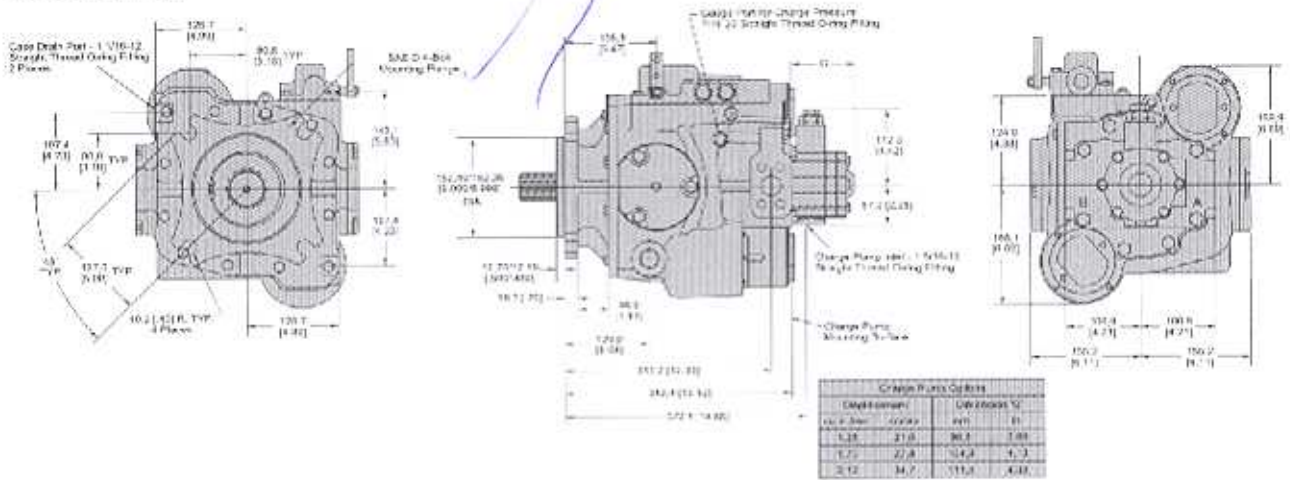
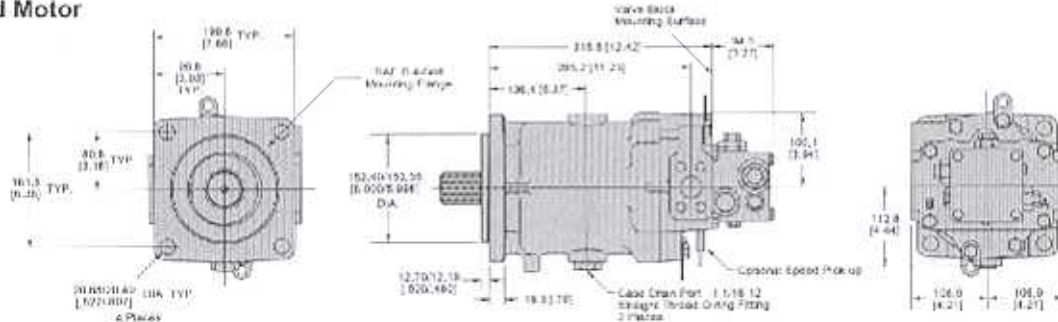


