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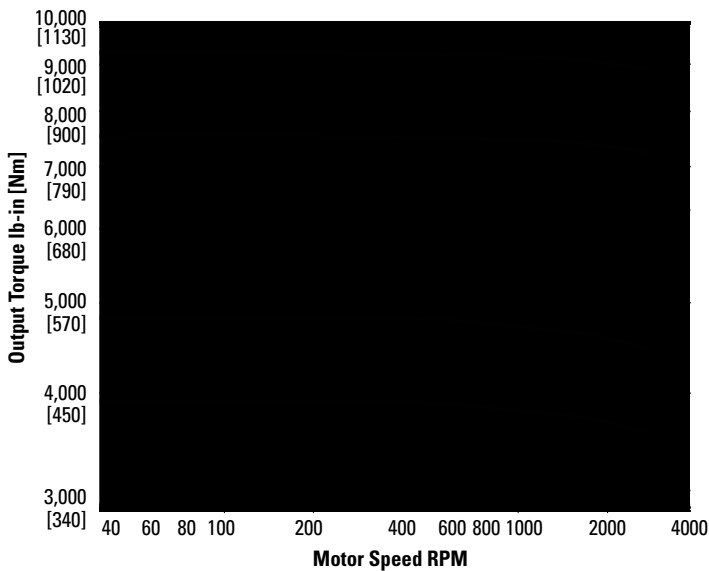
-
- • • • •
- • • • •
- • €
- , *f*
-
- ”
- ... - † ‡
- ^
- ^
- € †
- •
- %_{oo}
-
- f*
- ”
- ^
-
-
- f*

Model		130	160
Displacement	cc/rev (in ³ /rev)	130 (7.93)	160 (9.76)
† †	•		
-•	š ^f)	Ž	Ž„•
œ • ž	◁ Ÿ i	• Ÿ Ž• i	• Ÿ Ž• i
•”• ž	◁ Ÿ i	• Ÿ Ž• i	• Ÿ Ž• i
• • •	◁ Ÿ i	Ÿ• i	Ÿ• i
• •	◁ Ÿ i	ˆ• Ÿ Ž i	ˆ• Ÿ Ž i
€ • œ f„		ˆœ„•	
	Ÿ ^ i	Ÿœ„ i	Ÿ„ i
‰ †	•	fŽ•	fŽ•
)	ˆf)	ˆf)

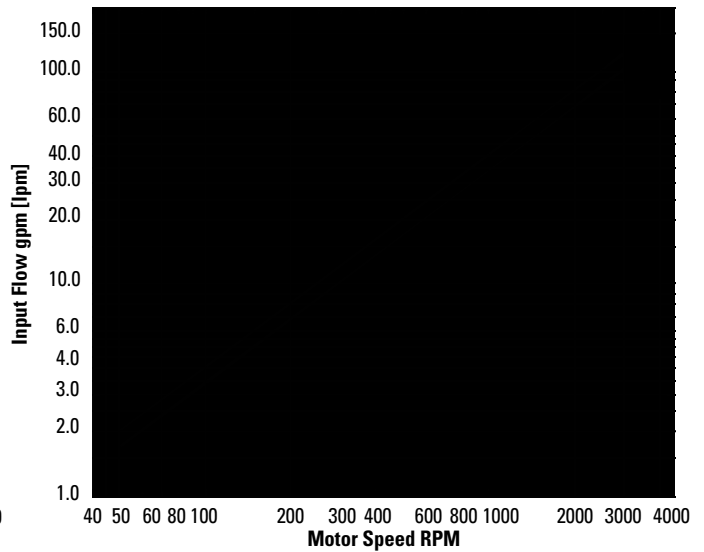
ž œ • ϕ † - • †
 Ÿ • • ◁ ◁ † • i
 ž •”• ϕ † - • -
 • Ÿ £ ^ i
 - • † - - † - ◁ † • † - -•
 - † • •

Model Code Number		130	160
Displacement	cc/rev (in ³ /rev)	130 (7.93)	160 (9.76)
-•		Ž ˆf	Ž„• ˆf
• • TM Δ•	◁ Ÿ i	Ž„ Ÿ•Ž• i Ž„ Ÿ•Ž• i	Ž• Ÿ• i Ž• Ÿ• i
▣ † ... • TM ...	-	ˆœ ˆfœ	ˆœ ˆœ„
▣ † ... • TM ...ž	-	œ •œ•	ˆœ •fœ•

Output Torque vs Speed



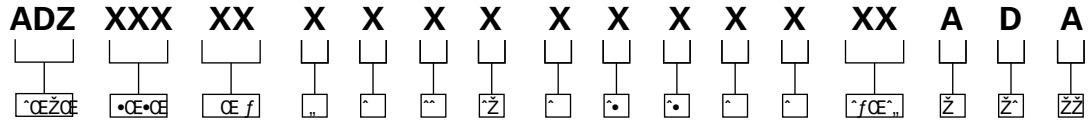
Input Flow vs Speed



Note: € † -
 ◁ •

System Pressure	3500 psi (240 bar)
Charge Pressure	400 psi
Oil Viscosity	60 SUS
Temperature	180°F (82°C)

