



PERRY EQUIPMENT CORPORATION

ISO 9001

# SERIES 70 DRY GAS FILTERS

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*Efficient Removal  
of Particulate  
Contaminant*



The Series 70 Dry Gas Filter is a highly efficient filtering system for removal of solid contaminants from natural gas. It is designed to remove solid particulate such as dirt, rust and pipeline scale from natural gas. High performance filtration is vital for the protection of sensitive equipment found in gas processing and transmission applications.

#### PRINCIPLE OF OPERATION

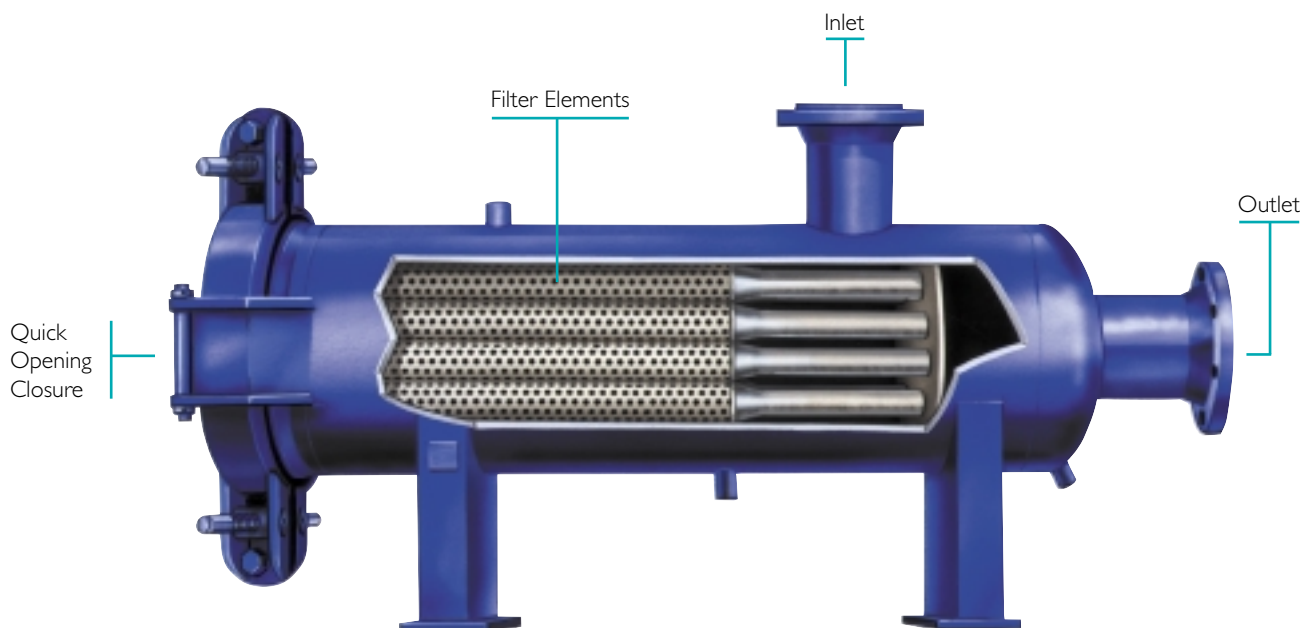
Contaminated gas enters and impinges on the pipe risers where large bulk contaminants are removed. Then the gas flows thru the elements from the outside to the inside. It is here that any fine particulate contaminants are removed. The clean gas then exits the filter.

*Removing desiccant particles  
downstream of desiccant bed  
dehydrators*

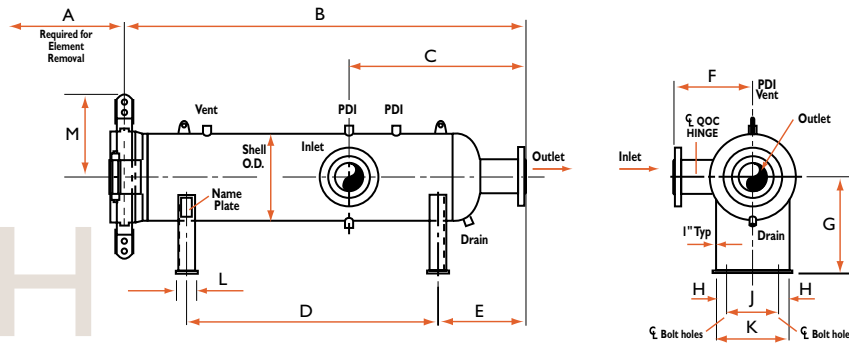
*Removing catalyst fines  
downstream of catalyst beds*

