



See pages 16 & 17
for ATEX ratings



SERVICE AND OPERATING MANUAL

Models HDF3-A Type 7

HDF4-A Type 3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	031.012.000	SLEEVE & SPOOL SET	1
2	070.006.170	BEARING	2
3	095.043.156	BODY, AIR VALVE	1
4	095.073.001	ASSEMBLY, PILOT VALVE	1
4-A	095.070.558	BODY, PILOT VALVE	1
4-B	560.023.360	O-RING (SPOOL)	2
4-C	560.033.360	O-RING	4
4-D	675.037.080	RETAINING RING	1
4-E	755.025.000	SLEEVE, PILOT VALVE	1
4-F	775.026.000	SPOOL, PILOT VALVE	1
5	114.002.156	INTERMEDIATE	1
6	115.020.080	BRACKET, FOOT	2
7	115.021.080	BRACKET, FOOT	2
8	132.002.360	BUMPER, DIAPHRAGM PLATE	2
9	132.014.358	BUMPER, AIR VALVE	2
10	135.016.162	BUSHING, THREADED, W/ O-RING 560.001.360	2
11	165.011.157	CAP, END	2
12	170.012.330	CAPSCREW, HEX HEAD 1/2-13 UNC X 2.00	8
13	170.023.330	CAPSCREW, HEX HEAD	4
14	170.024.330	CAPSCREW, HEX HEAD, 7/16-14 X 1	8
15	170.032.330	CAPSCREW, HEX HEAD	8
16	170.045.330	CAPSCREW HEX HEAD	4
17	170.066.330	CAPSCREW, HEX, 1/2-13 X 2.25	36
18	172.001.330	CAPSCREW, SOCKET	12
19	196.003.155	CHAMBER, INNER	2
20	196.004.155	CHAMBER, OUTER	2
21	286.018.354	DIAPHRAGM	2
	286.018.357	DIAPHRAGM	2
	286.018.360	DIAPHRAGM	2
	286.018.365	DIAPHRAGM	2
22	312.015.155	ELBOW, SUCTION	2
23	312.016.155	ELBOW, DISCHARGE	2
24	334.020.000	FLANGE, FOLLOWER	4
25	338.008.360	FLAP VALVE	4
	338.008.365	FLAP VALVE	4
	338.011.354	FLAP VALVE	4
	338.011.356	FLAP VALVE	4
	338.011.357	FLAP VALVE	4
26	360.010.425	GASKET, END CAP	2
27	360.013.379	GASKET, FLANGE	4
	360.013.384	GASKET, FLANGE	4
28	360.014.379	GASKET, FLANGE	4
	360.014.384	GASKET, FLANGE	4
29	360.021.000	GASKET	4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
30	360.041.379	GASKET, VALVE BODY	1
31	360.048.425	GASKET, VALVE BODY	1
32	518.014.156	MANIFOLD	2
33	545.007.330	NUT, HEX - 7/16-14	20
34	545.008.330	NUT, HEX, 1/2-13	24
35	547.002.110	NUT, STOP	8
36	547.006.330	NUT, STOP	2
37	560.001.360	O-RING	2
38	560.020.360	O-RING	6
39	560.022.360	O-RING	2
40	570.002.360	PAD, HINGE	4
	570.002.364	PAD, HINGE	4
	570.002.365	PAD, HINGE	4
41	570.012.371	PAD, WEAR	2
42	612.014.000	PLATE, DIAPHRAGM	2
43	612.015.156	PLATE, OUTER DIAPHRAGM	2
44	618.003.330	PLUG, PIPE, 1/4	2
45	618.004.330	PIPE, PLUG	2
46	620.011.114	PLUNGER, ACTUATOR	2
47	670.006.115	RETAINER, FLAP VALVE	4
48	685.008.120	ROD, DIAPHRAGM	1
49	720.004.360	SEAL, U-CUP	2
50	722.007.115	SEAT, FLAP VALVE	4
51	807.016.330	7/16-14 X 3 STUD	12
52	807.017.330	7/16-14 X 3 STUD	8
53	807.018.110	STUD, 1/4-20	8
54	900.003.330	WASHER, LOCK, 1/2	8
55	900.006.330	WASHER, LOCK - 7/16 1	2
56	901.006.330	WASHER, FLAT, 1/2	12
57	901.011.180	WASHER	12
58	901.013.180	WASHER, SEALING	2
59	901.023.330	WASHER, FLAT	2

NOT SHOWN:

031.019.156.	MAIN AIR VALVE ASSEMBLY	1
	(includes items 10, 11, 13, 14, 15 & 16)	
901.035.115.	WASHER FLAT	8
	(used w/Santoprene Flaps)	

HDF4-A Type 3

60	545.009.330.	HEX NUT	8
61	900.007.330.	LOCK WASHER	8
62	807.005.330.	STUD	8
63	360.036.426.	FLANGE GASKET	2
64	334.037.010.	ADAPTOR FLANGE	2

NOT SHOWN:

770.020.080.	SPACER, FOOT	4
901.006.330.	WASHER, FLAT (used w/ foot spacer)	8
900.003.330.	WASHER, LOCK	8
170.013.330.	CAPSCREW, HEX HEAD	8
545.008.330	NUT, HEX	4