

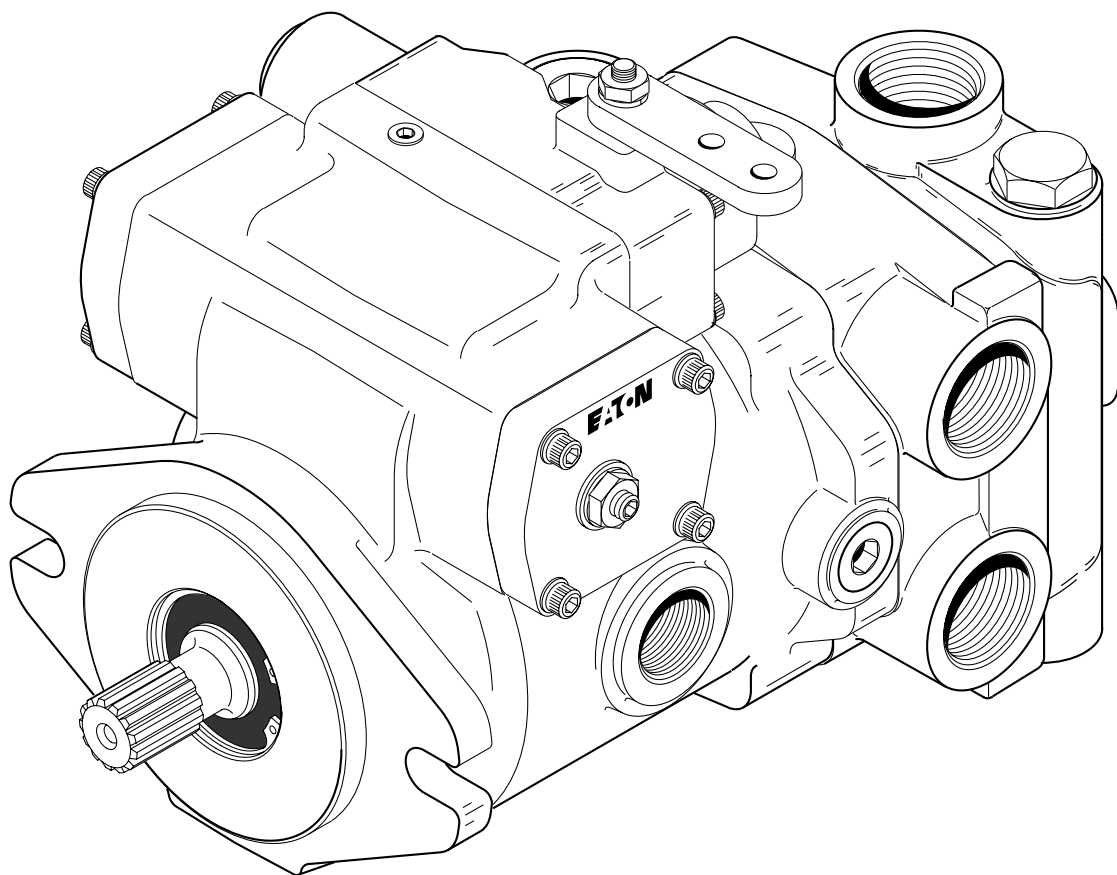


Hydraulics

Model 72400 Servo Controlled Piston Pump

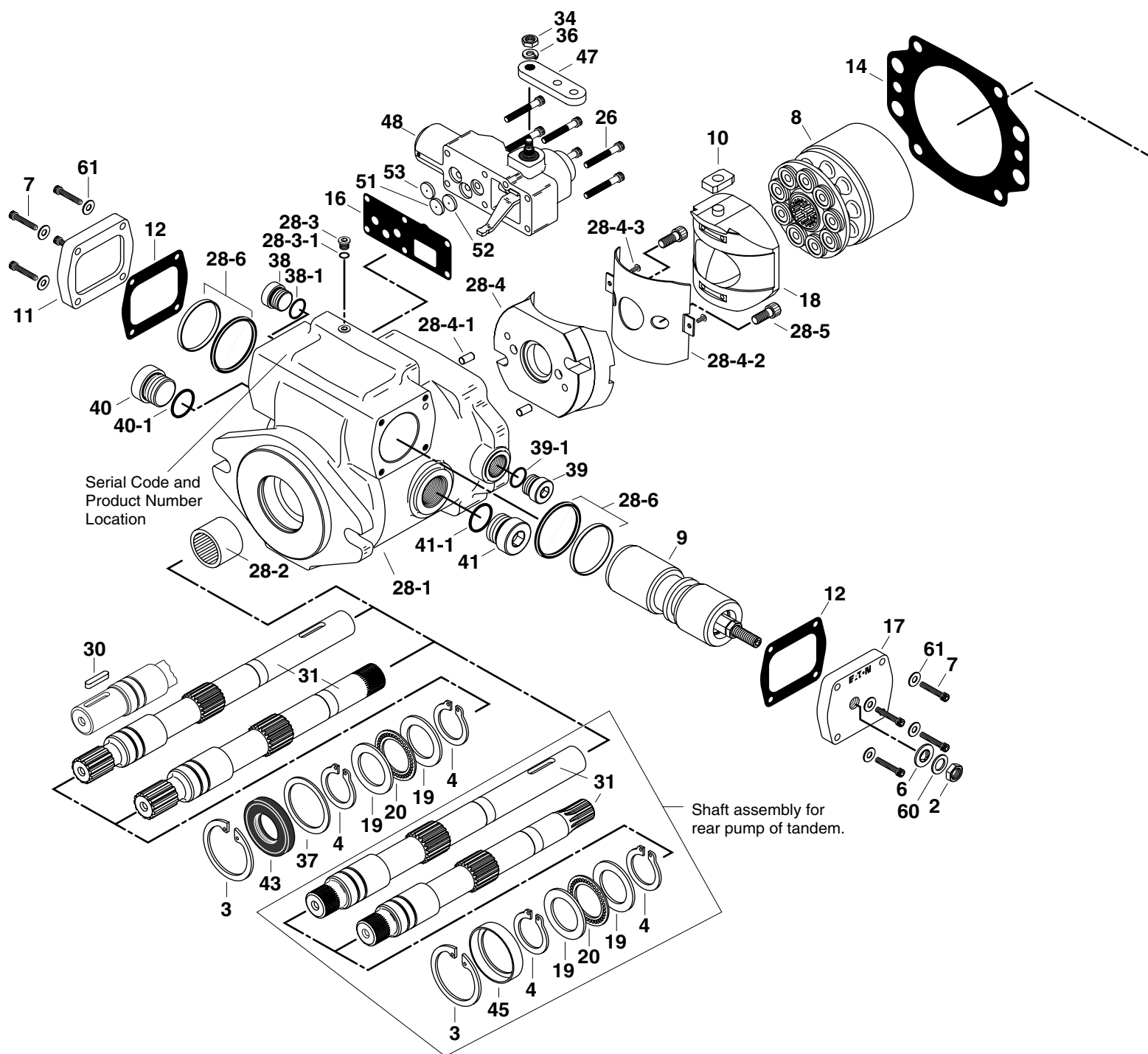
Parts Information

EN-0801

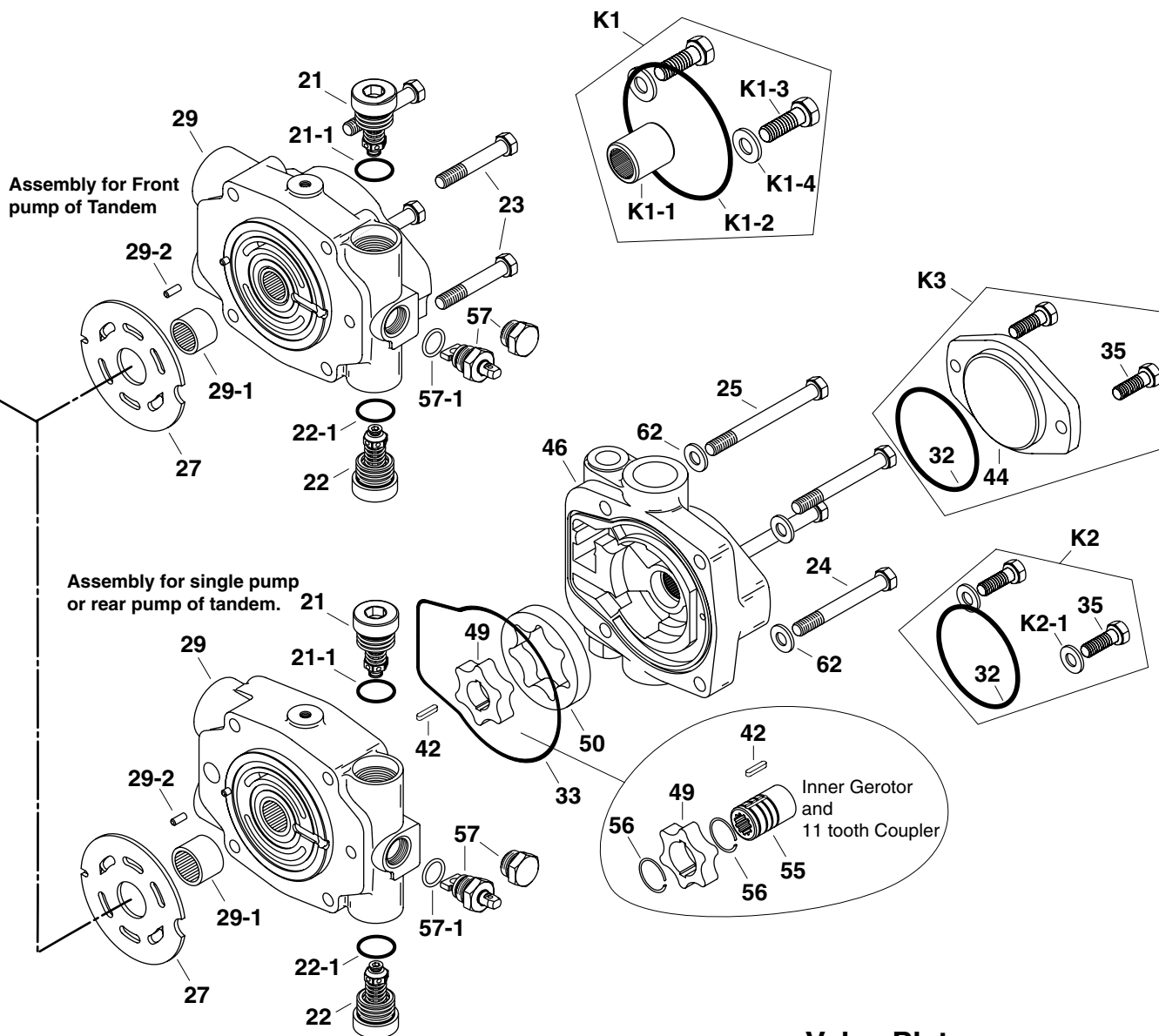


Parts Drawing

Pump drawn below is typical of a righthand rotation with porting out the left side of pump.



Parts Drawing



Parts List

Item	Part No.	Qty.	Description
2	16024-6	1	Jam Nut
+ 3	16077-32	1	Retaining Ring
+ 4	16078-18	2	Retaining Ring
+ 6	16254-6	1	Seal Washer
7	16147-310	8	Cap Screw, #10-24, 25,4 mm [1.0 in.] Long
8	→	1	Rotating Kit Assembly (parts list on page 6)
9	113684-001	1	Servo Piston Assembly (parts list on page 6)
10	72400-585	1	Servo Piston Follower
11	72400-620	1	Cover Plate
+ 12	72400-621	2	Cover Plate Gasket
+ 14	72400-626	1	Housing Gasket
+ 16	72400-631	1	Control Housing Gasket
17	72400-651	1	Cover Plate
18	72400-677	1	Swashplate
19	74308-100	2	Thrust Race
20	74308-101	1	Thrust Bearing
21	→	1	Relief Valve for Port "A" (parts list on page 7)
+ 21-1	16133-12	1	O-ring, 2,95 mm Dia. x 23,47 mm I.D. [.116 in. Dia. x .924 in. I.D.]
22	→	1	Relief Valve for Port "B" (parts list on page 7)
+ 22-1	16133-12	1	O-ring, 2,95 mm Dia. x 23,47 mm I.D. [.116 in. Dia. x .924 in. I.D.]
23	16136-622	4	Cap Screw, 3/8-16, 57,2 mm [2.25 in.] Long
24	16136-634	2	Cap Screw, 3/8-16, 88,9 mm [3.5 in.] Long
25	16136-640	2	Cap Screw, 3/8-16, 101,6 mm [4.0 in.] Long
26	16147-314	6	Cap Screw
27		1	Valve Plate, 2.48 in ³ /r