- • ' † ŽŽ † † - †
 • • • • -
 ' - - • • ŽŽ † • -
 †



CEŽCE Product

AEA TM

CE•CE Displacement

130 TM CE —
 Ÿ „ — i ^f>
 ' - †

160 TM CE —
 Ÿ „ — i ^f>
 ' - †

CE f Input Shaft

01 TM Ÿ^ • i † - i - Ÿ • • i
 Ÿ^ i • §

02 TM Ÿ^ • i † - i - Ÿ • • i
 Ÿ^ i • §

13 TM - f — • -

27 TM Ž - ^ — Ž • -

Main Ports

A TM ^ CE • Ÿ^ Ž • i • • „
 • † CE - † -
 Ž i

B TM ^ CE • Ÿ^ Ž • i • • „
 • † CE - † -
 Ž i ' - Ž ^ •
 - -

End Cover and Loop Flushing Valve

A TM CE † • - †
 ' - - † “

B TM CE † • - †
 ' - “

C TM CE † • - †
 ' - † “

D TM CE † • - †
 ' - † “

“ †
E TM/oo CE †
 • - † ' -
 - † “ †

“ †
F TM/oo CE †
 • - † ' -
 - † “ †

“ †
G TM/oo CE †
 • - † ' -
 - † “ †

“ †
H TM/oo CE †
 • - † ' -
 - † “ †

Charge Pressure Relief Valve

0 TMce •

1 TM

2 TM € • - †
 Ÿ •
 † “ i

Charge Pressure Relief Valve Setting

A TMce

B TM ^ CE † Ÿ^ • • Ž i

C TM Ž CE † Ÿ^ f • • Ž i

D TM CE f † Ÿ Ž • • Ž i

E TM ^ CE Ž † Ÿ Ž Ž • • Ž i

F TM CE † Ÿ Ž • • Ž i

G TM CE „ † Ÿ Ž • • Ž i

H TM „ CE † Ÿ Ž f • • Ž i

J TM Ž CE † Ÿ • • Ž i

K TM Ž Ž CE ^ † Ÿ Ž • • Ž i

L TM Ž Ž CE • † Ÿ Ž • • Ž i

M TM Ž CE • † Ÿ • • Ž i

N TM Ž • CE ^ † Ÿ • • Ž i

P TM Ž • CE f † Ÿ • • Ž i

R TM Ž • CE • † Ÿ • • Ž i

S TM Ž CE Ž † Ÿ f • • Ž i

T TM Ž CE „ † Ÿ „ • • Ž i

U TM Ž f CE † Ÿ • ^ • • Ž i

V TM CE † Ÿ • • • • Ž i

High Pressure Relief Valve – Port A

0 TMce

1 TM ' - -

2 TM/oo • ' - -

High Pressure Relief Valve Setting – Port A

