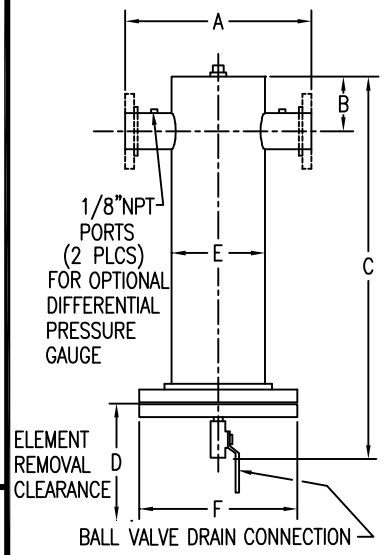
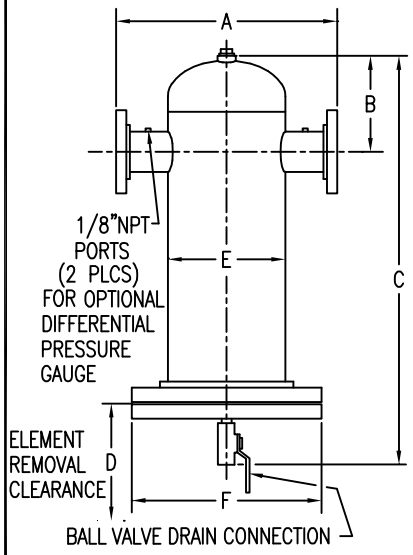
DIMENSIONS: MODELS 500 THRU 2000



DIMENSIONS: MODELS 3500 & 5000



APP'L	DATE	LVL	REVISION:
RAF	11/3/93	C	ECN: F00135
	6/28/01	D	ECN: NO 977

NOTES:

1) INCLUDE ELEMENT GRADE FOR COMPLETE FILTER HOUSING/ELEMENT MODEL NUMBER.
2) FLOW RATES GIVEN IN SCFM @ 100 PSIG OPERATING PRESSURE. TO FIND FLOW RATES AT OTHER OPERATING PRESSURES MULTIPLY RATED FLOW AT 100 PSIG BY CORRECTION FACTOR GIVEN IN CHART BELOW.
3) MAXIMUM WORKING PRESSURE: 250 PSIG @ 225°F. (EXCEPT HT UNITS WHICH ARE RATED AT: 165 PSIG @ 450°F.)
4) REPLACE ELEMENT WHEN PRESSURE DROP EQUALS OR EXCEEDS 10 PSID.
5) GRADE 'RD' ELEMENTS MUST NOT OPERATE IN OIL SATURATED CONDITIONS. REPLACE ELEMENTS PERIODICALLY TO SUIT APPLICATION BUT CHANGE AT LEAST EVERY 6 MONTHS.
6) F101 SERIES FILTERS ARE NOT DESIGNED TO REMOVE CARBON DIOXIDE OR CARBON MONOXIDE.
7) FLANGES ARE ANSI 150# RF.
8) ALL VESSELS INTERNALLY COATED FOR SUPERIOR CORROSION RESISTANCE.
9) CONSULT INSTRUCTIONS BEFORE INSTALLING ELEMENTS. (NOTE: ELEMENTS SHIPPED SEPARATELY TO PREVENT DAMAGE)
10) VESSELS BUILT AND STAMPED PER ASME CODE PLUS CURRENT ADDENDA.
11) FOR BEST RESULTS MATCH FILTER INLET/OUTLET CONNECTION SIZE TO PIPE SIZE, UNLESS ACTUAL FLOW EXCEEDS FILTER FLOW RATING.