	70344-51		Righthand (CW) Rotation
	70344-52		Lefthand (CCW) Rotation
28	→	1	Housing Assembly (Identification on page 7)
28-1	→	1	Housing (Identification on page 7)
28-2	16238-11816	1	Bearing (press fit)
28-3	025083-002	1	Plug Sub-Assembly
+ 28-3-1	008785-002	1	O-ring, 1,63 mm Dia. x 6,1 mm I.D. [.064 in. Dia. x .239 in. I.D.]
28-4	112258-001	1	Cradle Sub-Assembly
28-4-1	16028-404	2	Dowel Pin
28-4-2	112256-001	1	Bushing
28-4-3	16269-106	2	Cap Screw, Button Head
28-5	16148-506	2	Cap Screw
+ 28-6	72400-583	2	Seal Sub-Assembly
29	→	1	Endcover Assembly (Identification on page 8)
29-1	52200-23	1	Bearing (press fit)
29-2	16026-610	1	Roll Pin
30	16246-516	1	Key
31	→	1	Drive Shaft (Identification on page 9)
	72400-200		15 tooth, 16/32 DP - w/ 41 tooth, 48/96 DP (Tandem Front Pump)
	72400-201		41 tooth, 48/96 DP - w/ 11 tooth, 16/32 DP (Tandem Rear Pump)
	72400-202		41 tooth, 48/96 DP - w/ 9 tooth, 16/32 DP (Tandem Rear Pump)
	72400-204		15 tooth, 16/32 DP - w/ 9 tooth, 16/32 DP (Single Pump)
	72400-211		13 tooth, 16/32 DP - w/ 9 tooth, 16/32 DP (Single Pump)
	72400-212		15 tooth, 16/32 DP - w/ 11 tooth, 16/32 DP (Single Pump)
	72400-213		25.4 [1.00] Dia. Str., w/ keyway - w/ 9 tooth, 16/32 DP (Single Pump)
+ 32	16007-14	1	O-ring, 1.59 mm Dia. x 82.55 mm I.D. [.0625 in. Dia. x 3.25 in. I.D.]
+ 33	72400-646	1	Molded O-ring
34	16021-4	1	Nut
35	16032-610	2	Cap Screw, 3/8-16, 25,4 mm [1.0 in.] Long
36	16045-104	1	Lockwasher
37	16048-319	1	Washer