A TMce

B TM † Ÿ^ • • Ž i

C TM f † Ÿ Ž • • Ž i

D TM Ž † Ÿ Ž • • Ž i

E TM Ž † Ÿ • • Ž i

F TM Ž ^ † Ÿ • • Ž i

G TM Ž † Ÿ • • Ž i

H TM ^ † Ÿ • • • • Ž i

J TM • • † Ÿ • • • • Ž i

K TM „ † Ÿ • • • • Ž i

L TM • • † Ÿ • • • • Ž i

M TM ^ † Ÿ Ž • • • • Ž i

N TM • f † Ÿ • • • • Ž i

P TM † Ÿ • • • • Ž i

High Pressure Relief Valve – Port B

0 TMce

1 TM ' - -

2 TM/oo • ' - -

High Pressure Relief Valve Setting – Port B

A TMce

B TM † Ÿ^ • • Ž i

C TM f † Ÿ Ž • • Ž i

D TM Ž † Ÿ Ž • • Ž i

E TM Ž † Ÿ • • Ž i

F TM Ž ^ † Ÿ • • Ž i

G TM Ž † Ÿ • • Ž i

H TM ^ † Ÿ • • • • Ž i

J TM • • † Ÿ • • • • Ž i

K TM „ † Ÿ • • • • Ž i

L TM • • † Ÿ • • • • Ž i

M TM ^ † Ÿ Ž • • • • Ž i

N TM • f † Ÿ • • • • Ž i

P TM † Ÿ • • • • Ž i

Speed Sensor

0 TMce

1 TM † ' - -

2 TM - Ÿ • f “ f
 Ÿ ce - i † †

3 TM ' ' - -
 Ÿ • Ž •
 †

4 TM † i ' -
 • ' - -
 Ÿ ' Ž

5 TM - Ÿ • - “ Ž
 Ÿ ce - i † † Ÿ •
 i

Special Features

00 ce • †

01 †

02 ce †

Paint and Packaging

A TM †

Identification on Unit

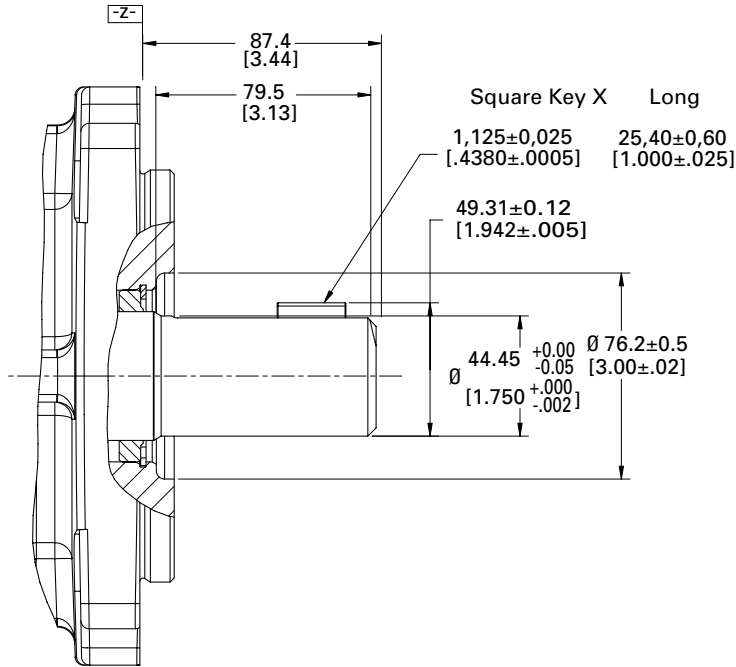
0 TM

Design Code

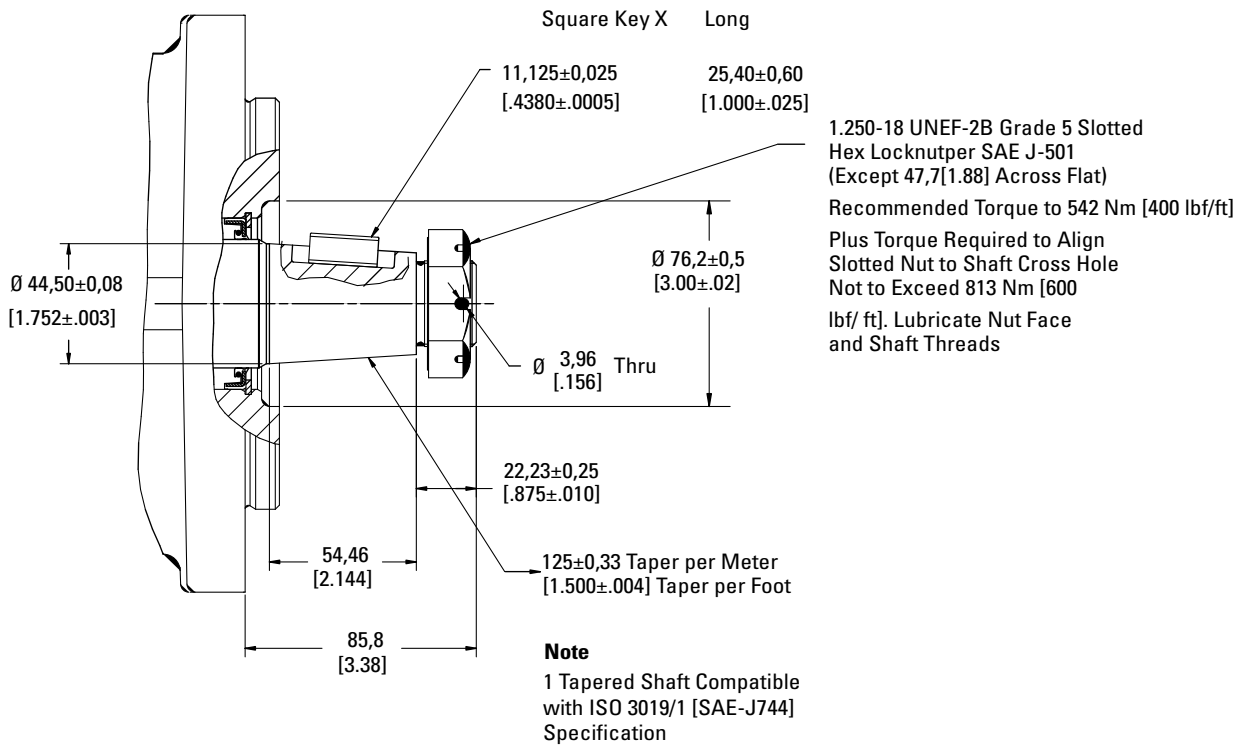
A TM

Model Code Position 7, 8

• i
 • i
 • i
 • i

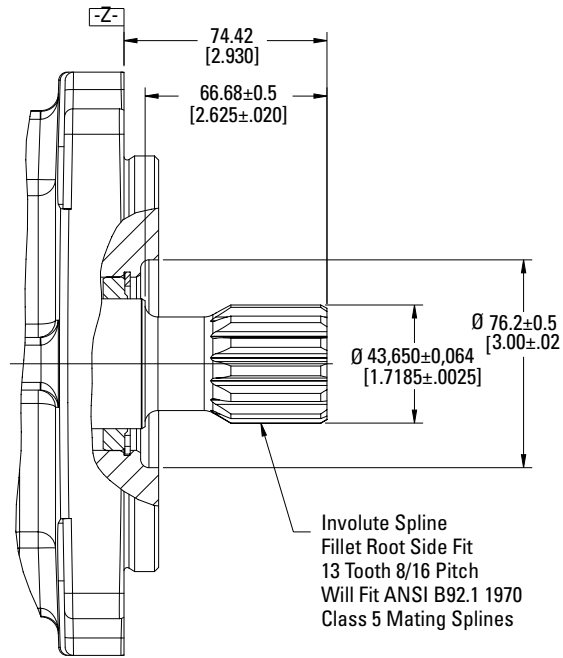


• i
 • i
 • i
 • i

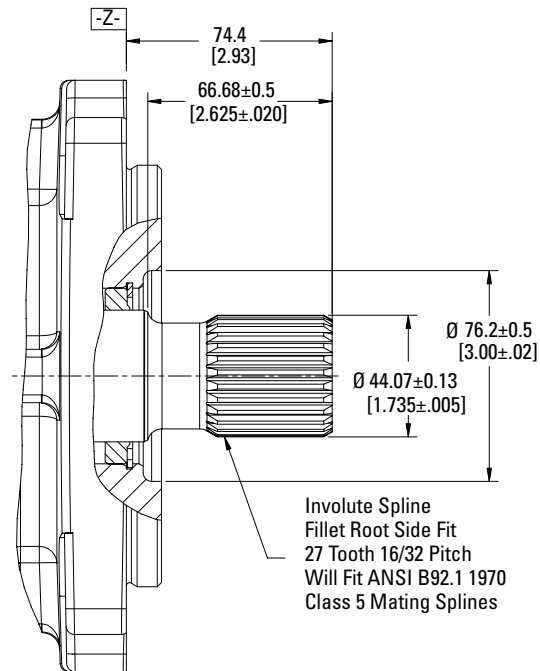


Model Code Position 7, 8

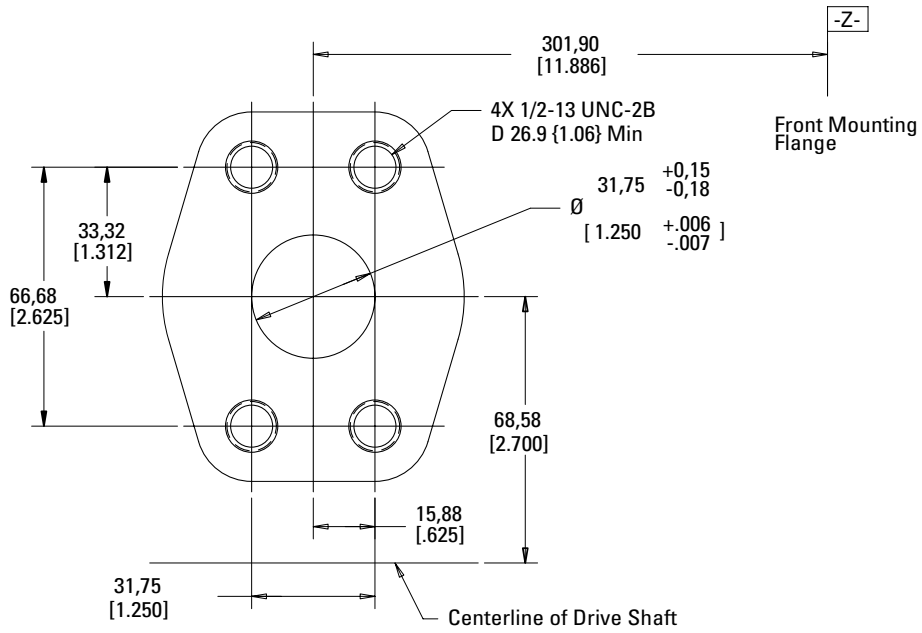
• - f - • -
 • - Z - œ -
 œ - "œ"



Ž - ^ - Ž • -
 • • œ
 œ • "œ"

