



Gear Pumps with Relief Valve

1.General Description

Equipped with a relief valve and a check valve, the CBS series product is a small displacement, high pressure gear pump whose axial clearance is compensated automatically by the floating side plates. Its STN mounting dimensions and SAE spline shaft enable it to enjoy a good market share in the US and European countries. It is easy to get a "power up, gravity down" circuit by combination of a CBS pump and a 2 way, 2 position release valve.

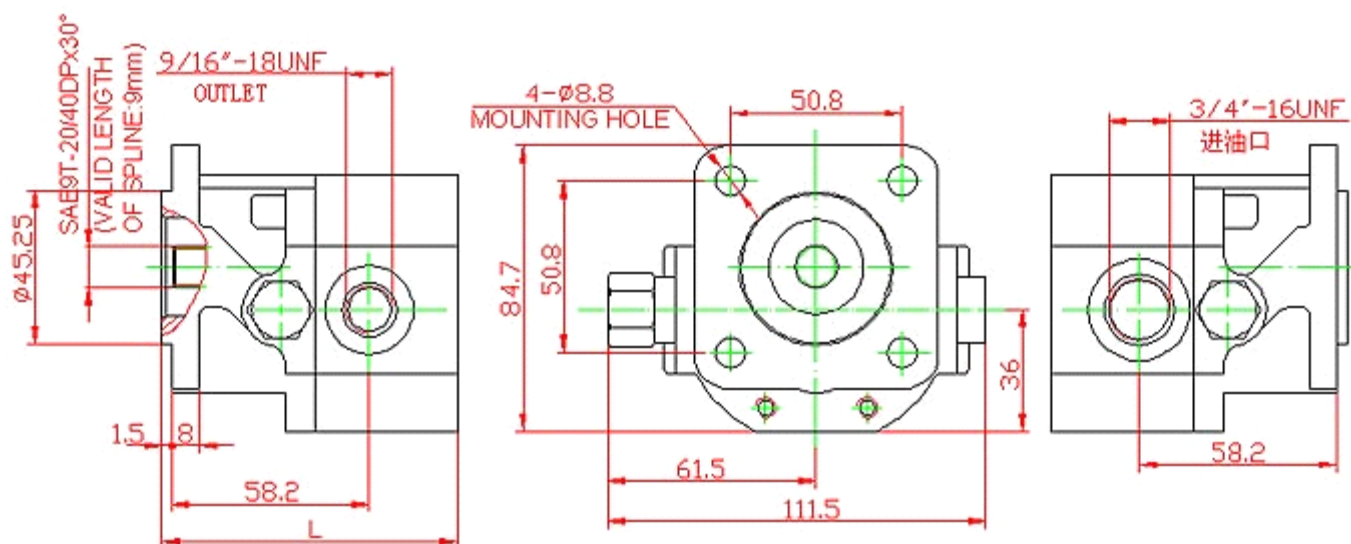


2.Order Code

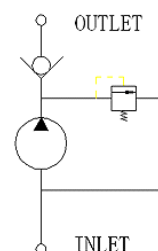
CBS – F * F

Pressure 21Mpa Rotation Omit CW
 Displacement 2.1 – 4 ml/r L CCW

3.CBS-F*F outline



4.Hydraulic Schematic



5.technical data

Model	Displacement mL/r(in ³ /r)	Pressure(Mpa)			Relief Pre. (MPa)	Speed(RPM)		L (MM)	Efficiency
		P1	P2	P3		Rate	Max.		
CBS-F2.1F	2.1(0.13)	12	16	21	21	1750	3450	87.2	≥90%
CBS-F3F	3(0.18)							90.7	
CBS-F3.5F	3.5(0.22)							92.4	
CBS-F4F	4(0.24)							94.7	



Gear Pumps (CB1A series)

1. General Description

The CB1A series gear pump consists of a gear pair supported by two aluminium bearing blocks, a housing, front cover and rear cover. The bearing blocks can automatically compensate the axis clearance. The CB1A pump features simple structure, high mechanical and volumetric efficiency, low noise level as well as high reliability. It is widely used in the hydraulic system of truck, lifter and transport mine machinery, and agriculture machinery, etc.



