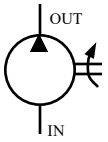
FluidHaus

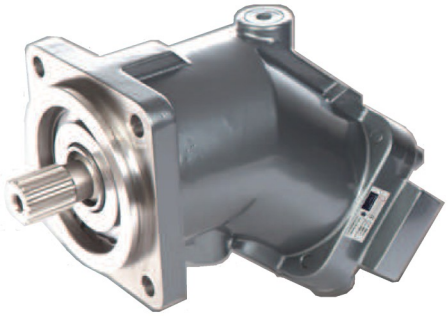
Pump Fixed, Bent Axes, 5-130cc/rev
Series: PFBP...10

SAE A, B, C, D 0-350 Bar (0-5000 PSI) 0-208 lpm (0-54 gpm)



Features

- Bent Axis Piston design gives high power with smaller overall dimensions and optimum efficiency
- Flow is proportional to shaft rotation speed
- Rotation speed up to 2500 rpm
- Pressures up to 5000 PSI
- Flows up to 54 gpm



Ordering Details

P	Pump
F	Fixed Displacement
BP	Bent Axis Piston
18-	CC, Centimeters^3/rev.: 5, 12, 18, 25, 32, 40, 50, 56, 63, 80, 108, 130

K1- Shaft:

Keyed

Code	Shaft Dia. (in.)	Key Width (in.)	CC/rev
K1	1	0.25	5, 12, 18, 25, 32, 40
K1.2	1.25	0.312	50, 56, 80, 108, 130
K1.7	1.75	0.437	80, 108, 130

Spline

Code	Shaft Dia. (in.)	Details	CC/Rev
13T.8	0.875	13T 16/32DP	5, 12, 18, 25, 32, 40, 50, 56, 63, 80
15T	1.0	15T 16/32DP	50, 56, 63
13T1.7	1.75	13T 8/16DP	80, 108, 130
14T	1.25	14T 12/24DP	80, 108, 130

2B- Mounting Flange:

Code	Flange	CC/Rev
2A	SAE A, 2-BOLT	5
2B	SAE B, 2-BOLT	5, 12, 18, 25, 32, 40, 50, 56, 63
4C	SAE C, 4-BOLT	80, 108
4D	SAE D, 4-BOLT	108, 130

O8 Pressure Port:

O8 Suction Port:

Threaded, SAE O-ring boss

Code	Dash Size	Thread	CC/Rev.
O8	-8	3/4-16	5, 12, 18, 25, 32
O12	-12	1 1/16-12	40, 50, 56, 63
O16	-16	1 5/16-12	80, 108, 130

R-	Port Location: R=Rear
R-	Rotation when looking at the shaft: R= Right (CW), L= Left (CCW)
10	Series: 10

Example Part Number: PFBP18-K1-2B-O8O8R-R-10

Section 1 – Technical Data

Displacement	**CC/rev**	**5**	**12**	**18**	**25**	**32**	**40**	**50**	**56**	**63**	**80**	**108**	**130**
	in^3/rev	0.3	0.7	1.1	1.5	2.0	2.4	3.1	3.4	3.8	4.9	6.6	7.9
Oil Flow at Pump rotation of 1800 rpm*	**LPM**	9.0	21.7	32.5	45.2	57.8	72.3	90.3	101.2	113.8	144.6	195.1	234.9
	GPM	2.4	5.7	8.6	11.9	15.2	19.0	23.8	26.6	30.0	38.0	51.4	61.8
Max. Speed													
-Continuous	**rpm**	2500	2300	2300	2300	2250	1900	1900	1900	1900	1700	1700	1600
-Intermittent	**rpm**	3300	3100	2900	2700	2700	2500	2500	2300	2300	2100	1900	1750
Max. Continuous Pressure	**bar**	350	350	350	350	350	350	350	350	350	350	350	350
	psi	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Max. Peak Pressure	**bar**	400	400	400	400	400	400	400	400	400	400	400	400
	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800
Weight	**kg**	8.0	10.0	10.0	10.5	11.5	11.5	12.0	12.5	12.5	16.0	16.5	21.5
	lbs.	17.6	22.0	22.0	23.1	25.3	25.3	26.4	27.5	27.5	35.2	36.3	47.3

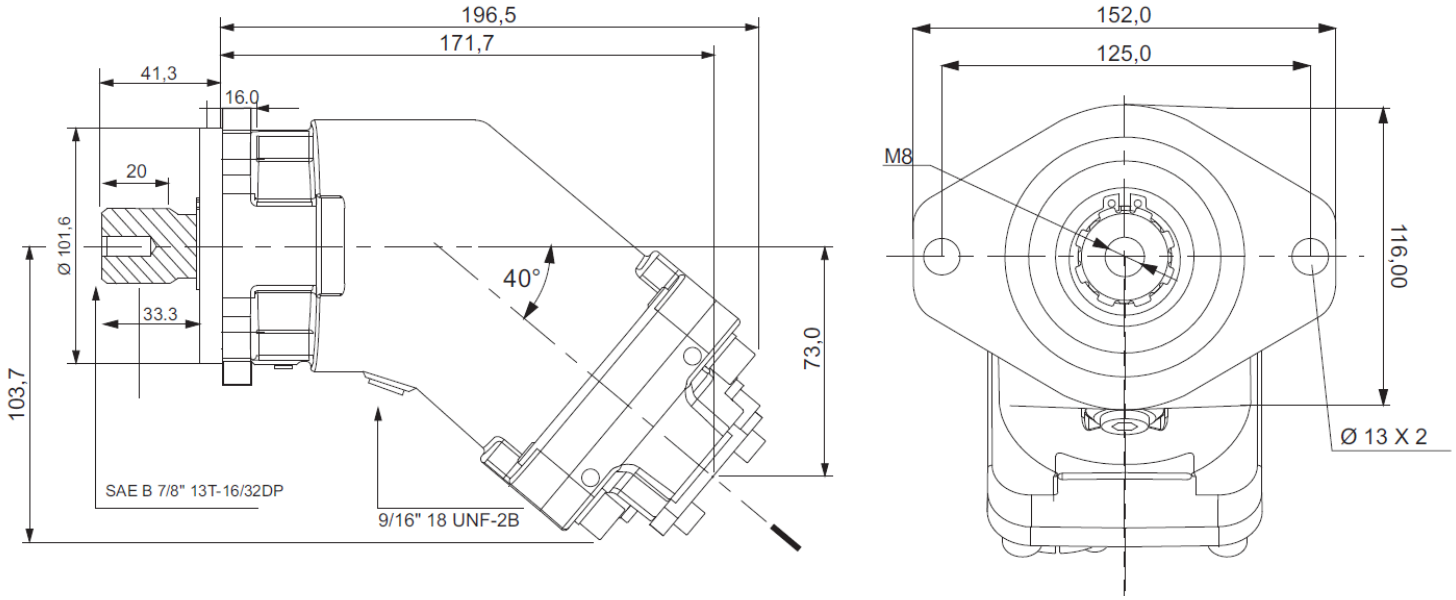
***Pump flow (GPM) = (rpm x in^3/rev)/231**

Fluid Recommendation:

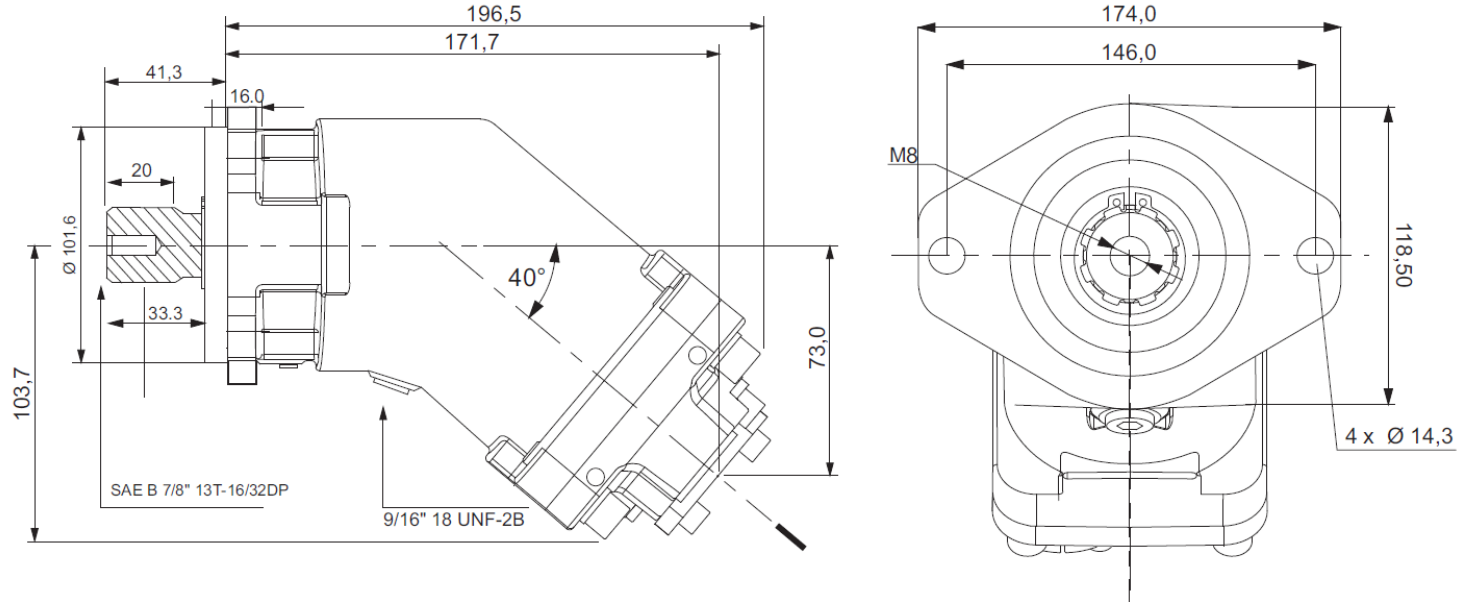
Viscosity:	20 to 40CSt
Min. Viscosity:	5 cSt
Filitration:	10µ absolute
	Class 9 NAS 1638
	Class 6 SAE
	Class 18/15 ISO
Max. temperature:	100°

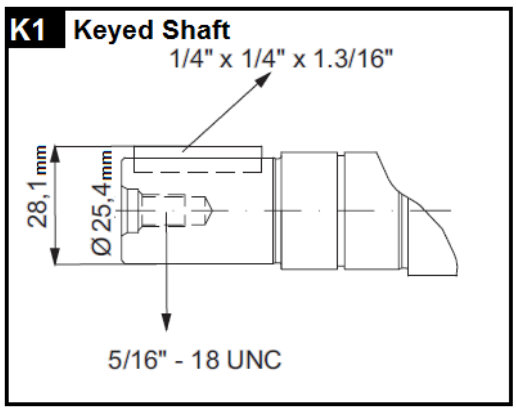
Section 2 – Dimensional Data: 5CC

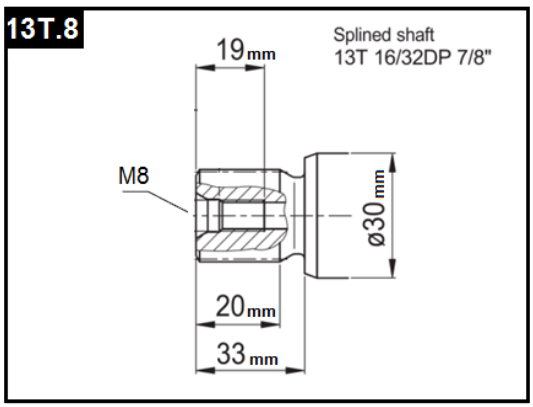
SAE A - 2 BOLT MOUNTING FLANGE

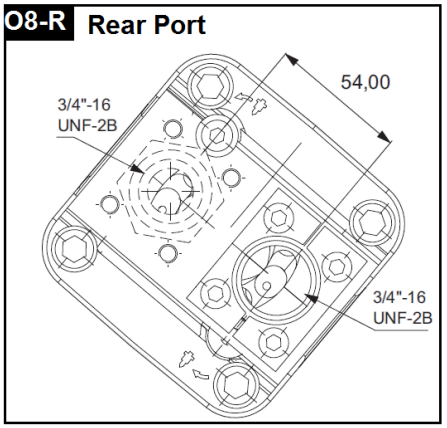


SAE B - 2 BOLT MOUNTING (**SAE J744**)



