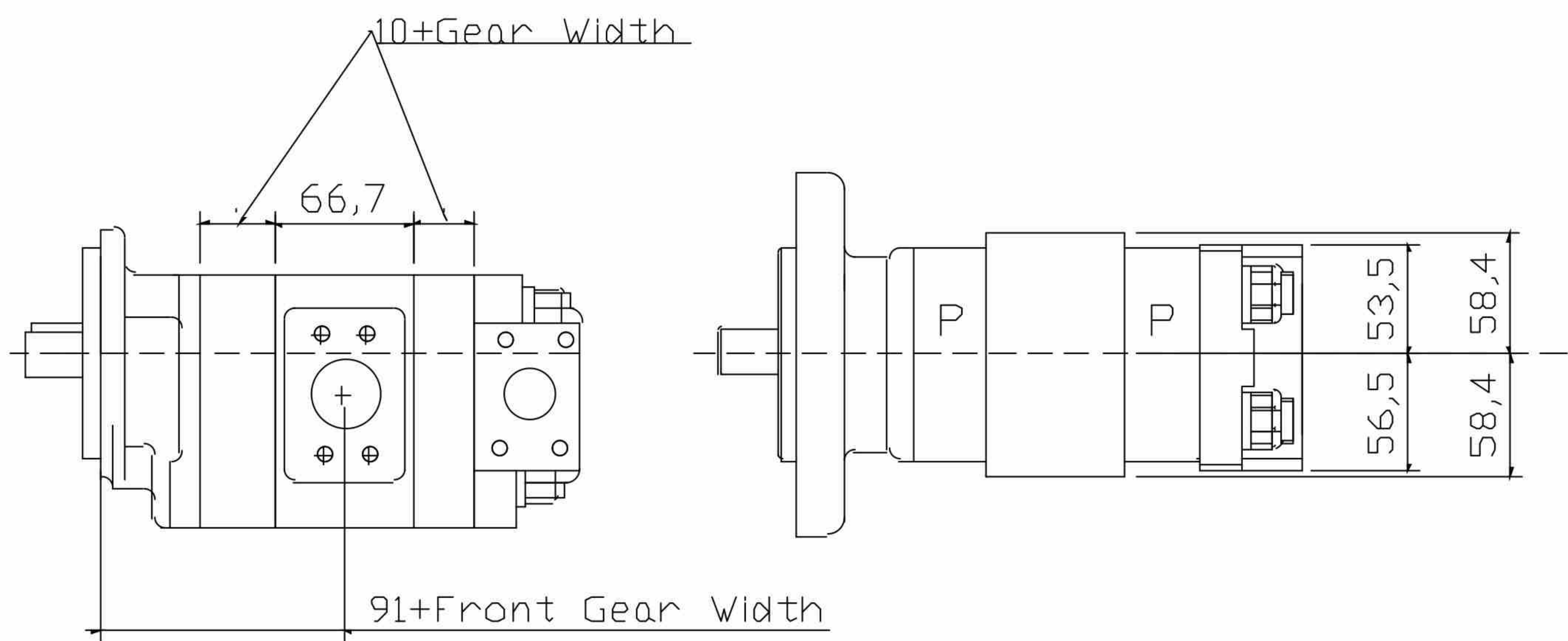
Type	Displacement (cc/rev)	Gear Width(in.)	Pressure(bar)		Output speed(rpm)	Output Power/2000rpm (kw)	Output Torque(N.M)
			RATED	MAX			
SAM30 – 10	10	1/2	210	250	650-3000	6.3	30.1
SAM30 – 16	16	3/4	210	250	650-3000	10.1	48.2
SAM30 – 20	20	1	210	250	650-3000	12.5	60.1
SAM30 – 25	25	1 1/4	210	250	650-3000	15.8	75.5
SAM30 – 30	30	1 ½	180	210	650-3000	16.2	77.4
SAM30 – 35	35	1 3/4	180	210	650-3000	18.8	90.2
SAM30 – 40	40	2	180	210	650-3000	21.5	103.1

Mounting And Connecting Size



***A : See Drive Shaft Codes**

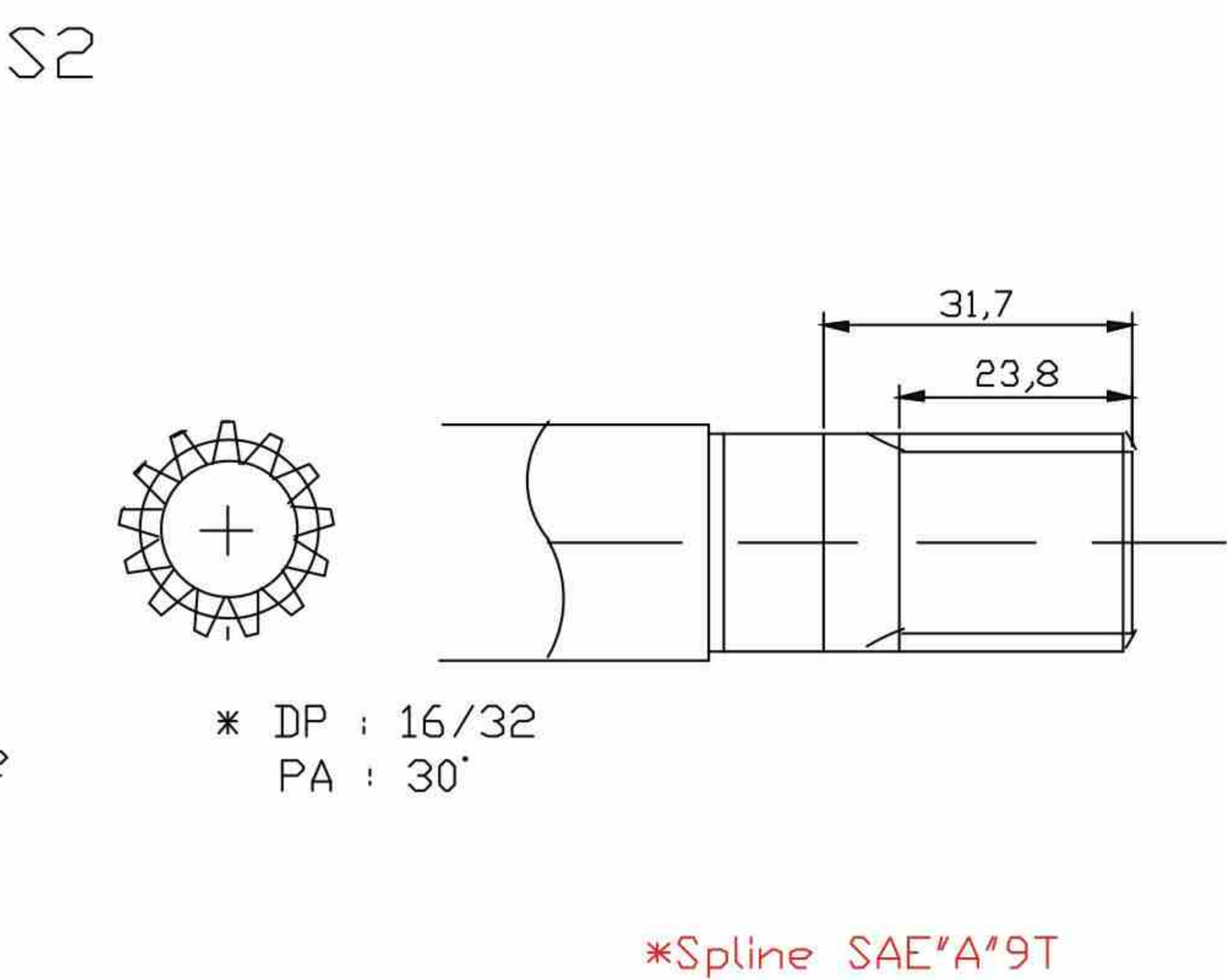
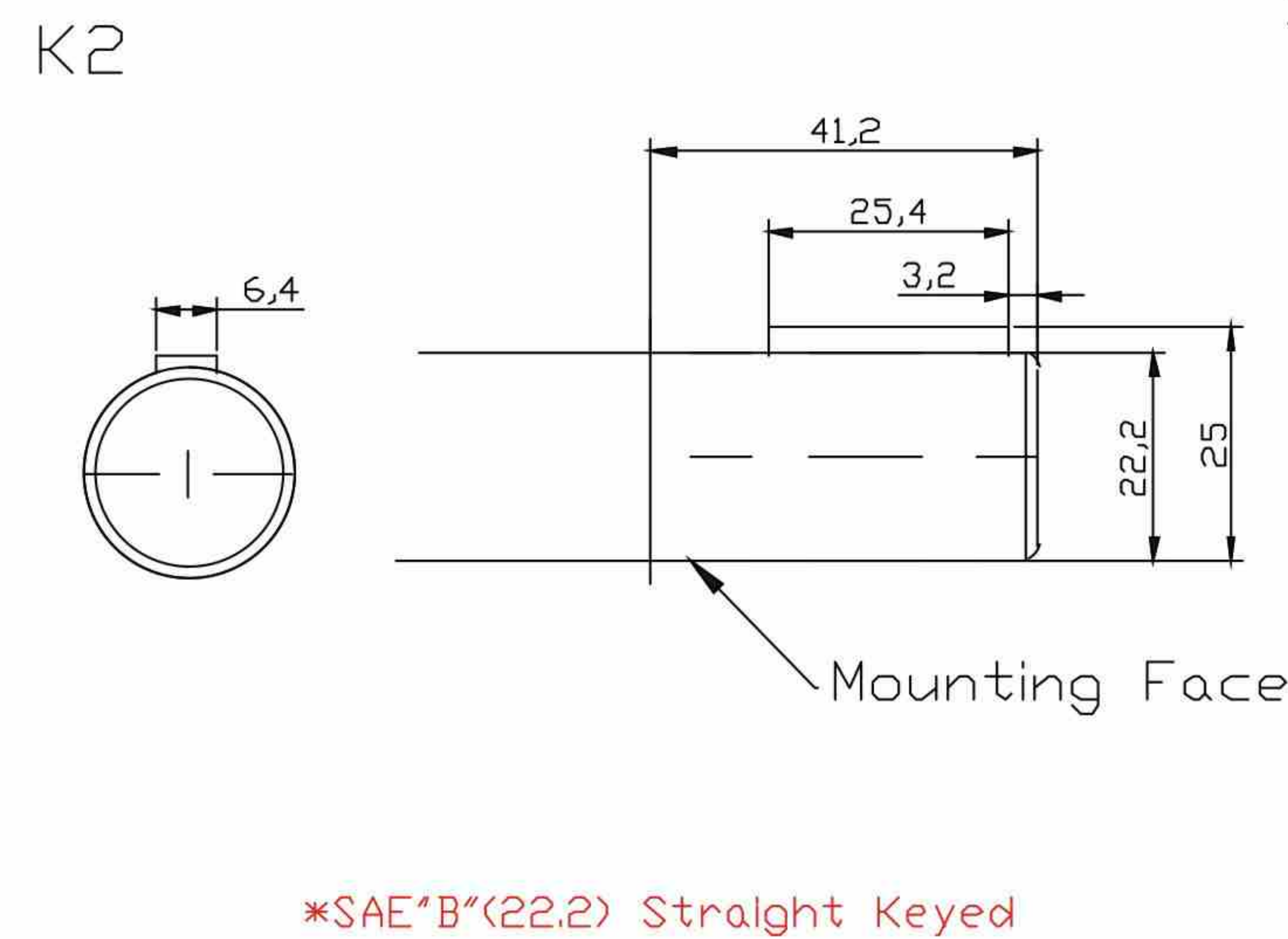
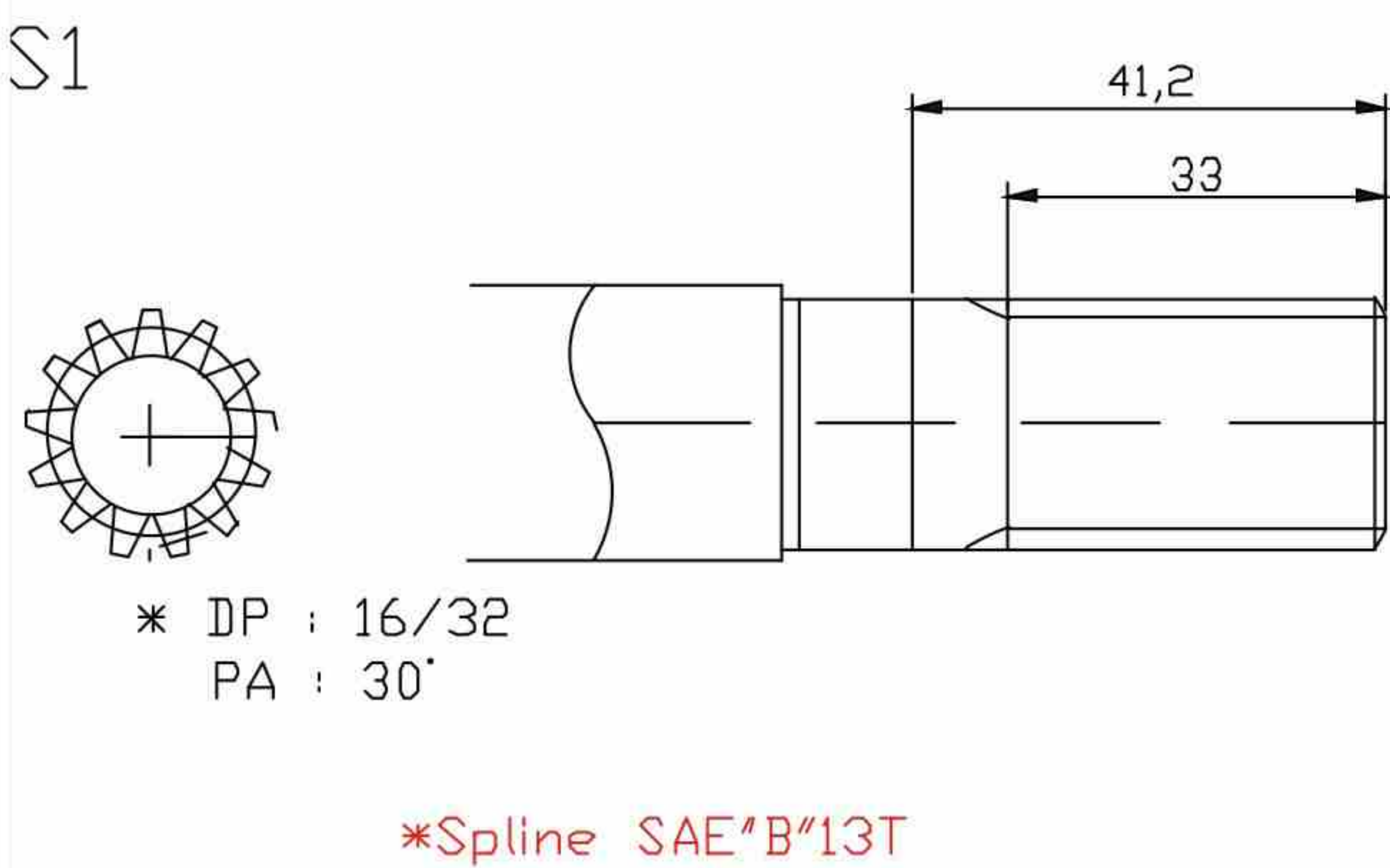
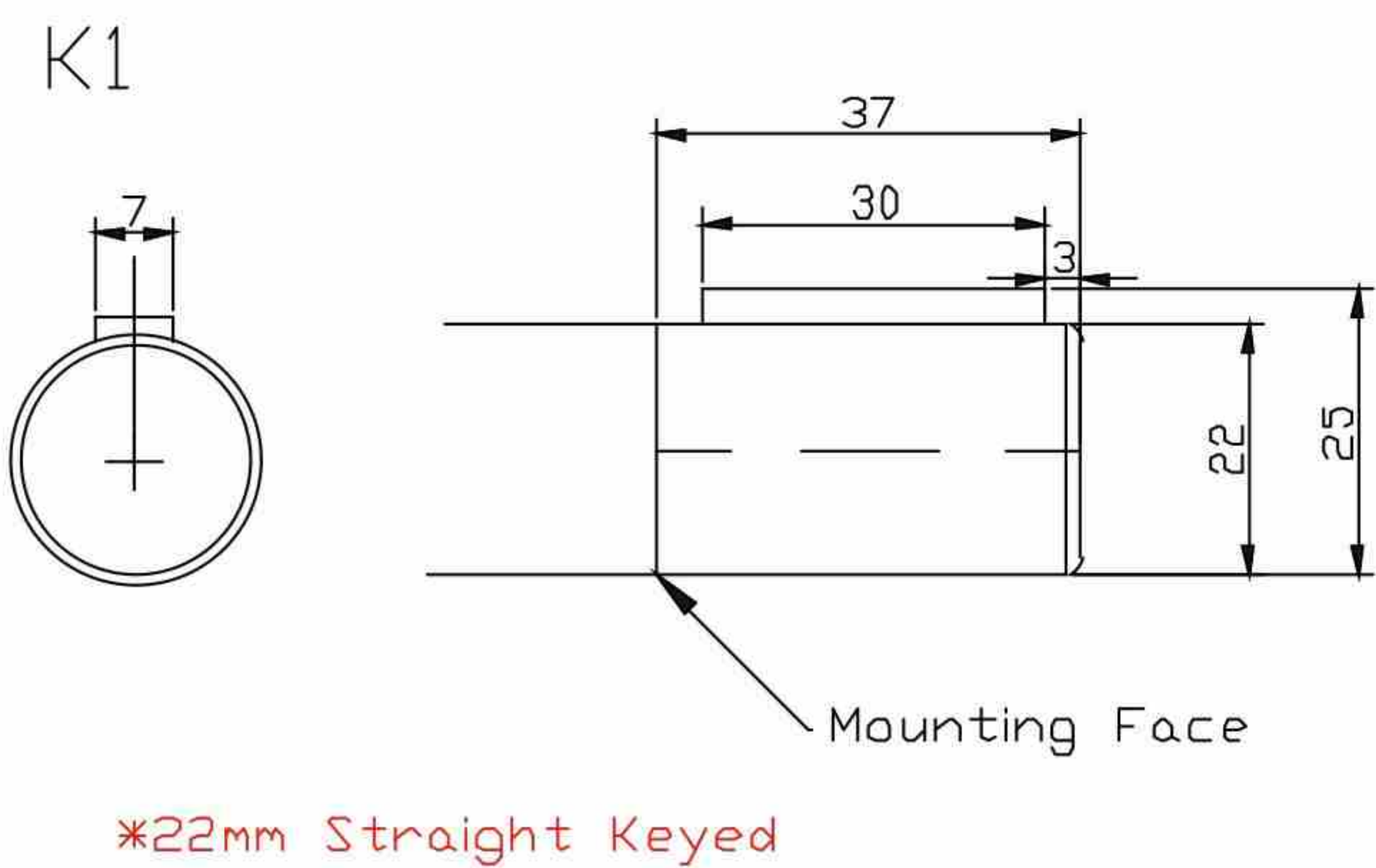
Mounting And Connecting Size