2. Order Code

CB1A - F * * * *

20MPa Rated pressure

1.3 to 13 mL/r Displacement

Shaft Option

Omit	9T Spline
A	FLat key

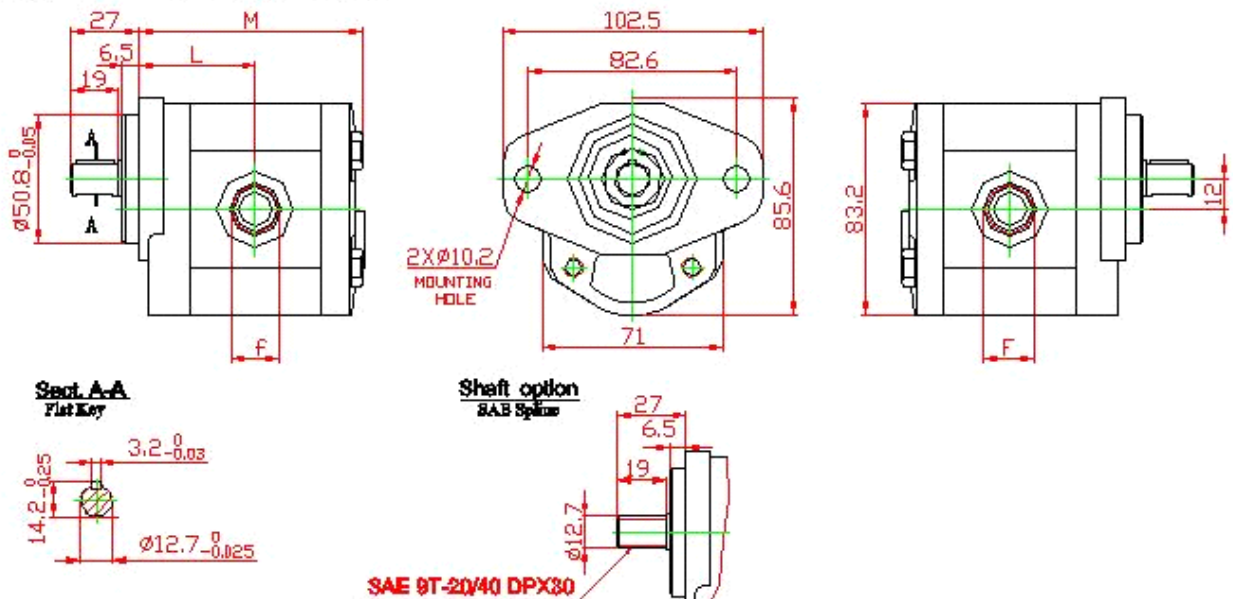
Omit	SAE O-ring boss
A	Gas Threaded Ports(BSPP)
B	Metric Threaded Ports

Port Configurations

Direction

Omit	CW
F	CCW

3. CB1A-F**** Outline Dimension



4. Technical data

Model	Displacement mL/h(in ³ /h)	Pressure(Mpa)			Speed(RPM)		Dimension					
		P1	P2	P3	Rated	Max	L (mm)	M (mm)	F (Inlet)	f (Outlet)		
CB1A-F1.3***	1.36 (0.083)	20	25	28	2000	4000	42	80.3	SAE port	SAE port		
CB1A-F2 ***	2.05 (0.125)						43	82.3	3/4-16UNF	9/16-18UNF		
CB1A-F2.7***	2.74 (0.167)						44	84.3	BSPP port G1/2"	BSPP port G3/8"		
CB1A-F3.2***	3.42 (0.209)						45	86.3				
CB1A-F4 ***	4.10 (0.250)						46	88.3	Metric port M18X1.5	Metric port M14X1.5		
CB1A-F5 ***	5.13 (0.313)						47.5	91.3				
CB1A-F6 ***	6.16 (0.376)	18	20	22		3500	49	94.3	7/8-14UNF G3/4"	3/4-16UNF G1/2"		
CB1A-F7 ***	7.52 (0.459)						51	98.3				
CB1A-F9 ***	9.23 (0.563)						3000	53.5			103.3	
CB1A-F10 ***	10.95 (0.668)						2500	56			108.3	
CB1A-F13 ***	13.68 (0.835)	15	17.5	19.6		2000	60	116.3	M22X1.5	M18X1.5		