

# Throat Seal Upgrade Kits

406878D  
EN

**To upgrade older 2000cc, 3000cc, and 4000cc High-Flo Plus Lowers that have torqueable throat packings and an open wet-cup to spring loaded throat packings and an open wet-cup.  
See List of Kit Part Numbers below.**



**Important Safety Instructions**

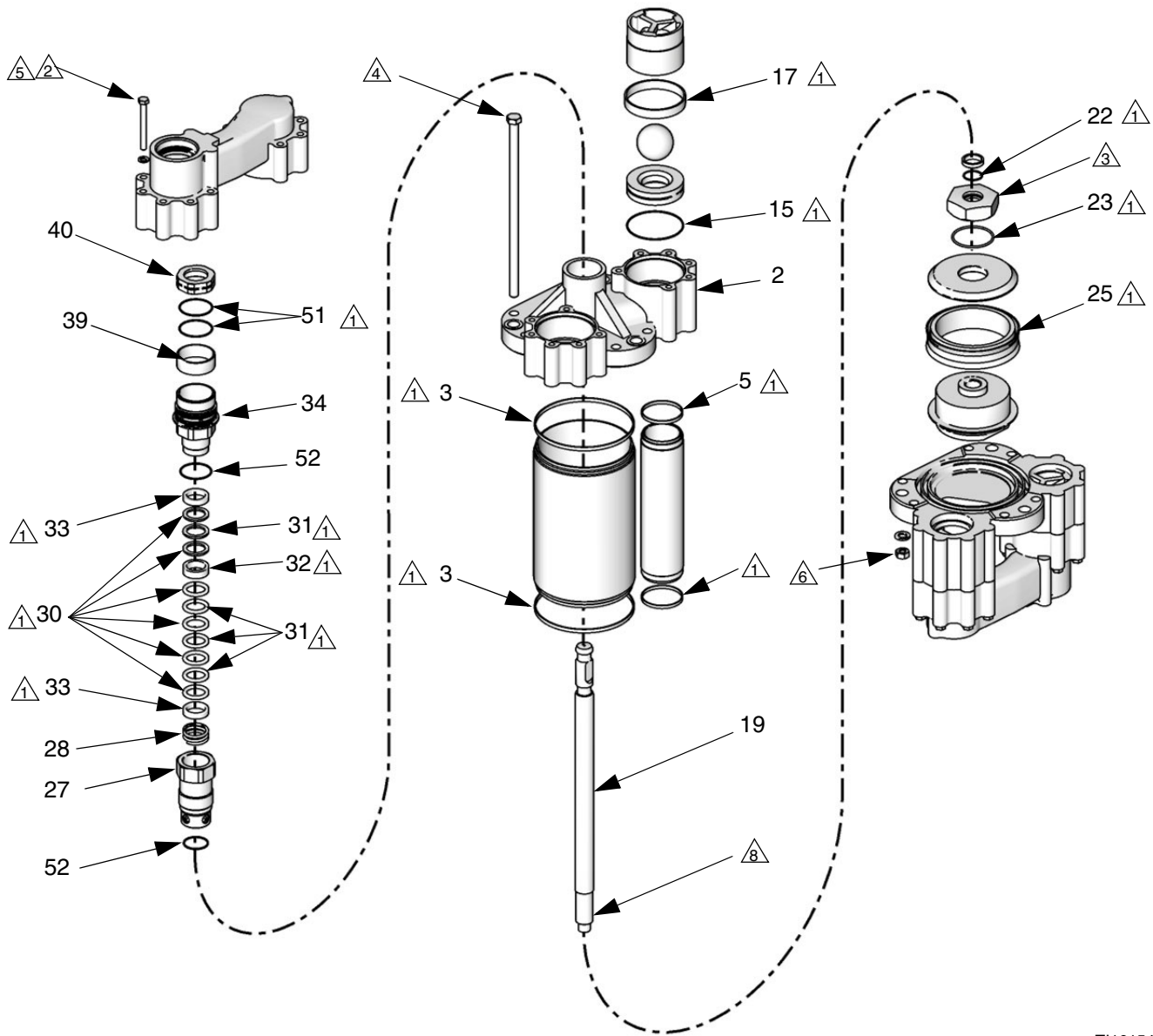
Read all warnings and instructions in this manual and in your 4-Ball pump manual 3A0540. Save all instructions.

**NOTE:** Use these kits to upgrade the following lowers. A Shield Kit is also required; see manual 406876 to order the correct kit for your pump.

Kit	Lower
24H352 (SST)	243734 (2000cc)
	243771 (2000cc)
	248329 (2000cc)
	248332 (2000cc)
24F287 (SST)	243735 (3000cc)
	243772 (3000cc)
	248330 (3000cc)
	248333 (3000cc)
	240591 (3000cc)
	240592 (3000cc)
24H356 (SST)	243736 (4000cc)
	243773 (4000cc)
	248331 (4000cc)
	248334 (4000cc)
24H353 (CST)	243731 (2000cc)
24F288 (CST)	243732 (3000cc)
24H357 (CST)	243733 (4000cc)

**NOTE:** See page 2 for drawing of pump assembly showing kit parts and location.

Ref.	Description	Qty
2	HOUSING, outlet	1
3	GASKET, cylinder	2
5	O-RING	4
15	O-RING; ptfе	2
17	SEAL, seat; UHMWPE	2
19	ROD, piston	1
22	O-RING; ptfе	1
23	O-RING; ptfе	1
25	PACKING, piston; UHMWPE	1
27	CARTRIDGE, packing, throat	1
28	SPRING	1
30	V-PACKING; UHMWPE	6
31	V-PACKING; leather	4
32	GLAND, female	1
33	GLAND, male	2
34	WET-CUP	1
39	SPACER	1
40	COVER, wet-cup	1
51	O-RING	2
52	O-RING; ptfе	2



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- ① Apply lubricant to all packings.
- ② Apply removable (blue) Loctite® 243 to entire length of threads. Sealant must be allowed to cure for a minimum of 12 hours before use.
- ③ Torque to 200-210 ft-lb (270-285 N•m).
- ④ Apply thread lubricant.
- ⑤ Torque to 18-20 ft-lb (24-27 N•m).
- ⑥ Tighten uniformly until cylinder is seated then torque to 60-65 ft-lb (81-88 N•m).
- ⑧ Apply high strength (red) Loctite® 263 or 2760 to entire length of threads. Sealant must be allowed to cure for a minimum of 12 hours before use.

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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