Parts List

Item	Part No.	Qty.	Description
38	16103-308	1	Plug
+ 38-1	16133-8	1	O-ring, 2,21 mm Dia. x 16,36 mm I.D. [.087 in. Dia. x .644 in. I.D.]
39	16103-308	1	Plug
+ 39-1	16133-8	1	O-ring, 2,21 mm Dia. x 16,36 mm I.D. [.087 in. Dia. x .644 in. I.D.]
40	16103-312	1	Plug
+ 40-1	16133-12	1	O-ring, 2,95 mm Dia. x 23,47 mm I.D. [.116 in. Dia. x .924 in. I.D.]
41	16103-312	1	Plug
+ 41-1	16133-12	1	O-ring, 2,95 mm Dia. x 23,47 mm I.D. [.116 in. Dia. x .924 in. I.D.]
42		1	Key
	16246-429		Used with 9 tooth internal spline through shafts
	16246-431		Used on 11 tooth drive coupler with 12,7 mm [.5 in.] width gerotor
	16244-443		Used on 11 tooth drive coupler with 6,35 mm [.25 in.] width gerotor
+ 43	16253-18	1	Shaft Seal, Standard
43	16253-218	1	Shaft Seal, Viton
44	70142-600	1	Cover Plate
45	70400-620	1	Spacer
46	→	1	Charge Pump Adapter Assembly (parts list & ID. on Page 10 & 11)
47	72400-506	1	Control Arm
48	→	1	Servo Control Assembly (parts list & ID. on Page 12 & 16)
49		1	Inner Ring Gerotor (match displacement with Item 46 & 50)
	79004-611		6,9 cm ³ /r [.42 in ³ /r] displacement, 6,35 mm [.25 in.] width
	79004-605		13,8 cm ³ /r [.84 in ³ /r] displacement, 12,7 mm [.5 in.] width
	72400-673		6,9 cm ³ /r [.42 in ³ /r] displacement (used with Item 55 coupler)
	72400-640		13,8 cm ³ /r [.84 in ³ /r] displacement (used with Item 55 coupler)
50		1	Outer Ring Gerotor (match displacement with Item 46 & 49)
	79004-612		6,9 cm ³ /r [.42 in ³ /r] displacement, 6,35 mm [.25 in.] width
	79004-606		13,8 cm ³ /r [.84 in ³ /r] displacement, 12,7 mm [.5 in.] width
51	→	1	Supply Orifice (orifice chart on page 17)
52	→	1	Control Valve Orifice (orifice chart on page 17)
53	→	1	Control Valve Orifice (orifice chart on page 17)
55	72400-639	1	Coupler, 11 tooth
56	72400-638	2	Retaining Ring, (used with Item 55)
57		1	Bypass Valve
	113578-001		Bypass Valve Actuator
	16103-108		Plug (selected when bypass valve is not required)
57-1	16133-8	1	O-ring, 2,21 mm Dia. x 16,36 mm I.D. [.087 in. Dia. x .644 in. I.D.]
60	16254-26	1	Washer
61	16048-672	8	Washer
62	106013-038	4	Washer

Kits

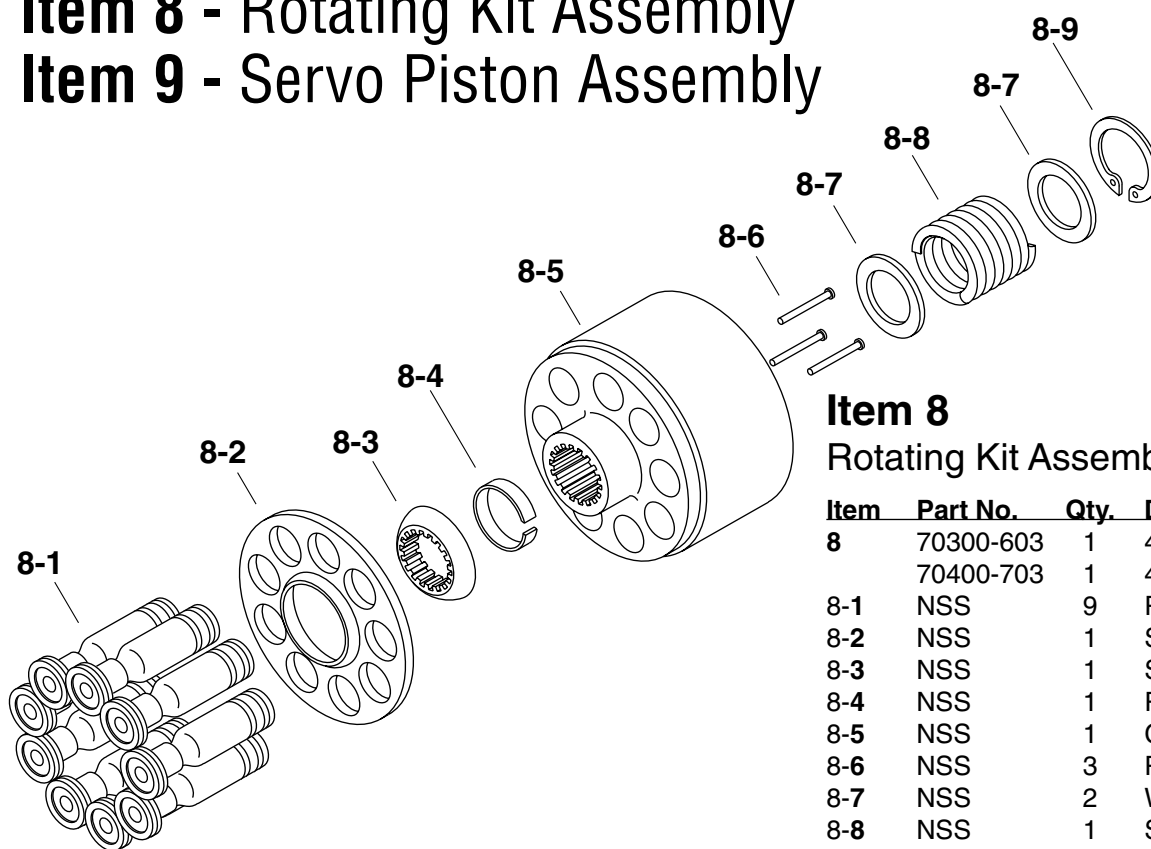
K1	72400-902	1	Tandem Servo Piston Pump Mounting Kit
K1-1	70411-622	1	Coupler, 41 tooth
+ K1-2	16007-17	1	O-ring, 1,59 mm Dia. x 101,6 mm I.D. [.0625 in. Dia. x 4 in. I.D.]
K1-3	16032-812	2	Cap Screw, 1/2-13, 31,75 mm [1.25 in.] Long
K1-4	16048-72	2	Washer
K2	70442-929	1	Gear Pump Mounting Kit
			Includes Items 32 and 35
K2-1	16048-113	2	Washer
K3	70142-915	1	Cover Plate Kit for "A" SAE Flange Series 82-2 Mount
			Includes Items 32, 35, and 44
	72400-908	1	Seal Repair Kit for single pump (Two required for tandem units).
	72400-916	1	Seal Repair Kit for single pump with Viton shaft seal (Two required for tandem units).