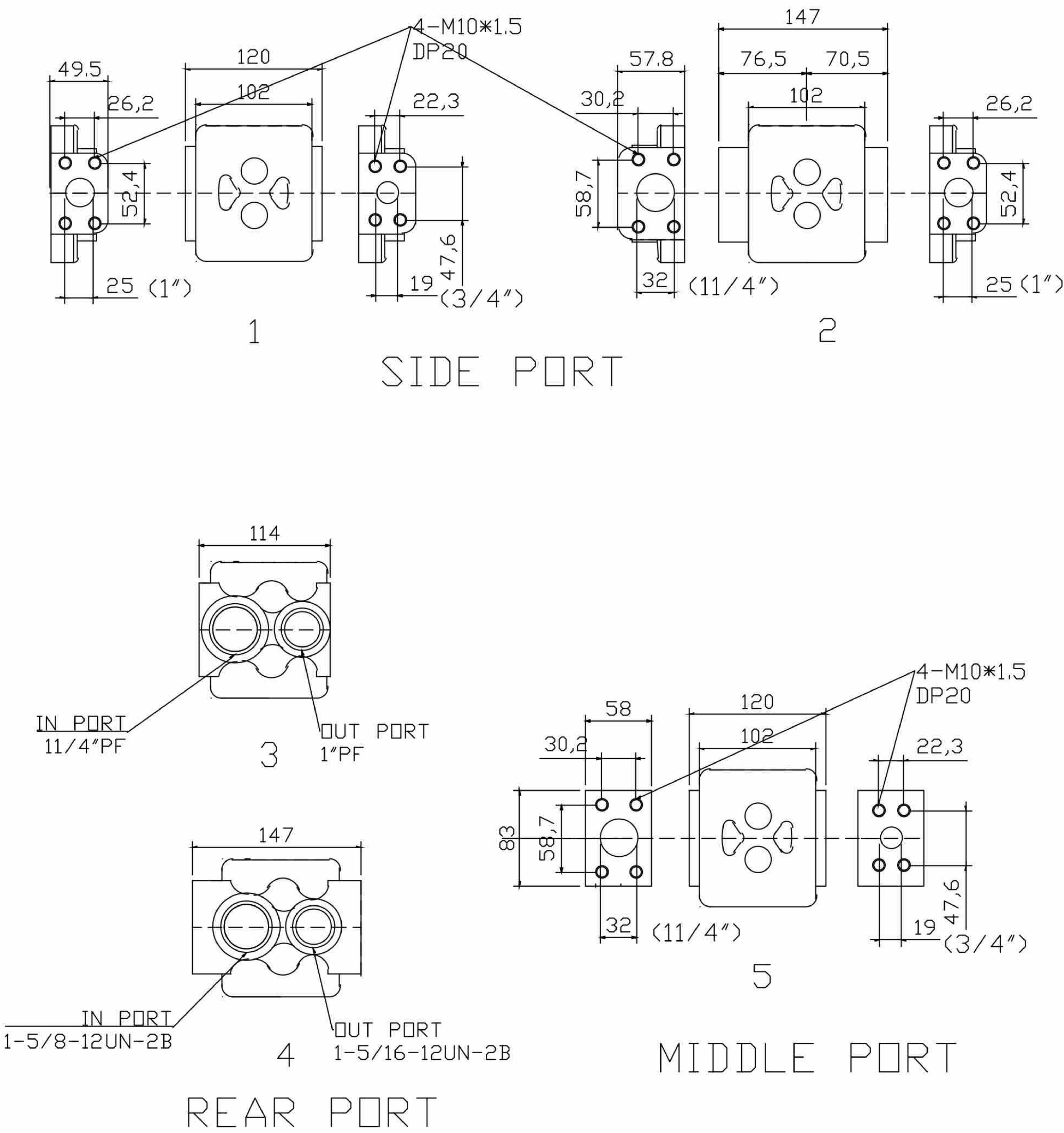
TANDEM

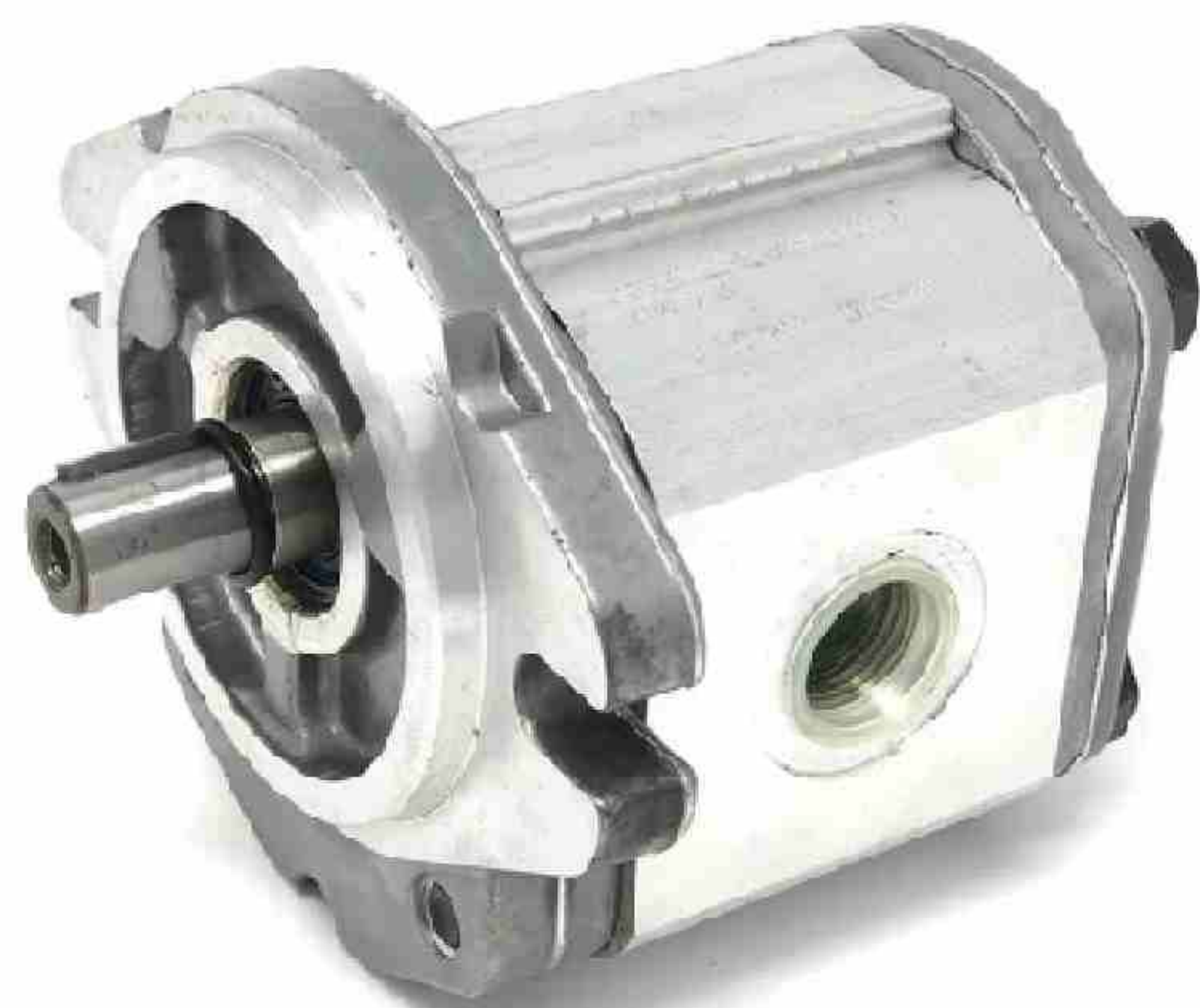


Drive Shaft Type



Back Cover Type

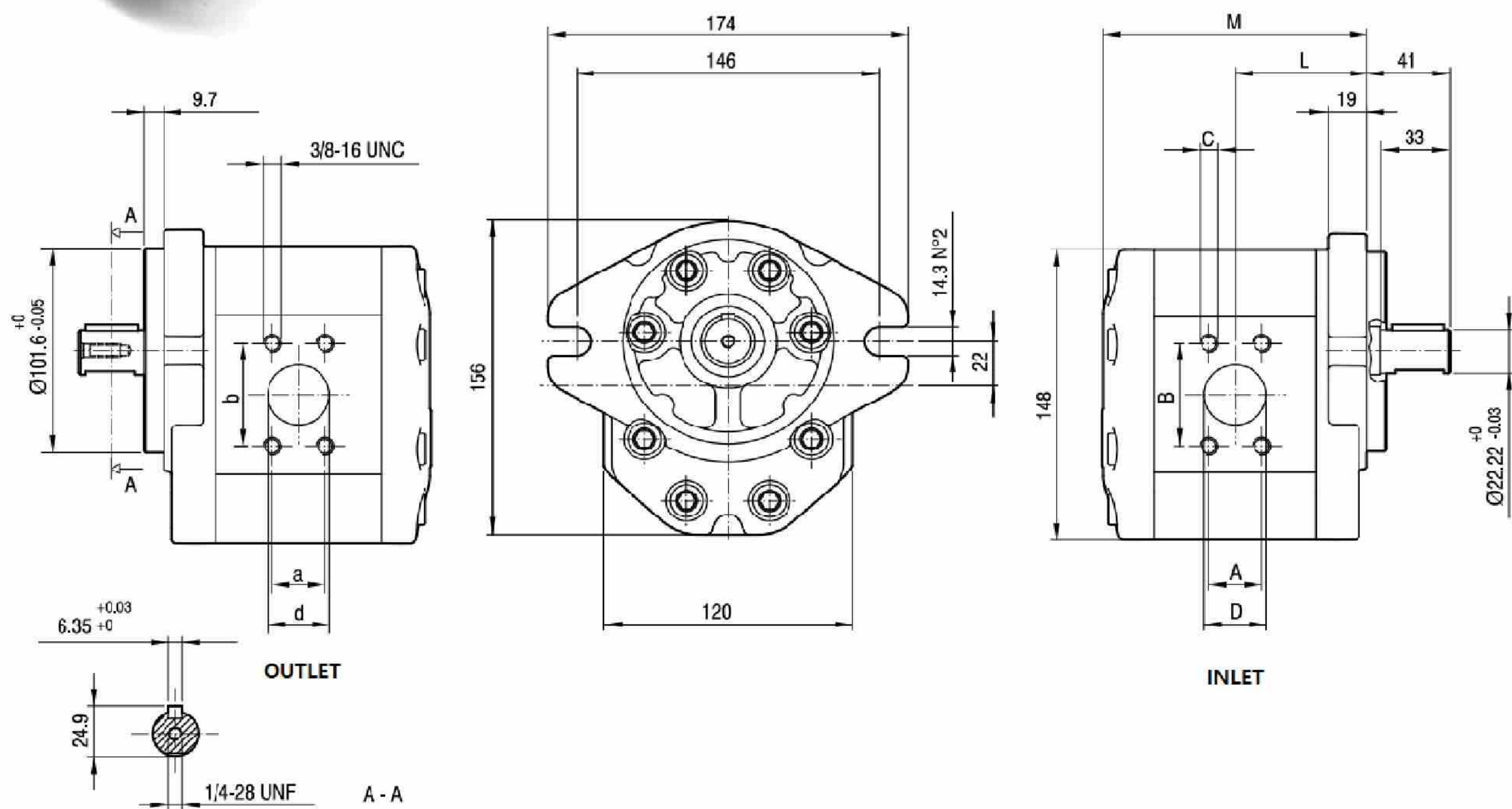




Accessories supplied with the standard pump:
key (code 522068).

Mounting flange 101-2 (B) in compliance with
SAE J744c.
1/4-28 UNF thread depth 20mm.

*Standard ports: 3/8-16 UNC threads depth 19mm,
7/16-14 UNC threads depth 19mm.



SPECIFICATIONS

Type	Displacement	Max pressure			Max speed	Min speed	Dimensions								
		P1	P2	P3			M	L	A	B	C	D	a	b	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	UNC	mm	mm	mm	mm
SAP40-A-20	20	250	265	280	3,500	600	128	63	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-22	22	250	265	280	3,500	600	130	64	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-26	26	250	265	280	3,000	600	133	65	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-33	33	230	250	270	3,000	500	139	68	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-39	39	230	250	270	3,000	500	146	72	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-46	46	230	250	270	3,000	500	152	75	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-50	50	220	240	260	3,000	500	156	77	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-52	52	220	240	260	3,000	500	158	78	26.2	52.4	3/8	27	22.2	47.6	19
SAP40-A-55	55	200	230	250	2,800	400	160	79	30.2	58.7	7/16	33	26.2	52.4	27
SAP40-A-63	63	200	230	250	2,800	400	168	83	30.2	58.7	7/16	33	26.2	52.4	27