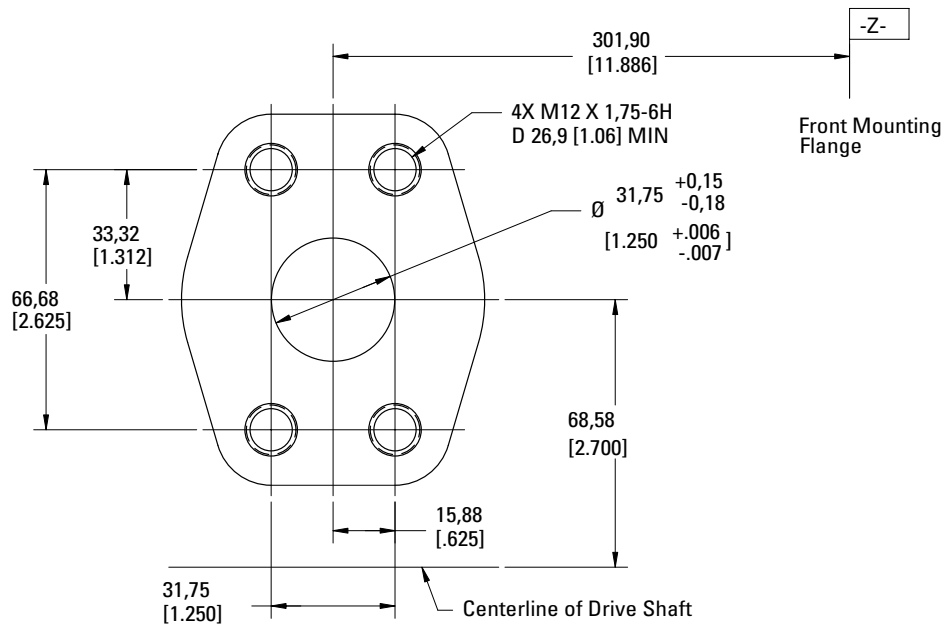


• • • • •
 • • • • •
 • • • • •
 • • • • •



1.25 SAE 4-Bolt Split Flange Port
 High Pressure Series (Code 62)

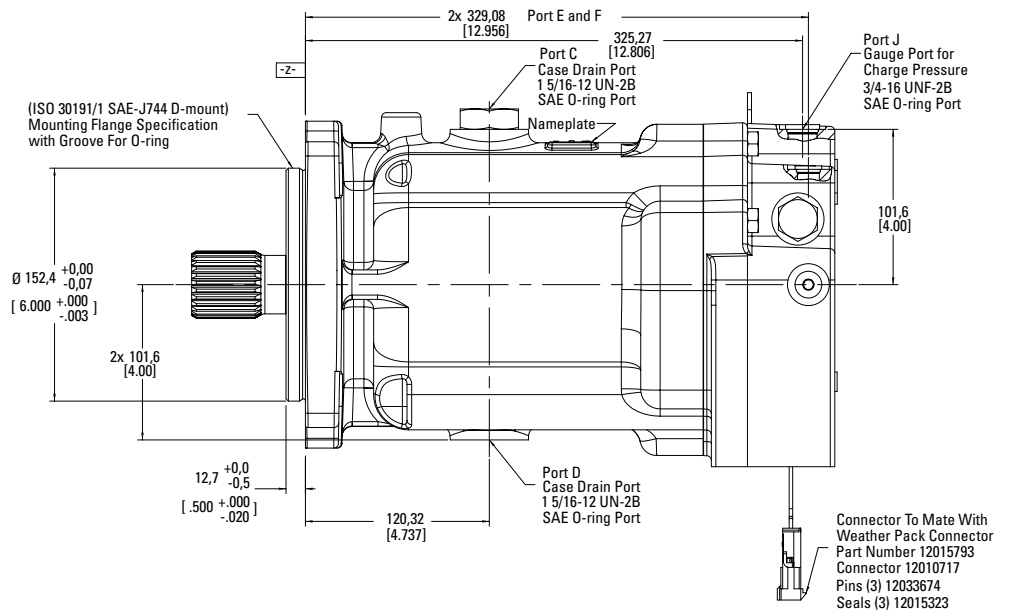
• • • • •
 • • • • •
 • • • • •
 • • • • •



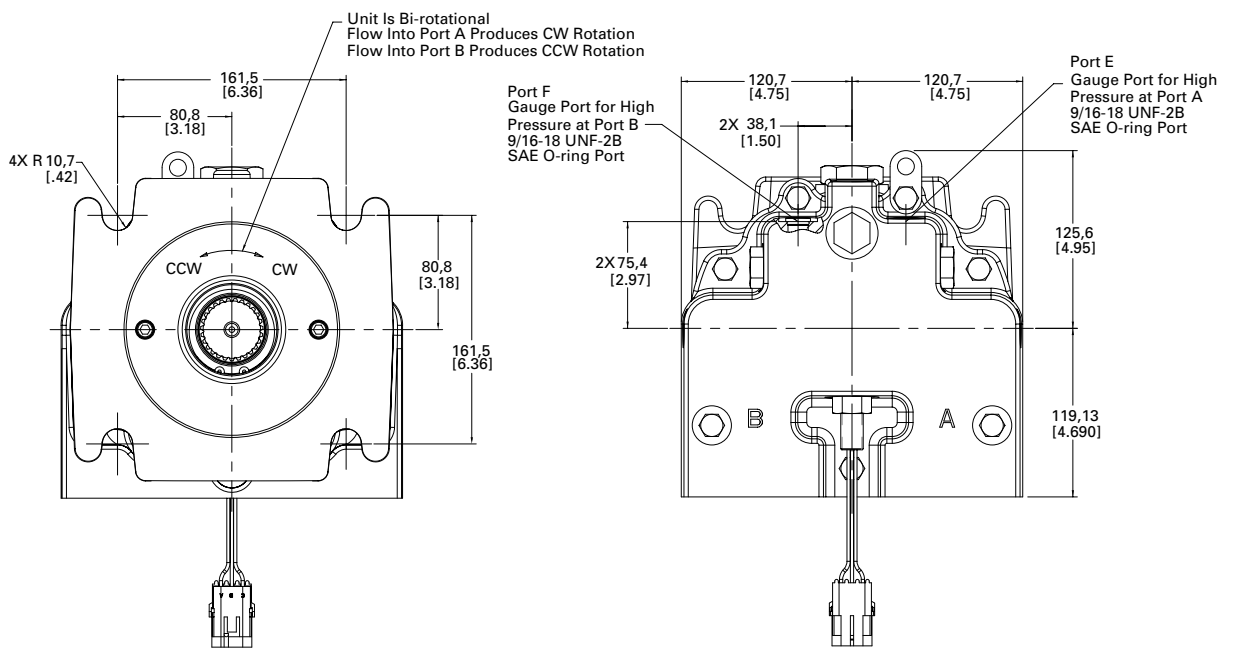
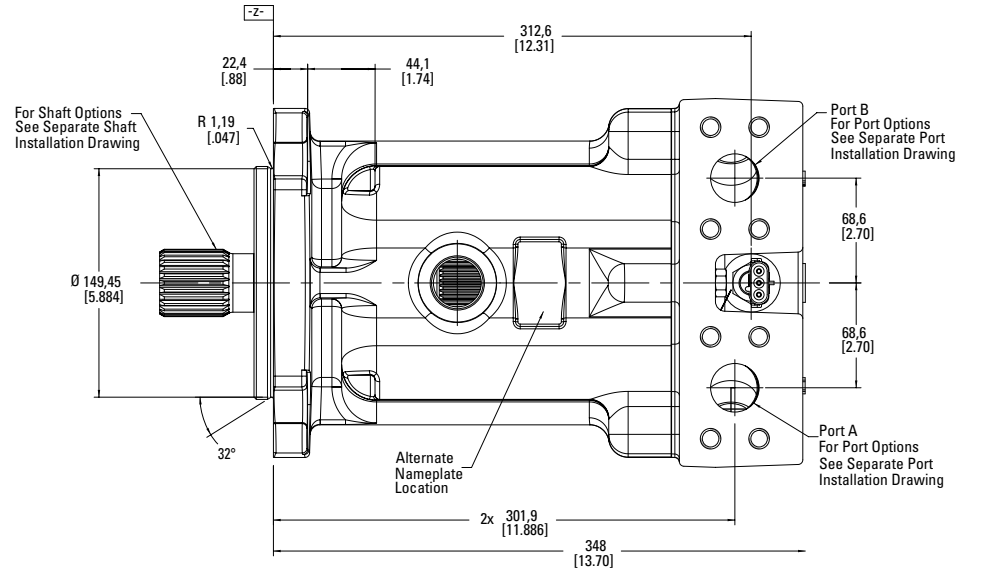
1.25 SAE 4-Bolt Split Flange Port
 High Pressure Series (Code 62)