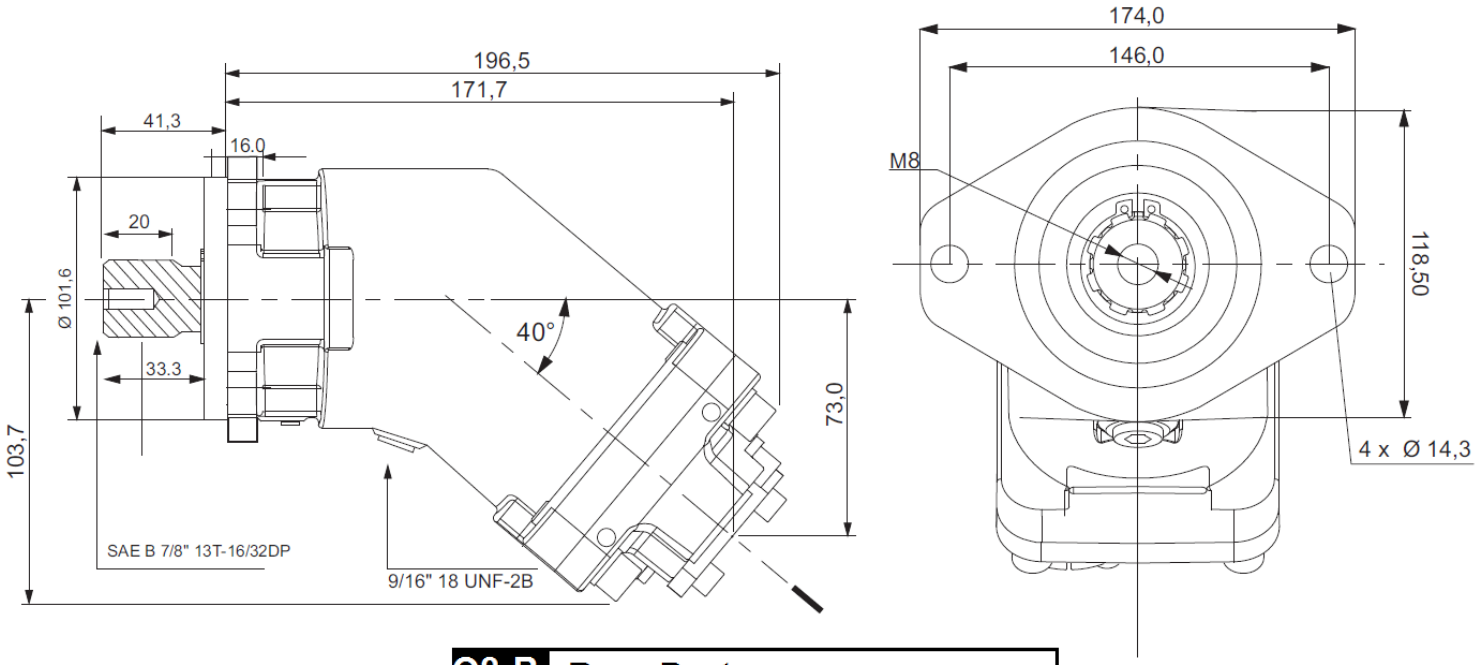


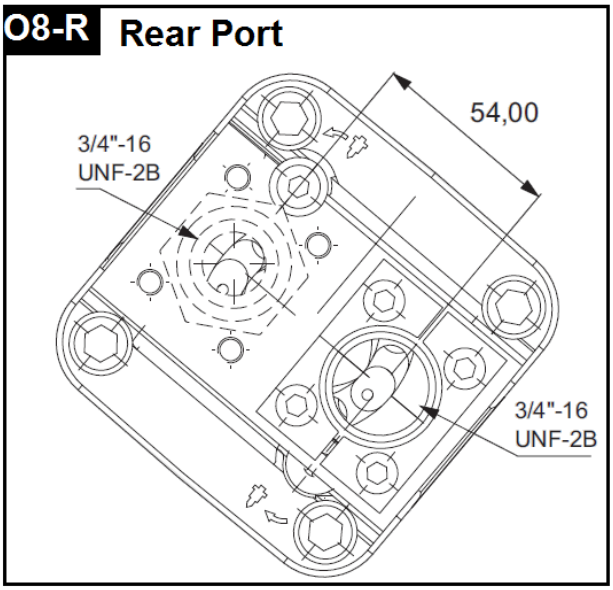


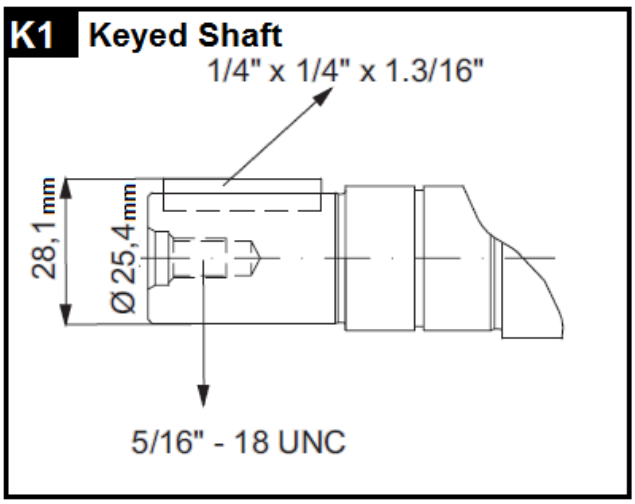


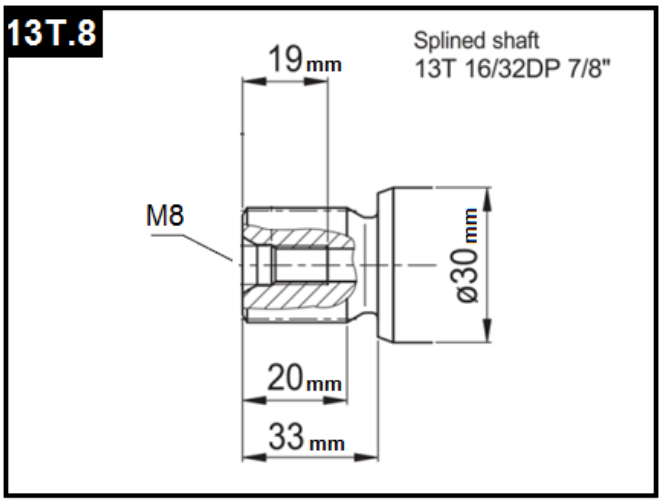
Section 2 – Dimensional Data: 12CC

SAE B - 2 BOLT MOUNTING (**SAE J744**)



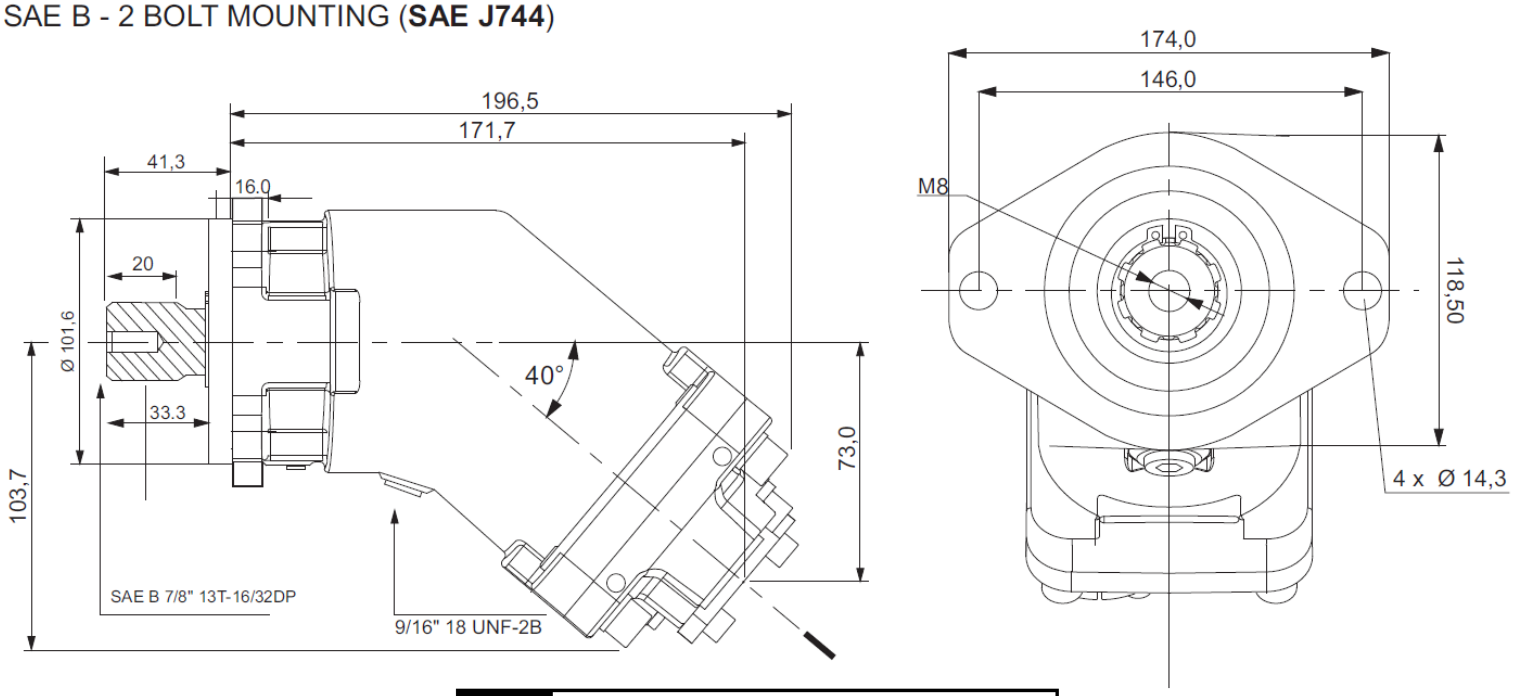


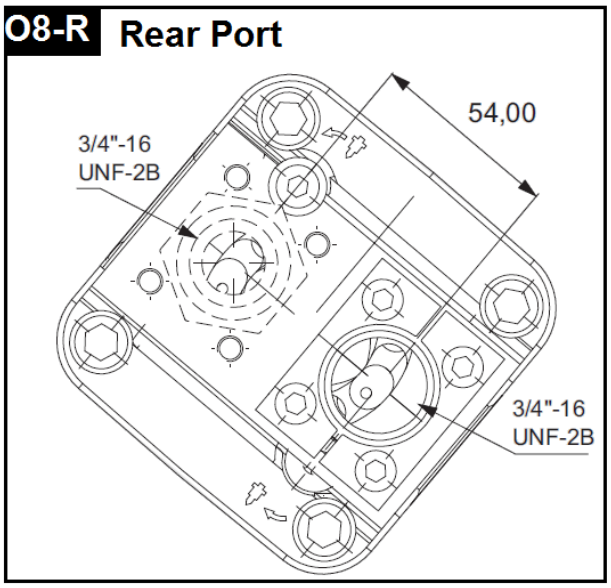


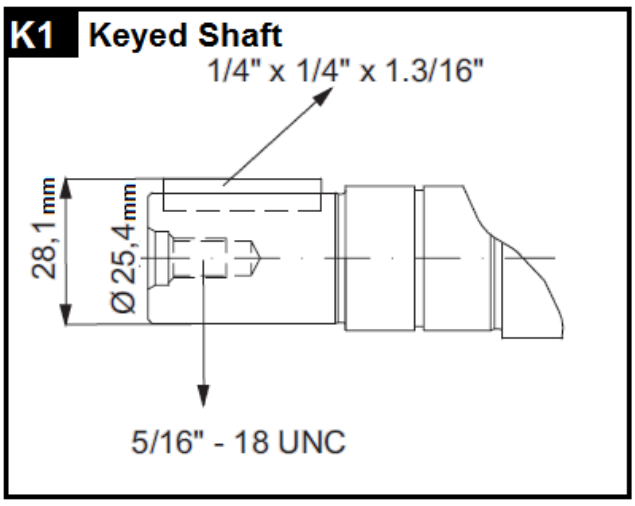


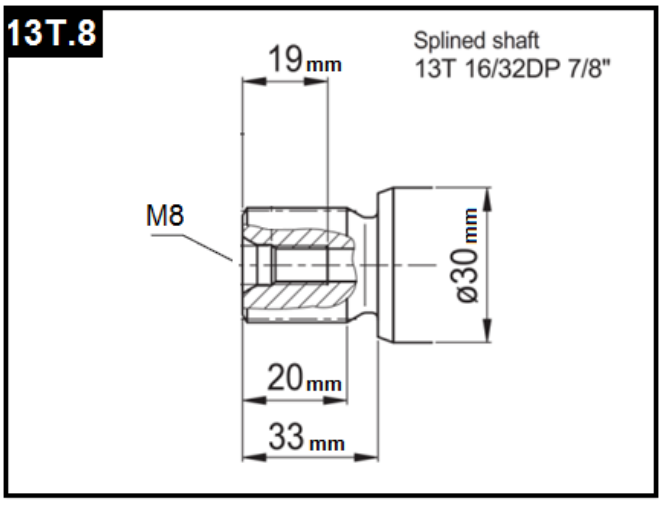
Section 2 – Dimensional Data: 18CC

SAE B - 2 BOLT MOUNTING (**SAE J744**)