Model 76 Dimensions

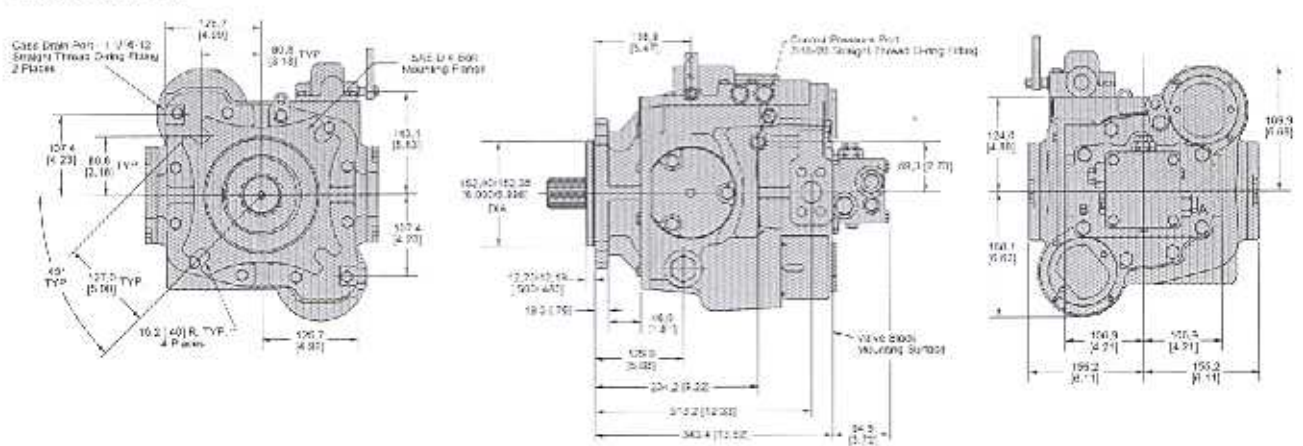
Variable Pump



Fixed Motor



Variable Motor



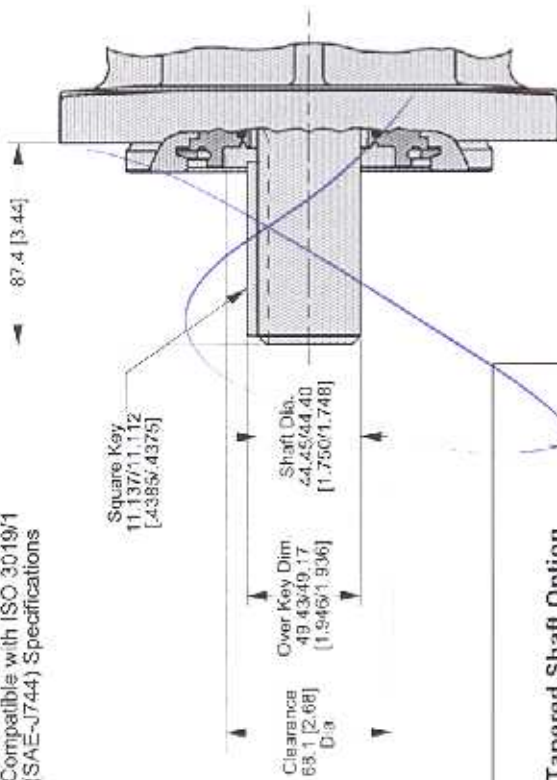
Heavy Duty Component Approximate Weights lb [Kg]

Model	Variable Pump	Fixed Motor	Variable Motor
33	138 [62,6]	83 [37,6]	140 [63,5]
39	138 [62,6]	83 [37,6]	140 [63,5]
46	138 [62,6]	83 [37,6]	140 [63,5]
54	188 [85,3]	106 [48,1]	190 [86,2]
64	188 [85,3]	106 [48,1]	190 [86,2]
76	226 [101,7]	121 [54,5]	228 [102,6]

