

Proportioning Pumps

312068M

ΕN

Proportioning pumps and hydraulic cylinders used on Hydraulic Proportioners. For professional use only. For professional use only.

Not for use in explosive atmospheres.



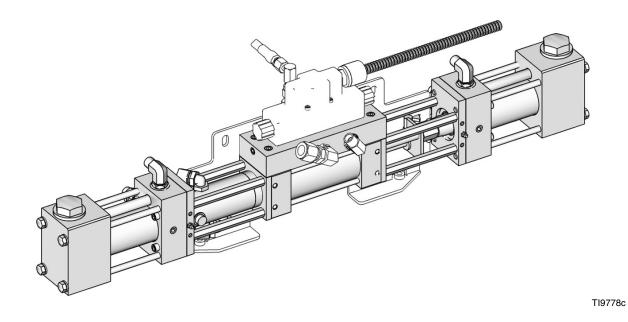
Important Safety Instructions

Read all warnings and instructions in this manual and all supplied manuals. Save all instructions.

Model 247576: 2000 psi (13.8 MPa, 138 bar) Maximum Working Pressure

All other models: 3500 psi (24.0 MPa, 240 bar) Maximum Working Pressure

See page 2 for model information.





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Models

Proportioning Pumps

Part, Series	Cylinder Size
24F291, A	#28
247371, A	#30
247372, A	#40
247373, A	#48
247374, A	#60
247375, A	#80
247577, A	#88
247376, A	#96
247377, A	#120
247576, A	#140

Hydraulic Cylinders

Part, Series
295027

Pumplines

Part, Series	Cylinder Size
288638	#80
288639	#120

In-Plant Pumpline

Part, Series	Cylinder Size
P7758-255773	#80

Repair

Flushing









Flush equipment only in a well-ventilated area. Do not spray flammable fluids. Do not turn on heaters while flushing with flammable solvents.

- Flush out old fluid with new fluid, or flush out old fluid with a compatible solvent before introducing new fluid.
- Use lowest possible pressure when flushing.
- To flush entire system, circulate through gun fluid manifold (with manifold removed from gun).
- Always leave some type of fluid in system. Do not use water.

Pressure Relief Procedure









Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury from splashing or moving parts.

- 1. Select Park on Pump Control Switch if available, or turn off.
- 2. Turn off feed pumps.
- Trigger gun to relieve pressure.
- Close gun inlet valves.
- Close fluid supply inlet valves.
- Service spray gun. See corresponding spray gun manual.

Preventive Maintenance

When pumps are functioning properly, it is not unusual for a trace amount of resin to seep past the pump packing onto the resin pump shaft. Routinely inspect shaft and wipe away any residue when the proportioner is turned off. Disassemble and clean the proportioning pumps annually. For pumpline P7758-255773, disassemble and clean the proportioning pumps every six months. Inspect the pistons and cylinder for marks or scratches, which may cause leakage and damage to packings. Replace all packings, o-rings, and bushings annually. For pumpline P7758-255773, replace these items every six months.

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Pumpline Disassembly

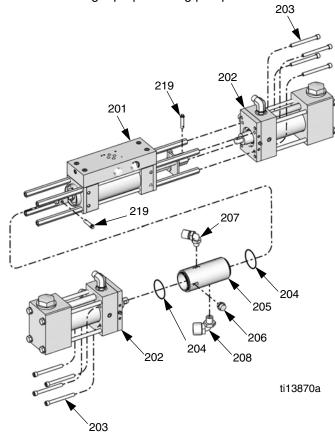






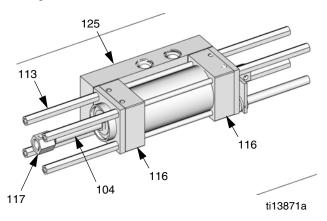


- Remove plug fitting (206) from lube cylinder (205).
- Insert clevis pin removal tool 296607 through opening in lube cylinder (205) and screw tool into left clevis pin (219). Pull clevis pin out of clevis (117).
- 3. Use hex key to remove four socket head cap screws (203) from left proportioning pump (202). Remove left proportioning pump.
- 4. Remove lube cylinder (205).
- 5. Screw pin removal tool 296607 into right clevis pin (219). Pull clevis pin out of clevis (117).
- 6. Use hex key to remove four socket head cap screws (203) on right proportioning pump (202). Remove right proportioning pump.