Legend

- Refer to specific Item parts list.
 + Parts included in 72400-908 Seal Repair kit.

Item 8 - Rotating Kit Assembly

Item 9 - Servo Piston Assembly



Item 8

Rotating Kit Assembly

Item	Part No.	Qty.	Description
8	70300-603	1	40,6 cm ³ /r [2.48 in ³ /r]
	70400-703	1	49,2 cm ³ /r [3.00 in ³ /r]
8-1	NSS	9	Piston Assembly
8-2	NSS	1	Shoe Retainer
8-3	NSS	1	Shoe Retainer Pivot
8-4	NSS	1	Retainer
8-5	NSS	1	Cylinder Barrel
8-6	NSS	3	Pins
8-7	NSS	2	Washer
8-8	NSS	1	Spring
8-9	NSS	1	Retaining Ring

NSS - Not Sold Separately

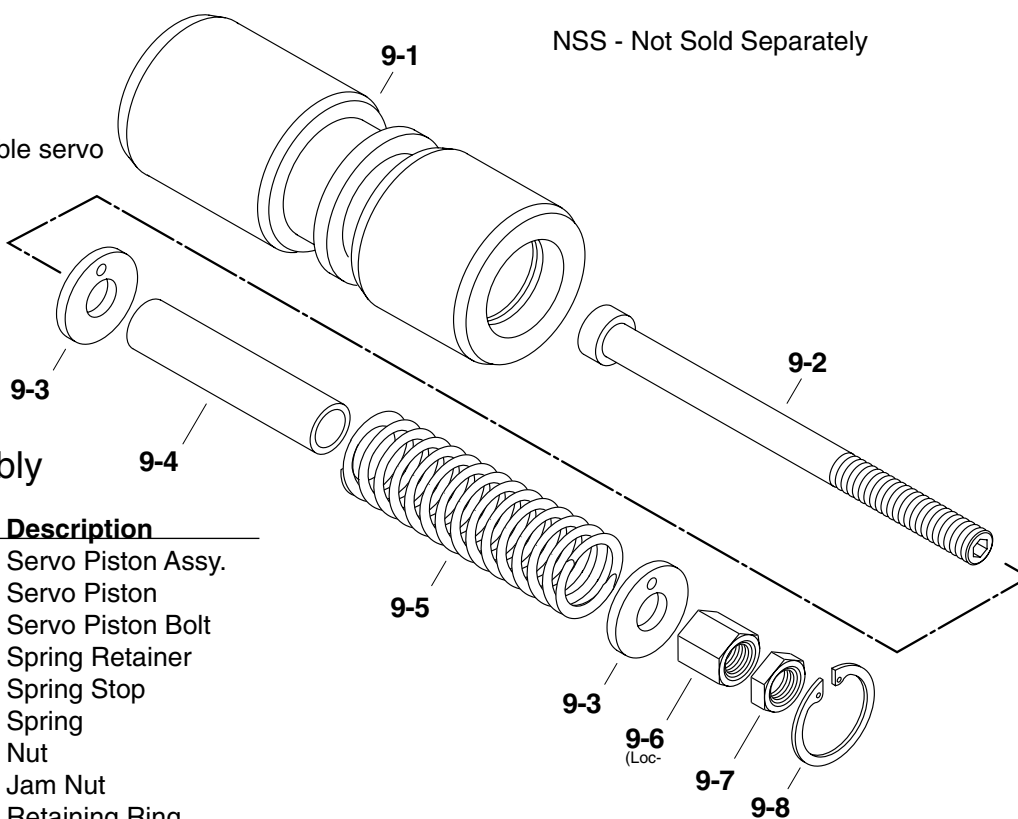
Note: Do not disassemble servo piston assembly.

Item 9

Servo Piston Assembly

Item	Part No.	Qty.	Description
9	113684-001	1	Servo Piston Assy.
9-1	NSS	1	Servo Piston
9-2	NSS	1	Servo Piston Bolt
9-3	NSS	2	Spring Retainer
9-4	NSS	1	Spring Stop
9-5	NSS	1	Spring
9-6	NSS	1	Nut
9-7	NSS	1	Jam Nut
9-8	NSS	1	Retaining Ring

NSS - Not Sold Separately



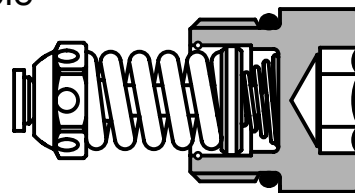
Item 21 or 22 - Relief Valve S/A

Item 28 - Housing Identification

Item 21 or 22

Internal Relief Valve Settings Available

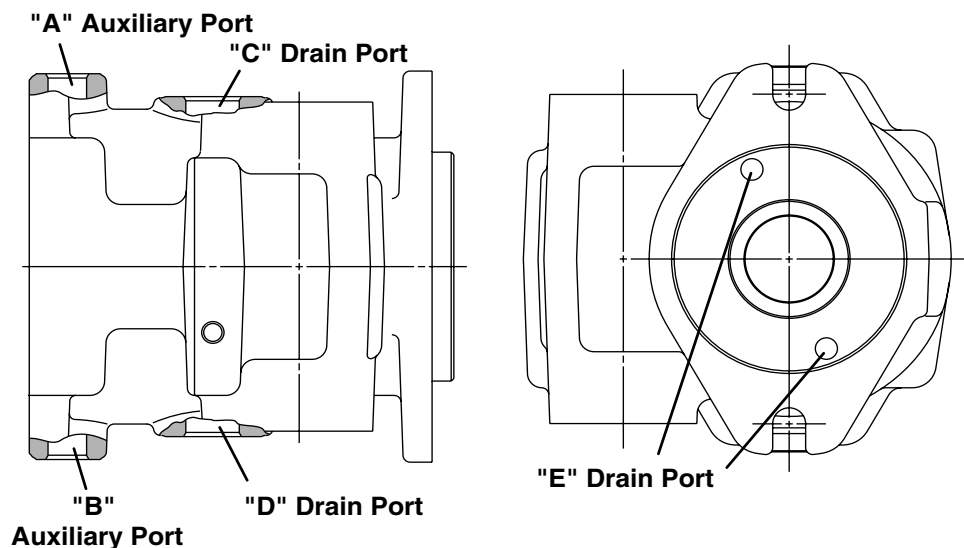
Part Number	bar [PSI]
110700-200	138 [2000]
110700-250	172 [2500]
110700-300	207 [3000]
110700-350	241 [3500]
110700-400	276 [4000]
110700-450	310 [4500]
110700-500	345 [5000]



Dash Number Stamped here
for Valve Pressure Setting Identification
Example: 500 x 10 = [5000 PSI] 345 bar

Item 28

Housing Identification



Housing Assy. Item	Part No.	Housing Item	Part No.	Qty.	Port Machined
28	112259-001	28-1	72373-001	1	A, B, C, D
28	112259-012	28-1	72373-012	1	A, B, C, D, E
28	112259-013	28-1	72373-013	1	A, B, E