Model Code Position 10

• CE †
 ... - † † †
 † -40% †

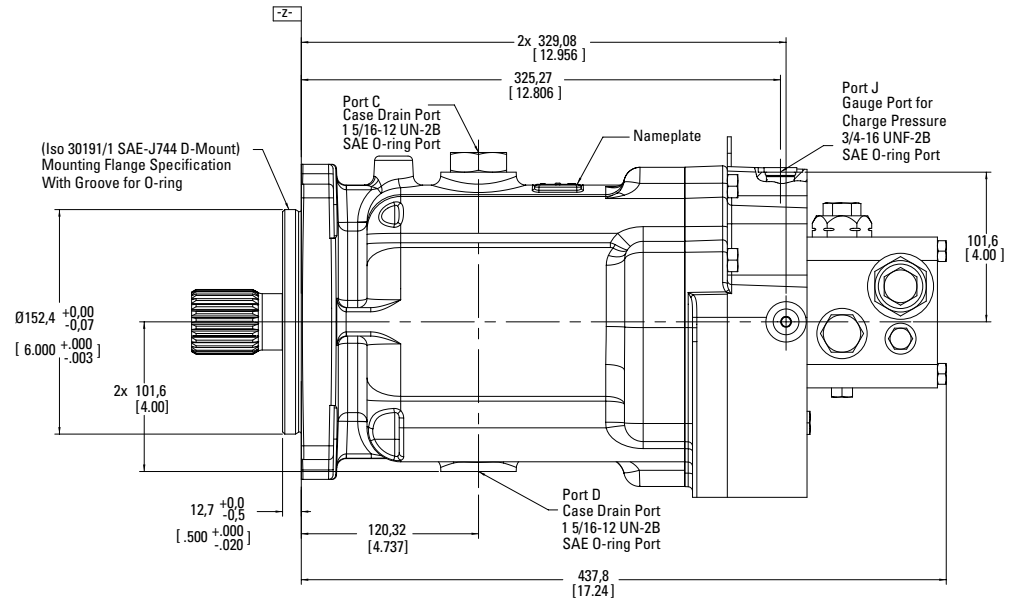


• CE †
 ... - † † †
 ... 40% †



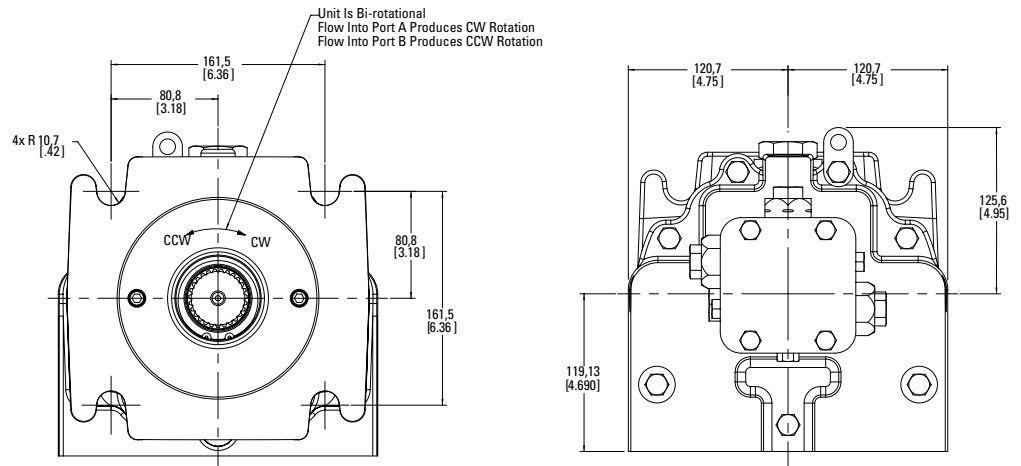
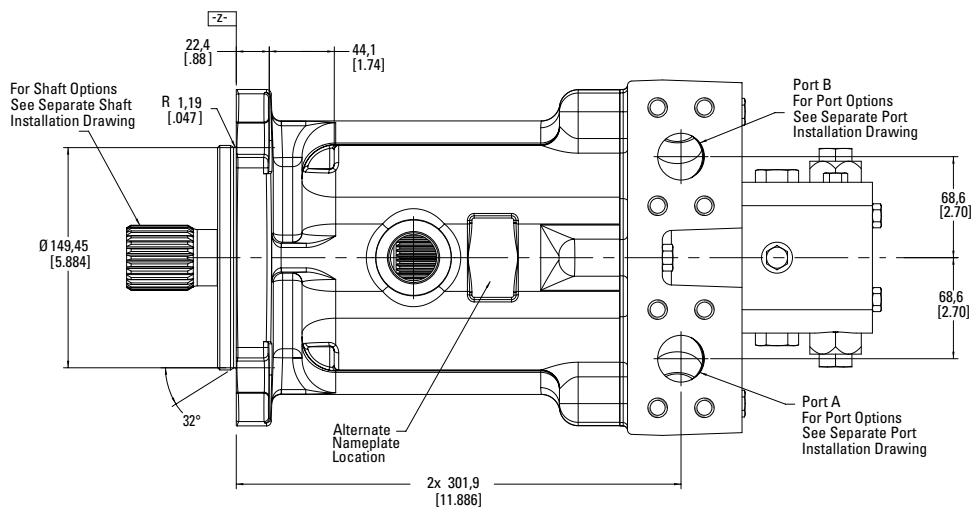
Model Code Position 10