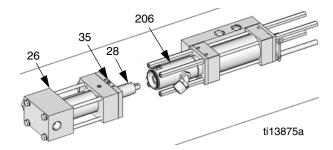


Pumpline Reassembly

- Slide the hydraulic piston (104) in the hydraulic cylinder (201) out to its left-most position. The left end of the left clevis (117) should be nearly in line with the left end of the spacers (113). See the following image.
- Place hydraulic cylinder (201) on flat surface with both the manifold (125) and the port blocks (116) contacting the surface. The two main ports in the manifold should be facing up. See the following image.



- 3. Install elbow fittings (207, 208) into lube cylinder (206) and install lube cylinder over left clevis (117). Ensure clevis pin hole in lube cylinder is vertical, in line with the hole in the left clevis.
- 4. Place left proportioning pump (202) on flat surface with the wide end of the outlet flange (26) facing down.
- Use clevis pin removal tool 296607 to slide the proportioning pump piston rod (28) out to its limit.
 Ensure the hole in the proportioning pump shaft is vertical, in line with the hole in the left clevis and lube cylinder.



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- 6. Attach the clevis pin (219) to the clevis pin tool. Insert clevis pin through hole in lube cylinder and into the left clevis.
- 7. Gently tap end of clevis pin tool with hammer to slide clevis pin (219) into place. Remove clevis pin tool from clevis pin.
- 8. Insert four hex head cap screws (203) through holes in proportioning pump (202) and partially screw into spacers (113) in hydraulic cylinder (201).
- 9. With the four hex head cap screws in place but not tightened, slide the proportioning pump against the hydraulic cylinder.

- Clamp the hydraulic cylinder and proportioning pump assembly to the flat surface so the proportioning pump and hydraulic cylinder will not twist when tightened against each other.
- 11. Tighten the hex head cap screws in a criss-cross pattern.
- 12. Repeat steps 4-11 with the right proportioning pump.
- 13. Install plug fitting (206) into lube cylinder (205).
- 14. Use grease pump to apply grease to grease fittings (35) in proportioning pumps.

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Pump Base Disassembly



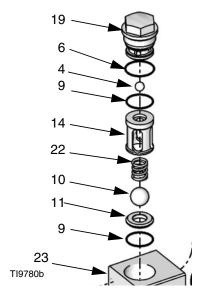






Disassemble and clean pump base annually. For pumpline P7758-255773, disassemble and clean the pump base on every six months.

- Relieve pressure, page 3.
- 2. Turn OFF the main disconnect and lock out power at the source.
- 3. Remove pump cap (19) from pump base (23), and remove o-ring (6):
 - a. Remove outlet ball (4) and o-ring (9).
 - b. Remove inlet ball cage (14), spring (22) and inlet ball (10).
 - c. Remove inlet ball seat (11) and o-ring (9) from bottom of cavity.



- d. Thoroughly clean all metal parts in a compatible solvent and inspect for wear or damage. Inspect each ball and seat for nicks or scratches; replace as required.
- e. Replace all o-rings. Kit 261859 contains all o-rings for pump base rebuild.

Pump Base Reassembly

- Install inlet valve in pump base by inserting o-ring (9), inlet ball seat (11), ball (10), spring (22), and inlet ball cage (14) into pump base cavity. See Parts on page 15.
- 2. Install outlet valve in pump base:
 - a. Install o-ring (9) and valve ball (4) into the cavity.
 - Install the o-ring (6) on pump cap (19). Install and tighten cap to pump base. Torque to 75 ft-lb (101.3 N•m).

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Piston and Cylinder Seals











Piston Seal and Cylinder Seal Repair Kits are available. See Table 1 on page 17 to order the correct kits for your pump. Also see kit manual 312071.

Disassembly

- 1. Relieve pressure, page 3.
- 2. Turn OFF the main disconnect and lock out power at the source.
- 3. Disconnect the pump inlet and outlet lines; see your proportioner repair manual. Remove the four screws (30) holding the pump outlet flange (26) to the hydraulic cylinder. Disconnect pump from drive and take pump assembly to a workbench.
- 4. Remove the four bolts (8) and washers (5). See **Parts** on page 15.
- 5. Remove the flange retainer (27), gasket (17), bushing (13), and throat seal (29).
- Use a soft-faced mallet to help separate pump base (23) and outlet flange (26) from cylinder (12). Remove crossover tube (24)
- 7. Remove piston from cylinder bore. Remove piston cap bolt (25), then slide bushing (18) and u-cup seal (15) from rod.
- 8. Thoroughly clean all parts in a compatible solvent and inspect for wear or damage. Replace as required.