Model 76 Shaft and Port Dimensions

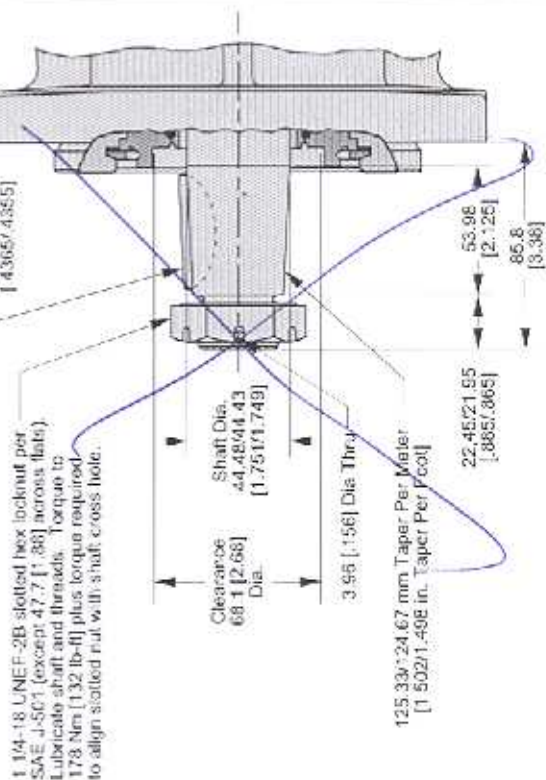
Keyed Shaft Option

Compatible with ISO 3019/1 (SAE-J744) Specifications



Tapered Shaft Option

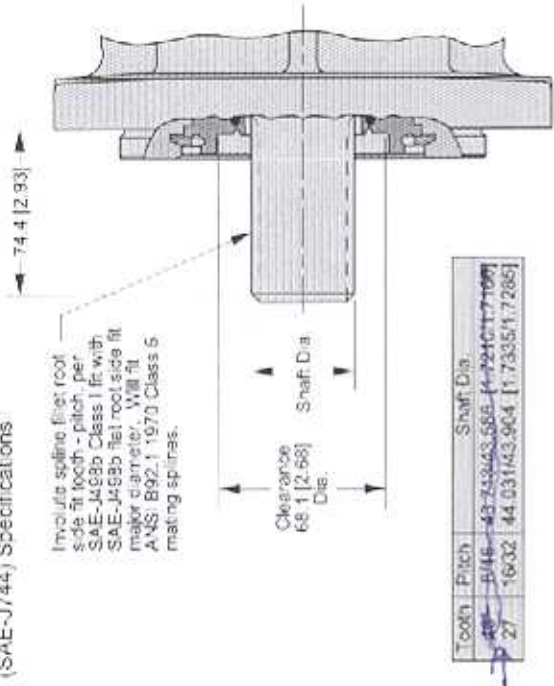
Compatible with ISO 3019/1 (SAE-J744) Specifications



1 1/4-18 UNER-2B slotted hex locknut per SAE J-503 (except 47.7 [1.88] across flats). Lubricate shaft and threads. Torque to 173 Nm [132 lb-ft] plus torque required to align slotted nut with shaft cross hole.