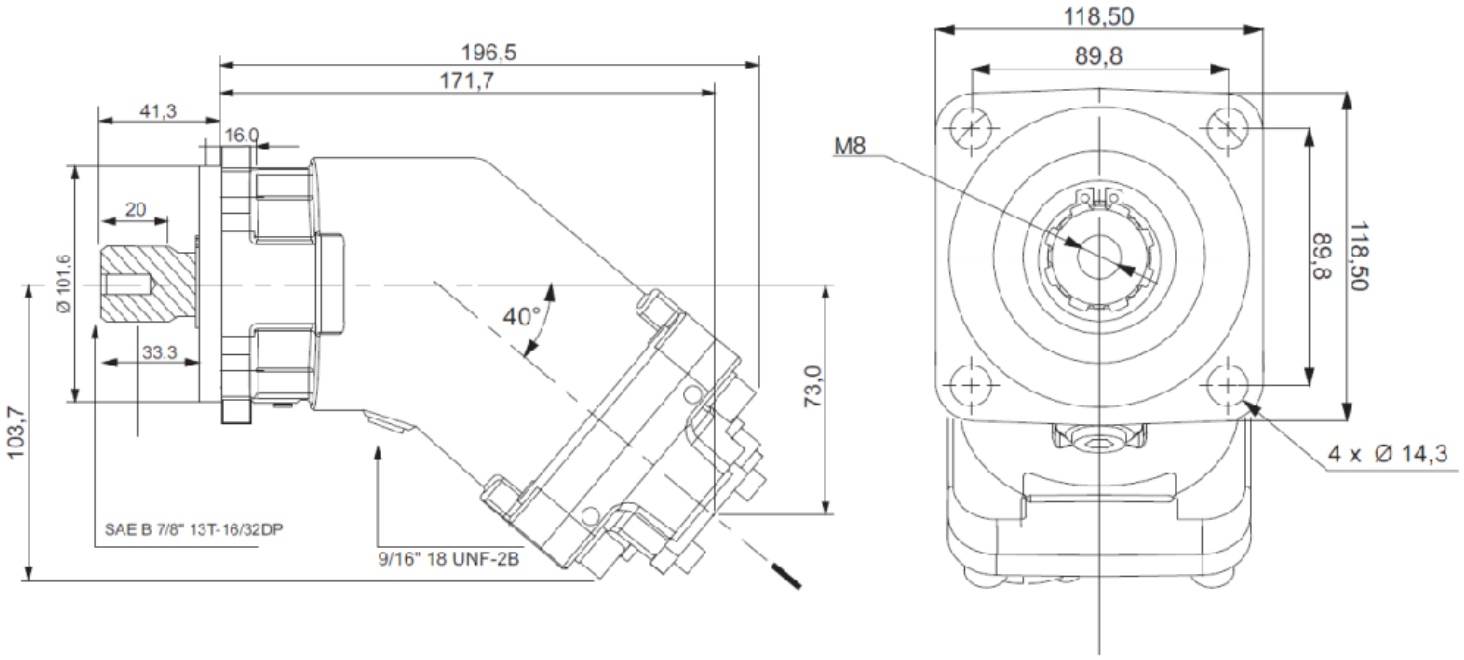


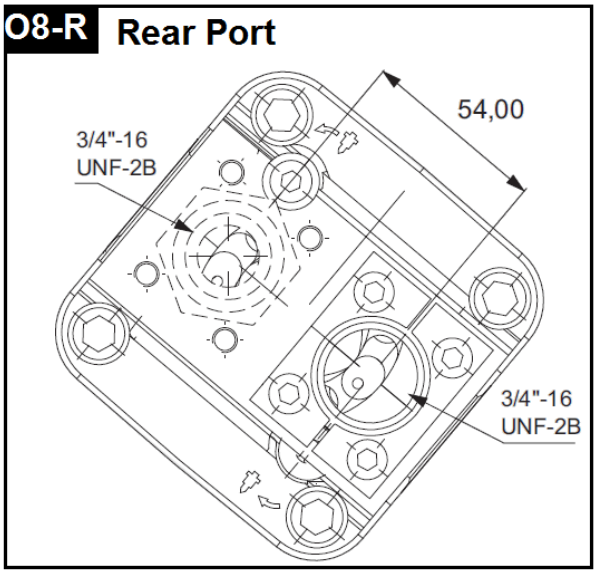


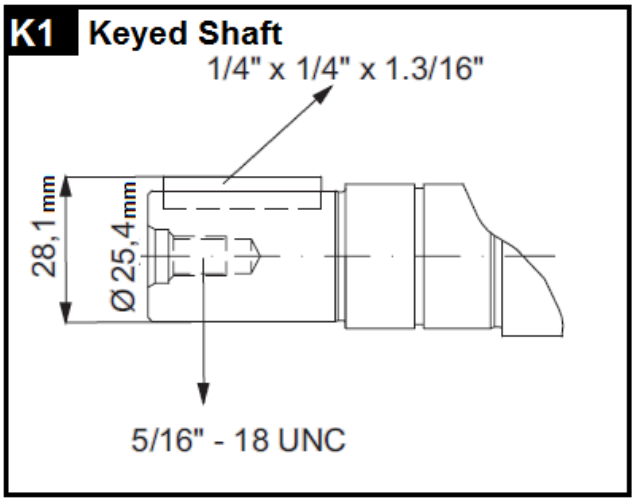


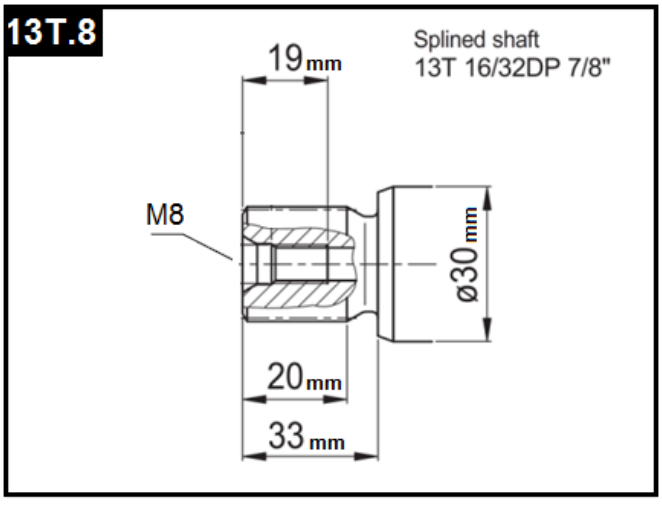
Section 2 – Dimensional Data: 25CC

SAE B - 4 BOLT MOUNTING



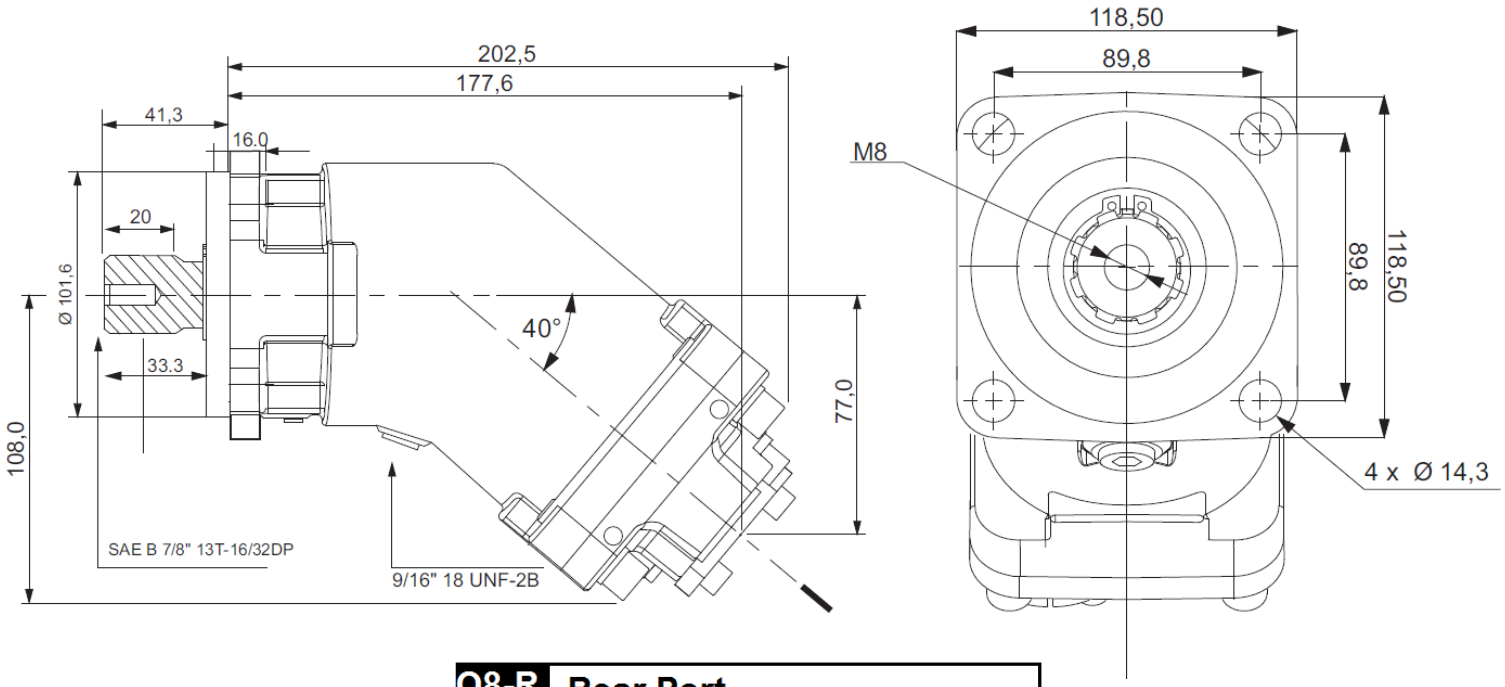


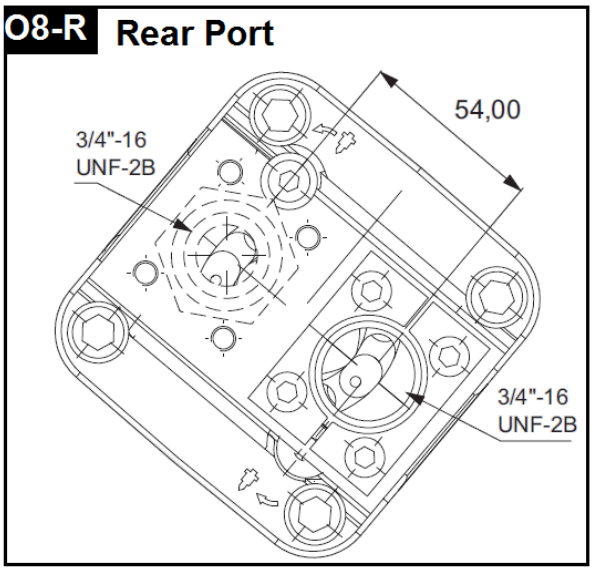


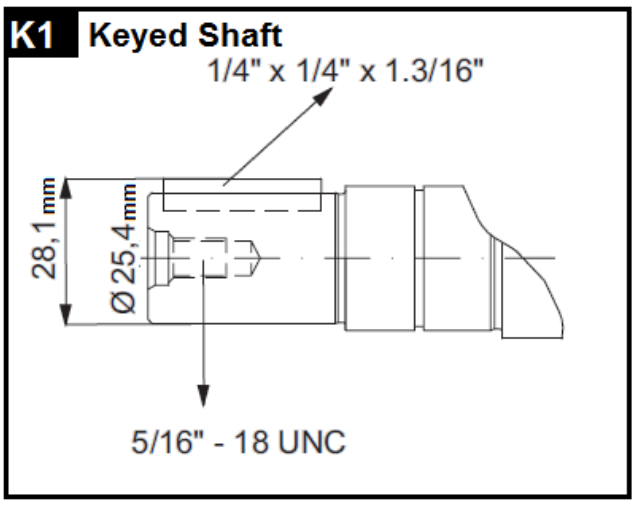


