



CHEMLINE 760 DIAPHRAGM VALVE

Installation Manual

MAINTENANCE INSTRUCTIONS For Chemline 760 (formerly NDV) Series Manual Diaphragm Valve Sizes 1/2" - 4"

Maintenance (all sizes)

Refer to **ASSEMBLY DRAWING NDV1 REV 0.** And proceed as follows:

1. Remove protective cap (12), bolt (11) and washer (10).
2. Remove handwheel (1) from bonnet (2).
3. Draw stem (5) out from security ring (4) and compression bearing (3).
4. Disconnect position indicator (5A) from top of stem (5).
5. At bottom of stem remove pin (7) and compressor (6).
6. Unscrew process diaphragm (8) from compressor (6).
7. Lift off process diaphragm (8) from body of valve (9).
8. Inspect all parts for wear and abrasion.
9. Replace parts if necessary.
10. Before re-assembling valve, lubricate stem (5) with Dow Corning III silicone or equivalent.
11. To re-assemble valve follow steps 1 through 7 in reverse, tightening to the bolt torque recommended in the chart below.

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Maintenance Instructions 760 Manual diaphragm Valve cont.

IMPORTANT When re-assembling valve ensure that holes in lower part (18) of valve, diaphragm (24) and cover (3) are in line. When tightening diaphragm, if it stops turning before its tab lines up with the one on the cover, unscrew diaphragm totally until it backs off one screw thread, then retighten. The tab should now line up with the one on the cover.

Maintenance (all sizes)

VALVE SIZE	DIAPHRAGM BOLT	MATERIAL TORQUE	(IN-LB)
	EPDM	Viton	Teflon
1/2	44	44	44
3/4	44	44	44
1	44	44	44
1-1/4"	80	80	106
1-1/2"	80	80	106
2	124	124	159
2-1/2"	354	354	443
3"	354	354	443
4"	266	266	354

Exploded view diagram of a 760 Diaphragm Valve assembly. The diagram shows the following components with their respective callout numbers:

- 1: Handwheel
- 2: Bonnet
- 3: Comp. Bearing POM
- 4: Security Ring Brass
- 5: Stem
- 5(3): Pos. Indicator Plastic
- 6: Compresor
- 7: Pin
- 8: Process Diaph. Various
- 9: Valve Body Various
- 10: Washer
- 11: Bolt
- 12: Protective Cap PE

PART DESCRIPTION MATERIAL	
1	HANDWHEEL PP/GLASS
2	BONNET PP/GLASS
3	COMP. BEARING POM
4	SECURITY RING BRASS
5	STEM S.S.
5(3)	POS. INDICATOR PLASTIC
6	COMPRESSOR PAMXD6
7	PIN S.S.
8	PROCESS DIAPH. VARIOUS
9	VALVE BODY VARIOUS
10	WASHER S.S.
11	BOLT S.S.
12	PROTECTIVE CAP PE

*VARIOUS=EPDM/VITON/PTFE
PVC/CPVC/PP/PVDF

TITLE CHEMLINE NDV SERIES MANUAL		SCALE	DATE	CHEMLINE PLASTICS		REV.
REFERENCE	DIAPHRAGM VALVE SIZES 1/2" - 4"	DR. BY	CHKD. BY	APP. BY	DWG. NO. NDV1	0