SAP40-A-71	71	180	200	220	2,500	400	175	86	30.2	58.7	7/16	33	26.2	52.4	27

PUMP

Ordering Information

SAP – 00 – 0 – 0000 – 0 – 00 – 00 – 00
(1) (2) (3) (4) (5) (6) (7) (8)

(1) SAP = Pump , SAM = MOTOR

(2) Series NO.(50=sap50)

(3) S = Single, D = Double

(4) Displacement

(5) Rotation(R:clockwise, L:counter clockwise)

(6) Drive Shaft

(7) Front Covers (C2 OR C4)

(8) Back Cover

PERFORMANCE DATA

SAP50(PUMP)

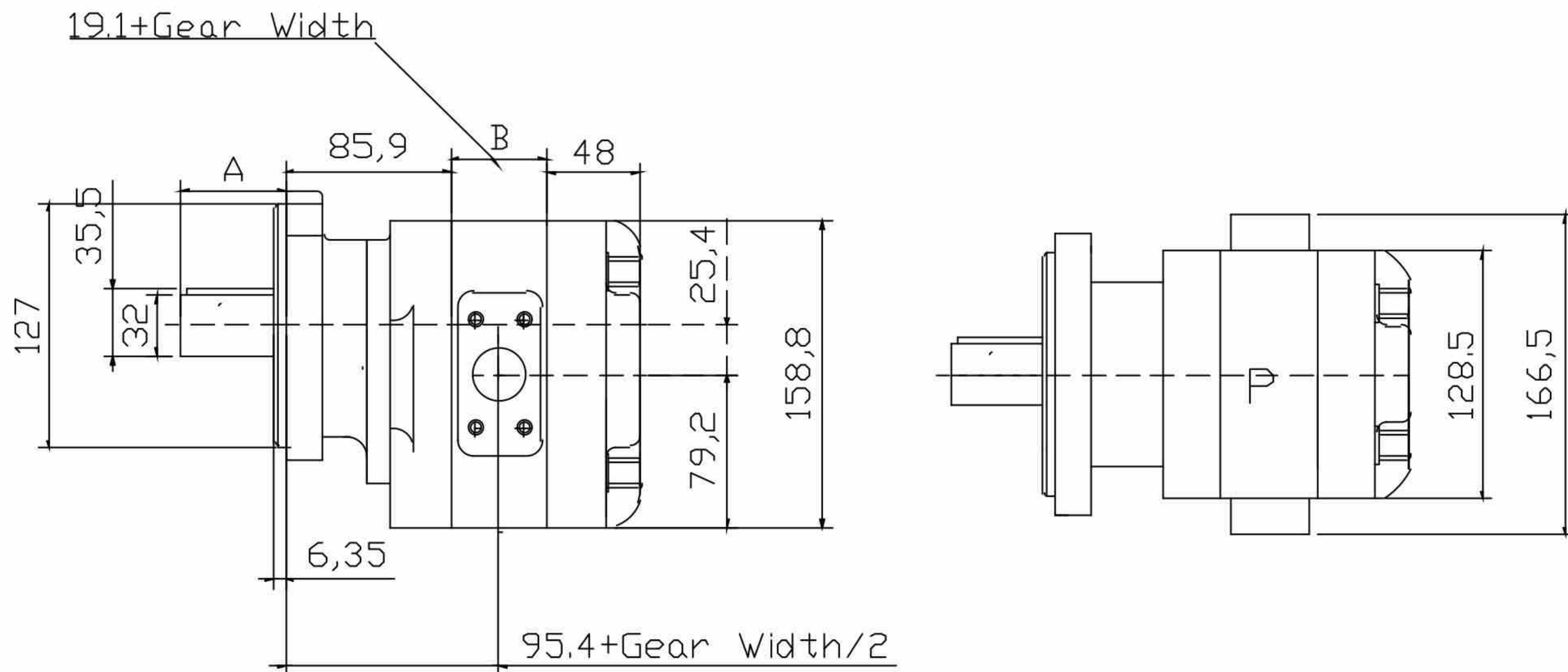
Type	Displacement (cc/rev)	Gear Width(in.)	Port(Inch)		Pressure(bar)		Working speed(rpm)	Input Power(kw)	Body(B) Length (mm)	Weight (kg)
			IN	OUT	RATED	MAX				
SAP50 – 40	40	1	1	3/4	210	250	2400	39.6	44.5	17.5
SAP50 – 50	50	1 1/4	1-1/4	1	210	250	2400	49.5	50.8	19.6
SAP50 – 63	63	1 ½	1-1/2	1 1/4	210	250	2400	62.3	57.2	20.1
SAP50 – 70	70	1 3/4	1-1/2	1 1/4	210	250	2400	70.1	63.6	21.0
SAP50 – 80	80	2	2	1 ½	210	250	2400	79.0	69.9	21.5
SAP50 – 90	90	2 1/4	2	1 ½	180	210	2400	76.3	76.3	22.4
SAP50 – 100	100	2 1/2	2	1 ½	180	210	2400	84.7	82.6	23.2

SAM50(MOTOR)

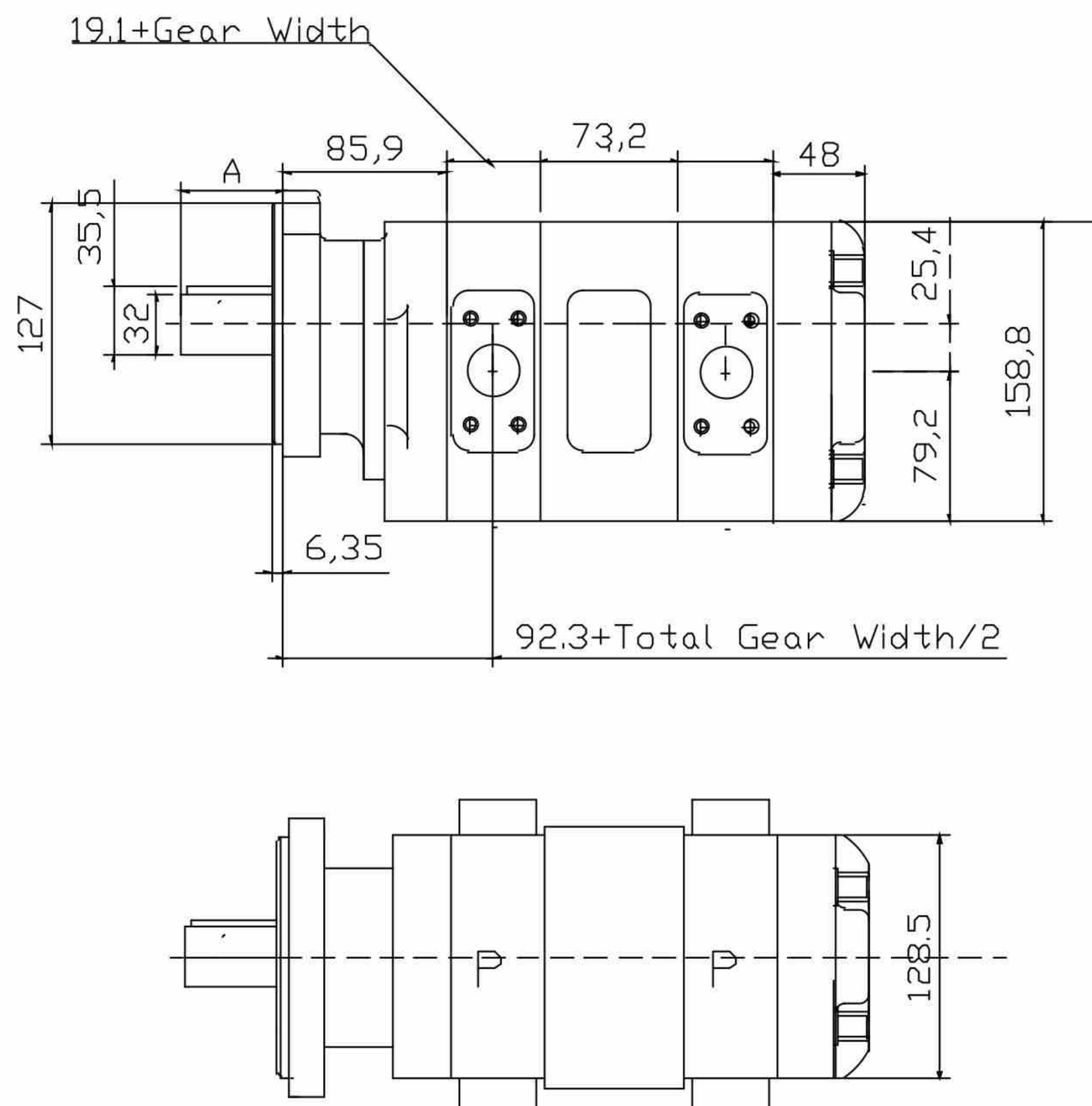
Type	Displacement (cc/rev)	Gear Width(in.)	Pressure(bar)		Output speed(rpm)	Output Power/2000rpm (kw)	Output Torque(N.M)
			RATED	MAX			
SAM50 – 40	40	1	210	250	650-2200	25.2	120.4
SAM50 – 50	50	1 1/4	210	250		31.5	150.4
SAM50 – 63	63	1 ½	210	250		39.7	189.5
SAM50 – 70	70	1 3/4	210	250		45.8	210.6
SAM50 – 80	80	2	210	250		50.4	240.7
SAM50 – 90	90	2 1/4	180	210		48.6	232.1
SAM50 – 100	100	2 1/2	180	210		54.0	258.0