Reassembly

CAUTION

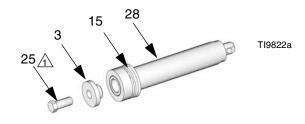
To prevent cross-contamination of the equipment's wetted parts, **never** interchange component A (isocyanate) and component B (resin) parts.

1. Install piston rod seal (15); ensure u-cup faces piston rod (28) as shown in Fig. 1.



Fig. 1: U-Cup Orientation

 Assemble piston bolt (25) to piston rod (28). Apply supplied thread sealant to piston bolt and tighten.
 See Torque Specification table for torque according to pump size.



Apply supplied sealant to threads.

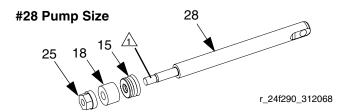
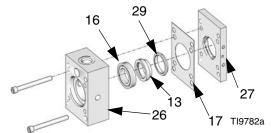


Fig. 2: Piston Head and Rod

Torque Specification

Pump Size	Torque
30	130 in-lb (14.7 N•m)
28, 40, 48, 60	22 ft-lb (29.7 N•m)
80, 88, 96, 120, 140	45 ft-lb (60.8 N•m)

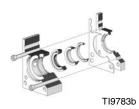
 Using supplied bolts in the cylinder seal kits, press seal (16) into outlet flange (26). Ensure seal faces cylinder. Assemble bushing (13) throat seal (29) and gasket (17) into flange retainer (27) and fasten to outlet flange.



 Ensure plate is parallel with block. Carefully tighten screws until plate is flush with block. Be sure to press seal straight into bore.

Seal Alignment

Pressed Seal





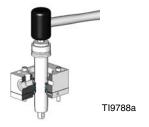
Insert piston rod (28) through throat seal (29) on front of block. Use grease to aid with insertion if needed.



6. Place assembly in a vise, and tap piston rod (28) through throat seal (29) and bearing.

CAUTION

Keep rod straight to prevent damage to throat seal.



- 7. Lubricate and assemble o-rings (1) to cylinder (12).
- Tap cylinder (12) onto piston rod (28) as shown in the following figure. Be careful to not score piston seal. Continue tapping cylinder until it seats in bore of outlet flange (26).

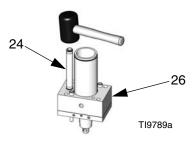
Use grease to aid in insertion of cylinder onto piston rod.



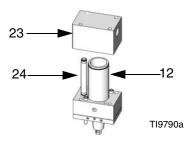
Cylinder Assembly

Seat Cylinder in Bore

 Lubricate and assemble o-rings (2) to crossover tube (24). Insert crossover tube into outlet flange (26). Softly tap crossover tube into bore until it seats.



 Carefully align cylinder (12) and crossover tube (24) to bores in pump base (23). Tap pump base until the cylinder is fully seated in bore.



11. Install four bolts (8) and washers (5). Torque to 45 ft-lb (60.8 N•m).

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Hydraulic Cylinder











For repairs, order Hydraulic Cylinder Repair Kit 296785.

Disassembly

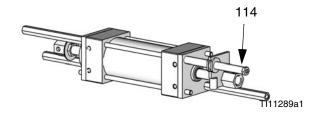
Tools Required

- Two 1 in. open-end wrench
- Two 1/2 in. open-end wrench
- O-ring pick
- 1. Relieve pressure, page 3.
- 2. Turn OFF the main disconnect and lock out power at the source.

CAUTION

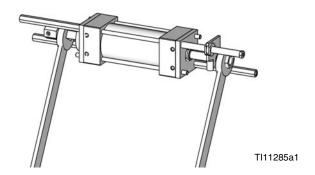
In the following step, attach the clamps to the port blocks of the assembly. Attaching clamps to any other part of the assembly may result in significant damage when breaking loose the baffle jam nut and clevis.

- Clamp the hydraulic cylinder to a flat surface using c-clamps or another strong clamping device, ensuring that the cylindrical spacer (114) is to the right.
- 4. Using the 1/2 in. open-end wrenches, loosen and remove four hexagonal spacers (113) to create room to rotate the clevises.



