

Old Seal Kits

312348B

To replace proportioning pump piston seal sets or cylinder seal sets used on Gusmer and Old Graco H-25 and H-XP2 Hydraulic Proportioners.



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Piston Seal Kits for A-Side and B-Side Pumps

Parts with a checkmark () in the following table are included in the kits.

A						
Before beginning, follow the Pressure Relief Proce-						
dure in proportioning pump manual 311391.						

Proportioning Pump Size	Kit Part No.	A (Piston Seal Wiper Ring)	B (Wear Ring)	C (Piston Seal Support)	D (Piston Seal)	E (Piston Support Washer)	Fig.
28	261756	/					2
40	261726	~		~			2
44	297845	~	~	~	/	297184	1
48	261729	~		✓			2
60	261732	~		~			2
80	298013	~		✓			2
96	297848	~	~	✓	~	295279	1
104	261753	~		/			2
120	298011	~		~			2

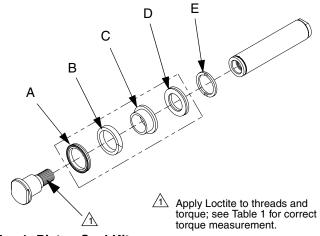


Fig. 1: Piston Seal Kit

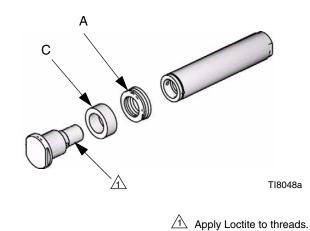


Fig. 2: Piston Seal Kit

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Cylinder Seal Kits for A-Side Pumps

Parts with a checkmark () in the following table are included in the kits.

A					
Before beginning, follow the Pressure Relief Proce-					
dure in proportioning pump manual 311391.					

Proportioning Pump Size	Kit Part No.	A (Cylinder Seal)	C (Gasket)	D (Bearing)	* E (Outlet Flange)	* F (Retainer Flange)	* G (Adapter Ring)
40	261724	~	/	~	295064	295159	295243
60	261730	~	~	/	295066	295159	295244
80	261733	~	~	~	296803	295159	295245
96	297871	~	/	~	295069	295159	295247
104	261754	~	~	/	295070	295159	295248
120	298010	~	~	~	295072	295159	

^{*} Not included in kit.

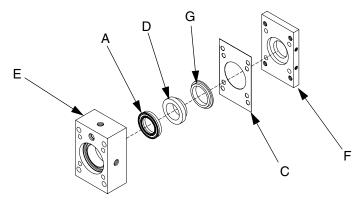


Fig. 3: Cylinder Seal Kit for A-Side Pumps

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Cylinder Seal Kits for B-Side Pumps

Parts with a checkmark (\checkmark) in the following table are included in the kits.

A					
Before beginning, follow the Pressure Relief Procedure in proportioning pump manual 311391.					

Proportioning Pump Size	Kit Part No.	A (Cylinder Seal)	B (Grease Bushing)	C (Gasket)	* E (Outlet Flange)	* F (Retainer Flange)
28	261757	~	~	~	295142	295074
40	261725	~	~	~	295064	295076
48	261728	~	~	~	295065	295078
60	261731	~	~	~	295066	295079
80	261734	~	~	✓	296803	295080
104	261755	~	~	/	295070	295083
120	261735	~	~	✓	295072	295085

^{*} Not included in kit.

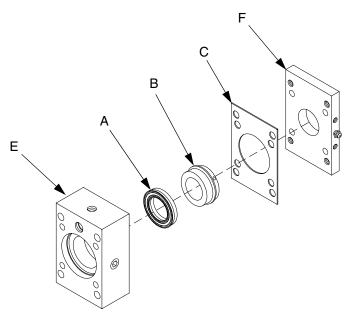


Fig. 4: Cylinder Seal Kit for B-Side Pumps

Piston Kit Installation

1. Install piston rod seal; ensure u-cup faces piston rod as shown in Fig. 5.



Fig. 5: U-Cup Orientation

 Assemble piston head to piston rod. Apply Loctite to threads and torque piston head according to Table 1.



Apply Loctite to threads.

FIG. 6: Piston Head and Rod

Pump	Torque (ft-lbs)
28	10
40	22
44	22
48	22
60	38
80	38
96	38
104	38
120	55

Table 1: Torque Specification

Press throat seal into block using back plate and supplied screws. Ensure u-cup faces cylinder. Assemble back plate with the small bore facing the seal.

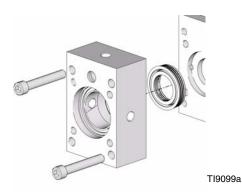


Fig. 7: Seal Orientation

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

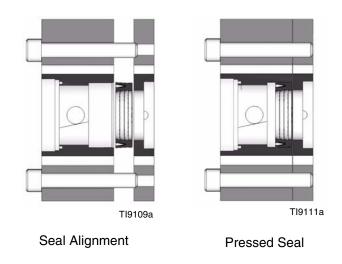


Fig. 8: Seal Alignment

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5. Softly tap seal into bore until it bottoms out.



Fig. 9: Tap Seal

 Insert bushing into bore; make sure larger outside diameter faces seal and smaller outside diameter faces plate.



Grease Hole

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Fig. 10: Insert Bushing

- 7. Assemble gasket and back plate to block using supplied screws.
- For A-side pumps that are 80 or smaller, a plate adapter is required.

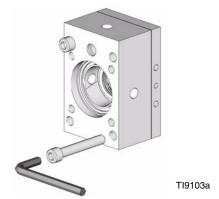


Fig. 11: Assemble Gasket and Back Plate

- Assemble throat seal installation tool on to end of piston rod.
- Clevis end of piston rod may need to be removed to perform this step.

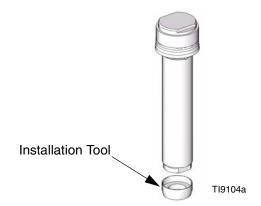


Fig. 12: Throat Seal Installation Tool

9. Insert piston rod and seal tool through throat seal on front of block.



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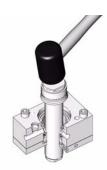
Fig. 13: Insert Rod through Throat Seal

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10. Place assembly on a spacer, such as a two inch wide roll of tape, and tap piston rod through throat seal and bearing.

CAUTION

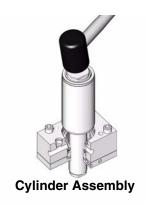
Keep rod straight to prevent damage to throat seal.



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Fig. 14: Tap Piston Rod

- 11. Tap cylinder onto piston rod as shown in Fig. 15. Be careful to not score piston seal. Continue tapping cylinder until it seats in bore of block.
- Use grease to aid in insertion of piston rod into cylinder.



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Fig. 15: Tap Cylinder onto Piston Rod

- 12. Once cylinder is seated in bore, remove two socket head set screws from block and plate assembly.
- 13. Assemble cylinder and block assembly to remaining pump components. See Proportioning Pumps manual 311391 for instructions.

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