Mounting And Connecting Size

SINGLE UNIT

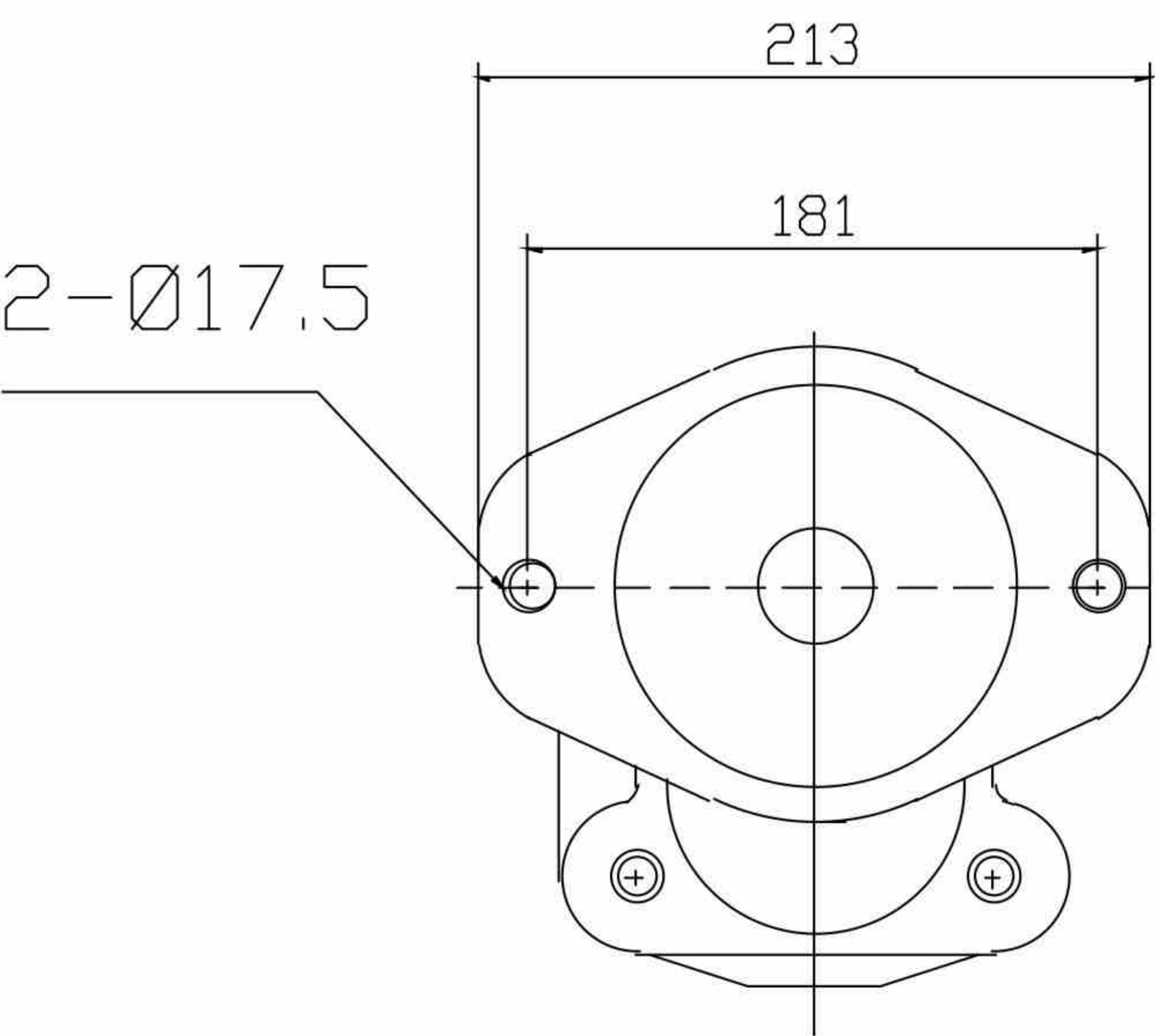


TANDEM UNIT

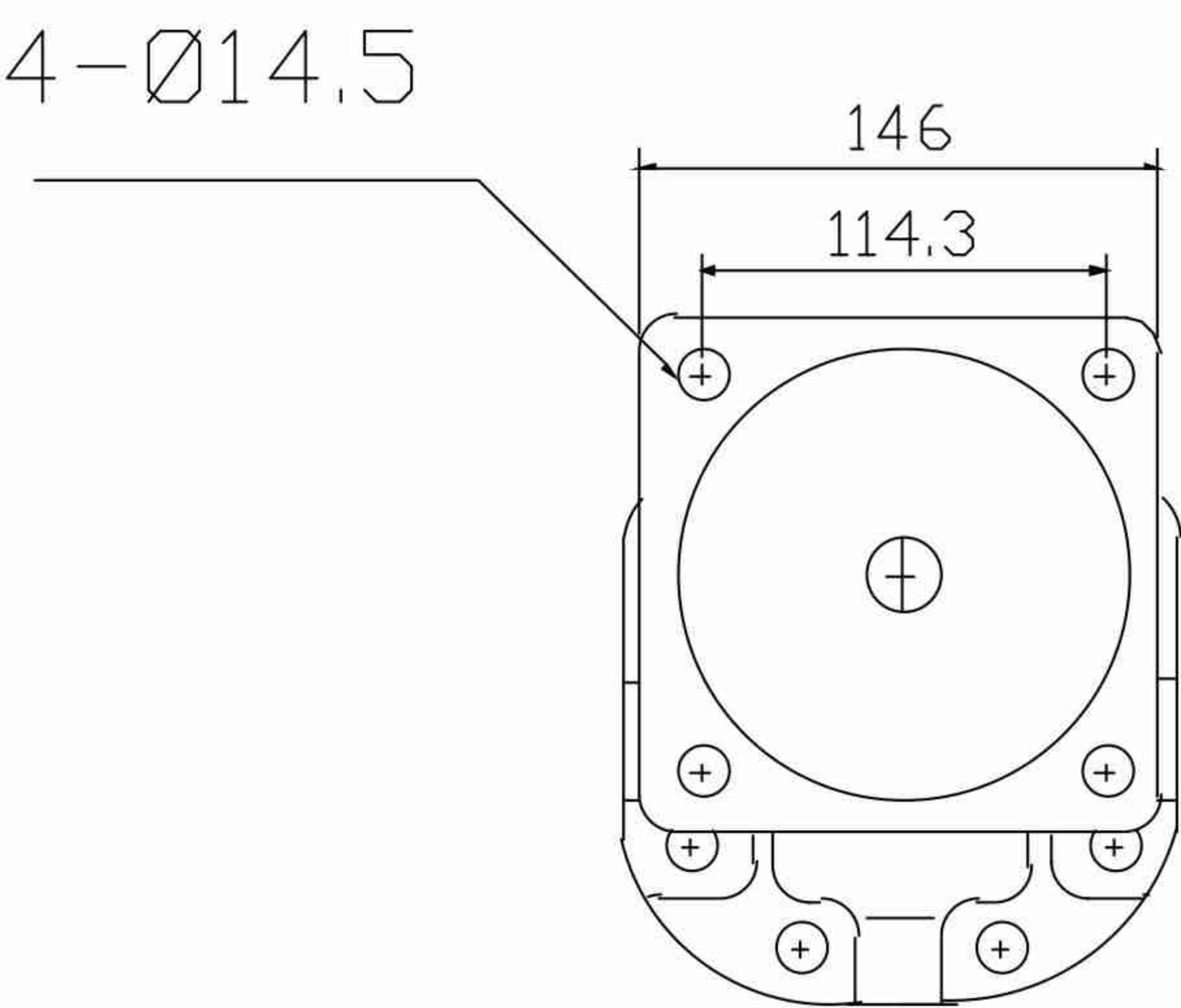


***A : See Drive Shaft Codes**

Front Cover Type