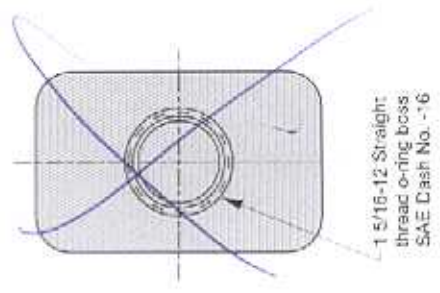
Splined Shaft Options

Compatible with ISO 3019/1 (SAE-J744) Specifications



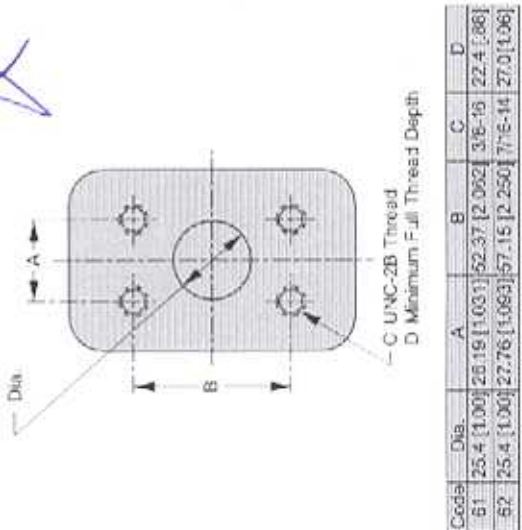
O-ring Port Option

Per SAE-J514 Specifications



Split Flange Port Options

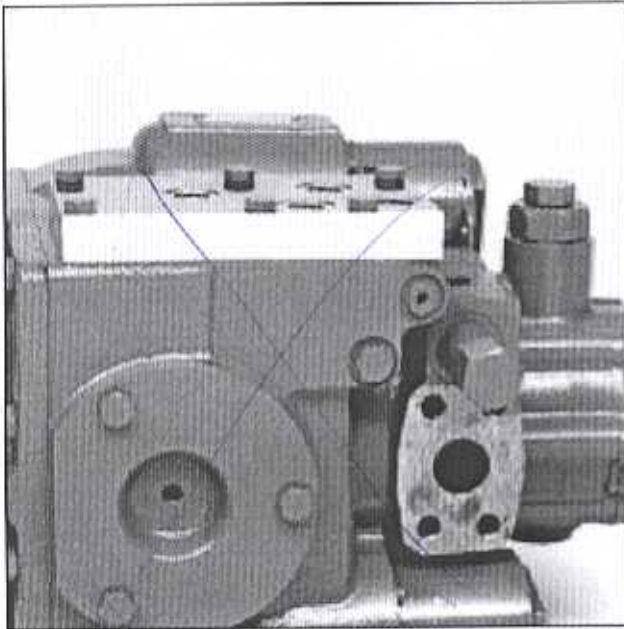
Per SAE-J518 Specifications



All dimensions given in millimeters [inches].

Pump Controls

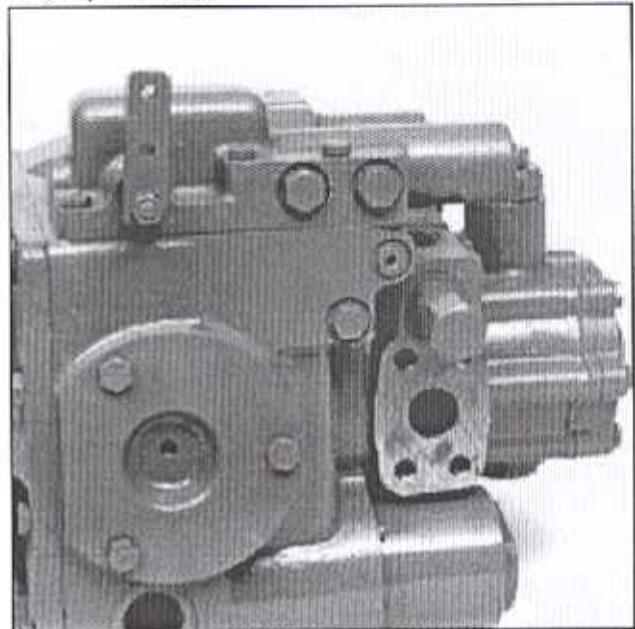
Port Plate



The port plate is the simplest control option available. It fits all Eaton heavy duty pumps and motors.

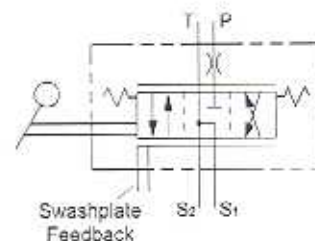
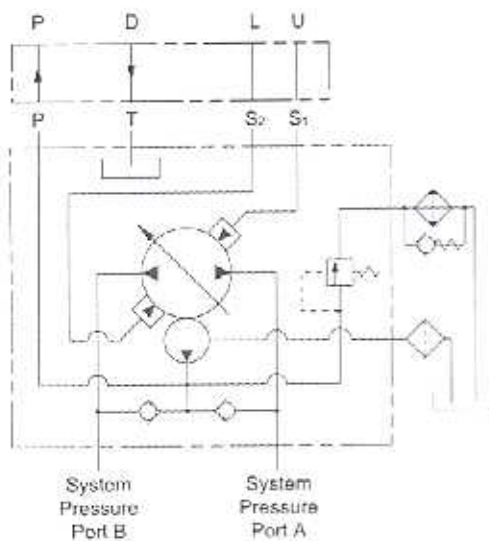
The port plate is commonly used as a slave control that receives commands from other controls in the same system.