• CE ‡
 † - † † -
 † - † † †
 † - † † † †



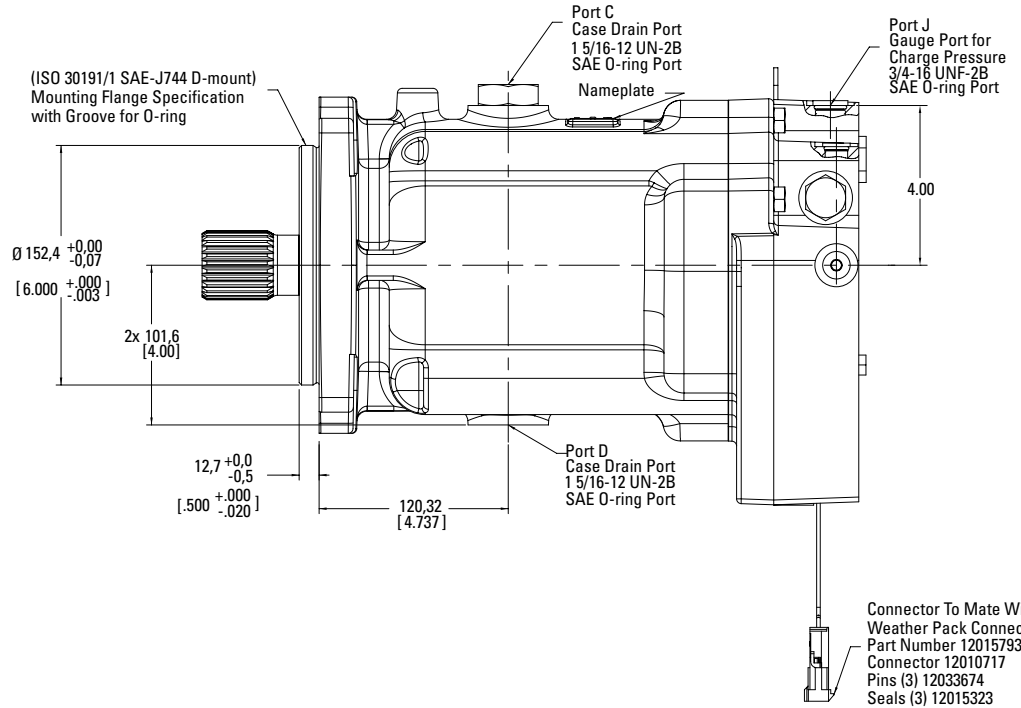
Section D-D

• CE ‡
 † - † † -
 † - † † †
 † - † † † †

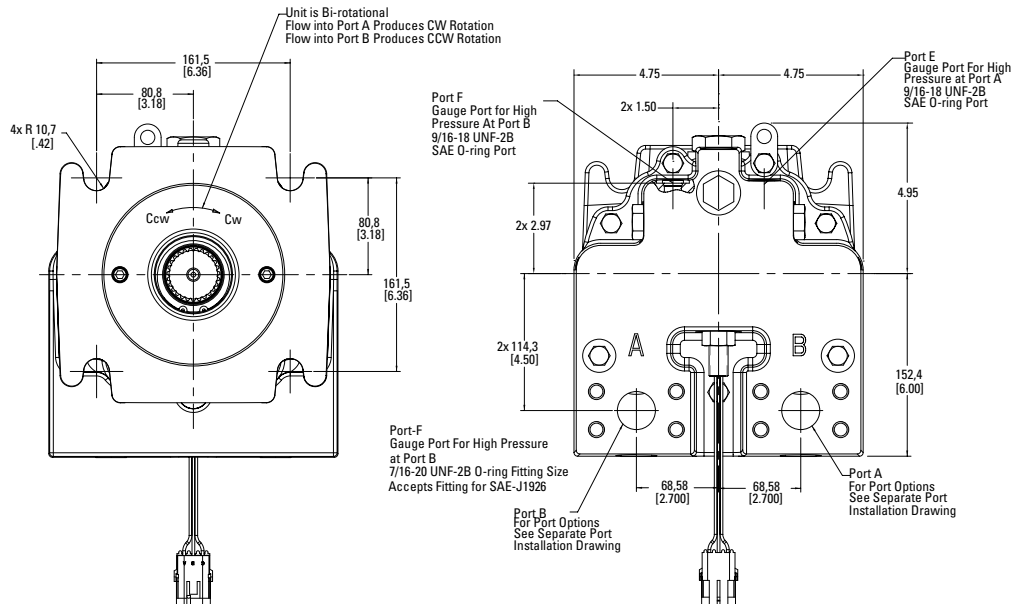
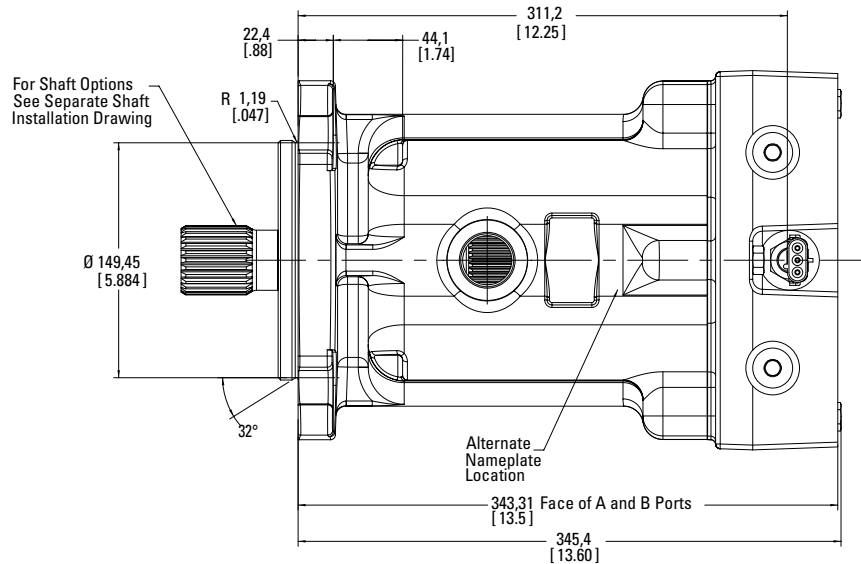