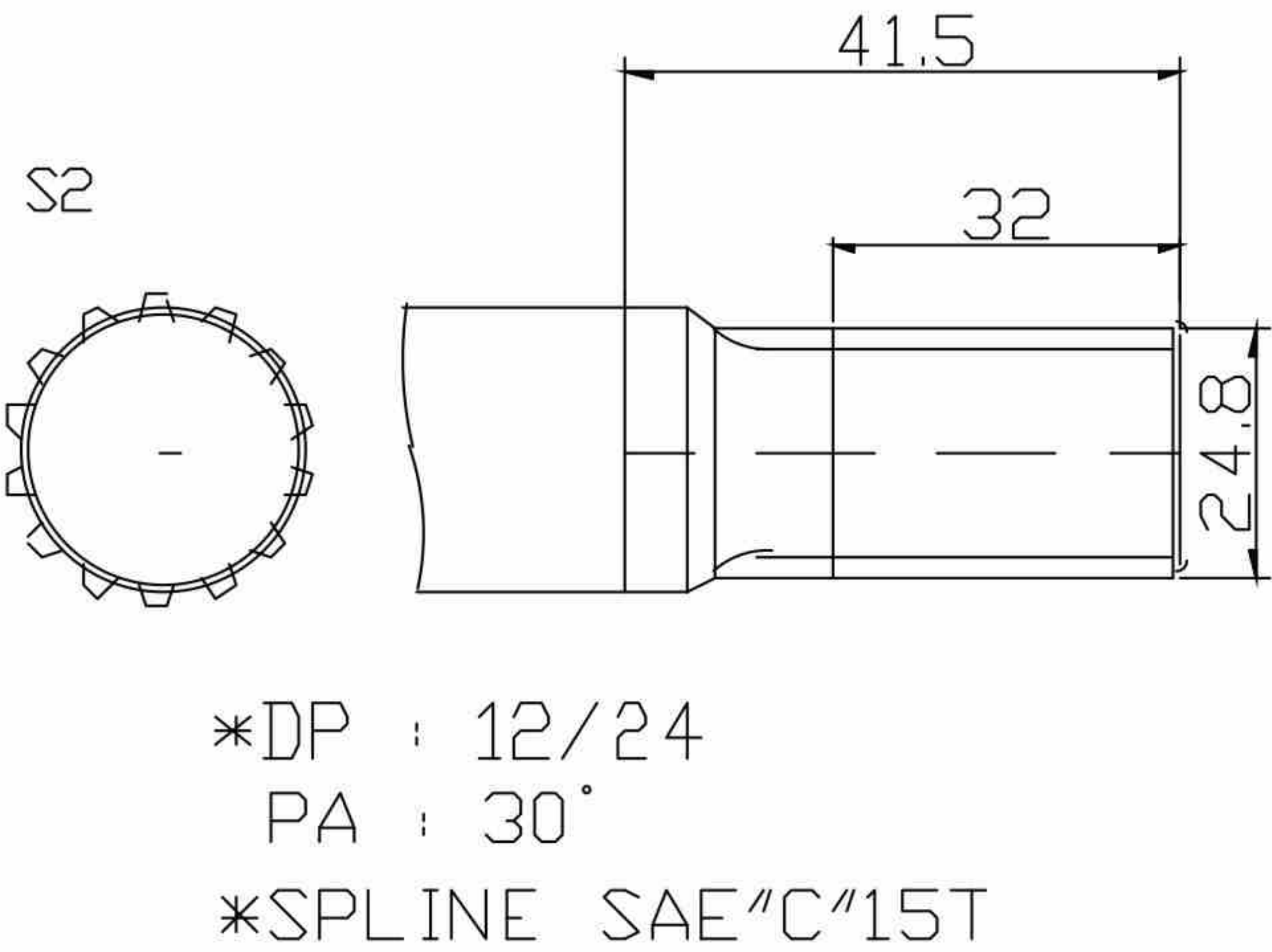
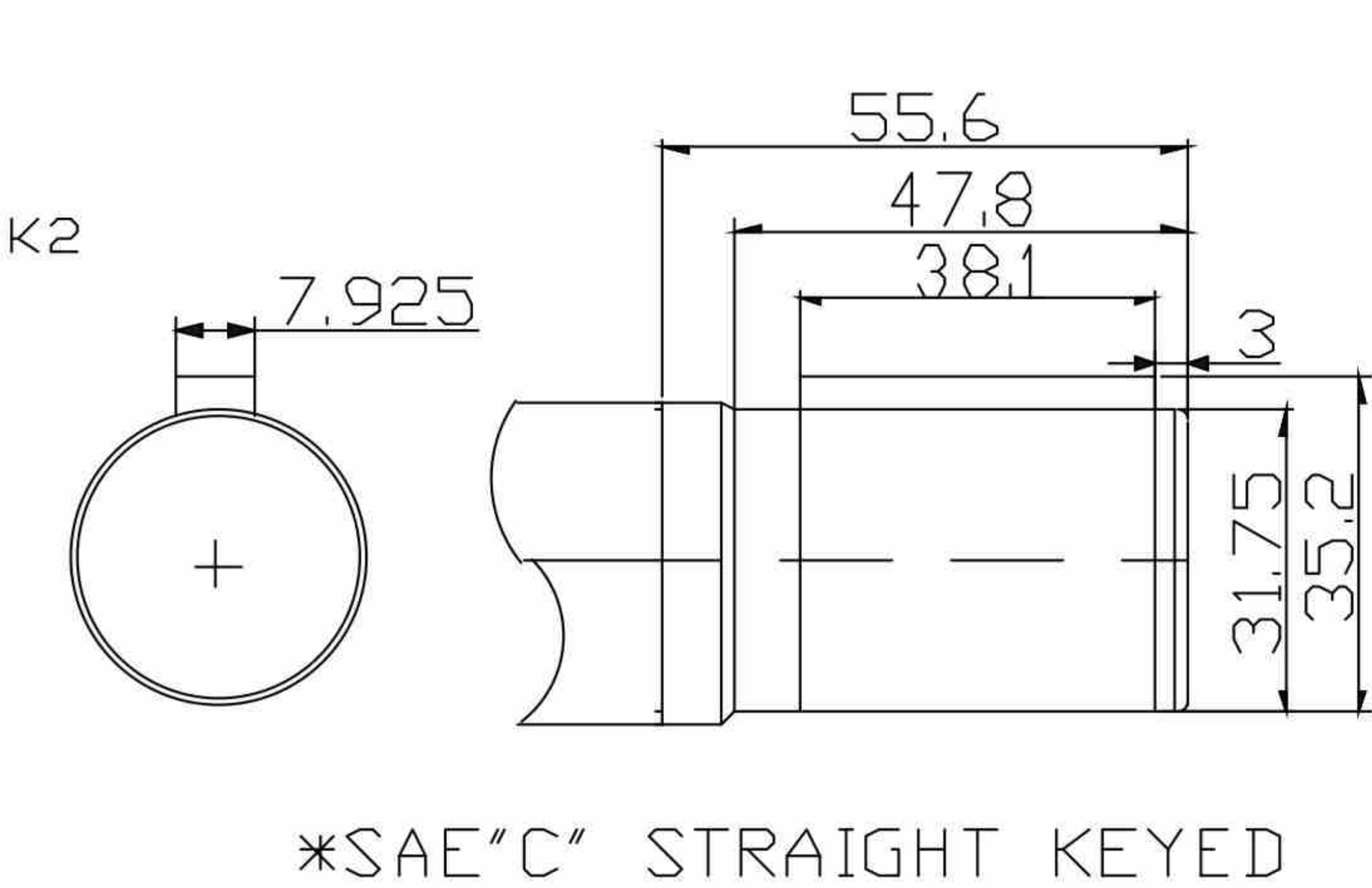
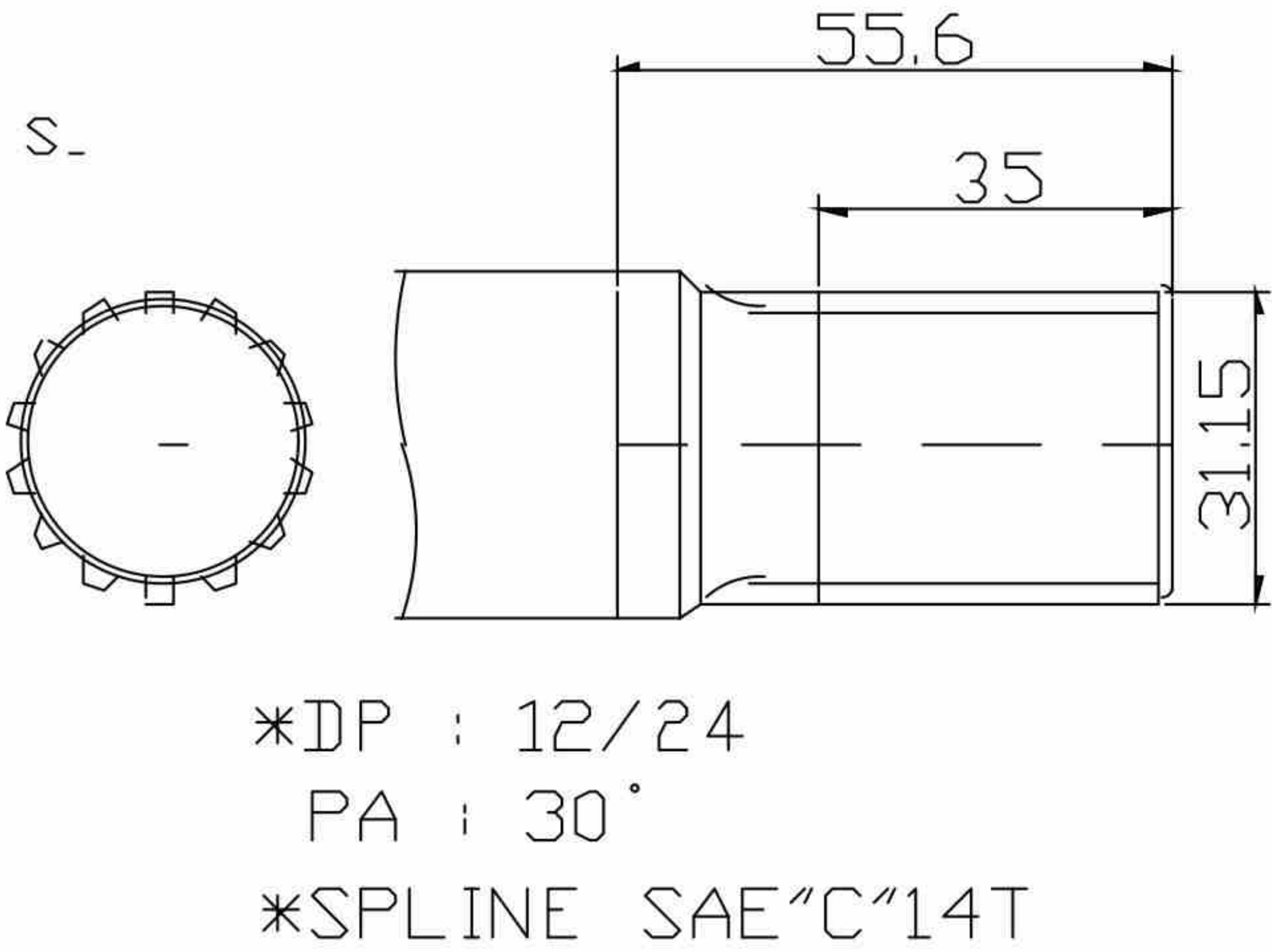
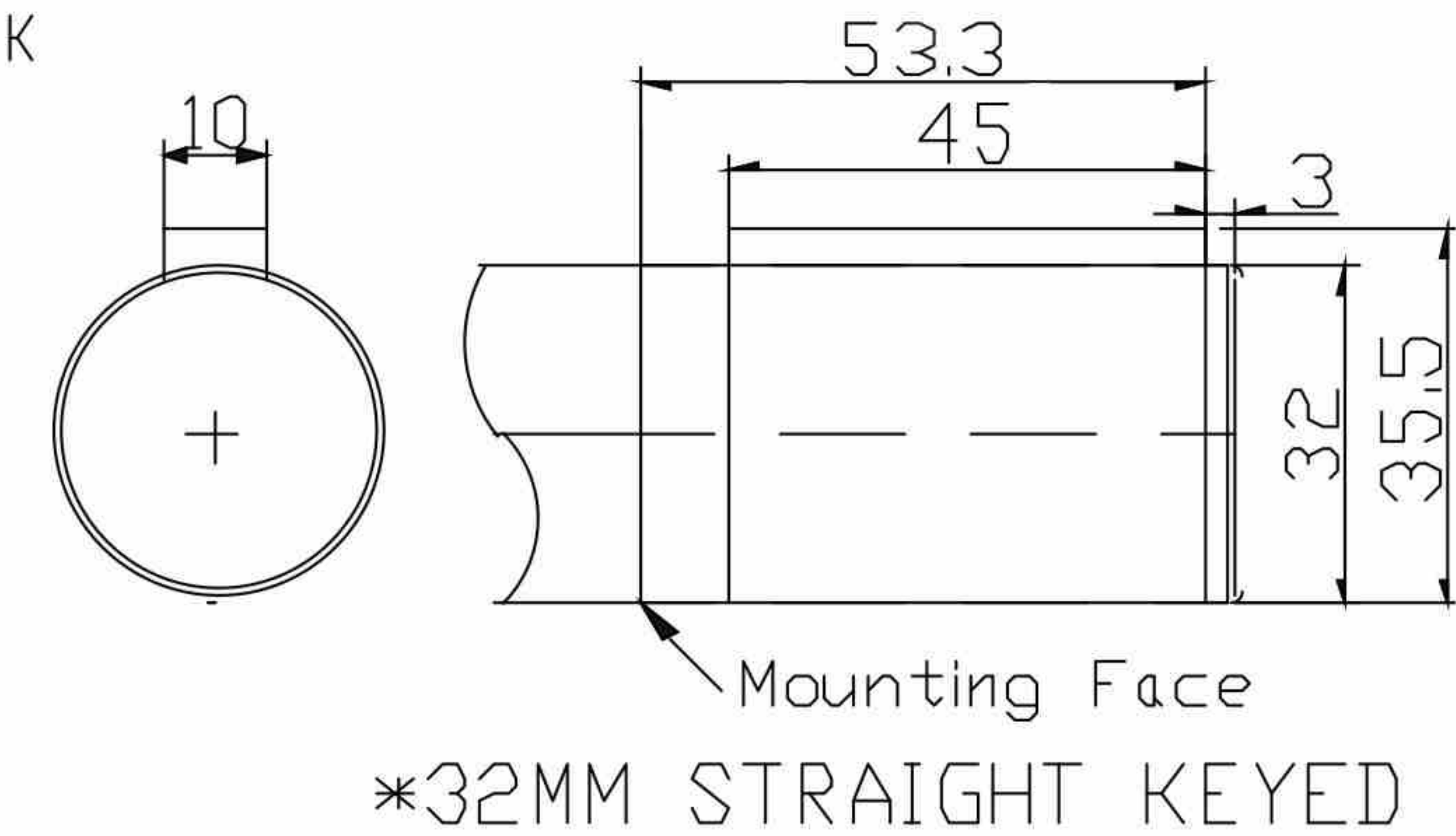
*SAE"C"2-Bolt