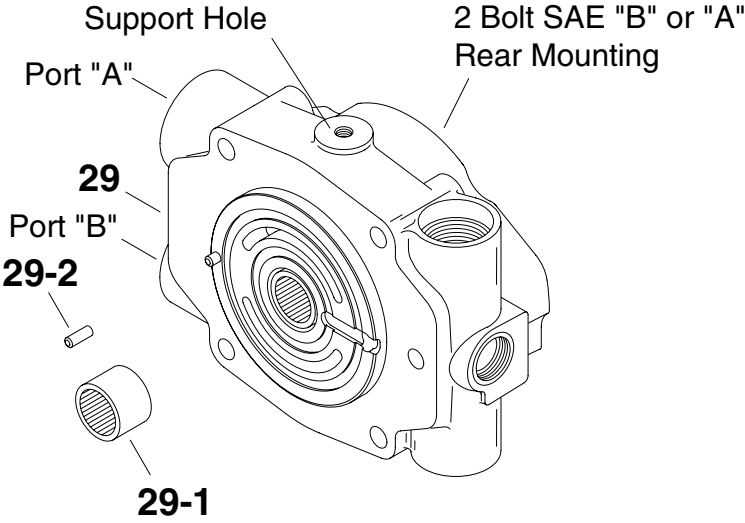
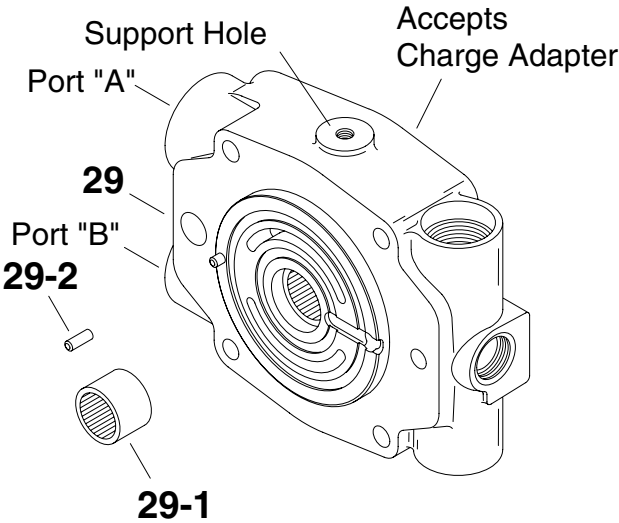
Item 29 - Endcover Assembly Identification

Parts List

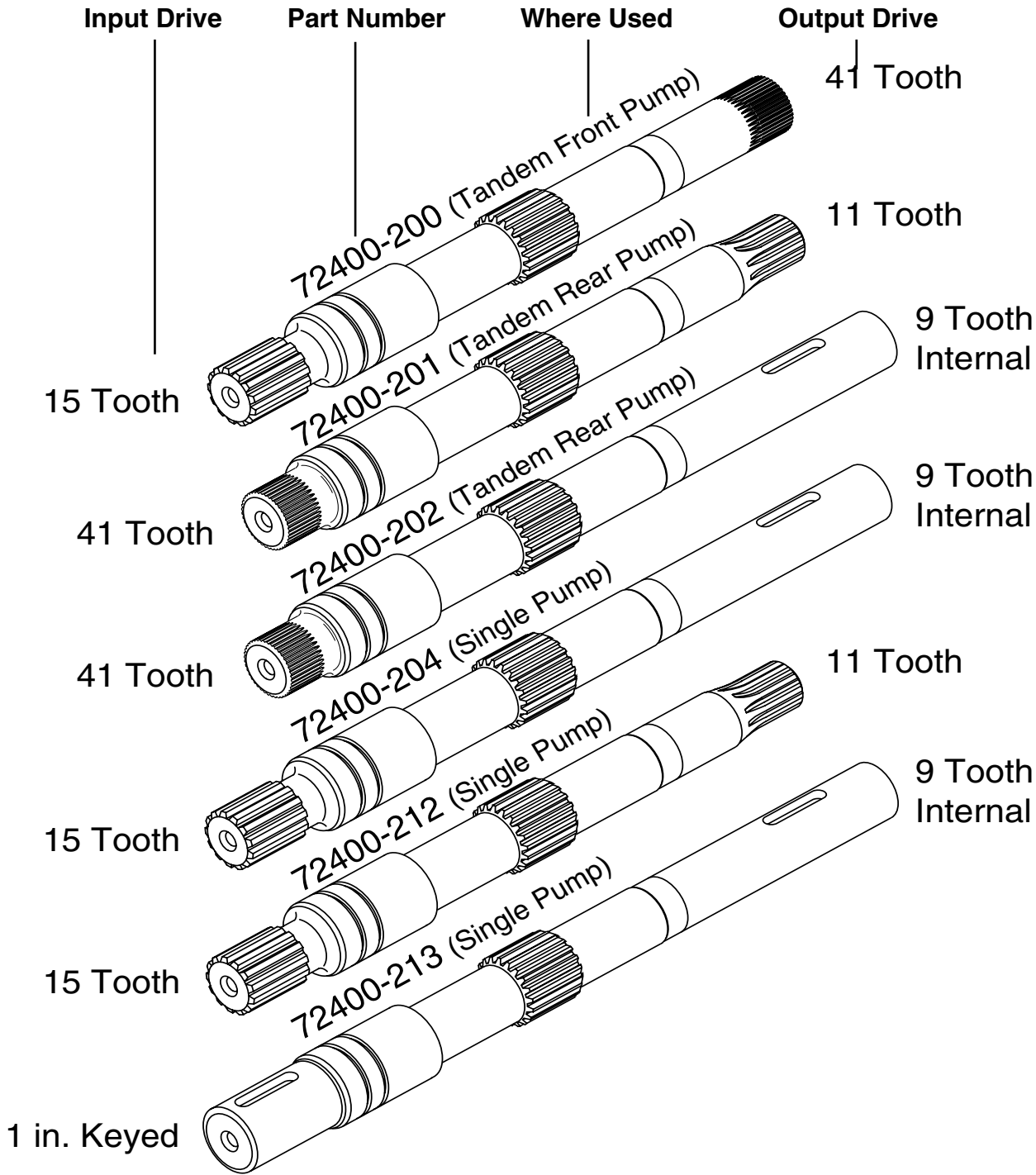
Item	Part No.	Qty.	Description
29	Chart Below	1	Endcover Assembly
29-1	52200-23	1	Bearing (press fit)
29-2	16026-610	1	Roll Pin

Item 29 - Endcover Assembly Part Number Identification

		Item 29 Endcover Assembly Part Number
Rear Mounting	Support Hole	
Rear "B" Mount (no gerotor charge adapter)	with Hole	113585-002
	None	113585-001
Accepts Gerotor Charge Pump Adapter with "A" Mount	with Hole	113581-002
	None	113581-001
Rear "A" Mount (no gerotor charge adapter)	with Hole	113583-002
	None	113583-001