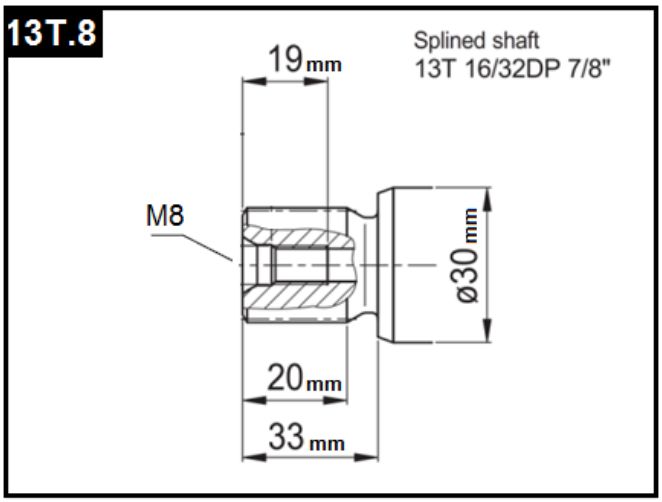
Section 2 – Dimensional Data: 32CC

SAE B - 4 BOLT MOUNTING (**SAE J744**)



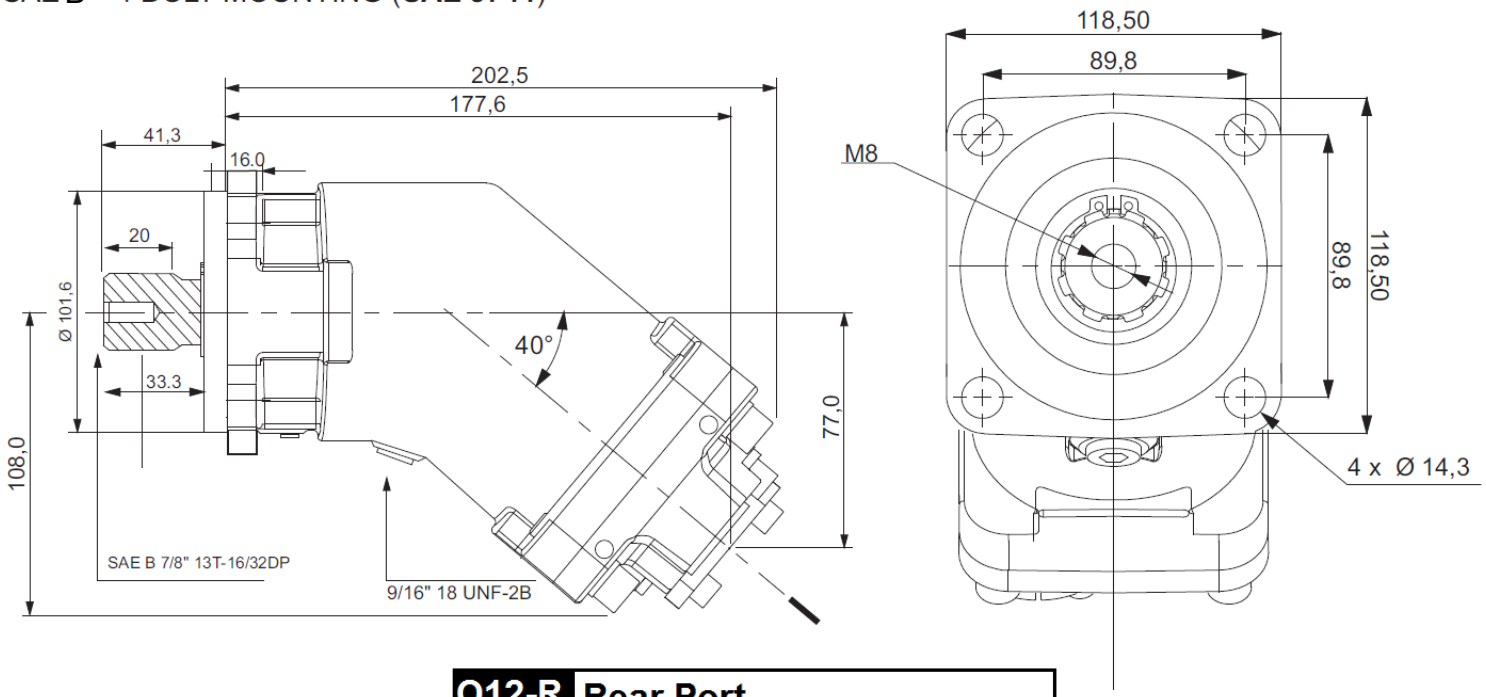


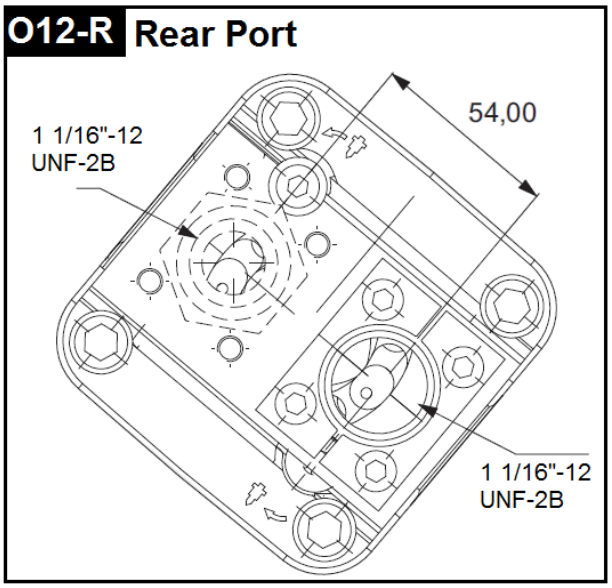


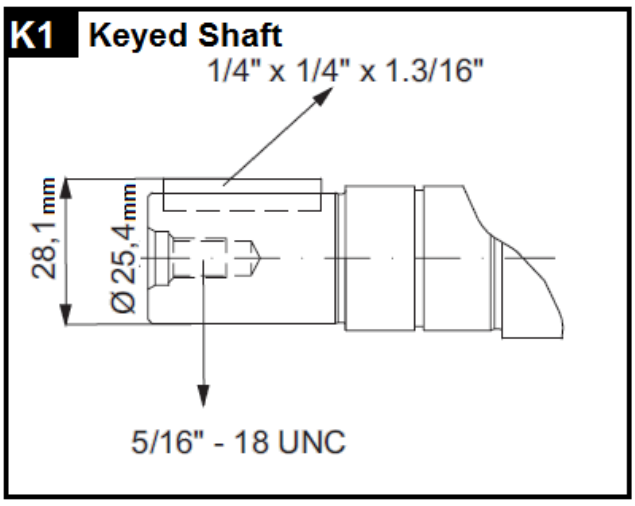


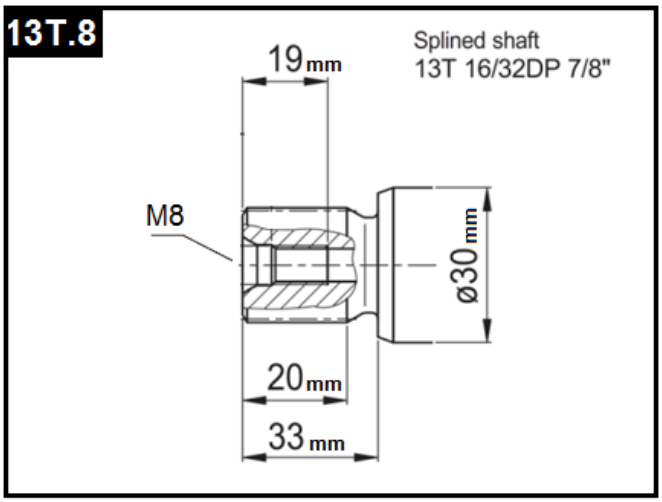
Section 2 – Dimensional Data: 40CC

SAE B - 4 BOLT MOUNTING (**SAE J744**)