Standard Variable Pump Control



The standard variable pump control is the most common type of control used on heavy duty hydrostatic variable displacement pumps. It is normally actuated by direct mechanical linkages or cables.

A wide band neutral zone controller is available. It expands the center lever position where the pump output is zero flow.



Handwritten signature or scribble.

Pump Performance

Pump Performance

Model		33	39	46	54	64	76
Displacement	in ³ /rev	3.32	3.89	4.60	5.44	6.44	7.62
	cm ³ /rev	54.4	63.7	75.3	89.1	105.5	124.8
Maximum Shaft Speed*	RPM @ 18°	4510**	4160	4160	3720	3720	2775
Peak Pressure***	PSI [bar]	6000 [415]	6000 [415]	6000 [415]	6000 [415]	6000 [415]	6000 [415]
Output Flow	GPM @ 3500 PSI	61.5	67.3	79.2	84.1	99.1	87.9
	LPM @ 241 bar	233	255	300	318	375	333
Input Torque	lb-in @ 3500 PSI	2049	2346	2786	3285	3900	4552
	Nm @ 241 bar	232	265	315	371	441	514

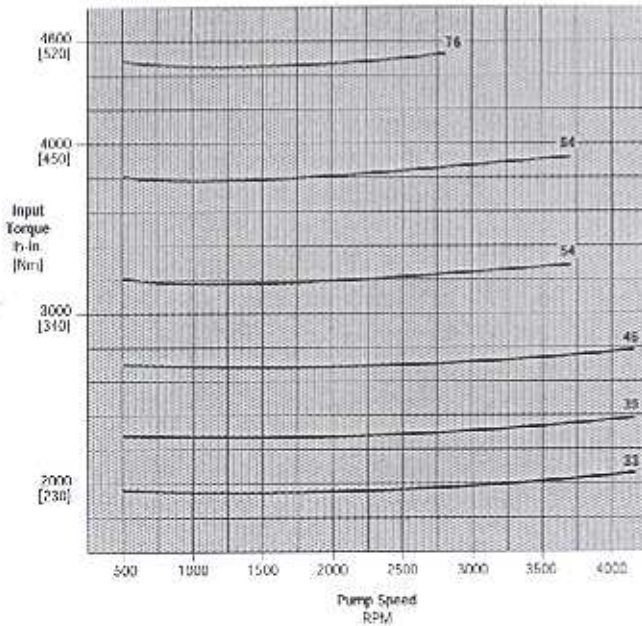
Pump performance calculated at 96% efficiency.

* The maximum pump shaft speed may be limited by the charge pump speed rating.