The clevises and the baffle jam nut were installed with high strength thread sealant. The following steps will require significant force to break loose the baffle jam nut and clevises.

5. Using the 1 in. open-end wrench and the 1 in. impact wrench, rotate the baffle jam nut away from the right clevis until one of them breaks loose.



If the left clevis and baffle jam nut break loose from the hydraulic piston shaft:

- 6. Remove the clevis and baffle jam nut.
- 7. Remove the lubricator adapter (120).
- 8. Loosen and remove the remaining hex spacers (113) and smooth spacer (114), keeping the tie rods in place.
- 9. Remove the left retainer plate (101).
- 10. Remove the tie rods (115).
- 11. Remove the left port block and rod bushing assembly.
- 12. Slide the piston and everything attached to it out the right side of the cylinder by holding the assembly by the cylinder and pushing the left end of the piston shaft against a flat surface.
- 13. Using a c-clamp, secure the port block (116) of the remaining assembly.
- 14. Keeping the piston shaft from rotating using a 1/2 in. wrench on the piston shaft flats and using a 1 in. impact wrench on the right clevis, break loose and remove the right clevis.
- 15. Remove the activator plate (119) and modified bushing (118).
- 16. Remove the retainer plate (101).

- 17. Remove the right port block and rod bushing assembly.
- 18. Remove the rod bushings (103) from the port blocks (116).
- 19. Using the o-ring pick, remove all rings and seals.

If the right clevis breaks loose from the hydraulic piston shaft:

- 6. Remove the right clevis.
- 7. Remove the activator plate (119) and modified bushing (118).
- 8. Remove the right retainer plate (101).
- 9. Remove the tie rods (115).
- 10. Remove the right rod bushing and port block assembly.
- 11. Slide the piston and everything attached to it out the left side of the cylinder by holding the assembly by the cylinder and pushing the right end of the piston shaft against a flat surface.
- 12. Using a c-clamp, secure the port block (116) of the remaining assembly.
- 13. Break the baffle jam nut (122) loose from the hydraulic piston shaft.
- 14. Keeping the piston shaft from rotating using a 1/2 in. wrench on the piston shaft flats and using a 1 in. impact wrench on the left clevis, break loose and remove the left clevis.
- 15. Remove the left retainer plate (101).
- 16. Remove the left port block and rod bushing assembly.
- 17. Remove the rod bushings (103) from the port block (116).
- 18. Using the o-ring pick, remove all rings and seals.

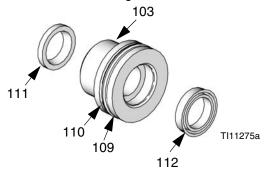
Reassembly

Tools Required

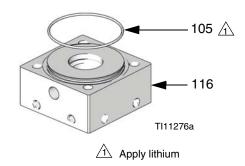
- Torque wrench set to 15 ft-lb (20 N•m) with 1 in. open-end attachment and 1/2 in. socket attachment
- 1 in. open-end wrench
- 1/2 in. open-end wrench

Assemble Rod Bushing to Port Block

- 1. Insert black o-ring (109) into the outside groove of rod bushing (103).
- 2. With the wide end of the rod bushing facing down, insert white back-up ring (110) above o-ring (109) in the same groove.
- With the lip facing out, push one rod wiper (111) into the small end and one shaft seal (112) into the big end of the rod bushing.



- 4. Place port block (116) on a flat surface with the large opening facing up.
- 5. Using your hands, push the wide end of the rod bushing into port block (116).
- 6. On the side opposite the rod bushing, place o-ring (105) around the extruding circle.

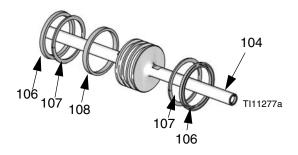


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7. Repeat the steps above to assemble the second rod bushing/port block assembly.

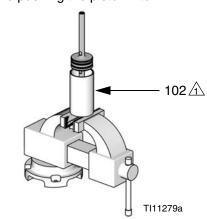
Assemble Hydraulic Piston and Insert in Cylinder

- 8. Place wear ring (108) in the center channel of hydraulic piston (104).
- 9. With the lip facing away from the center channel, place one u-cup seal (106) in each of the remaining two channels of the hydraulic piston.
- Place one back-up ring (107) in the same channel as each of the u-cup seals on the side facing the center channel.