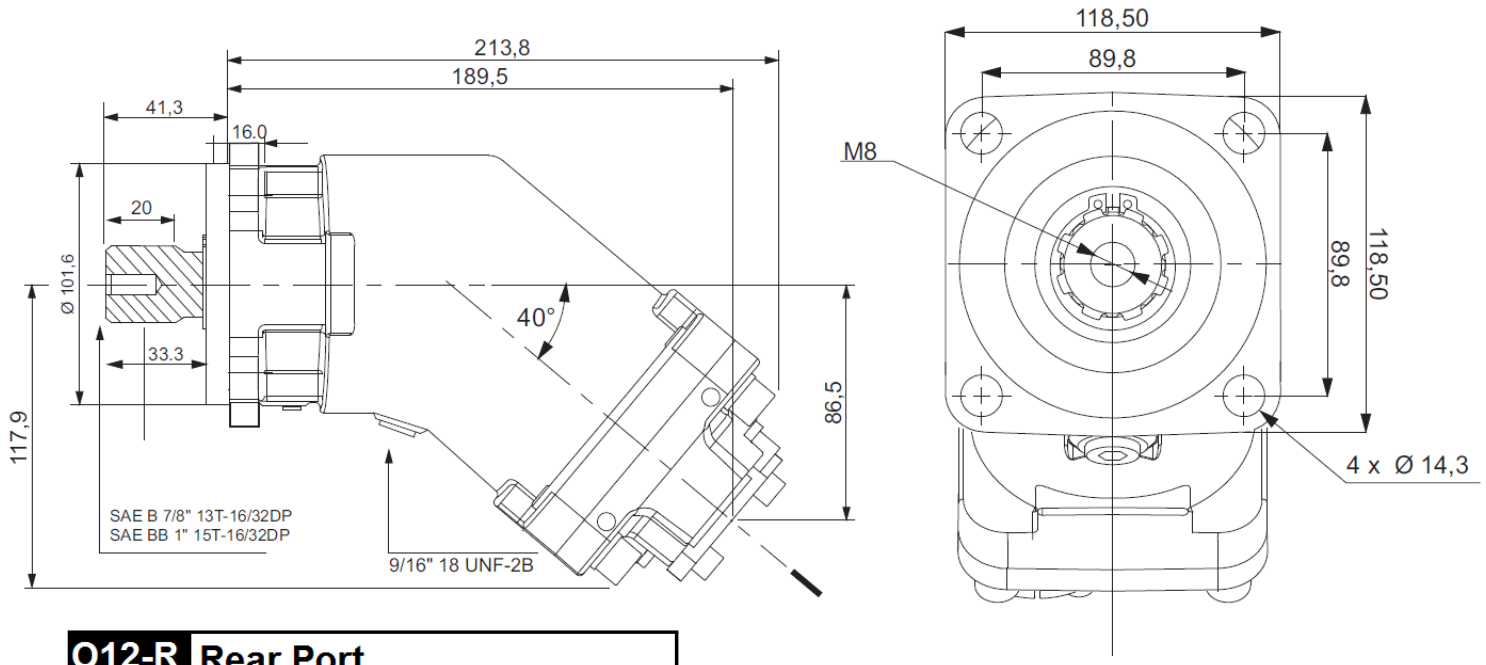




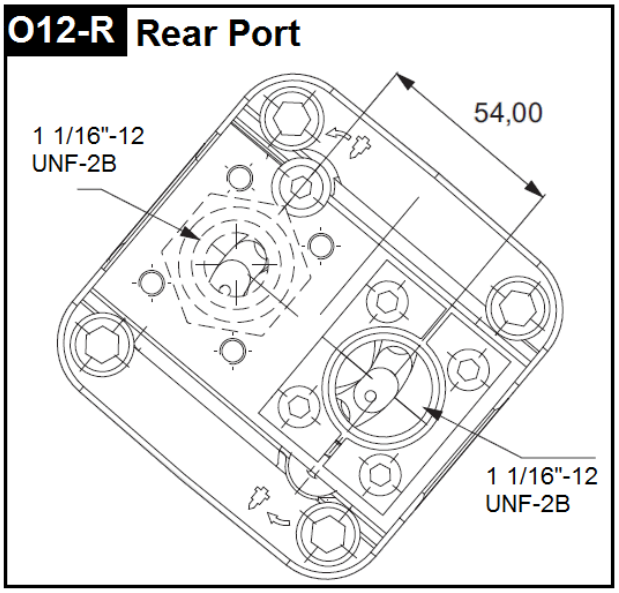


Section 2 – Dimensional Data: 50CC

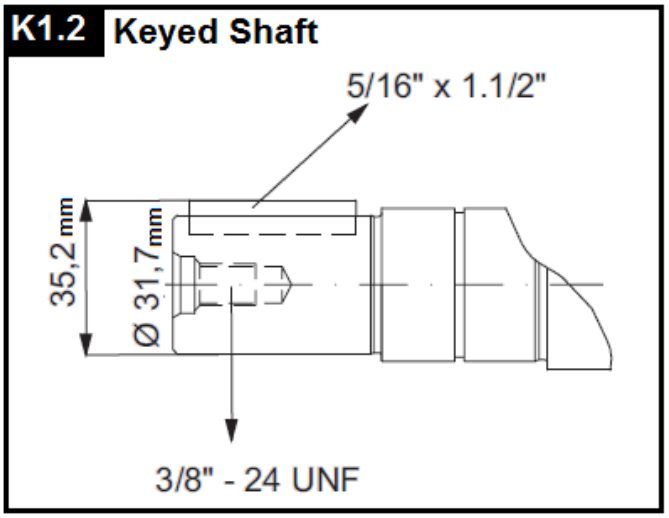
SAE B - 4 BOLT MOUNTING (**SAE J744**)



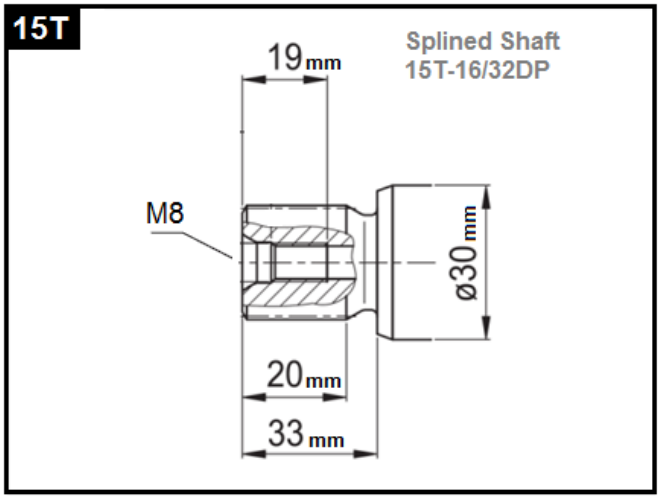
O12-R Rear Port



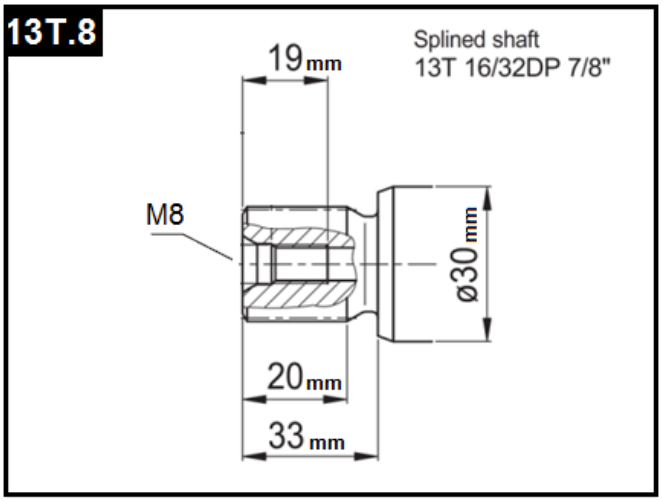
K1.2 Keyed Shaft



15T

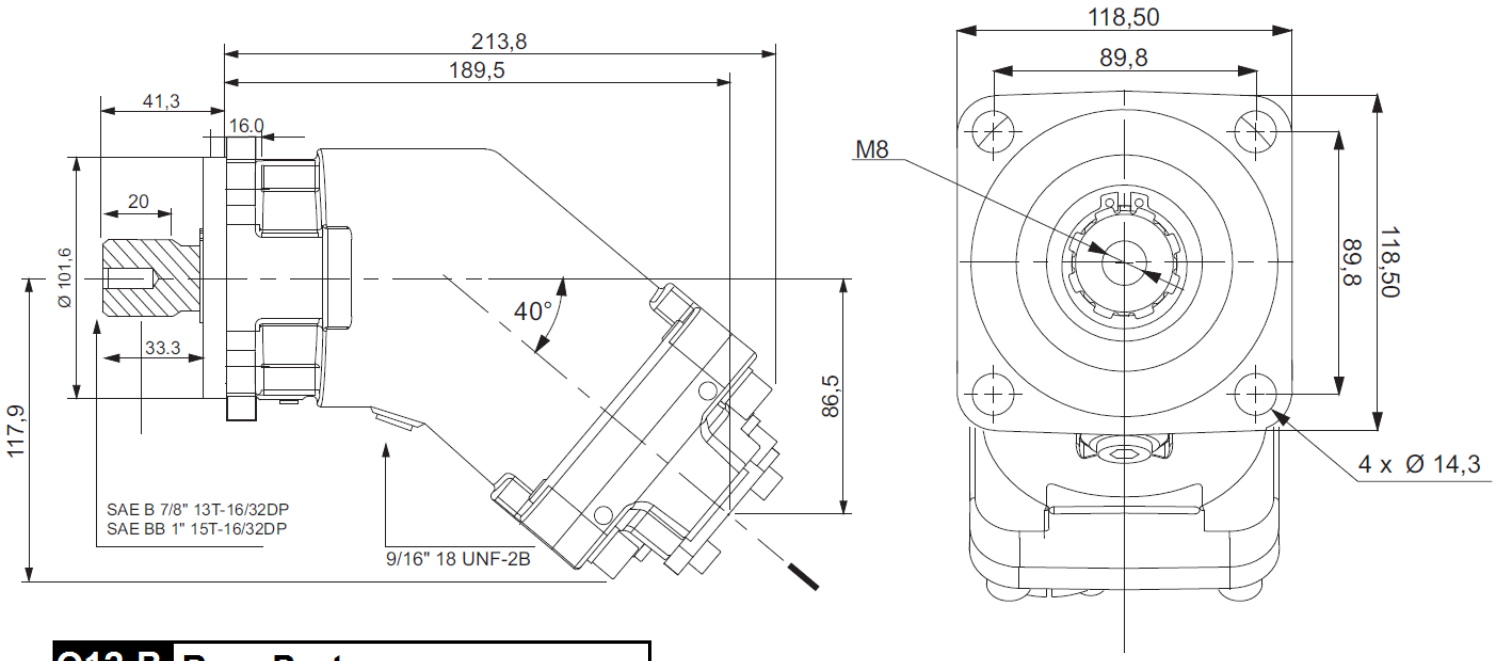


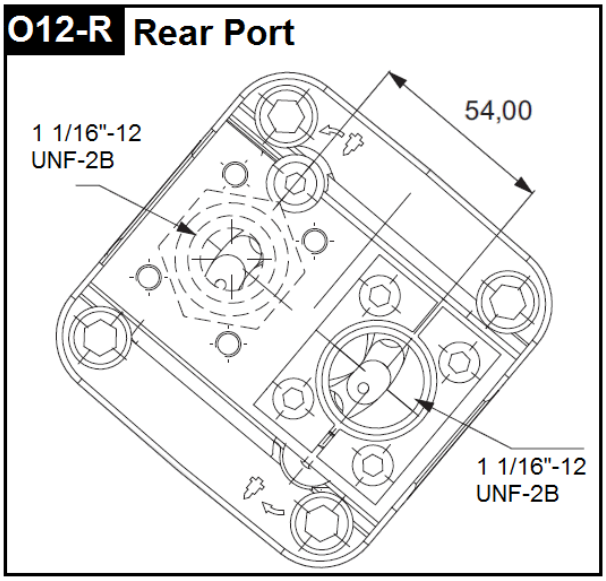
13T.8

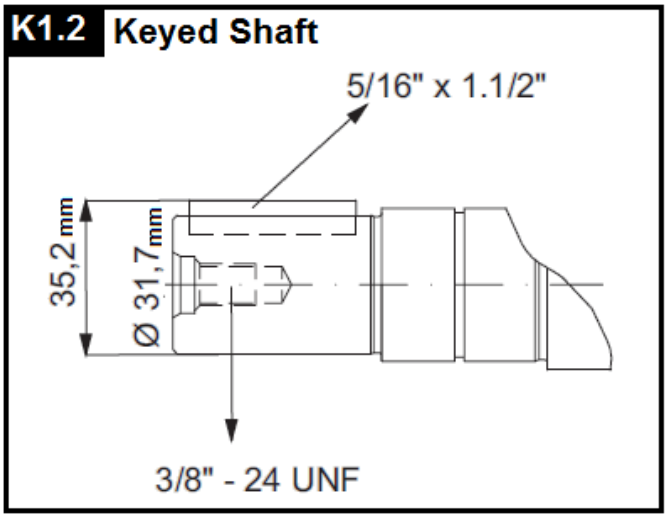


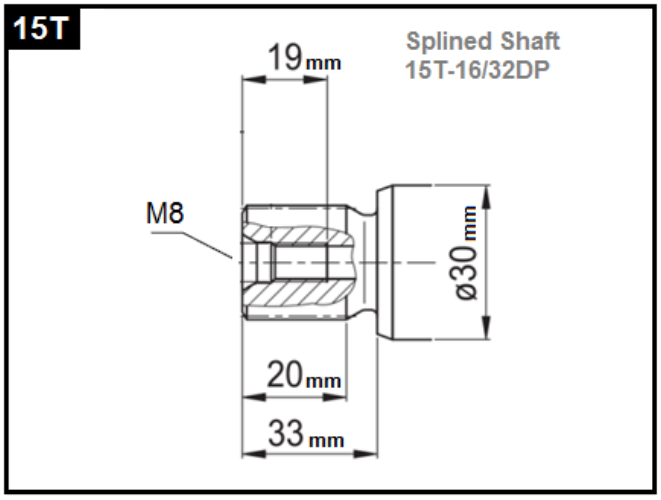
Section 2 – Dimensional Data: 56CC

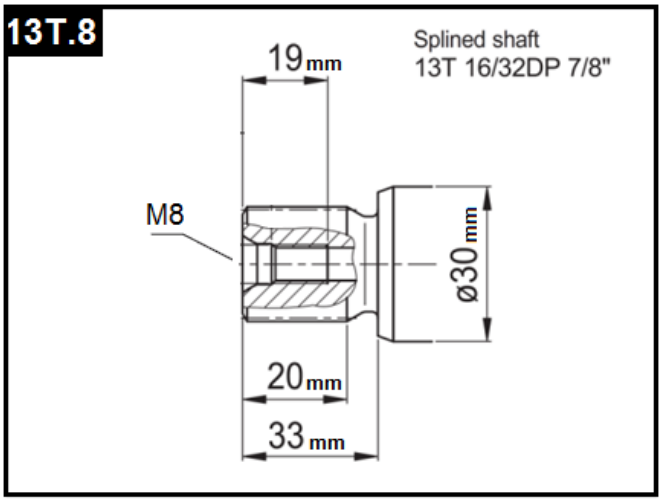
SAE B - 4 BOLT MOUNTING (**SAE J744**)