MODEL	FLOW (SCFM)	IN/OUT CONN	REPLACEMENT ELEMENT	NO. OF ELEMENTS	DIMENSIONS A	B	C	D	E	F	UNIT WT. (LBS)	DRAIN CONNECTION (NPT)
F101-500-(GRADE)[1]	500	2" NPT	E101/102-500-(GRADE)[1]	1	11-7/8"	4-5/8"	39"	24"	6-5/8"	11"	100	1/2"
F101-1000-(GRADE)[1]	1000	3" NPT	E101/102-500-(GRADE)[1]	2	15-1/2"	5-1/4"	41-1/8"	24"	8-5/8"	13-1/2"	149	1/2"
F101-1500-(GRADE)[1]	1500	3" NPT	E101/102-500-(GRADE)[1]	3	17-3/4"	6-1/4"	44-1/2"	24"	10-3/4"	16"	240	1/2"
F101-2000-(GRADE)[1]	2000	4" FLG[7]	E101/102-625-(GRADE)[1]	3	18"	6-3/8"	50-7/8"	30"	10-3/4"	16"	260	1/2"
F101-3500-(GRADE)[1]	3500	6" FLG[7]	E101/102-625-(GRADE)[1]	5	24-3/4"	14"	56-5/8"	30"	12-3/4"	19"	390	1/2"
F101-5000-(GRADE)[1]	5000	6" FLG[7]	E101/102-625-(GRADE)[1]	8	28"	15-1/2"	61-5/8"	30"	16"	23-1/2"	600	1"

FLOW CORRECTION FACTORS

ACTUAL PRESSURE (PSIG)	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250
X FLOW @ 100 PSIG	.21	.30	.39	.48	.56	.65	.74	.83	.92	1.00	1.22	1.44	1.65	1.87	2.09	2.31

ELEMENT GRADE	PURPOSE	FLOW DIRECTION	PARTICLE REMOVAL (MICROMETER)	EFFICIENCY %	MAX OIL CARRYOVER (PPM W/W)	RECOMMENDED INLET TEMP °F	MAX ALLOWABLE TEMP °F	CLEAN PRESSURE DROP DRY Δ P	CLEAN PRESSURE DROP OIL WET Δ P
AA[4]	EXTRA COARSE PREFILTER	IN/OUT	>25.0 μ	100 @ 25.0 μ	7.8	225	225	.40	.75
A[4]	COARSE PREFILTER	IN/OUT	>5.0 μ	100 @ 5.0 μ	3.9	225	225	.50	1.00
B[4]	GENERAL PURPOSE PREFILTER	IN/OUT	>1.0 μ	99.99 @ 0.6 μ	0.78	185	225	.75	1.50
C[4]	HIGH EFFICIENCY PREFILTER	IN/OUT	>.01 μ	99.9999 @ 0.6 μ	0.008	125	225	1.50	4.00
RAA[4]	EXTRA COARSE AFTERFILTER	OUT/IN	>25.0 μ	100 @ 25.0 μ	NA	225	225	.40	NA
RA[4]	COARSE AFTERFILTER	OUT/IN	>5.0 μ	100 @ 5.0 μ	NA	225	225	.50	NA
RB[4]	GENERAL PURPOSE AFTERFILTER	OUT/IN	>1.0 μ	99.99 @ 0.6 μ	NA	185	225	.75	NA
RC[4]	HIGH EFFICIENCY AFTERFILTER	OUT/IN	>.01 μ	99.9999 @ 0.6 μ	NA	125	225	1.50	NA
RD[5]	VAPOR ADSORBING	OUT/IN	>.01 μ	99.9999 @ 0.6 μ	0.004[5]	80	80	1.50	NA[5]
HT[4]	HIGH TEMP PARTICULATE	OUT/IN	>1.0 μ	99.99 @ 0.6 μ	NA	NA	450	.75	NA

COMPRESSED AIR & GAS FILTERS
F101 SERIES

DRWN BY: RAF | DATE: 11/3/93
CHECKED: RAF | SCALE: NONE
APPL: | DRWG No. SD-80001 | REV D

VAN AIR SYSTEMS INC
Lake City, PA 16423 (814)774-2631 Fax: 814/774-3482 Telex: 91-4548