

REPAIR KIT

SBGRKXXXX

PULSATION DAMPENER ELASTOMER AND PTFE BLADDER REPAIR KIT

 RELEASE: 6-12-26
(REV: A)

REPAIR KIT DESCRIPTION CHART

SBGRK X XX X	
Inlet Size	
1 - 1 inch	
Volume	
08 - 80 cubic inches	
12 - 125 cubic inches	
Diaphragm Material	
E - EPDM	
H - Hypalon®	
T - PTFE	

REPAIR KIT NO	Items Included
SBGRK108E	Large bladder - EPDM
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap hex nut
	1/4-20 Flat washer
SBGRK112E	Large bladder - EPDM
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap hex nut
	1/4-20 Flat washer
SBGRK108H	Large bladder - Hypalon®
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap Hex Nut
	1/4-20 Flat Washer
SBGRK112H	Large bladder - Hypalon®
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap hex nut
	1/4-20 Flat washer
SBGRK108T	Large bladder - PTFE
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap hex nut
	1/4-20 Flat washer
SBGRK112T	Large bladder - PTFE
	1/4-20 X 1-3/8" SHSX 18-8 SS bolt
	1/4-20 Cap hex nut
	1/4-20 Flat washer

SERVICE PROCEDURE

⚠ WARNING CRITICAL - DEPRESSURIZE. Stored pressure can release bladder and hardware causing serious injury or death. Confirm gauge reads 0 psi. Wear personal PPE as needed when servicing.

⚠ WARNING PTFE COLD FLOW — RE-TORQUE REQUIRED. PTFE bellows relax under load. Initial torque WILL NOT hold. Re-torque at 24 hours, 1 week, and quarterly. Depressurize before service.

PN 97999-2186

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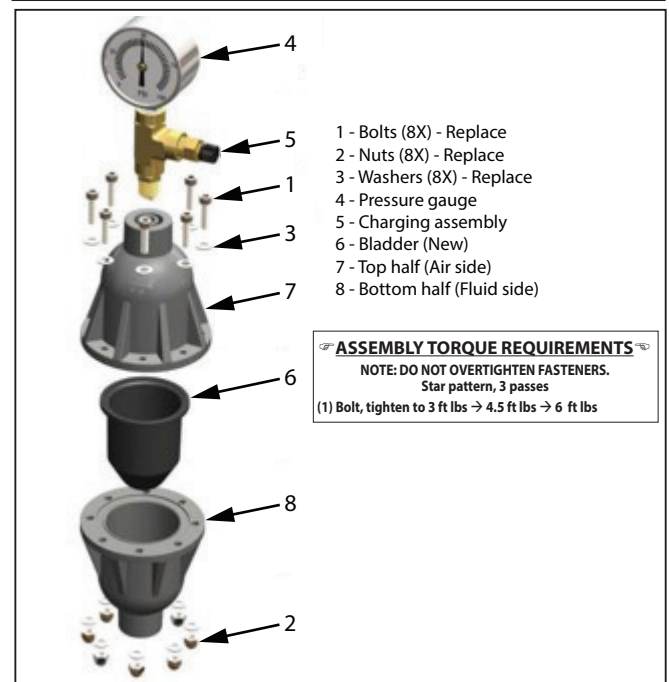
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EXPLODED VIEW



- PREPARE** - Wear personal PPE as needed when servicing. Shut down feed pump. Bleed pressure to zero.
- DISCHARGE** - Release air through charging valve. Verify dampener gauge reads 0 psi.
- ISOLATE & DRAIN** - Close isolation valves. Disconnect. Drain fluid into approved containment.
- DISASSEMBLE** - Mark alignment. Loosen 8 bolts in REVERSE star pattern. Lift top half. Discard old bladder.
- INSPECT** - Check both halves for cracks, scoring, chemical attack. Inspect O-ring groove and seat.
- CLEAN & LUBE** - Clean both halves. Apply NON-SILICONE lubricant to seat on both halves.
- INSTALL BLADDER** - Verify P/N matches chemistry. Place in bottom (fluid) half. Confirm O-ring fully seated.
- REASSEMBLE** - Use ONLY new bolts, washers, nuts from kit. Hand-tighten all 8 before torquing.
- TORQUE** - Star pattern, 3 passes: 3 → 4.5 → 6 ft-lb final.
- PRE-CHARGE and TEST** - Reinstall. Pre-charge to 80% pump discharge with air/N₂ - NEVER oxygen. Soapy water leak test.
- RETURN TO SERVICE** - Confirm 80% pre-charge. Replace cap. Open valves. Start pump. Observe gauge stabilization.

Steps 12 & 13 only applies to PTFE Bladder.

- NOTE: 24-HR RE-TORQUE** - PTFE has relaxed. Depressurize per Step 1. RE-TORQUE all 8 bolts to 6 ft-lb. Re-pressurize and leak test.
- NOTE: 1-WK & QUARTERLY** - Repeat re-torque at 1 week. Verify quarterly during PM; re-torque to 6 ft-lb if loose.

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