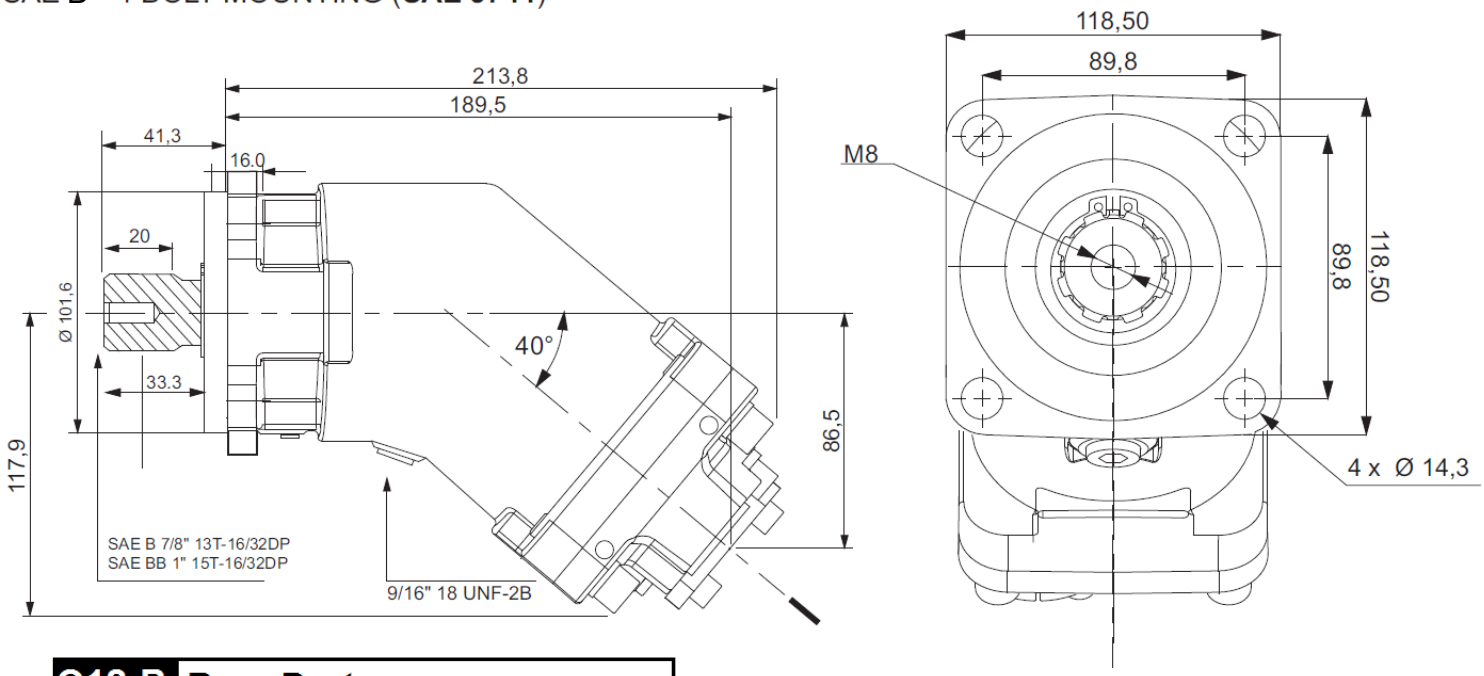




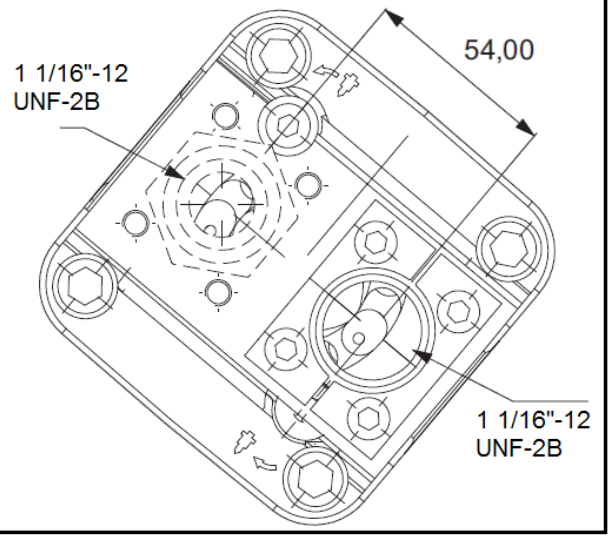


Section 2 – Dimensional Data: 63CC

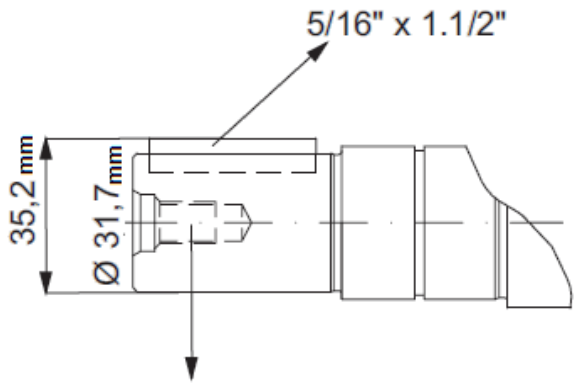
SAE B - 4 BOLT MOUNTING (**SAE J744**)



