

MAINTENANCE INSTRUCTIONS
For Chemline 730 Series (formerly 700 Series) Normally Open
and Double Acting Diaphragm Valves Sizes 1/2" - 4"

Maintenance (all sizes)

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

1. Remove plug (20) and threaded plug (1).
2. Lift off o-ring (2) and cover (3).
3. Undo lock nut (15) and washer (14).
4. Lift off spring support plate (13) and washer (12).
5. Remove o-ring (10) and spacing ring (11), if present (not on all models).
6. Remove control diaphragm (9) and washer (8).
7. Diaphragm support (7) lifts off from the spindle (6).
8. Remove spring washer (16) and guard ring (17) from bottom of spindle (6).
9. Remove plug (29), int hex screw (22) and washer (21) from lower part (18) of valve.
10. Remove protective cap (28), hex screw (27) and washer (26).
11. Spindle bearing (19), compressor (23) and diaphragm (24) will separate from valve body (25).
12. Inspect diaphragm and all parts for wear and abrasion.

Maintenance Instructions N/O 730 Series Diaphragm Valve cont.

13. Replace parts as necessary.
14. Before re-assembling valve lubricate spindle (6), Dow Corning III silicone or equivalent recommended.
15. To re-assemble valve follow steps 1 through 11 in reverse order, tightening to the bolt torques recommended in the chart below.

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 that on the actuator, unscrew diaphragm totally until it backs off one screw thread, then retighten. The tab should now line up with that on the actuator. Also if attaching to actuator ensure all screw holes line up.

VALVE SIZE	DIAPHRAGM MATERIAL BOLT 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

CHEMLINE
PLASTICS

DWG. NO. NODV

REV. 0

DATE	SCALE	DR. BY	CHKD. BY	APP. BY
TITLE CHEMLINE 700 SERIES NORMALLY OPEN REFERENCE DIAPHRAGM VALVE SIZES 1/2" - 4"				

PT#	DESCRIPTION	MATERIAL
1	THREADED PLUG	AL
2	O-RING	PERBUNAN (NBR)
3	COVER	PP GLASS
6	SPINDEL	STEEL 1.4104
7	DIAPH. SUPPORT	PLATE
8	WASHER	STEEL (Cad Plated)
9	CONTROL DIAPH.	NEOPRENE (CR)
10	O-RING	PERBUNAN (NBR)
11	SPACING RING	STEEL (Cad Plated)
12	WASHER	PERBUNAN (NBR)
13	SPRING SUPPORT	PLATE
14	WASHER	STEEL (Cad Plated)
15	LOCK-NUT	M8.8 (Cad Plated)
16	SPRING WASHER	MS
17	QUAD RING	PERBUNAN (NBR)
18	LOWER PART	PP/GLASS
19	SPINDEL BEARING	METAL/TEFLON
20	PLUG	PE
21	WASHER	STEEL (Cad Plated)
22	INT. HEX SCREW	M8.8 (Cad Plated)
23	COMPRESSOR	PPTB
24	DIAPHRAGM	VARIABLE
25	VALVE BODY	VARIABLE
26	WASHER	STEEL (Cad Plated)
27	HEX SCREW	M8.8 (Cad Plated)
28	PROTECTIVE CAP	PE