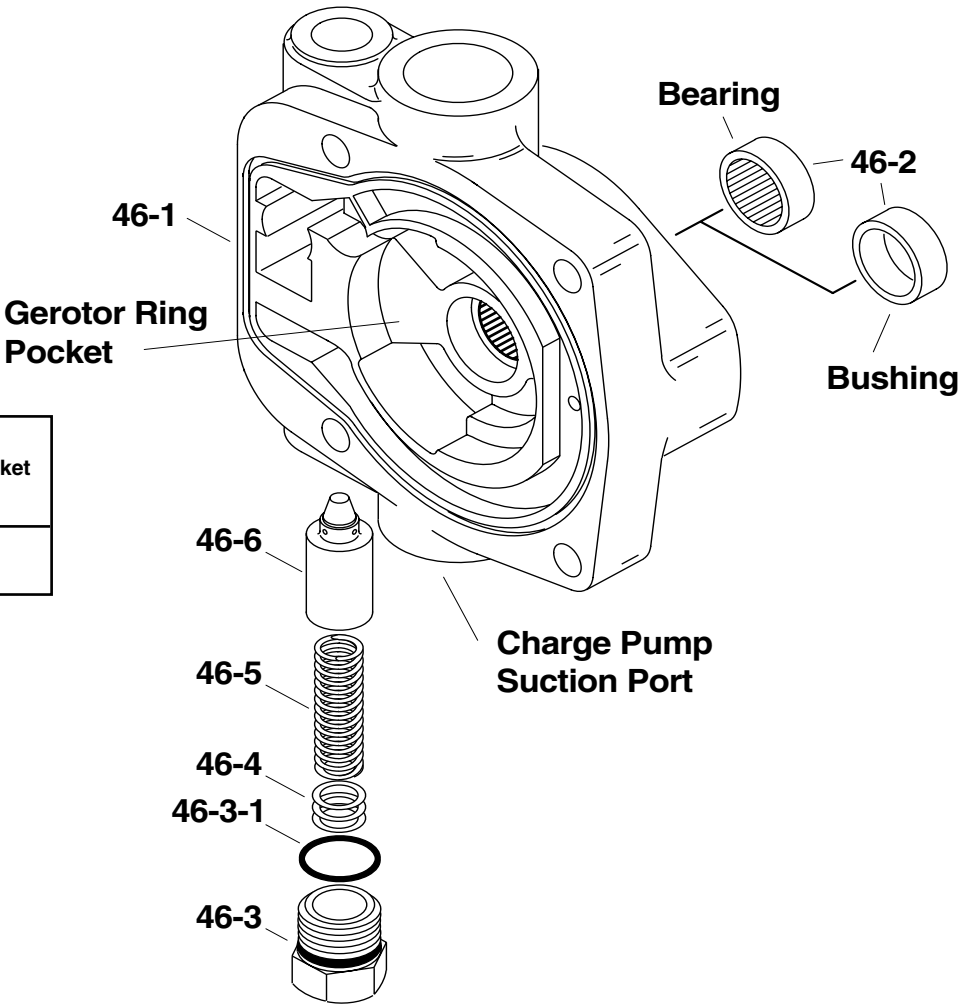


Item 31 - Drive Shaft Identification



Item 46 - Charge Pump Adapter Assembly

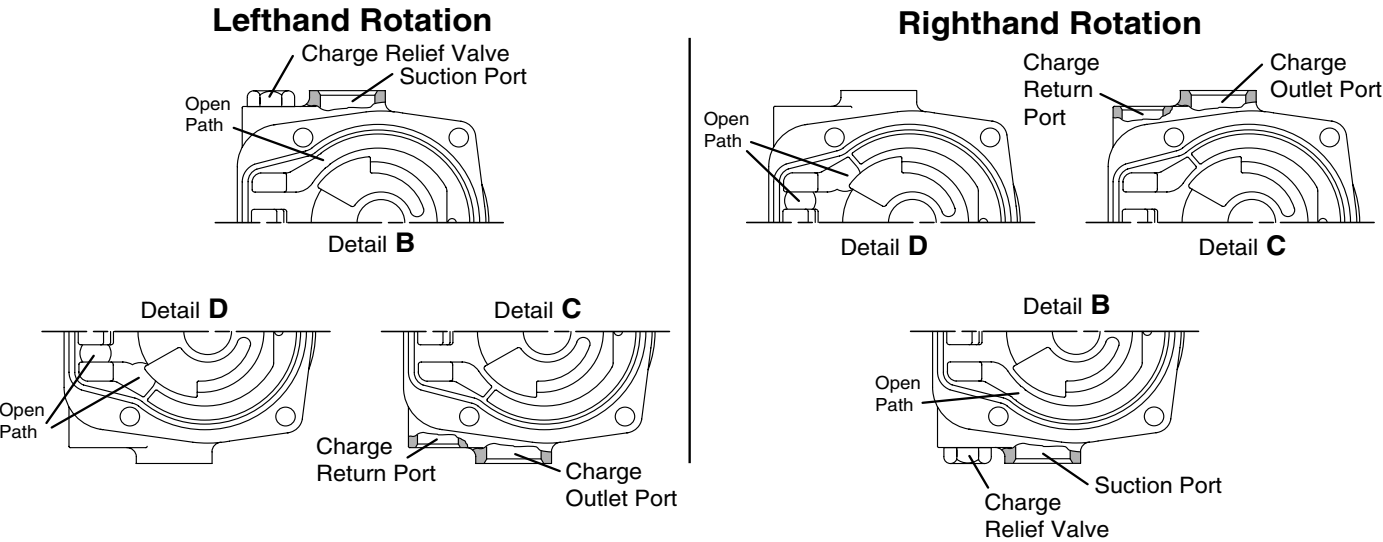
Gerotor Pocket Depth	
Displacement cm³/r [in³/r]	Depth of Pocket mm [in.]
6,9 [.42]	6,35 [.25]
13,8 [.84]	12,7 [.50]



Item	Part No.	Qty.	Description
46	See Chart	1	Assembly, Charge Pump Adapter
46-1	NSS	1	Charge Pump Adapter
46-2	16239-1148	1	Bearing (press fit), Used w/9 tooth output shaft
46-2	72400-637	1	Bushing (press fit), Used w/11 tooth output shaft
46-3	72400-659	1	Plug
+ 46-3-1	16133-10	1	O-ring
46-4	16048-597	<i>f</i>	Shims
46-5	17059-16	1	Spring
46-6	72400-682	1	Poppet