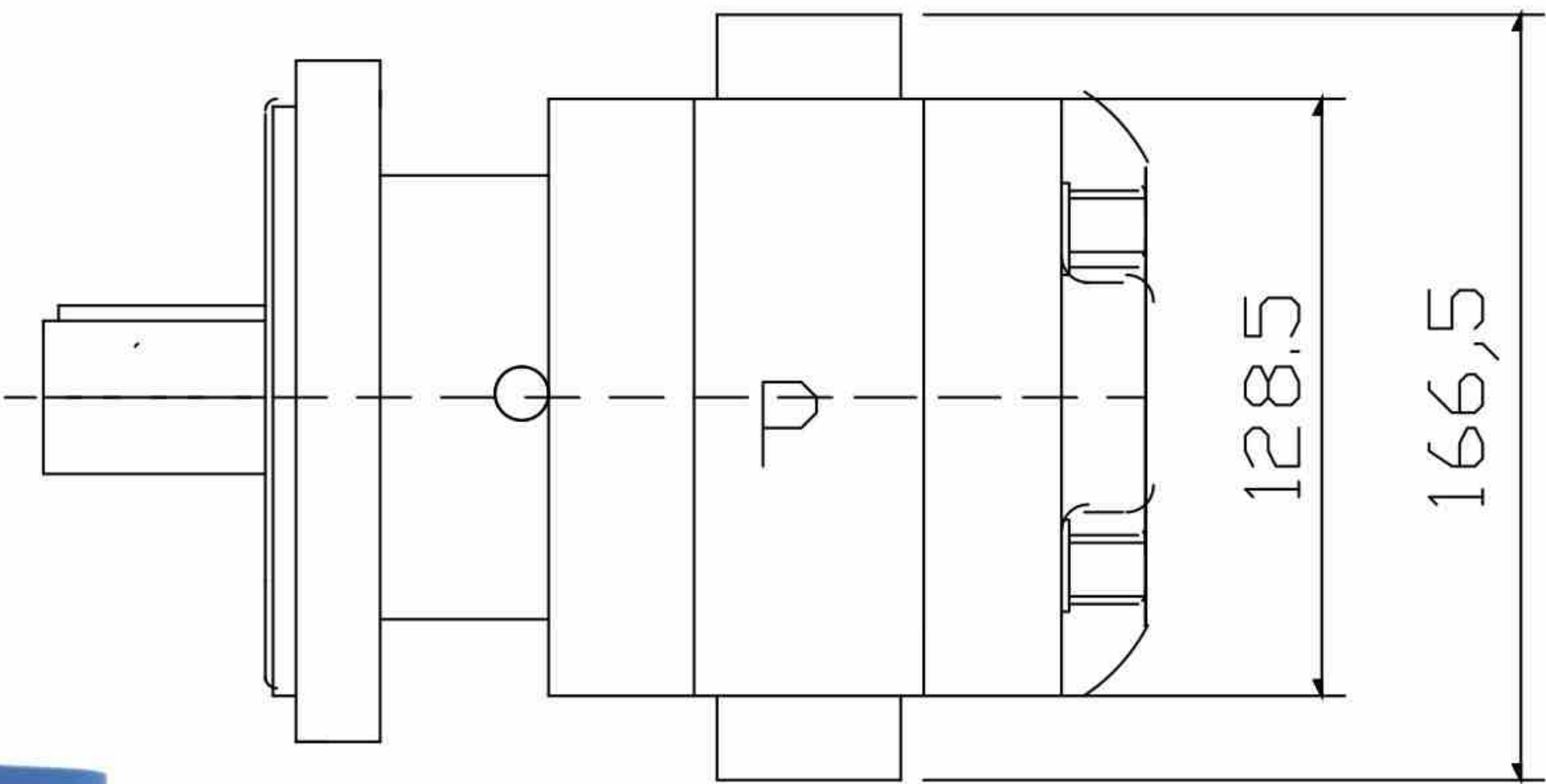
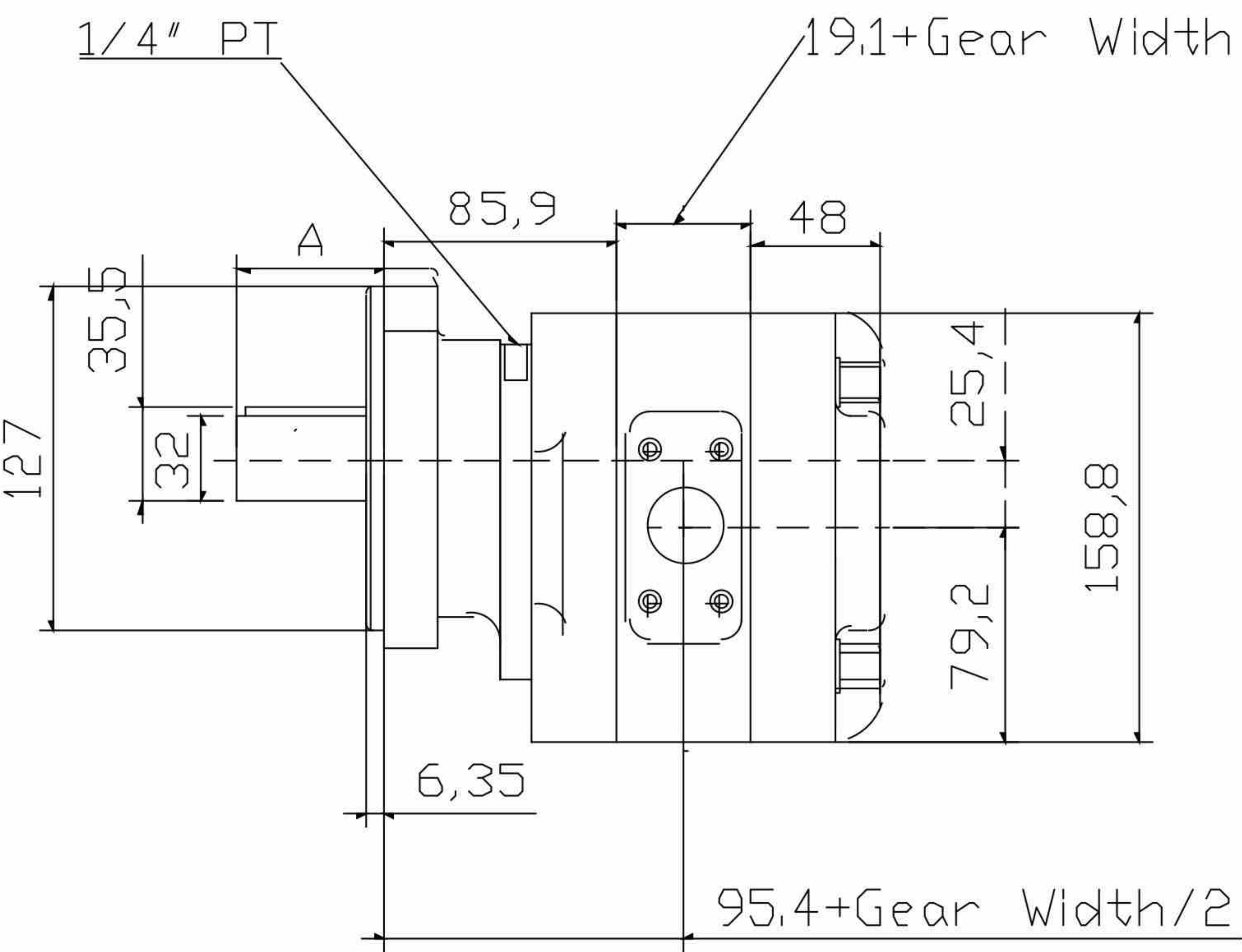
*SAE"C"4-Bolt



Drive Shaft Type



Mounting And Connecting Size



PERFORMANCE DATA

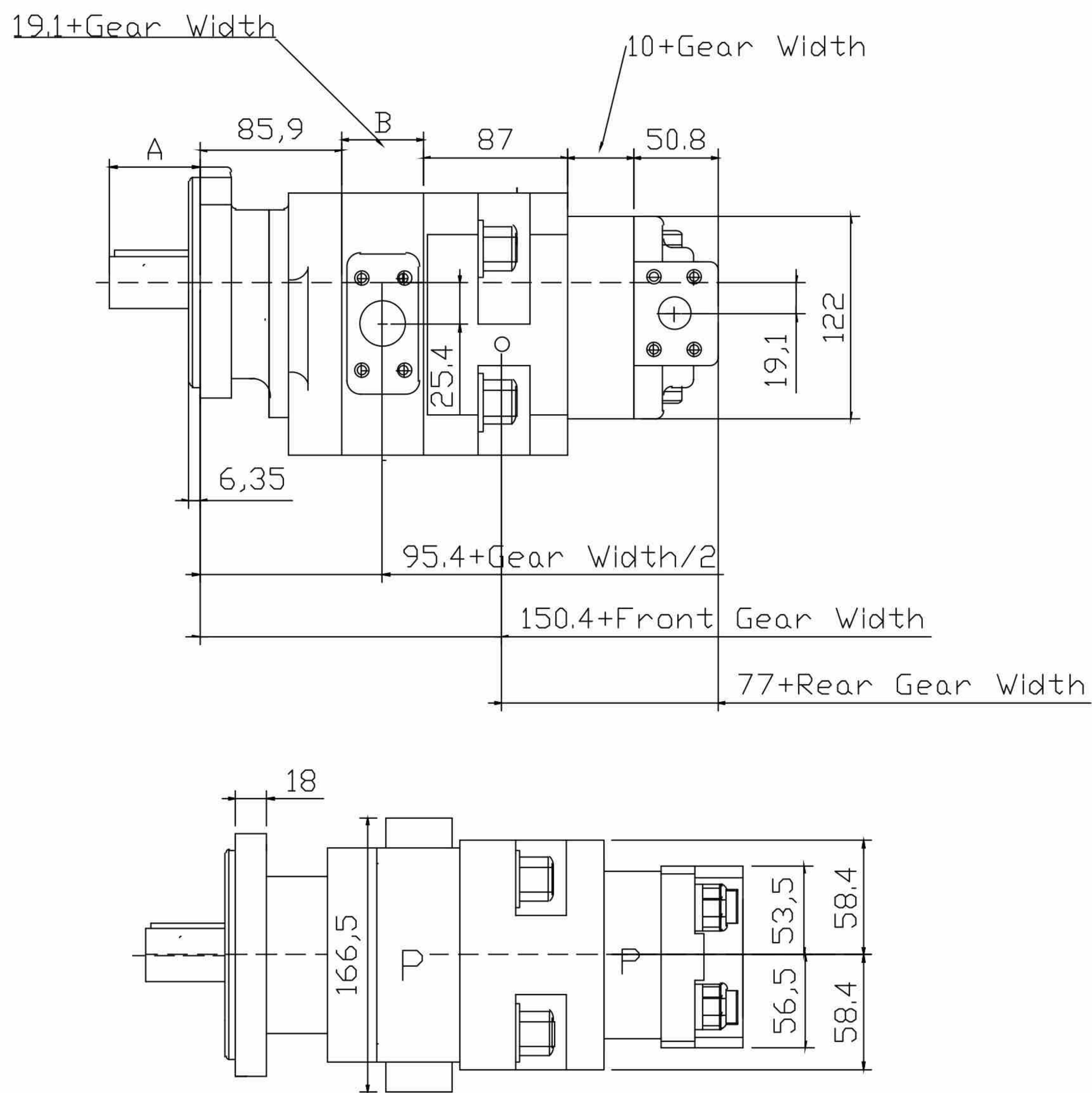
SAP 50 (FRONT UNIT)

Type	Displacement (cc/rev)	Gear Width(in.)	Pressure(bar)		Output Speed(rpm)	Output Power/2000rpm (kw)
			RATED	MAX		
SAP50 – 40	40	1	210	250	2400	39.6
SAP50 – 50	50	1 1/4	210	250	2400	49.5
SAP50 – 63	63	1 ½	210	250	2400	62.3
SAP50 – 70	70	1 3/4	210	250	2400	70.1
SAP50 – 80	80	2	210	250	2400	79.0
SAP50 – 90	90	2 1/4	180	210	2400	76.3
SAP50 – 100	100	2 1/2	180	210	2400	84.7

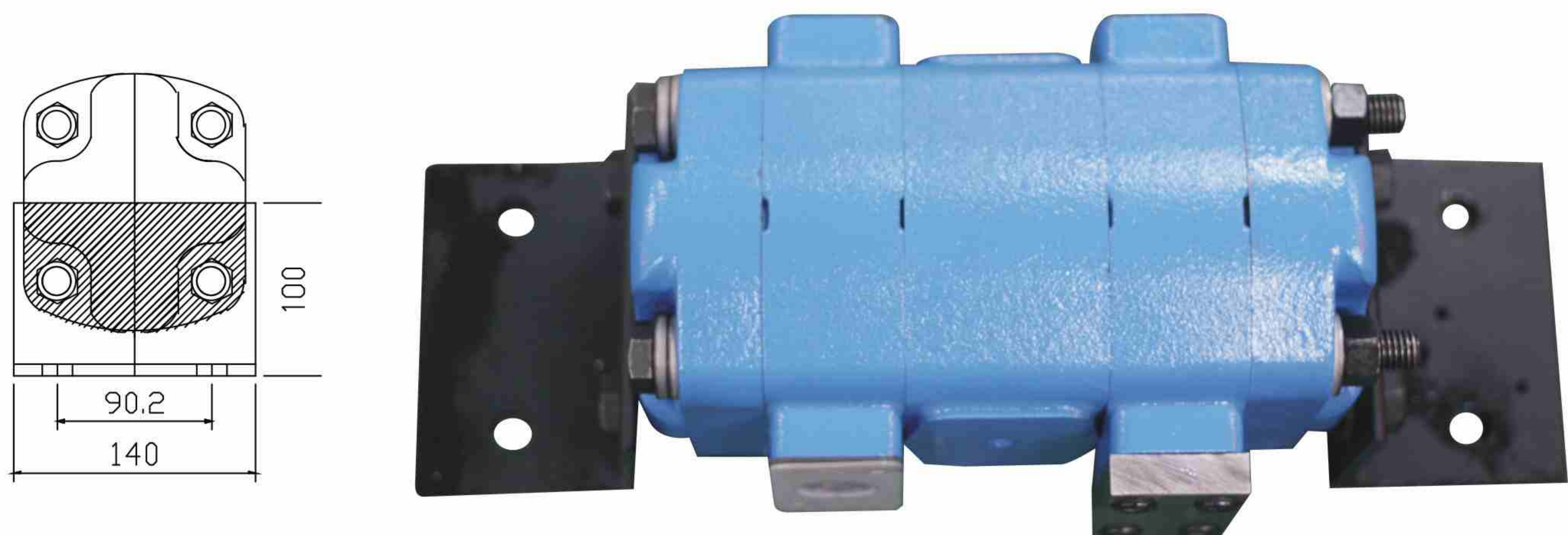
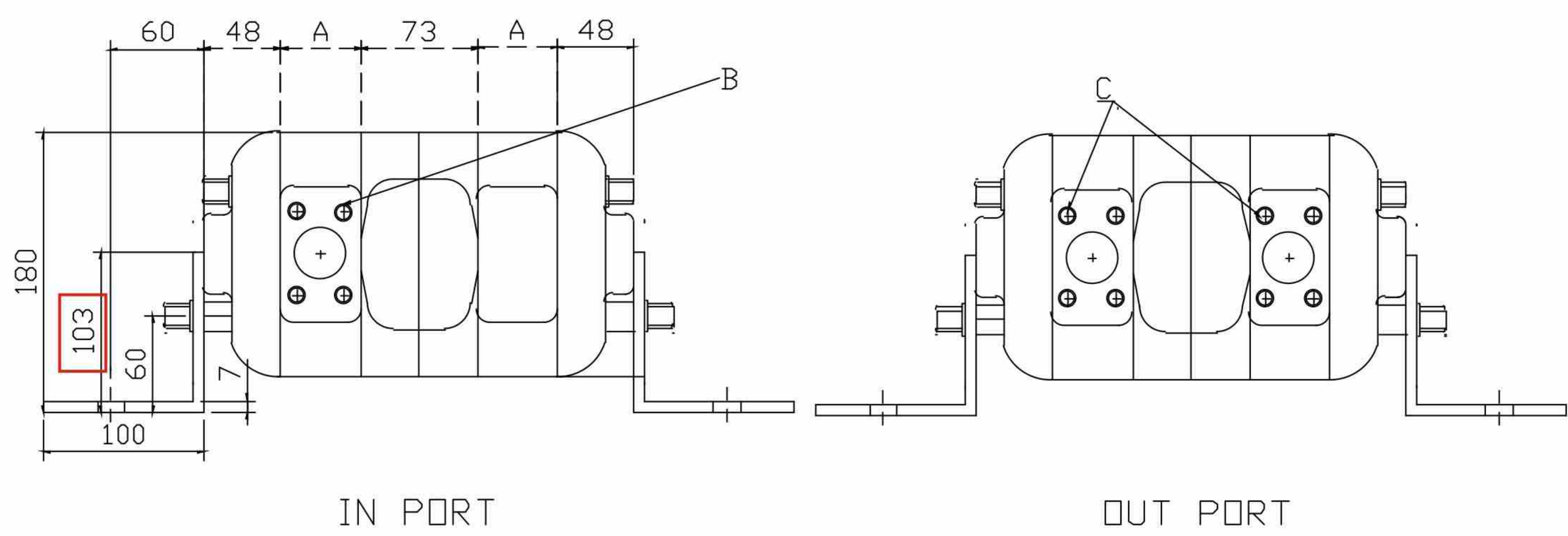
SAP 30 (REAR UNIT)