Insert Piston into Cylinder

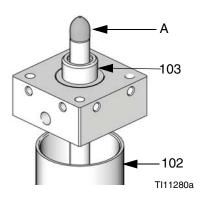
11. Slide the hydraulic piston into the cylinder (102). If necessary, rest the cylinder on a vise or similar surface while pushing the piston into it.



Apply lithium grease to the inside of each end of the cylinder.

Assembling Items onto Piston Shaft

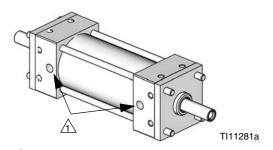
12. With the rod bushing (103) facing away from the cylinder (102), slide the port block and rod bushing assembly over the rod tool and onto the shaft.



13. Repeat with the other port block on the opposite end of the hydraulic piston shaft.

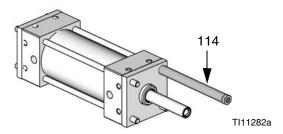
Attaching Retainer Plates and First Four Spacers

- Place the assembly on a flat surface with the port hole on the two port blocks facing the same direction.
- 15. Slide one retainer plate over the end of each port block.
- 16. Insert one tie rod into each of the four holes in the port blocks and retainer plates. Keep an equal amount of threads showing through the retainer plate on each side.
- 17. Rotate the assembly so that the port holes are now facing in towards your body and place the assembly on a flat surface.



Make sure the port holes are facing in towards your

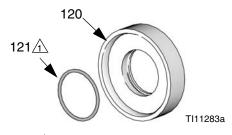
18. Using the far, top tie-rod, attach cylindrical spacer (114) to the right side of the assembly.



- 19. Attach one hexagonal spacer (113) to the other end of the tie rod. Do not tighten.
- 20. Attach one hexagonal spacer to each end of the bottom, near tie-rod. Do not tighten.
- In the following step, the port holes need to be facing down, with the cylindrical spacer (114) facing right.
- 21. Secure the assembly to a flat surface using two c-clamps, or other strong clamping devices, to prevent the assembly from twisting. The assembly will remain secured to the flat surface for the remainder of the assembly procedure.
- 22. With the assembly secured, torque the spacers against each other to 15 ft-lb (20 N•m).

Installing Lube Adapter

23. Push o-ring (121) into the inside groove of the cylinder lube adapter (120).

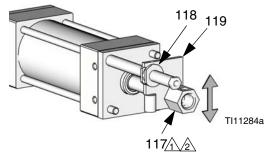


Apply lithium grease to the o-ring.

24. With the lip of the adapter facing left, slide the adapter onto the left end of the hydraulic piston shaft.

Installing Hex Clevises and Baffle Jam Nut

- 25. With the hex-side of the baffle jam nut facing away from the hex-head of the clevis, spin the baffle jam nut (122) onto the hex clevis (117). Leave one to two threads between the head of the clevis and the nut.
- 26. Apply high strength thread sealant (124) to the threads of both hex clevises (117).
- 27. Apply primer (123) to the threads with the thread sealant.
- 28. Attach modified bushing (118) to the activator plate (119).
- 29. Insert the clevis (117) without the baffle jam nut (122) into the corner hole of the activator plate (119).
- 30. Slide the modified bushing over the cylindrical spacer (114) and screw the clevis (117) into the right end of the hydraulic piston shaft (104).
- 31. Spin the clevis (117) and baffle jam nut (122) onto the left end of the hydraulic piston shaft finger-tight, ensuring a gap of one to two threads between the baffle jam nut and the head of the left clevis.
- 32. Rotate the right clevis until the cross-holes form a vertical line.



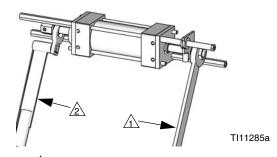
 \triangle Apply high strength thread sealant to threads of both hex clevises.

 $\angle 2$ Apply primer to the threads with the thread sealant to speed curing.

CAUTION

In the following step, do not over torque.

33. Hold the right clevis stationary with a 1 in. open-end wrench and, by turning the baffle jam nut with a 1 in. torque-wrench, torque the right clevis to 15 ft-lb (20 N•m) against the activator plate.

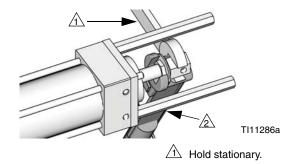


1 Hold stationary.

Rotate to torque the right clevis.