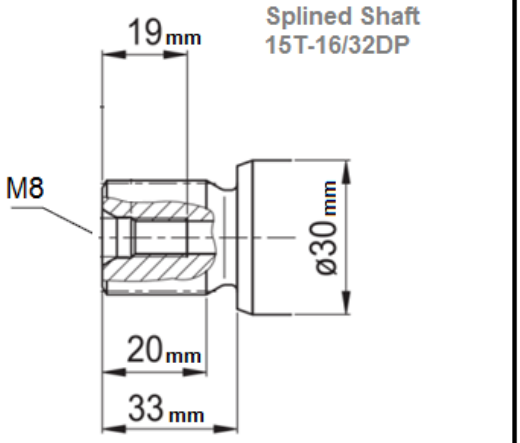
O12-R Rear Port



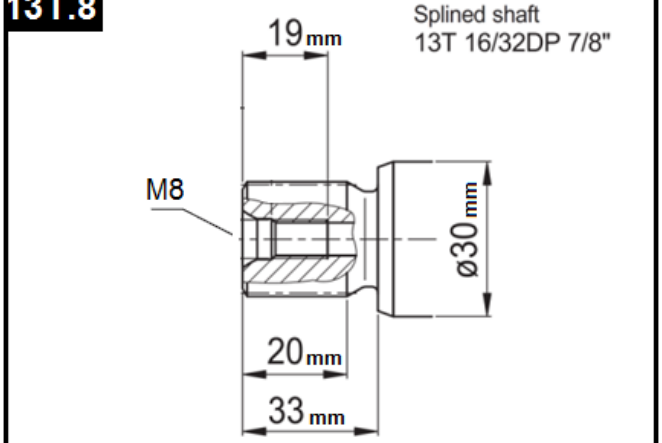
K1.2 Keyed Shaft



15T

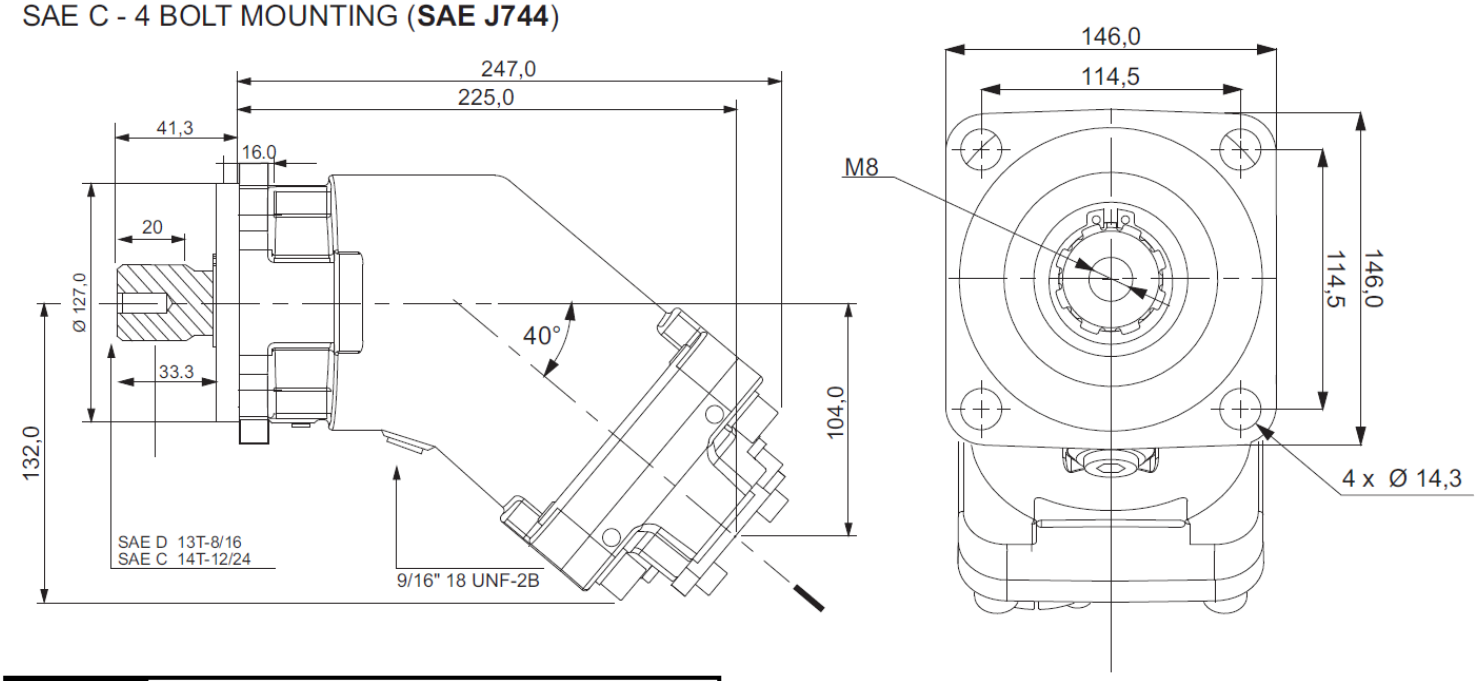


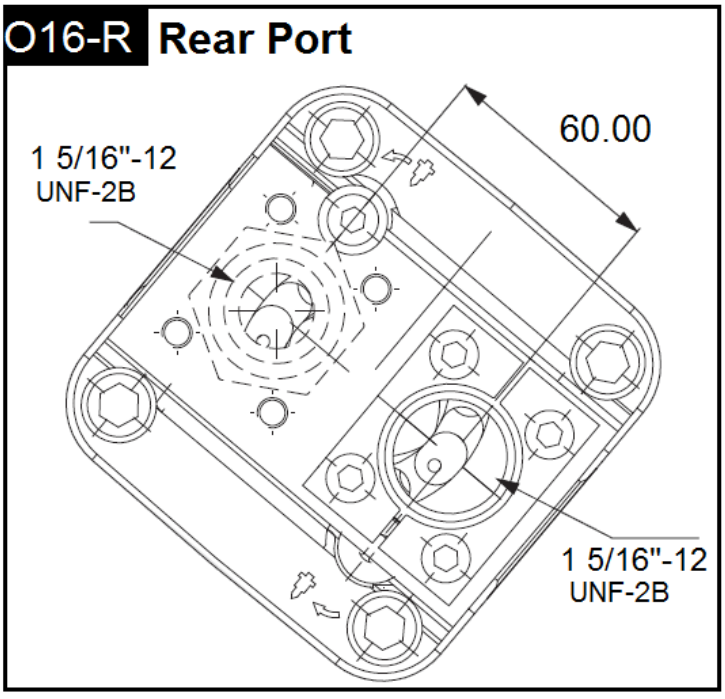
13T.8

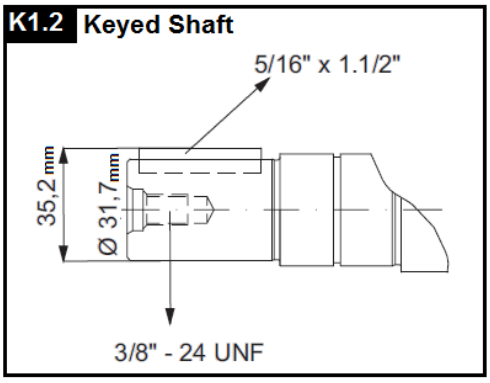


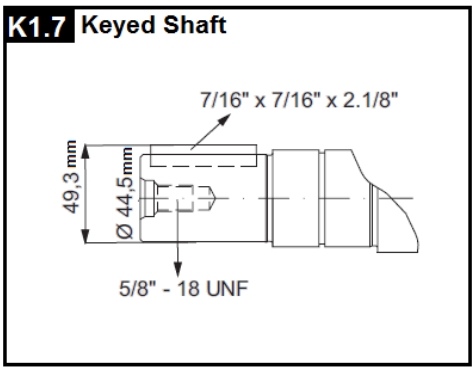
Section 2 – Dimensional Data: 80CC

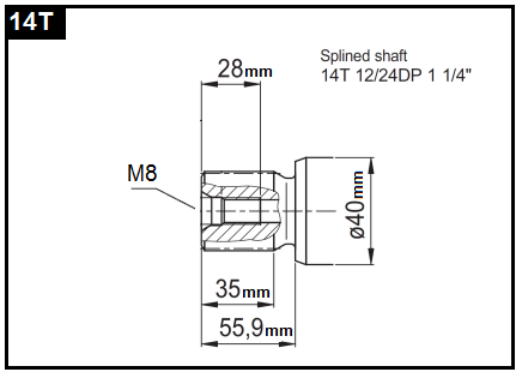
SAE C - 4 BOLT MOUNTING (**SAE J744**)

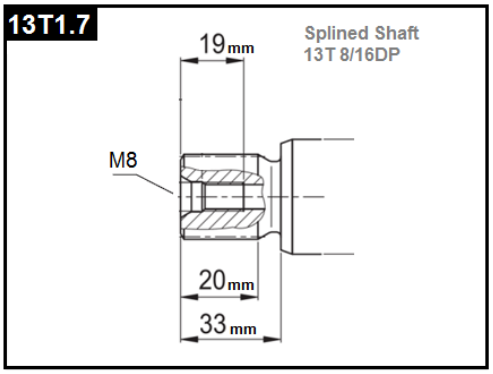






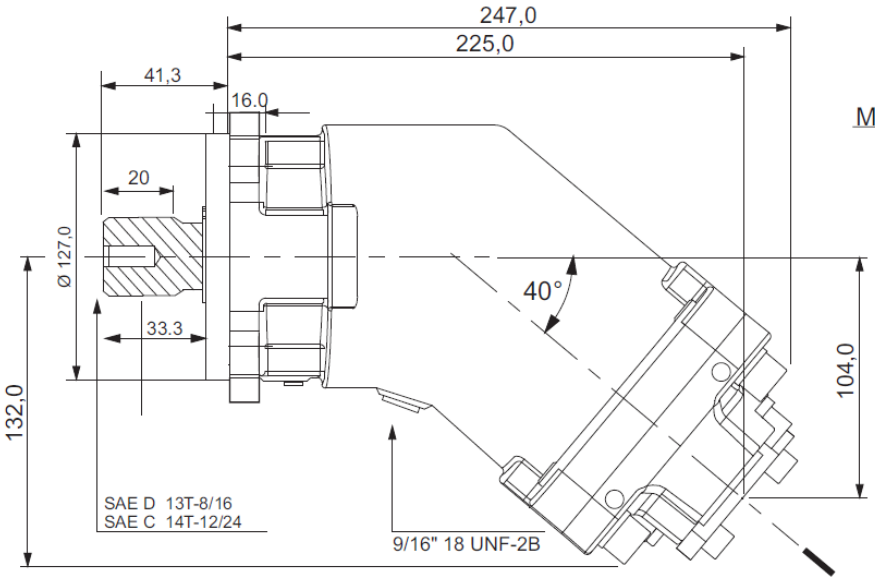


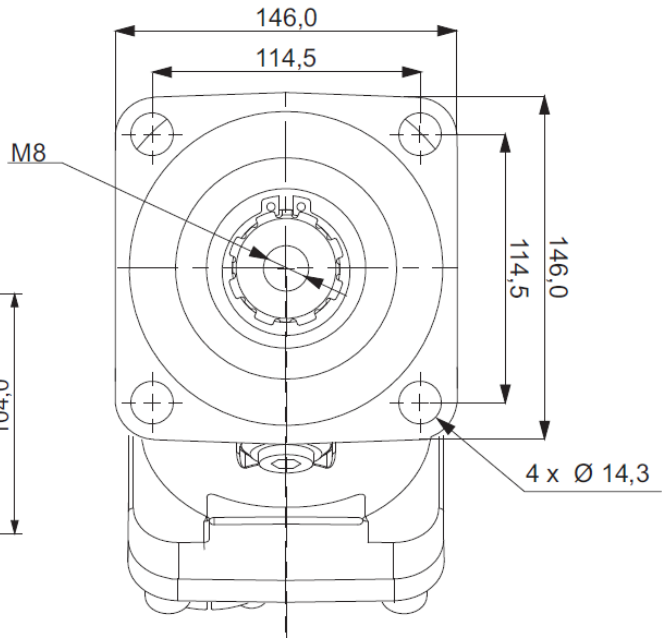




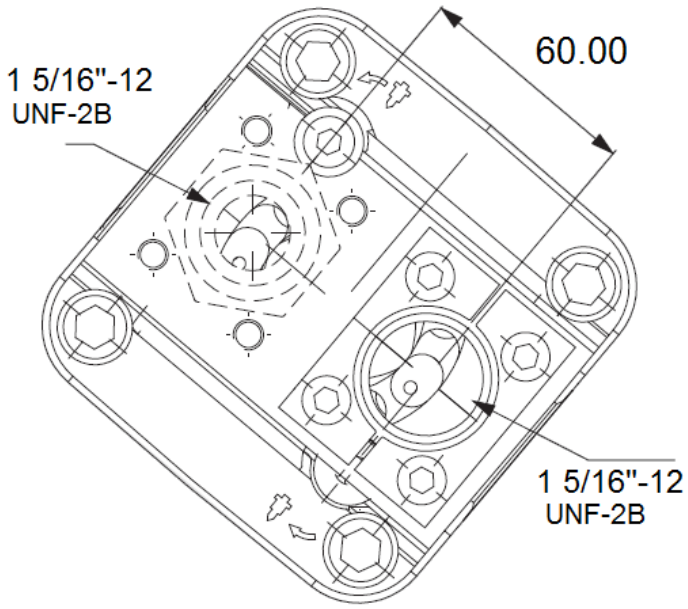
Section 2 – Dimensional Data: 108CC

SAE C - 4 BOLT MOUNTING (**SAE J744**)