Type	Displacement (cc/rev)	Gear Width(in.)	Pressure(bar)		Output Speed(rpm)	Output Power/2000rpm (kw)
			RATED	MAX		
SAM30 – 10	10	½	250	280	2400	14.8
SAM30 – 16	16	3/4	250	280	2400	23.4
SAM30 – 20	20	1	250	280	2400	29.5
SAM30 – 25	25	1 1/4	250	280	2400	36.9
SAM30 – 30	30	1 ½	210	250	2400	37.2
SAM30 – 35	35	1 3/4	180	210	2400	38.3
SAM30 – 40	40	2	180	210	2400	42.5

Mounting And Connecting Size



PERFORMANCE DATA

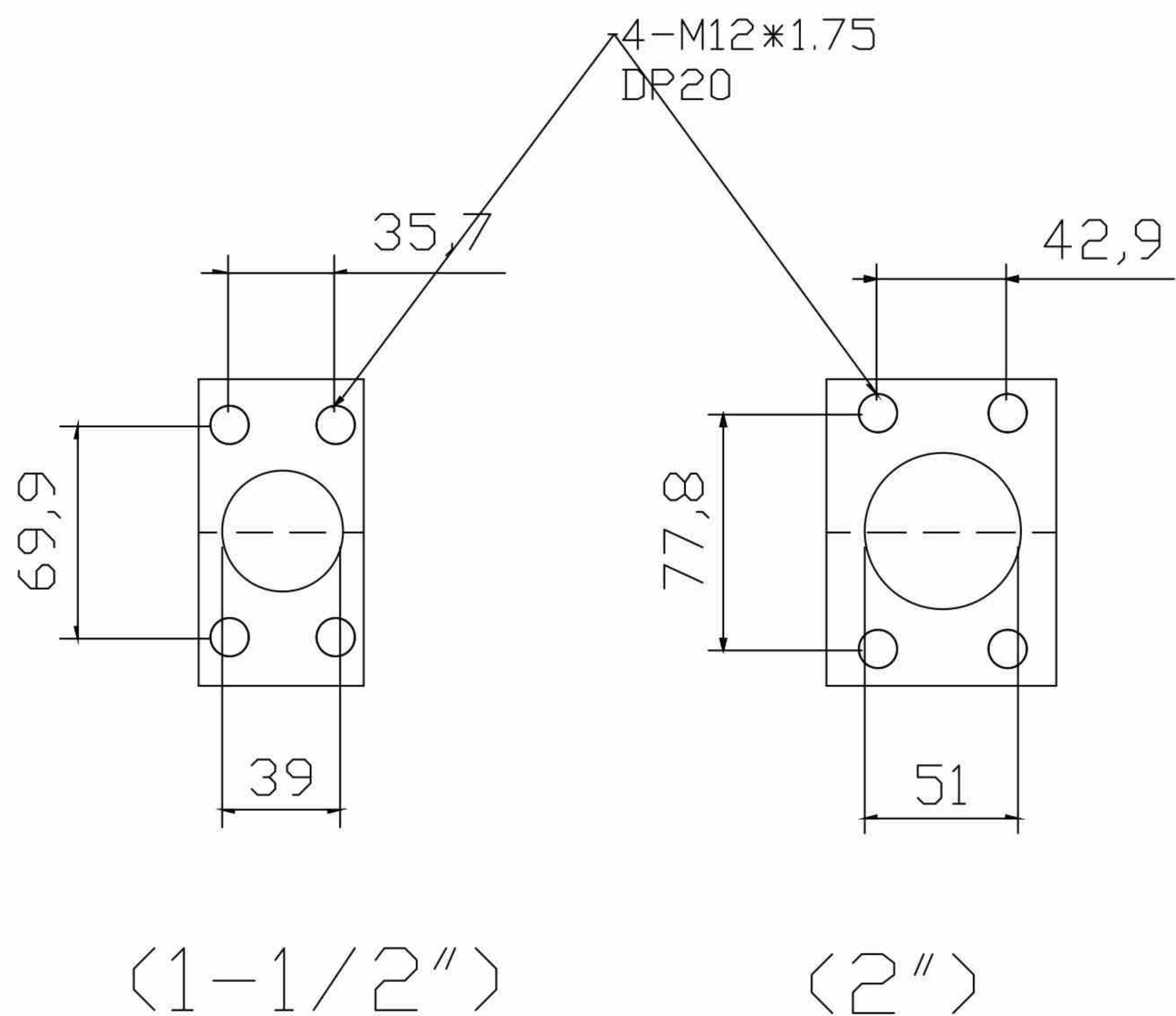
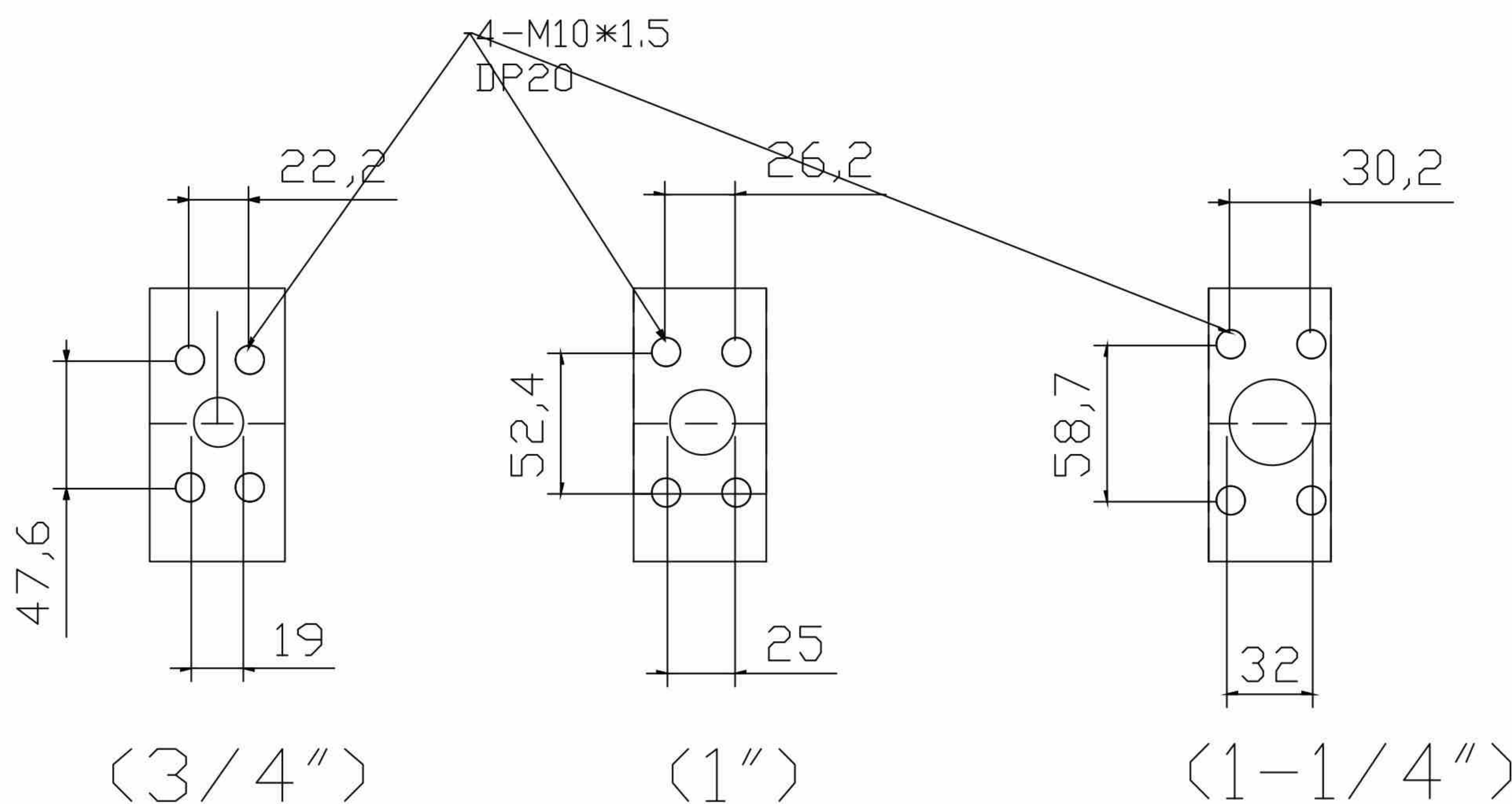


DSAP 50

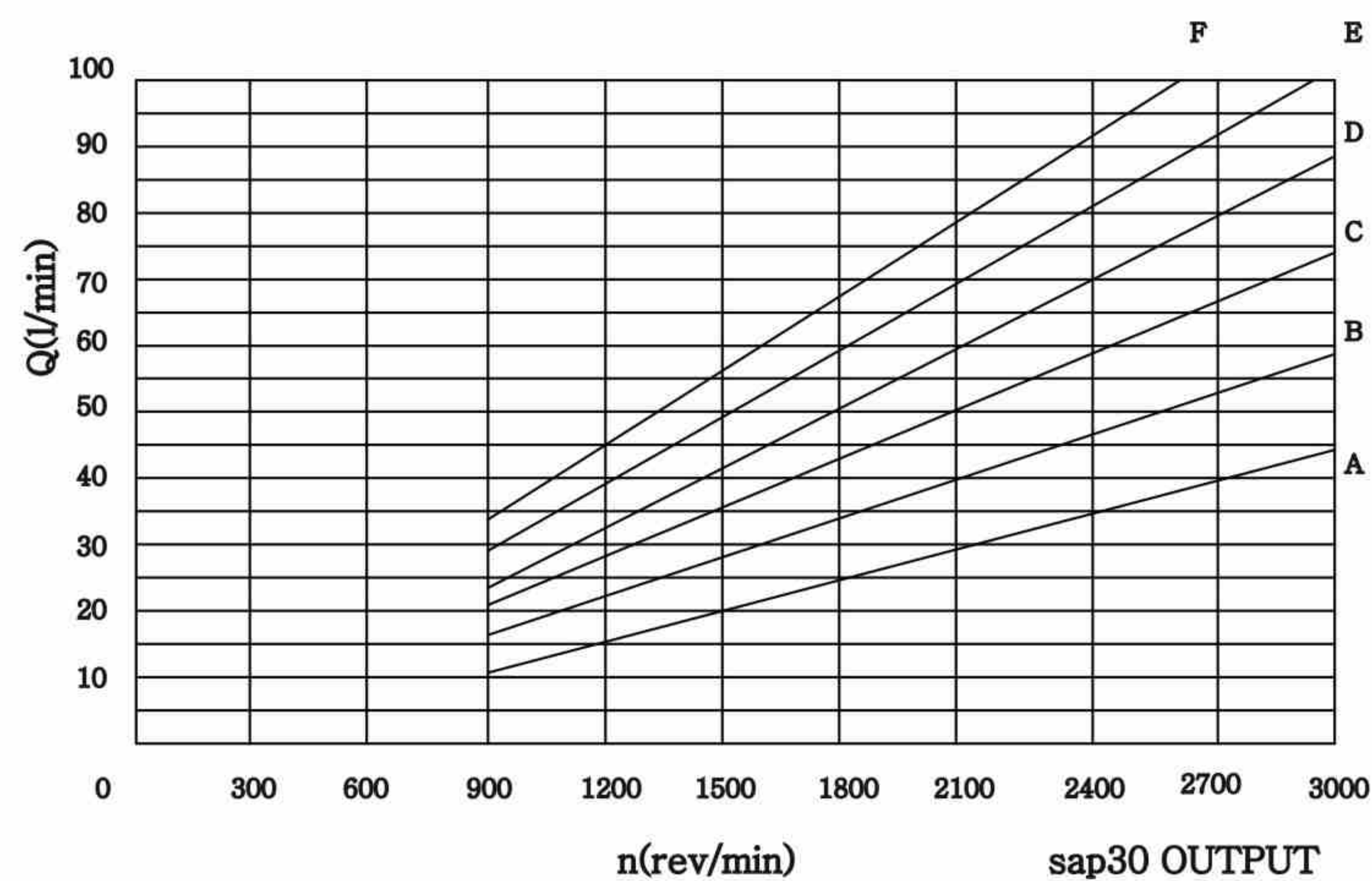
Type	Displacement (cc/rev)	Port(inch)		PREESSURE (bar)	Working Speed (bar)	A
		IN	OUT			
DSAP50 - 40	40	1	3/4	210	900 - 2100	44.5
DSAP50 - 50	50	1 1/4	1	210		50.8
DSAP50 - 63	63	1 1/2	1 1/4	210		57.2
DSAP50 - 70	70	1 1/2	1 1/4	210		63.6
DSAP50 - 80	80	2	1 1/2	210		69.9
DSAP50 - 90	90	2	1 1/2	180		76.3
DSAP50 - 100	100	2	1 1/2	180		82.6