** The maximum swashplate angle on model 33 pumps is 15.5°.

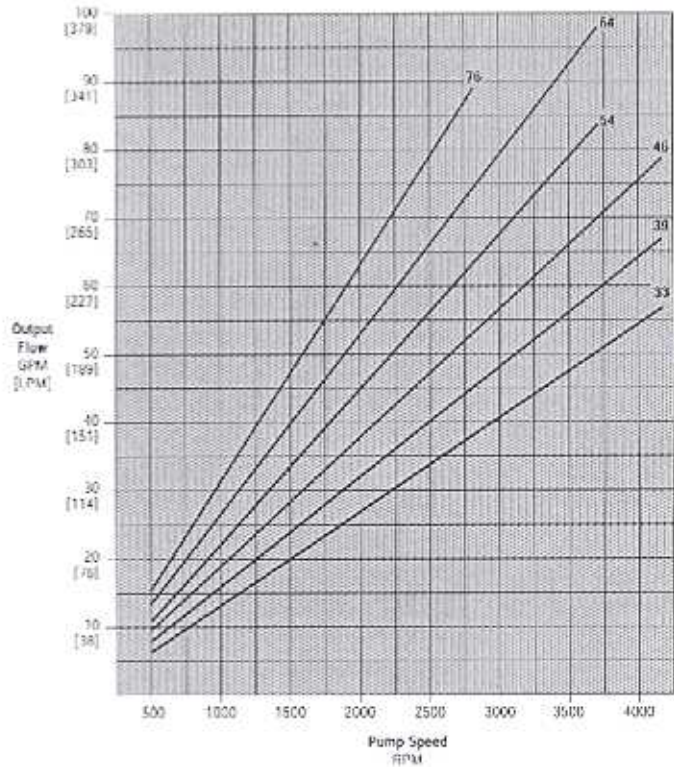
*** Peak pressure should not exceed 1% of operating time.

Input Torque vs Speed



System Pressure 3500 psi [240 bar]
 Charge Pressure 220 psi [15 bar]
 Oil Viscosity 60 SUS
 Temperature 180° F [82° C]

Output Flow vs Speed



Charge Pump Performance

Eaton offers a choice of four charge pump displacements to go with their heavy duty transmission line: .85, 1.28, 1.70, and 2.12 in³/rev [13.9; 21.0; 27.8; 34.7 cm³/rev]. These charge pumps are available with one or more of the following options:

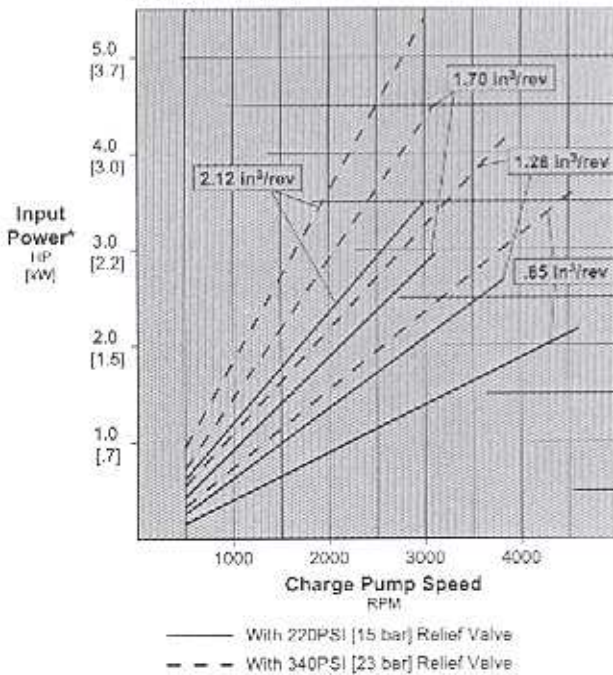
- a pressure sensing port
- remote pressure side filter ports
- a spin-on pressure side filter
- mounting flanges for auxiliary pumps

Charge Pump Performance

Displacement	in ³ /rev	.85	1.28	1.70	2.12
	cm ³ /rev	13,9	21,0	27,9	34,7
Maximum Shaft Speed	RPM	4600	3800	3100	3000
Output Flow @ Maximum Speed*	GPM	18.9	21.0	22.8	27.5
	LPM	64,0	79,5	86,3	104,2
Input Power @ 220 PSI [15 bar] and Maximum Speed*	HP	2.17	2.70	2.93	3.54
	kW	1.62	2.01	2.18	2.64

*Theoretical Values

Charge Pump Power vs Speed



Charge Pump Flow vs Speed