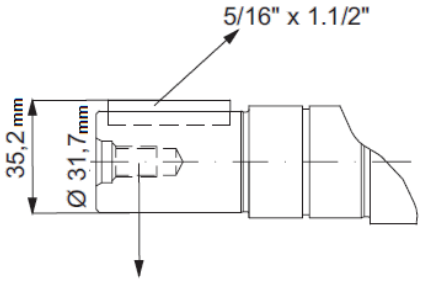




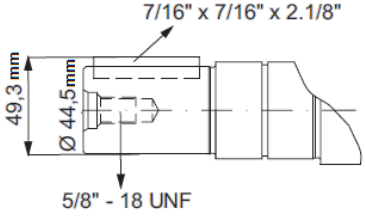
O16-R Rear Port



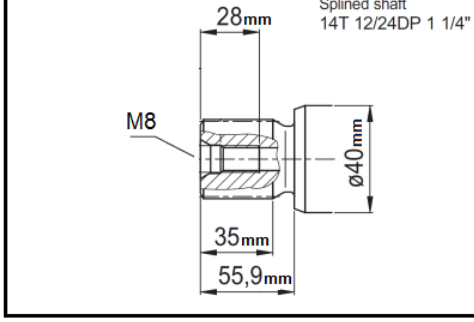
K1.2 Keyed Shaft



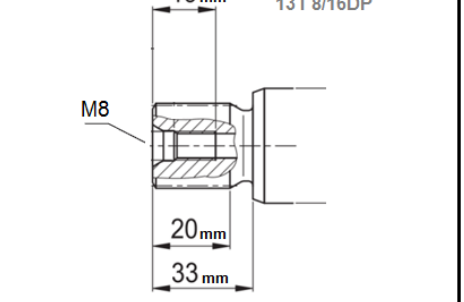
K1.7 Keyed Shaft



14T

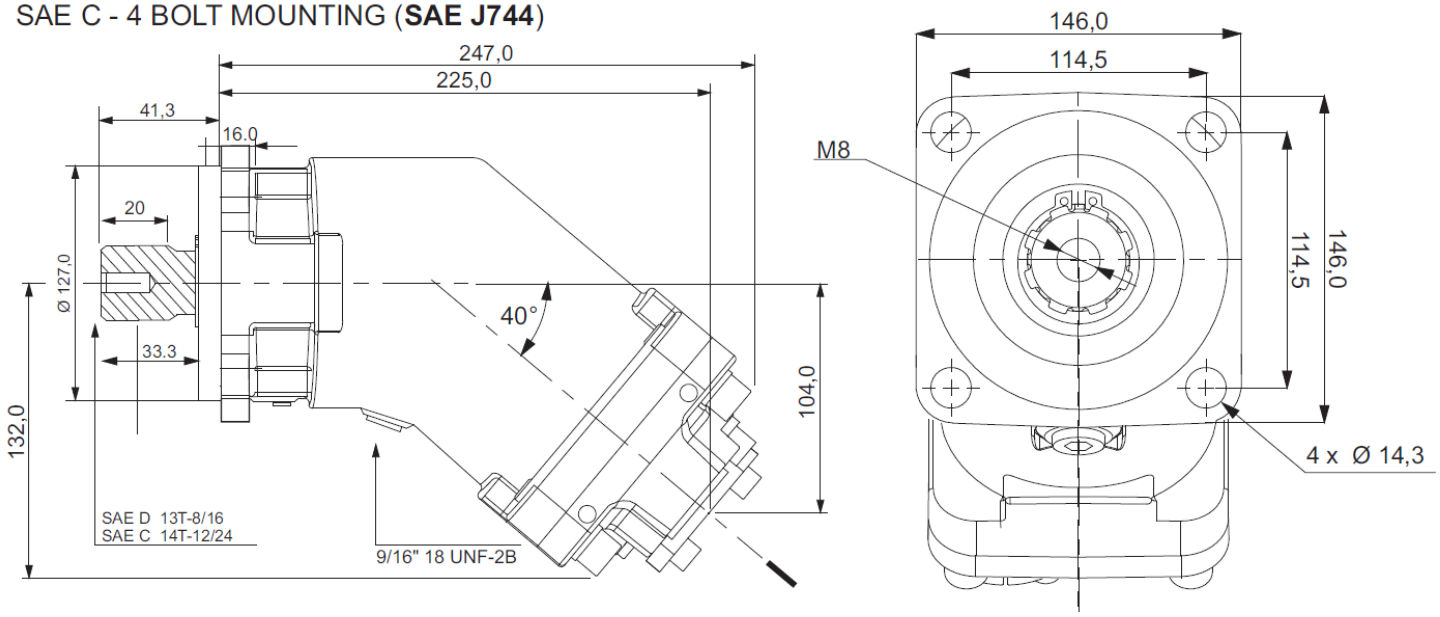


13T1.7

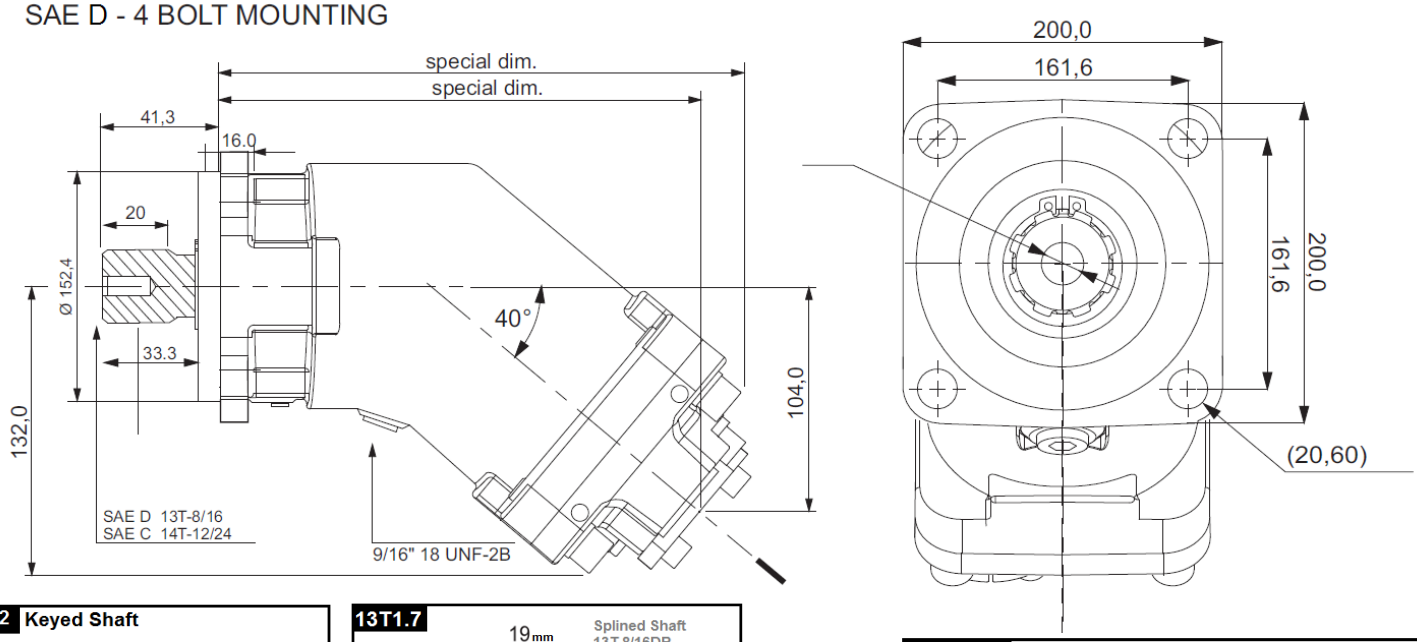


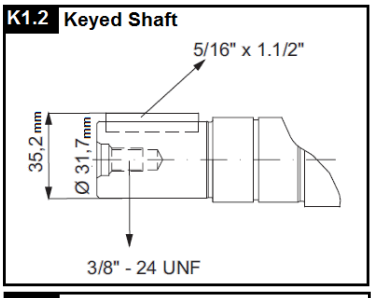
Section 2 – Dimensional Data: 108CC

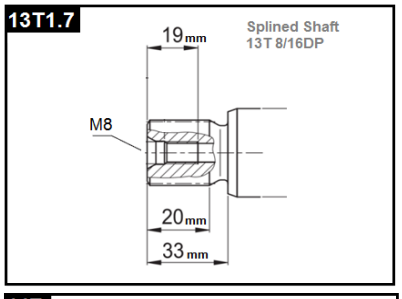
SAE C - 4 BOLT MOUNTING (**SAE J744**)

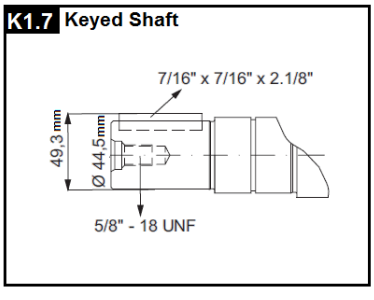


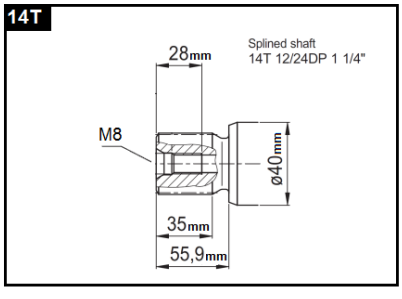
SAE D - 4 BOLT MOUNTING

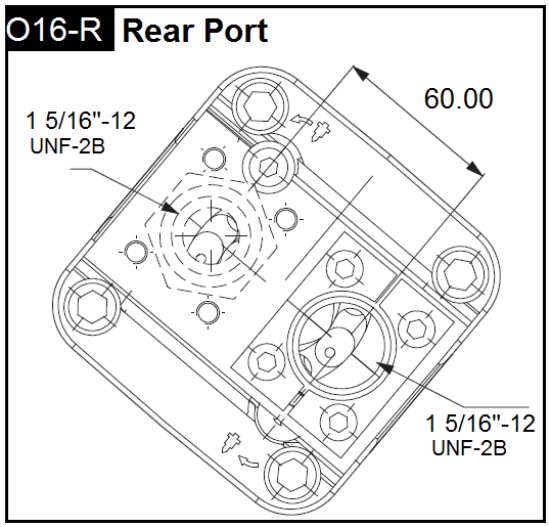






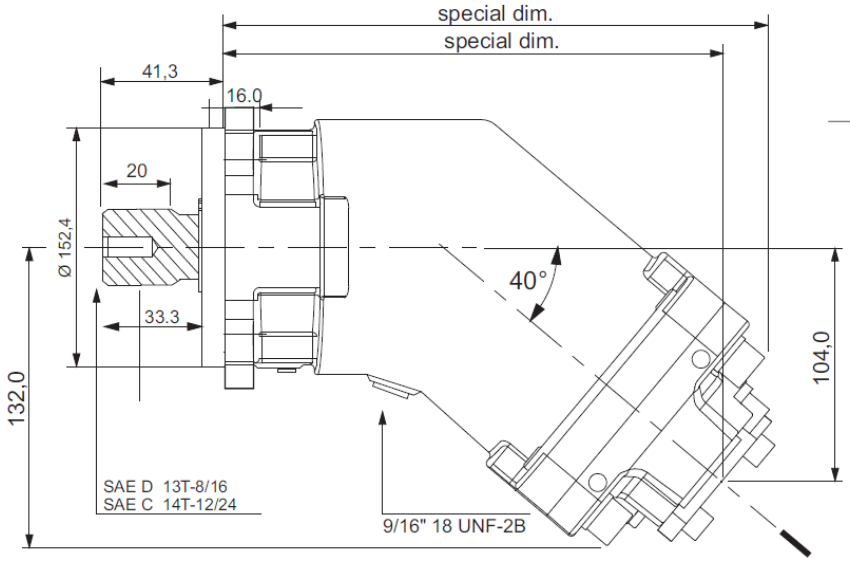


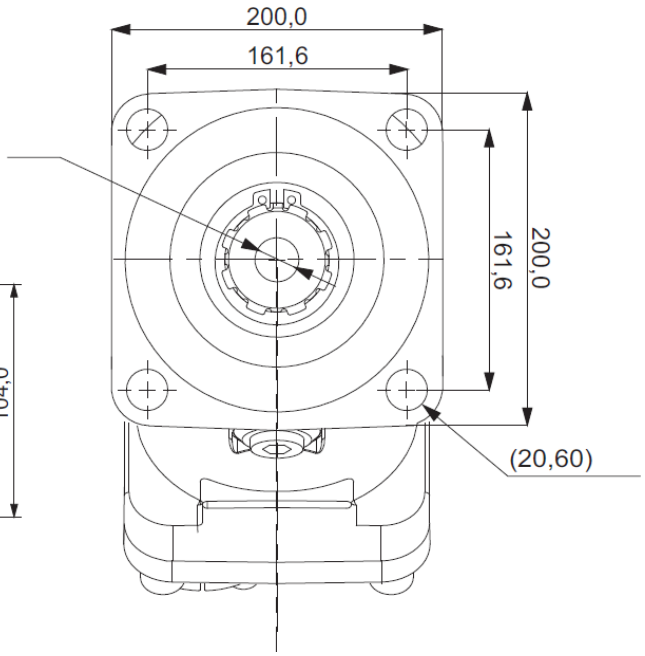




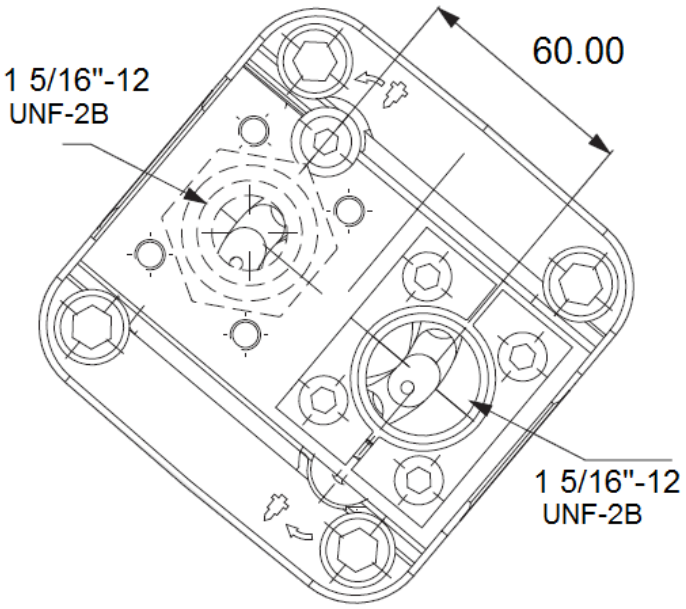
Section 2 – Dimensional Data: 130CC

SAE D - 4 BOLT MOUNTING

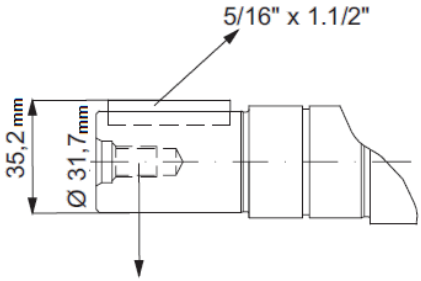




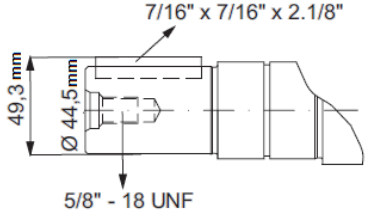
O16-R Rear Port



K1.2 Keyed Shaft



K1.7 Keyed Shaft



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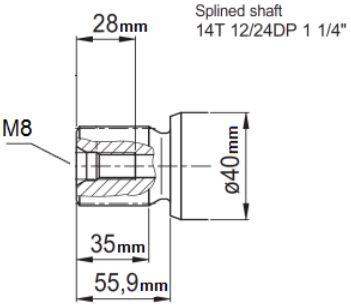

13T1.7