Model Code Position 10

‰ • Œ † ...
 - † † † -
 † - † † † †



‰ • Œ † ...
 - † † † -
 ... † † † †

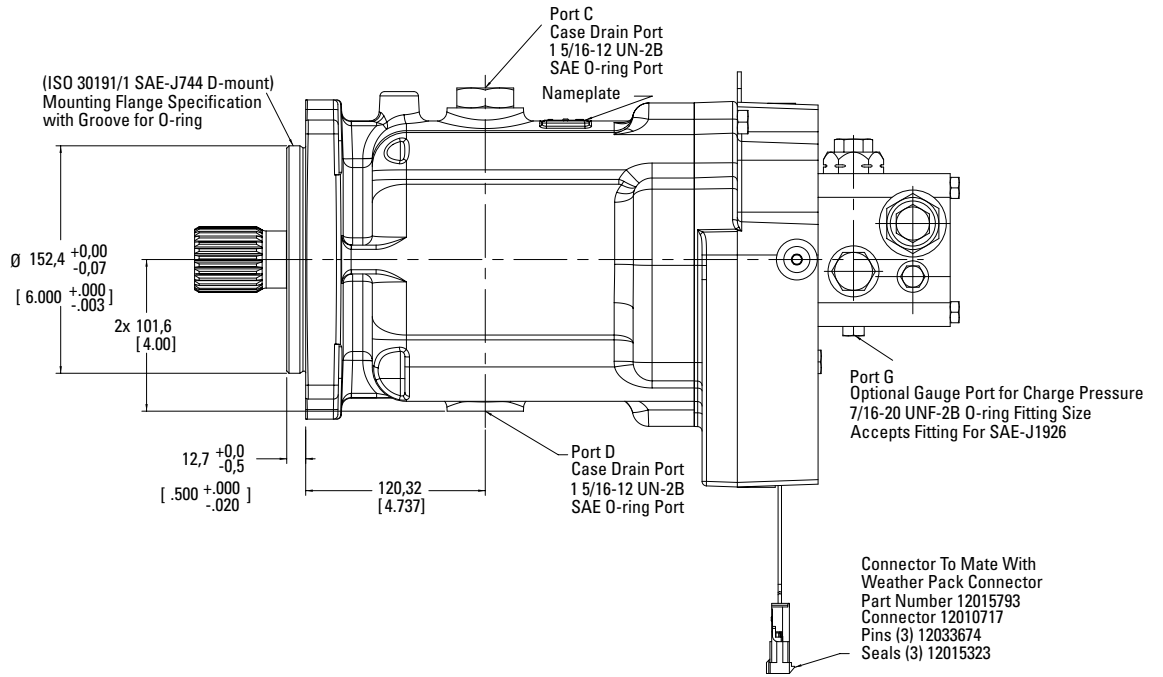


Model Code Position 10

$\frac{\%}{\circ}$ • $\text{CE} \pm$ α "

 ... - \dagger ' -

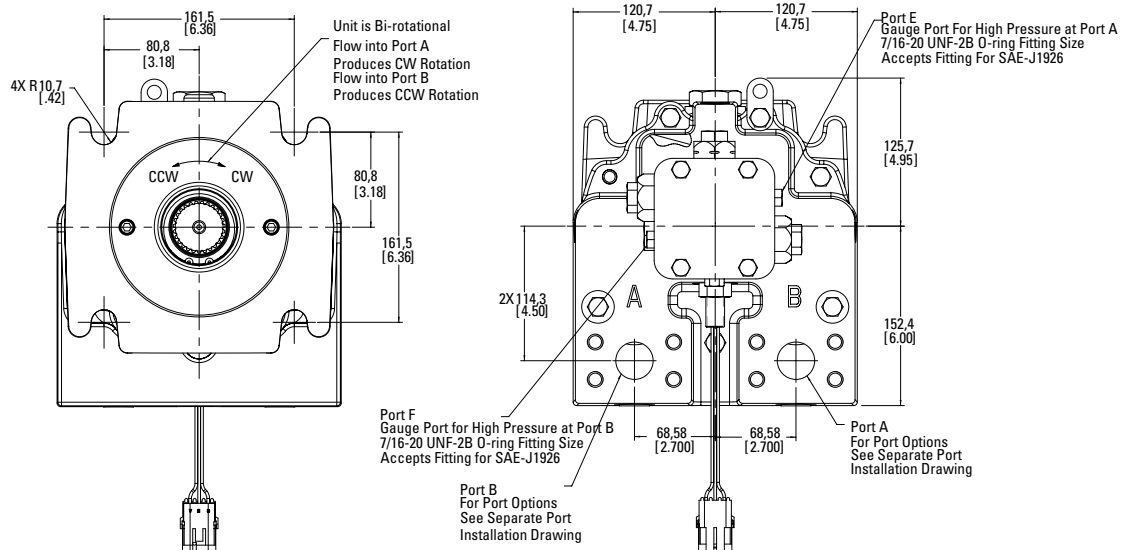
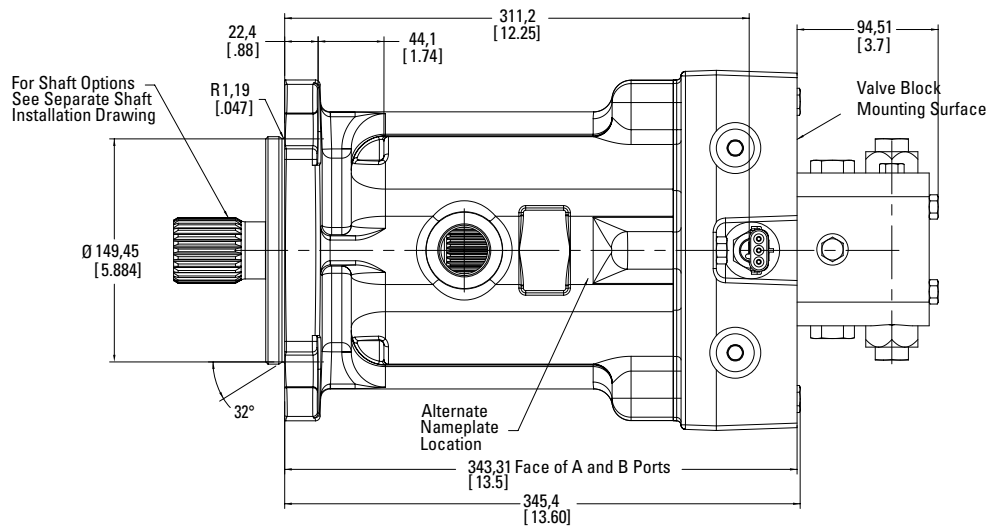
 \dagger - $\frac{\%}{\circ}$ \dagger



$\frac{\%}{\circ}$ • $\text{CE} \pm$ α "

 ... - \dagger ' -

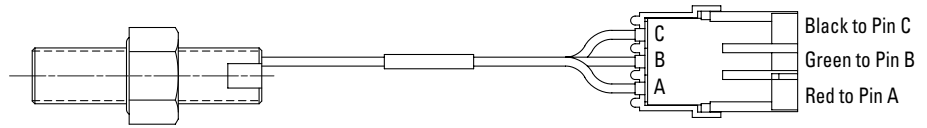
 ... $\frac{\%}{\circ}$ \dagger



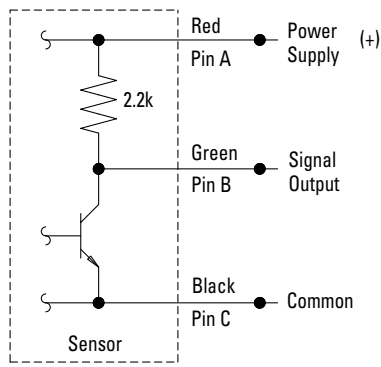
Model Code Position 17

œ

† - ” ‘ - ‘



Packard Electric Weather Pack Series
 12010717 Connector (Black With Index Code 101)
 (Mates With 12015793, Connector And
 12089188, Sleeve Terminal Female)
 12015323 Seal (3 Seals)
 12089040 Pin (3 Pins)