f - Shim as required
NSS - Not sold separately

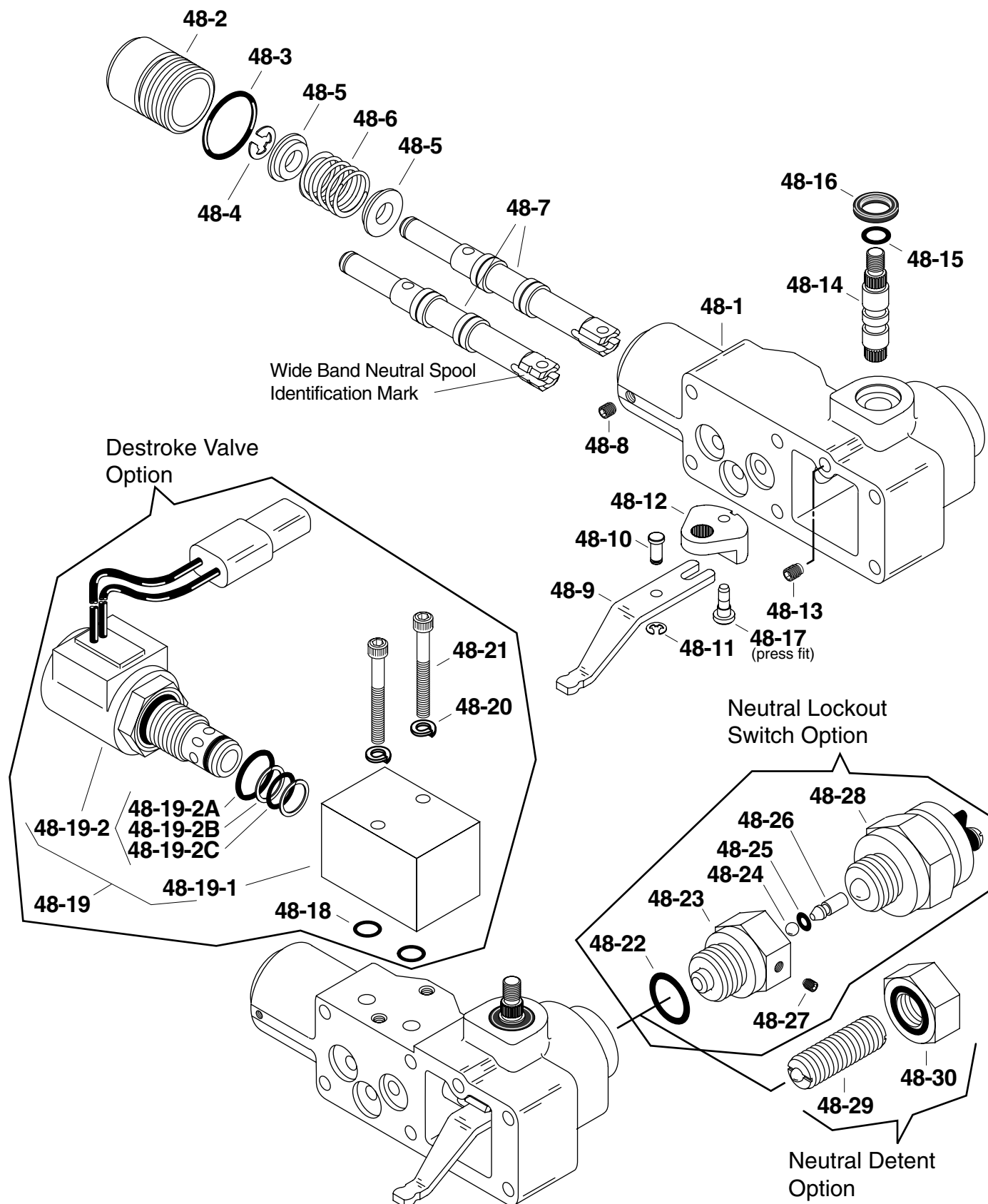
Item 46 - Charge Pump Adapter Identification



Adapter, Item 46, Identification Chart

Charge Pump Routing	Shaft Rotation	Refer to Detail	9 Tooth Output Shaft		11 Tooth Output Shaft	
			6,9 cm ³ /r [.42 in ³ /r] Displacement	13,8 cm ³ /r [.84 in ³ /r] Displacement	6,9 cm ³ /r [.42 in ³ /r] Displacement	13,8 cm ³ /r [.84 in ³ /r] Displacement
Charge Relieved to Case	Righthand	B & D	72356-010	72356-011	72348-010	72348-011
	Lefthand	B & D	72358-010	72358-011	72360-010	72360-011
Remote Filter and Charge Relieved to Case	Righthand	B & C	72356-007	72356-008	72348-007	72348-008
	Lefthand	B & C	72358-007	72358-008	72360-007	72360-008

Item 48 - Servo Controller Assemblies



Item 48 - Servo Controllers - Parts List

Index of Controllers	Page
72401-AA with No Additional Features	13
72401-AD with Destroke Valve	13
72401-AE with Neutral Detent & Wide Band Neutral	13
72401-AF with Neutral Detent, Destroke Valve & Wide Band Neutral	14
72401-AG with Wide Band Neutral	14
72401-AH with Destroke Valve & Wide Band Neutral	14
72401-AR with Neutral Lockout, Destroke Valve & Wide Band Neutral	15
72401-AS with Neutral Lockout & Wide Band Neutral	15
72401-AL with High Gain Control	16

72401-AA

Item	Part No.	Qty	Description
48	72401-AA		Assembly with no additional features
48-1	72319-001	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-563	1	Valve Spool - Standard
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)

72401-AD

Item	Part No.	Qty	Description
48	72401-AD		Assembly with Destroke Valve
48-1	72319-003		Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-563	1	Valve Spool - Standard
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
48-18	16003-6	2	O-ring
48-19	72420-AE	1	Destroke Valve Assy.
48-19-1	72400-719	1	Manifold
48-19-2	72400-521	1	Destroke Valve w/12 VDC coil, Weatherpak Conn.
48-19-2A	16133-10	1	O-ring
48-19-2B	16101-102	2	Back-up Washer
48-19-2C	16015-2	1	O-ring
48-20	16045-103	2	Lock Washer
48-21	16148-316	2	Cap Screw

72401-AE

Item	Part No.	Qty	Description
48	72401-AE		Assembly with Neutral Detent & Wide Band Neutral
48-1	72319-005	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
48-29	98193	1	Ball Plunger
48-30	101335	1	Nut, Seal

Item 48 - Servo Controllers - Parts List

72401-AF

Item	Part No.	Qty	Description
48	72401-AF		Assembly with Neutral Detent, Destroke valve & Wide Band Neutral
48-1	72319-006	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
48-18	16003-6	2	O-ring
48-19	72420-AE	1	Destroke Valve Assy.
48-19-1	72400-719	1	Manifold
48-19-2	72400-521	1	Destroke Valve - w/12 VDC coil, Weatherpak Conn.
48-19-2A	16133-10	1	O-ring
48-19-2B	16101-102	2	Back-up Washer
48-19-2C	16015-2	1	O-ring
48-20	16045-103	2	Lock Washer
48-21	16148-316	2	Cap Screw
48-23	98193	1	Ball Plunger
48-30	101335	1	Nut, Seal

72401-AH

Item	Part No.	Qty	Description
48	72401-AH		Assembly with Wide Band Neutral & Destroke Valve
48-1	72319-003		Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
48-18	16003-6	2	O-ring
48-19	72420-AE	1	Destroke Valve Assy.
48-19-1	72400-719	1	Manifold
48-19-2	72400-521	1	Destroke Valve w/12 VDC coil, Weatherpak Conn.
48-19-2A	16133-10	1	O-ring
48-19-2B	16101-102	2	Back-up Washer
48-19-2C	16015-2	1	O-ring
48-20	16045-103	2	Lock Washer
48-21	16148-316	2	Cap Screw

72401-AG

Item	Part No.	Qty	Description
48	72401-AG		Assembly with Wide Band Neutral Spool
48-1	72319-001	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)

Item 48 - Servo Controllers - Parts List

72401-AR

Item	Part No.	Qty	Description
48	72401-AR		Assembly with Neutral Lockout, Destroke valve & Wide Band Neutral
48-1	72319-004	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
+ 48-18	16003-6	2	O-ring
48-19	72420-AE	1	Destroke Valve Assy.
48-19-1	72400-719	1	Manifold
48-19-2	72400-521	1	Destroke Valve - w/12 VDC coil, Weatherpak Conn.
+ 48-19-2A	16133-10	1	O-ring
+ 48-19-2B	16101-102	2	Back-up Washer
+ 48-19-2C	16015-2	1	O-ring
48-20	16045-103	2	Lock Washer
48-21	16148-316	2	Cap Screw
+ 48-22	16133-8	1	O-ring
48-23	72400-722	1	Adapter Assy, Neutral Lockout
48-24	16006-6	1	Ball
+ 48-25	16003-589	1	O-ring
48-26	72400-725	1	Pin
48-27	102149-019	1	#10-32, Set Screw
48-28	109791-001	1	Neutral Lockout Switch Assy.