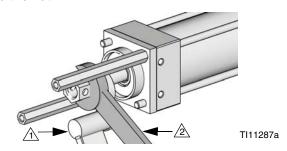
In the following step, do not unscrew the left clevis more than necessary.

34. Hold the left clevis stationary with a 1 in. wrench and break the baffle jam nut loose from the hydraulic piston shaft.



Rotate to break baffle jam nut loose from piston shaft.

35. Hold the baffle jam nut stationary and rotate the left clevis so the cross-holes form a horizontal line, keeping one to two threads between the clevis head and the nut.



hold baffle jam nut stationary.

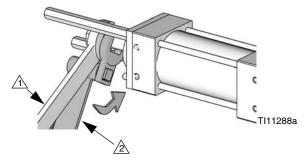
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Rotate to position cross-holes in a horizontal line.

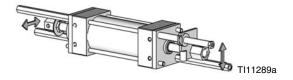
CAUTION

In the following step, do not over torque.

36. Hold the left clevis stationary with a 1 in. open-end wrench to keep the cross-holes horizontal and torque the baffle jam nut against the hydraulic piston shaft to 15 ft-lb (20 N•m) using a torque wrench.



- 1 Hold stationary.
- Rotate to torque the baffle jam nut to 15 ft-lb (20 N•m) against the hydraulic piston shaft, which torques the left clevis
- 37. Double check that the left clevis cross-holes are horizontal and the right clevis cross-holes are vertical.



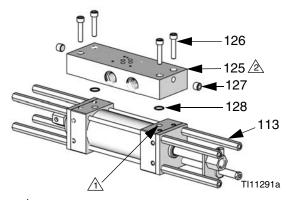
Installing Final Four Spacers

38. Preventing the tie rod (115) from spinning with one hand, spin one spacer (113) onto one end until it

butts against the retainer plate (101). Repeat for opposite end of tie rod.

Assembling Manifold

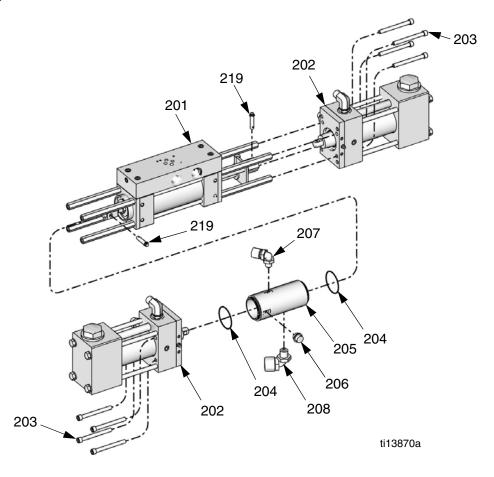
- 39. Insert pipe plugs (127) into manifold (125).
- 40. Insert o-rings (128) into bottom holes of manifold.
- 41. With the port holes facing the manifold, attach the manifold to the port blocks using the four screws (126).



- Have the port holes facing the manifold.
- On Model 247624, rotate manifold 180 degrees about the vertical axis.
- 42. Hold one spacer with the 1/2 in. open-end wrench and the other with the 1/2 in. torque wrench and torque to 15 ft-lb (20 N•m).
- This ensures that the manifold is aligned with the pump assembly.
- 43. Repeat with the final two spacers.