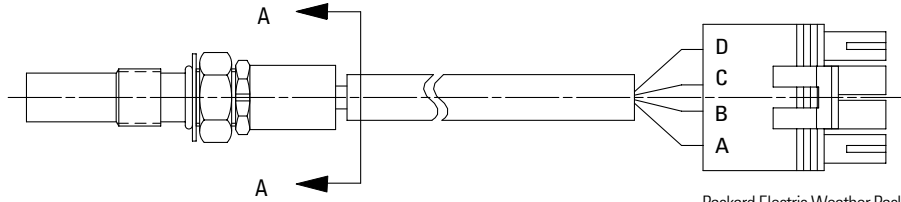


Output Circuit
 Wiring Instructions

‡ † • ‡ ^ ‡
 • Ž •
 ... † a • ‡ Ž •
 „ •
 € † † φ •)
 « Ž • » Ÿ “ • • « ^ Ž • • j
 € † • € ’ • § ’
 • Ž - f -
 ” • φ Ž •

Ÿ œ - i • † †
 Ÿ † i

Model Code Position 17



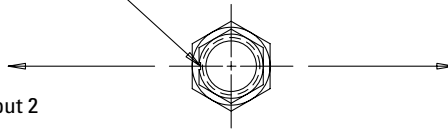
Packard Electric Weather Pack Series
 1201 5797 Tower Connector (Black with Index Code 101)
 1201 5323 Seal (4x)
 1208 9188 Sleeve (Female) Terminals (4x)
 (Mates with 1201 0974, Connector and 1208 9040, Male Terminal)

• | | - • ”
 • • Ÿ€ Ž••
 • %‰ †
 € † i

Orientation Groove
 (Align with Target
 Motion)

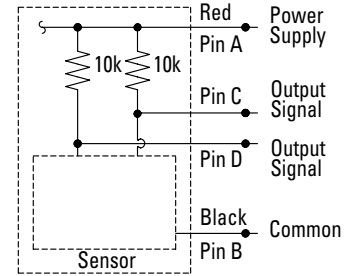
Section A-A

Target Motion
 This Direction:
 Output 1 Leads Output 2
 or
 Direction Output Goes Low



Target Motion
 This Direction:
 Output 2 Leads Output 1
 or
 Direction Output Goes High

€ ^ Ž •
 •• • • ” •• -
 † Ž -
 ^ Ž



Output Circuit
 Wiring Instructions

• | | - • ”
 • • Ÿ€ Ž••
 • %‰ †
 € † i

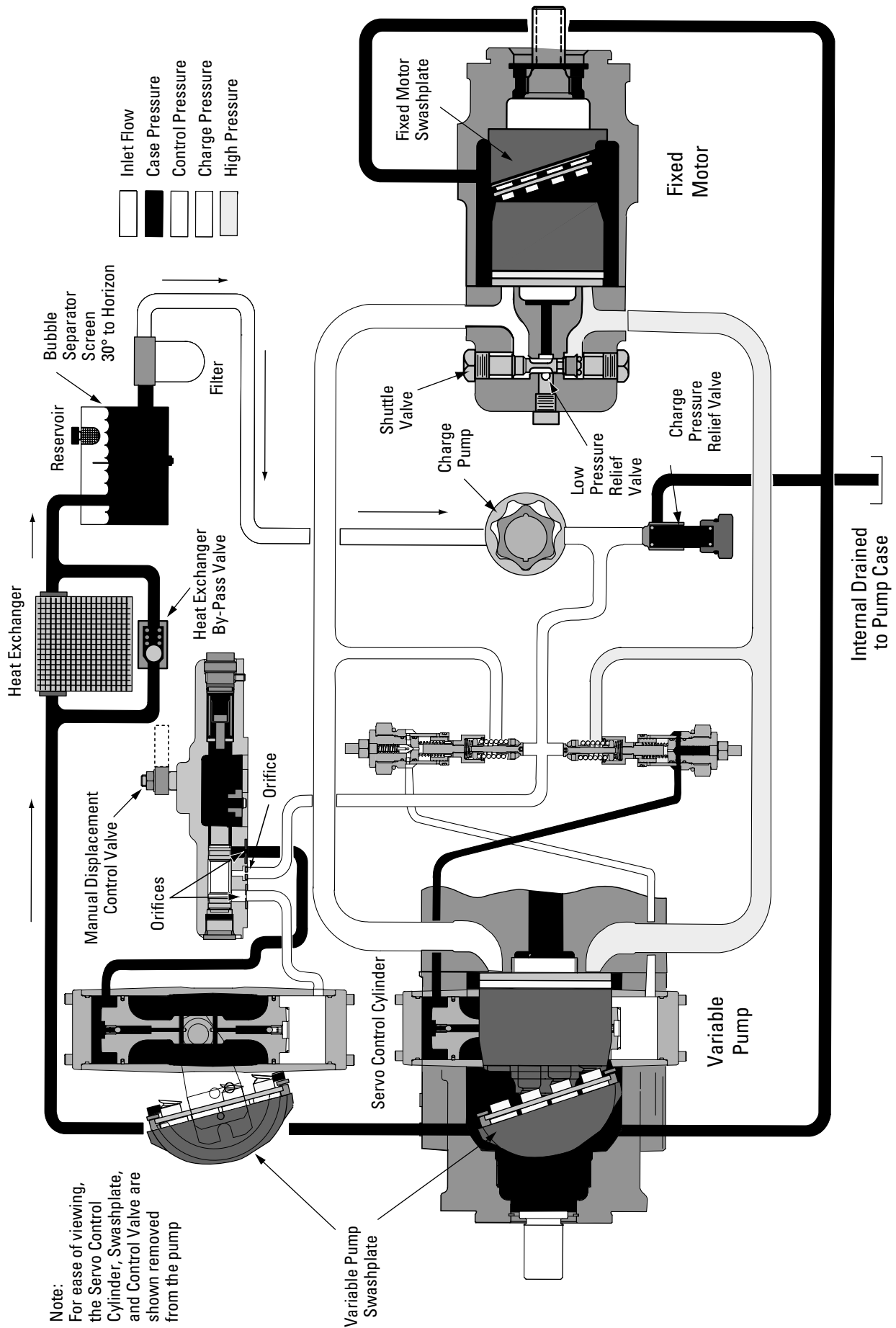
† † ϕ Ÿ† i f Ž f
 † Ÿ %‰ † i
 • ϕ Ÿ i ••
 Ÿ † • • ”
 %‰ i
 ‘ - † • ϕ
 ” ’

€ ϕ € • -
 ^” € • “ %‰
 € † † ... ϕ Ÿ† i
 • †
 • | - ϕ Ž f - •
 • Ÿ’ - •
 † i

Connector Pin Color-signal

	Output Types	A	B	C	D
Code 3	€ † • † Ž• • † - € †	%‰ “•’	α ””	α “	- “
Code 4	‘ † ” -• † ^• • † -	%‰ “•’	α ””	€ † “ ^	® “ Ž

Ÿ” - ^ “ Ž
 ¥œ - i • † †
 Ÿ “ i



Note:
For ease of viewing,
the Servo Control
Cylinder, Swashplate,
and Control Valve are
shown removed
from the pump

Typical Series 760 Variable Displacement Pump/Fixed Displacement Motor Schematic