B&C : SEE FLANGE TYPE

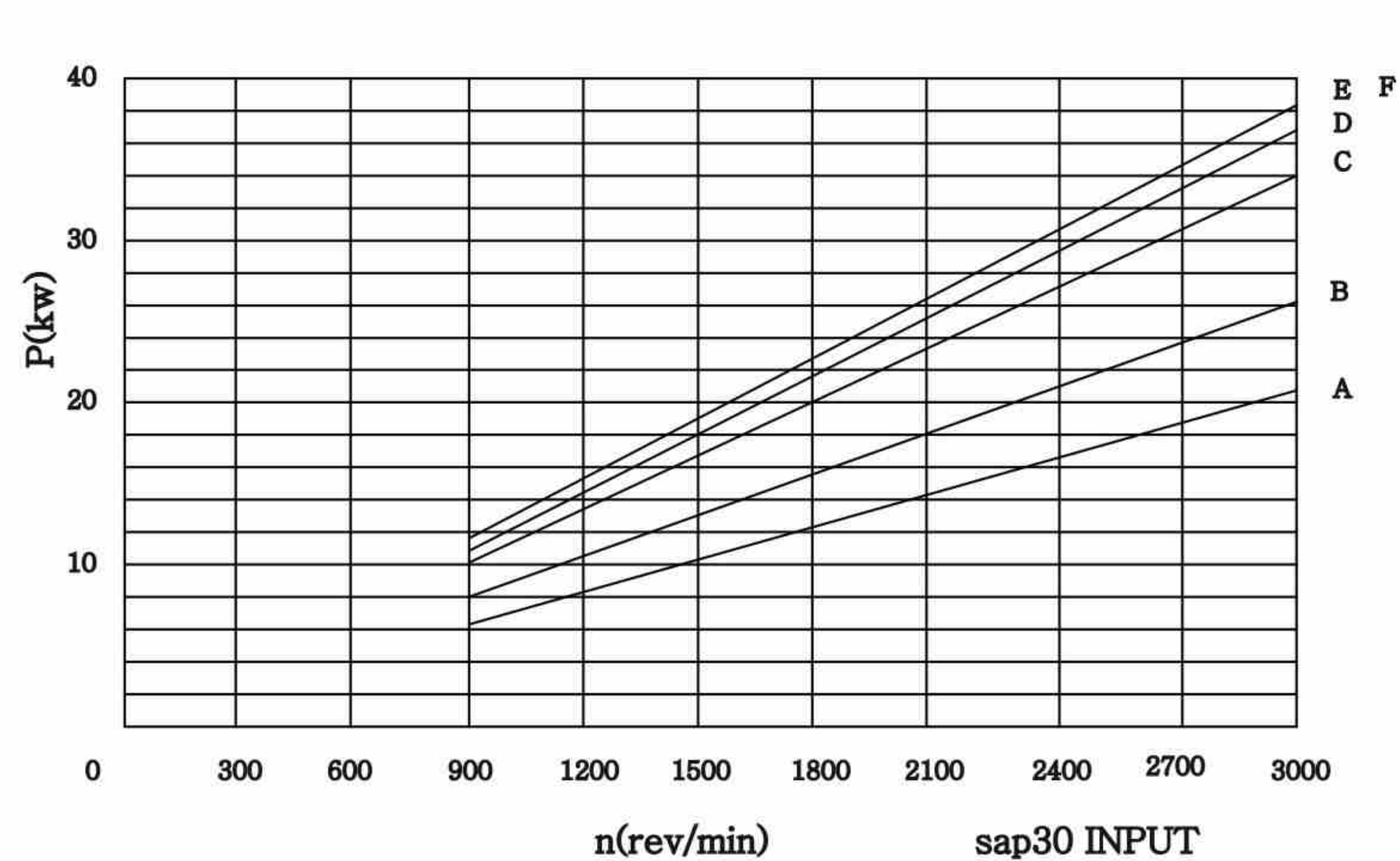
Flange Type



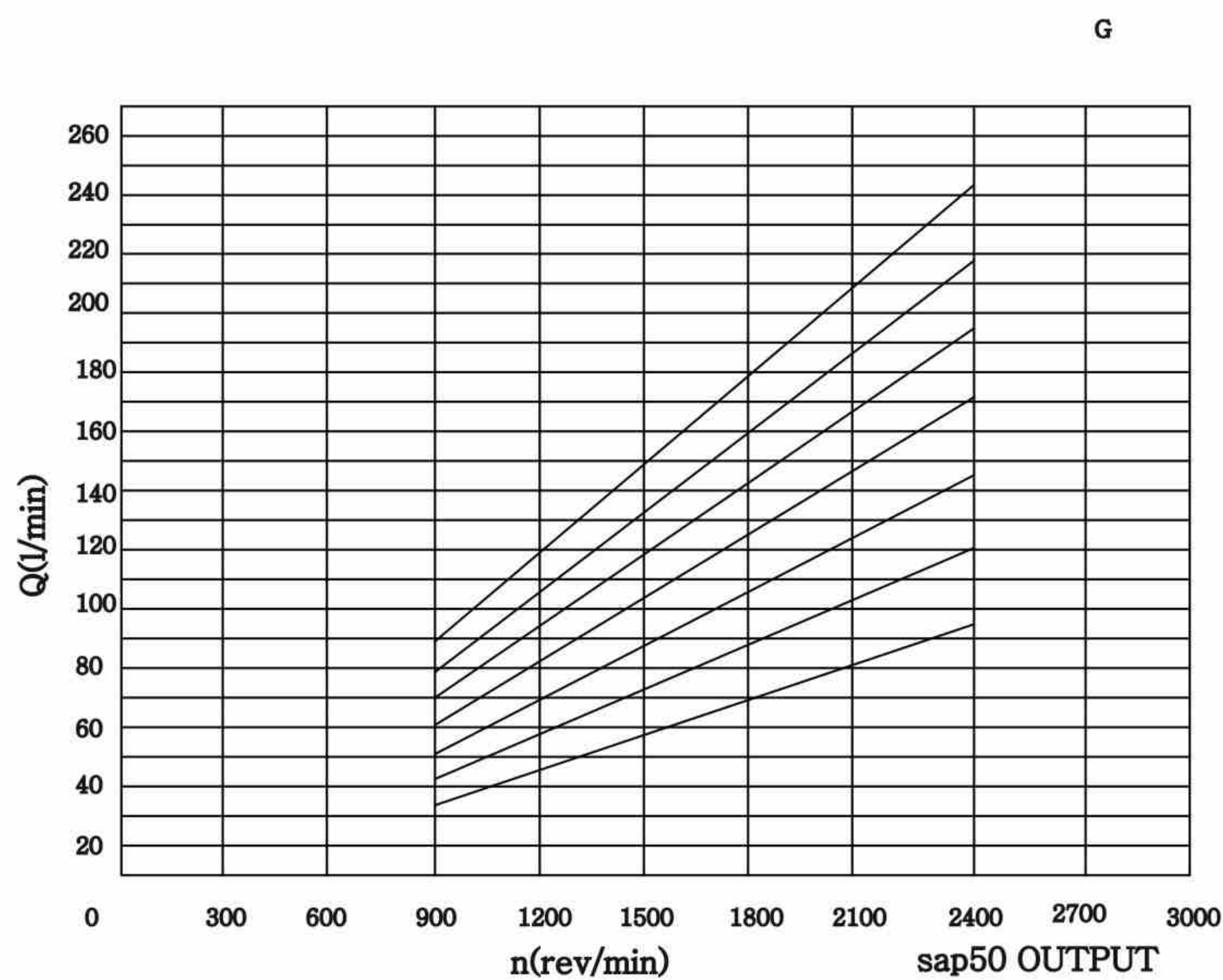
SAP(SAM)30,50 Series Performance Curves



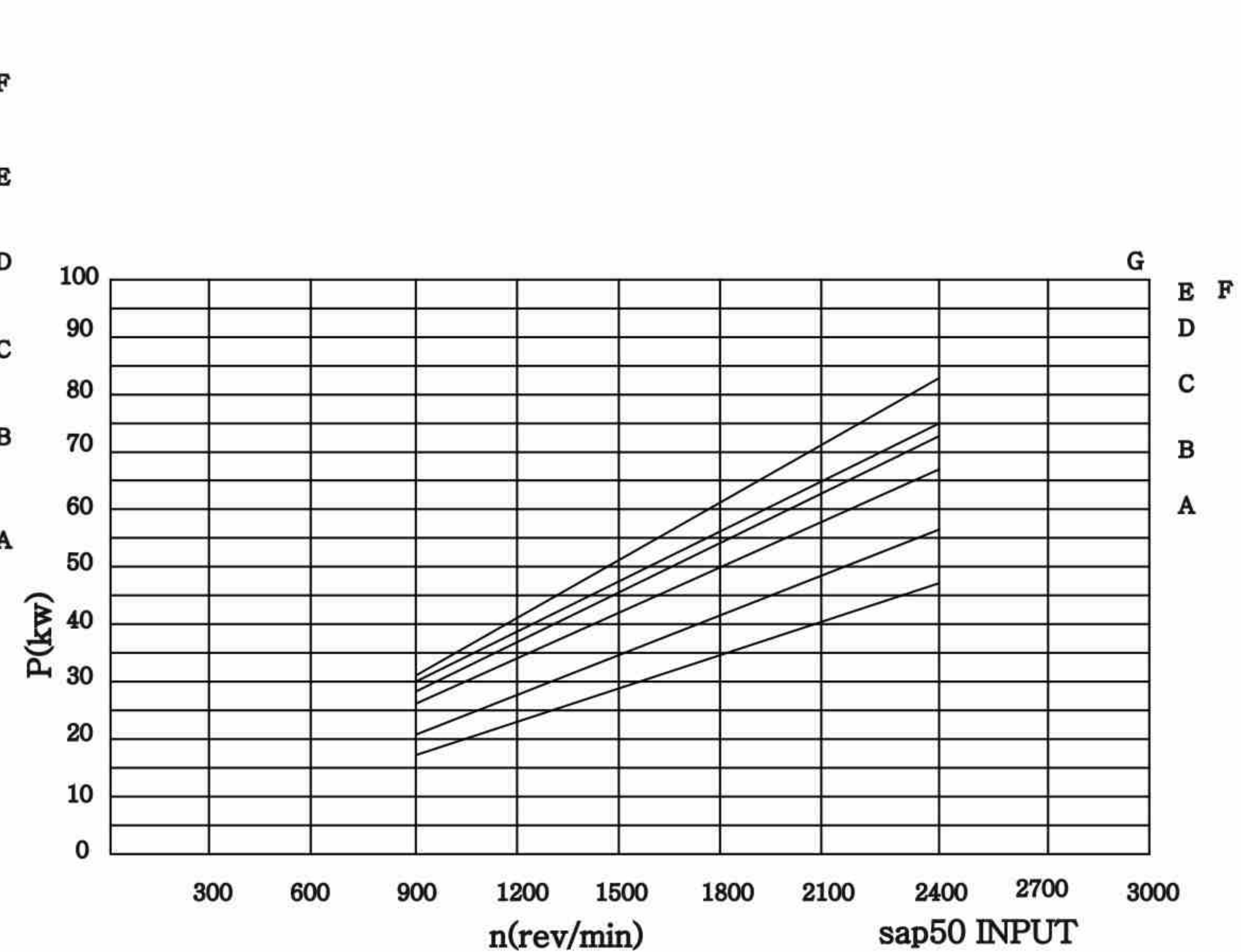
A: 3/4" - 245 bar
B: 1" - 245 bar
C: 1 1/4" - 245 bar
D: 1 1/2" - 225 bar
E: 1 3/4" - 200 bar
F: 2" - 175 bar



A: 3/4" - 245 bar
B: 1" - 245 bar
C: 1 1/4" - 245 bar
D: 1 1/2" - 225 bar
E: 1 3/4" - 200 bar
F: 2" - 175 bar



A: 1" - 245 bar
B: 1 1/4" - 245 bar
C: 1 1/2" - 245 bar
D: 1 3/4" - 225 bar
E: 2" - 210 bar
F: 2 1/4" - 190 bar
G: 2 1/2" - 170 bar



A: 1" - 245 bar
B: 1 1/4" - 245 bar
C: 1 1/2" - 245 bar
D: 1 3/4" - 225 bar
E: 2" - 210 bar
F: 2 1/4" - 190 bar
G: 2 1/2" - 170 bar

* Performance data shown are the average results based on a series of laboratory tests of production units and are not necessarily representative of any one unit.
Tests were run with the oil reservoir temperature at 120 F and viscosity 150 SUS at 100 F.



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