Parts

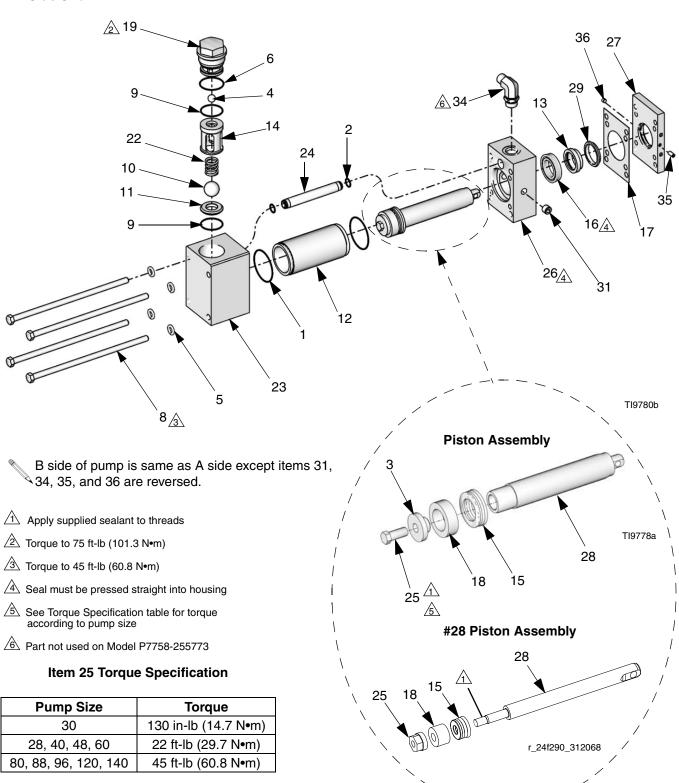
Pumpline



		Pumpline Assembly				
Ref	Description	288638	288639	P7758-255773	Qty	
201	CYLINDER, hydraulic	295027	295027	247624	1	
202	PUMP, proportioner	247375	247377	247375	2	
203	SCREW, cap, socket head	295824	295824	0204-5	8	
204	PACKING, o-ring	106258	106258	106258	2	
205	CYLINDER, lube	261863	261863	261863	1	
206	FITTING, plug	295829	295829	295829	1	
207	FITTING, elbow, 90 degree	295826	295826	295826	1	
208	FITTING, elbow, 90 degree	295397	295397	295397	1	
219	PIN, clevis	296653	296653	296653	2	

Piston and Cylinder Seals

A Side Shown



Ref. 1 ☆ 2 ☆ 3◆	Part	Description O-RING, PTFE O-RING, TPE	Qty 2 2	16≖ 17≖ 18≉ 19	261867	SEAL, throat, u-cup GASKET BUSHING, piston, acetal CAP, ball guide	1 1 1 1
4	105445	CAP, piston BALL, valve, outlet, SST; 1/2 in. (13	1	22 23	261897 261903	SPRING, valve PUMP, base	1
5	261866	mm) diameter WASHER, flat, packing support (4 pack)	1	24 25*		TUBE, crossover SCREW, hex hd cap	1
6 \$ 8	261865	O-RING, PTFE SCREW, hex hd cap; 3/8-24 x 9.0	1	26 ♦ 27 28 ♦	261875	ROD, piston; includes cap (ref. 3)	1 1 1
9 ☆ 10	107167	in. (228 mm) (4 pack) O-RING, PTFE BALL, valve, inlet, SST; 1 in. (25	2 1	29 ♦ 31 34	295225 121312	ADAPTER, throat PLUG, pipe, flush ELBOW, 3/4-16 unf x 1/2 in. (13	1 1 1
11 12 ♦	193395	mm) diameter SEAT, ball, inlet, carbide CYLINDER	1 1	35	295229	mm) O.D. tube (not used on Model P7758-255773) FITTING, grease; 1/4-28	1
13 ≖ 14	261899	BUSHING, throat, acetal GUIDE, inlet ball, with outlet ball	1 1	36		SCREW, set; 1/4-28 x 3/16 in.	1
15*		seat SEAL, piston, u-cup	1	∗ Re	efer to Tab	ole 3 for part number.	
		, , <u>-</u>		🏚 Pa	arts includ	ed in Kit 261859 (purchase separately)).

- ◆ Refer to Table 1 for part number.

Table 1. Proportioning Pump Parts

	Pump Sizes and Part Numbers									
	#28	#30	#40	#48	#60	#80	#88	#96	#120	#140
Part Ref.	24F291	247371	247372	247373	247374	247375	247577	247376	247377	247576
3	16F204	261889	261886	261886	261886	261883	261883	261883	261883	261883
12	24F294	261896	261895	261894	261893	261892	247582	261891	261890	247583
26	261902	261902	261902	261902	261902	261901	261901	261901	261901	261901
28	16F202	261882	261881	261880	261879	261878	247584	261877	261876	247585
29	261874	261874	261873	261872	261871	261870	247586	261869	261868	247587