72401-AS

Item	Part No.	Qty	Description
48	72401-AS		Assembly with Neutral Lockout & Wide Band Neutral
48-1	72319-002	1	Control Housing
48-2	72400-507	1	Plug
+ 48-3	16015-8	1	O-ring
48-4	16124-31	1	Retaining Ring
48-5	72400-504	2	Spring Retainer
48-6	17073-14	1	Spool Centering Spring
48-7	72400-544	1	Valve Spool - Wide Band Neutral
48-8	102149-019	1	Set Screw
48-9	72400-502	1	Feedback Link
48-10	72400-508	1	Dowel Pin
48-11	16124-15	1	Retaining Ring
48-12	72400-519	1	Bell Crank
48-13	16139-304	1	Set Screw
48-14	72400-505	1	Input Shaft
+ 48-15	16003-5	1	O-ring
+ 48-16	16074-106	1	Wiper Seal
48-17	72400-520	1	Headed Pin (press fit)
+ 48-22	16133-8	1	O-ring
48-23	72400-722	1	Adapter Assy., Neutral Lockout
48-24	16006-6	1	Ball
+ 48-25	16003-500	1	O-ring
48-26	72400-546	1	Pin
48-27	102149-019	1	#10-32, Set Screw
48-28	109791-001	1	Neutral Lockout Switch Assy.

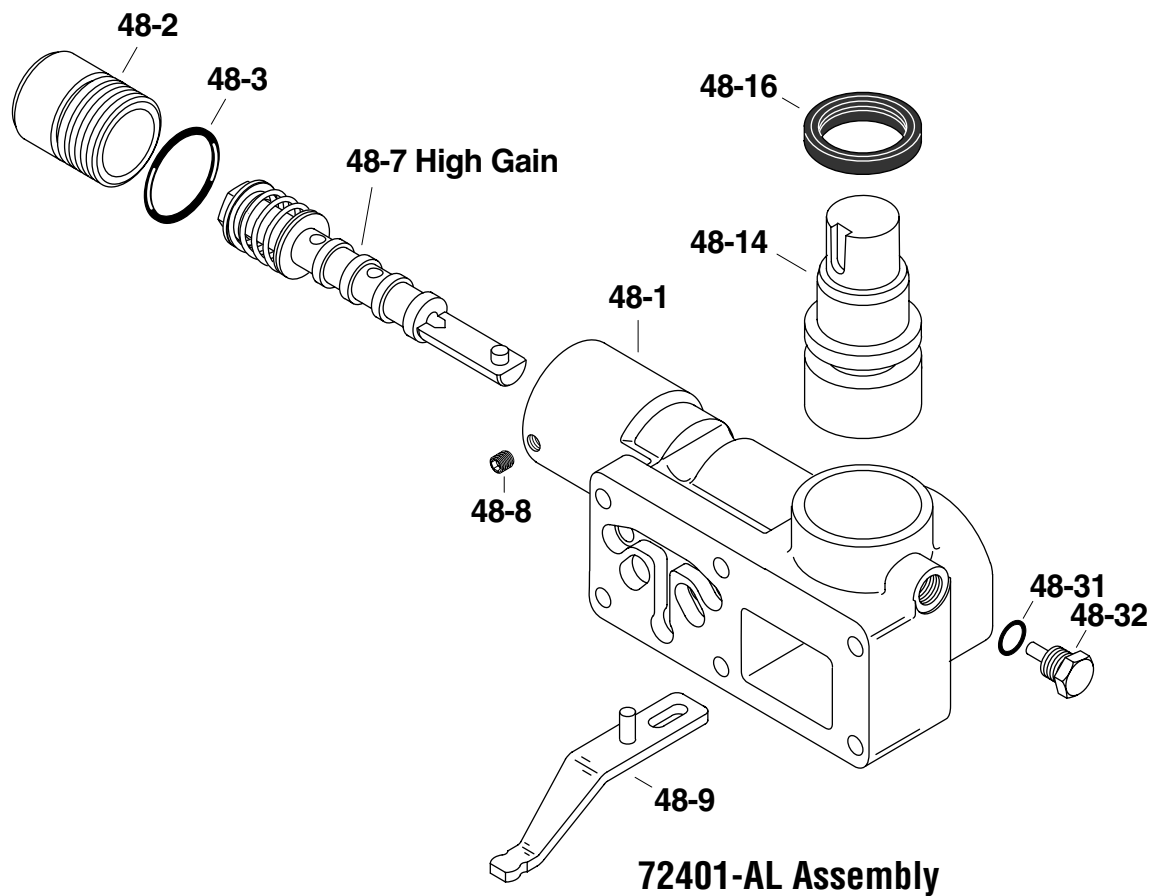
Item 48 -

High - Gain Servo Control Assembly - Parts List

72401-AL

Item	Part No.	Qty	Description
48	72401-AL		Assembly with High Gain Servo Control
48-1	72401-500	1	Control Housing
48-2	72401-505	1	Plug
+ 48-3	16015-8	1	O-ring
48-7	72401-515	1	Valve Spool - High Gain
48-8	102149-019	1	Set Screw
48-9	72401-508	1	Feedback Link Weldment
48-14	72401-502	1	Input Control Shaft
+ 48-15	72401-503	1	Wiper Seal
+ 48-31	16133-2	1	O-ring
48-32	72401-506	1	Plug

+ Included in Seal Repair Kit 72400-915



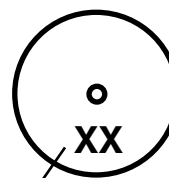
Item 51, 52, or 53 -

Orifice Sizes Available

Item 51,52, or 53

Orifice Sizes Available

Part Number	Hole Dia. mm [inches]
101619-021	0,53 [.021]
101619-028	0,71 [.028]
101619-036	0,91 [.036]
101619-040	1,02 [.040]
101619-044	1,12 [.044]
101619-048	1,22 [.048]
101619-052	1,32 [.052]
101619-057	1,45 [.057]
101619-065	1,65 [.065]
101619-073	1,85 [.073]
101619-094	2,38 [.094]
101619-102	2,59 [.102]



Last two digits
of dash number
stamped on face
of orifice.



Notes: _____

Notes: _____

Eaton
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952 937-9800
Fax: 952 974-7722
www.hydraulics.eaton.com

Eaton
20 Rosamond Road
Footscray
Victoria 3011
Australia
Tel: (61) 3 9319 8222
Fax: (61) 3 9318 5714

Eaton
Dr.-Reckeweg-Str. 1
D-76532 Baden-Baden
Germany
Tel: (49) 7221 682-0
Fax: (49) 7221 682-788



Hydraulics

© 2004 Eaton Corporation
All Rights Reserved
Printed in USA
Document No. E-PUPI-TP004-E
June 2004