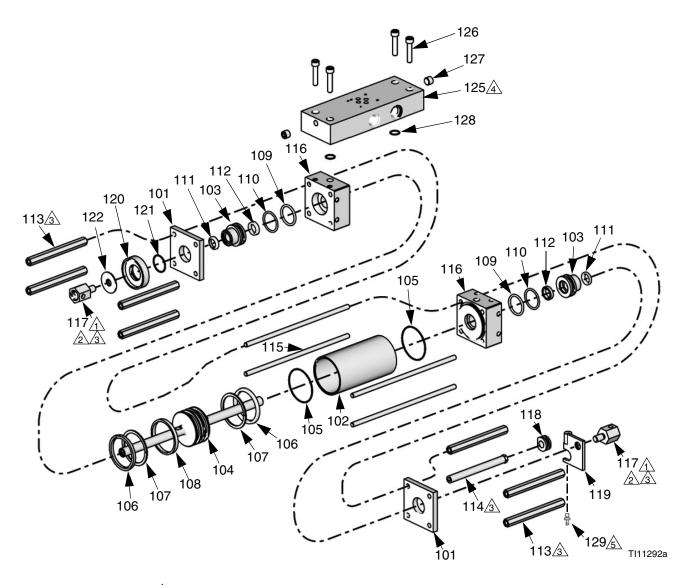
Table 2. Cylinder Seal Kits; Includes Parts 13, 16, 17

Pump	Proportioning Pump Size	Kit
24F291	28	261858
247371	30	261858
247372	40	261857
247373	48	261856
247374	60	261855
247375	80	261854
247577	88	247580
247376	96	261853
247377	120	261852
247576	140	247581

Table 3. Piston Seal Kits; Includes Parts 15, 18, 25

Pump	Proportioning Pump Size	Kit
24F291	28	24F292
247371	30	261851
247372	40	261850
247373	48	261849
247374	60	261848
247375	80	261847
247577	88	247578
247376	96	261846
247377	120	261845
247576	140	247579

Hydraulic Cylinder



- Apply high strength thread sealant to threads.
- Apply primer to threads to speed curing.
- Torque to 15 ft-lb (20 N•m). See assembly section for correct procedure.
- On Model 247624, rotate manifold 180 degrees about the vertical axis.
- Part used only on Model P7758-255773.

Ref.	Part	Description	Qty.
101	295029	PLATE, retainer	2
102	295030	CYLINDER	1
103◆	295031	BUSHING, rod	2
104	296642	PISTON, hydraulic	1
105◆	295640	O-RING	2
	295641	SEAL, u-cup	2
	295642	RING, back-up	2
	296643	RING, wear	1
	158776	PACKING, o-ring	2
	295644	RING, back-up	2
	295645	WIPER, rod	2 2 1 2 2 2 7
	296644	SEAL, shaft	2
113			
114		- ,	1
115		ROD, tie	4
116 117		BLOCK, port	2
117		CLEVIS, hex, proportioner BUSHING, modified	2 1
110	201002		1
		(used on Models 247624, 255723., 295027)	ı
	1501-7-9	255725., 255027)	
	1301-7-2	(used on Model P7758-255773)	
119	261507	PLATE, activator	1
110	201007	(used on Model 295027)	•
	12130-1	PLATE, activator	1
	42400-4	(used on Model P7758-255773)	•
	247607	•	1
	247007	(used on Model 255723)	1
120	261863	,	1

Ref.	Part	Description	Qty.
121	177156	O-RING	1
122	295852	NUT, jam, baffle	1
123		SOLVENT, catalyst, liquid	1
124		SEALANT, anaerobic	1
125	298040	MANIFOLD, hydraulic	1
126	113467	(used only on Model 247624) SCREW, cap, socket head	4
120	113407	(used only on Model 247624)	4
127	295225	PLUG, pipe, flush	2
128	112793	(used only on Model 247624) O-RING	2
		(used only on Model 247624)	_
129	OP307-2 PIN, link		1
	-1000	(used only on Model	
		P7758-255773)	
130	296653	,,	2
		(used only on Model 255723)	

◆ Parts are also included in Hydraulic Cylinder Repair Kit 296785 which can be purchased separately.

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Technical Data

Category	Data
Maximum working pressure	Model 247576: 2000 psi (13.8 MPa, 138 bar) All other models: 3500 psi (24.0 MPa, 240 bar)
Maximum fluid temperature	120°F (49°C)
Viscosity range	250-1500 centipoise
Maximum material inlet pressure	400 psi (2.7 MPa, 27 bar)
Wetted parts	Carbon Steel, Stainless Steel, Chrome, PTFE, Acetal, UHMWPE

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