*Meter and regulator stations*

*Municipal distribution system  
border applications*



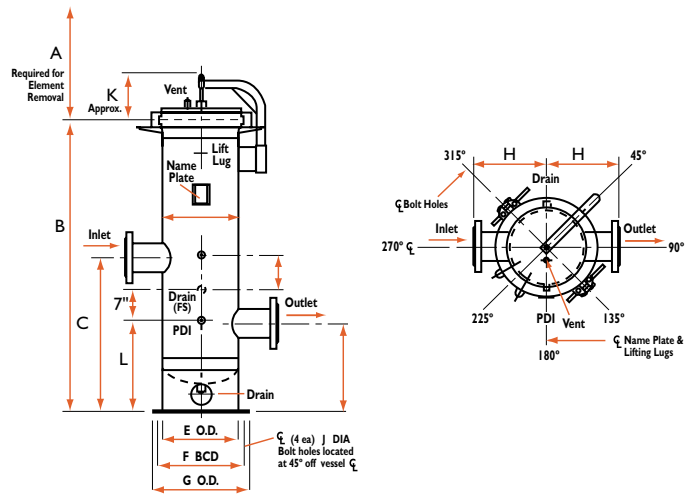
# 70H



Dimension (Inch)						Standard Pressure Range 15 PSIG Vacuum to 1480 PSIG. No Corrosion													
Model	Shell Dia.	Inlet Outlet	Vent	P.D.I.	Drain	A	B	C	D	E	F	G	H	J	K	L	M		
70H-1-312-6-XXX	6 5/8	2	1/2	1/2	I	14	37	21	16	14	9 1/2	15	4	6	14	6	10		
70H-1-324-6-XXX	6 5/8	2	1/2	1/2	I	26	49	21	28	14	9 1/2	15	4	6	14	6	10		
70H-1-336-6-XXX	6 5/8	3	1/2	1/2	I	38	62	21	41	14	10 1/2	15	4	6	14	6	10		
70H-2-336-10-XXX *	10 3/4	4	1/2	1/2	I	38	67	25	40	18	13 1/2	17	4	6	14	6	12		
70H-2-336-12-1480	12 3/4	4	1/2	1/2	I	38	68	26	40	19	14 1/2	18	4	6	14	6	13		
70H-3-336-12-XXX *	12 3/4	6	1/2	1/2	I	38	71	27	43	19	14 1/2	18	4	6	14	6	13		
70H-3-336-14-1480	14	6	1/2	1/2	I	38	71	27	43	19	15	19	4	6	14	6	15		
70H-4-336-14-XXX	14	6	1/2	1/2	I	38	71	27	43	19	15	19	4	6	14	6	15		
70H-5-336-16-XXX	16	8	1/2	1/2	I	38	75	29	45	20	16	20	4	8	16	6	17		
70H-7-336-18-XXX	18	8	1/2	1/2	I	38	75	29	45	20	17	21	4	10	18	6	19		
70H-8-336-20-XXX	20	8	1/2	1/2	I	38	77	31	46	21	18	22	4	12	20	8	20		
70H-11-336-22-XXX	22	10	1/2	1/2	I	38	83	35	48	24	19	23	4	14	22	8	22		
70H-13-336-24-XXX	24	10	1/2	1/2	I	40	86	37	50	25	22	24	4	16	24	8	23		
70H-16-336-26-XXX	26	12	1/2	1/2	I	44	90	39	53	26	23	25	4	18	26	8	25		
70H-19-336-28-XXX	28	12	1/2	1/2	I	47	90	39	53	26	24	26	4	20	28	8	26		
70H-21-336-30-XXX	30	14	1/2	1/2	I	49	93	41	55	27	25	33	4	22	30	8	30		
70H-23-336-32-XXX	32	14	1/2	1/2	I	50	93	43	55	27	26	34	4	24	32	10	31		
70H-28-336-34-XXX	34	16	1/2	1/2	I	56	97	45	56	29	29	35	4	26	34	10	32		
70H-31-336-36-XXX	36	16	1/2	1/2	I	65	97	45	56	29	30	36	4	28	36	10	33		

**Note:** Dimensions are not to be used for construction. Contact factory for certified dimensions.  
Bolt holes are 7/8" O.D. x 1/8" length on 6" through 30" models and 1/8" O.D. x 1/2" length on 32" through 36" models.

\* Maximum pressure of these units is 1250 PSIG w/ no corr. allow.



# 70V

Dimension (Inch)						Standard Pressure Range 15 PSIG Vacuum to 1480 PSIG. No Corrosion													
Model	Shell Dia.	Inlet Outlet	Vent	P.D.I.	Drain	A	B	C	D	E	F	G	H	J	K	L			
70V-1-312-6-XXX	6 5/8	2	1/2	1/2	I	14	39	23	17	6 5/8	9 1/8	10 5/8	9 1/2	7/8	6 3/4	15			
70V-1-324-6-XXX	6 5/8	2	1/2	1/2	I	26	51	23	17	6 5/8	9 1/8	10 5/8	9 1/2	7/8	6 3/4	15			
70V-1-336-6-XXX	6 5/8	3	1/2	1/2	I	38	64	23	17	6 5/8	9 1/8	10 5/8	11 1/2	7/8	6 3/4	15			
70V-2-336-10-XXX *	10 3/4	4	1/2	1/2	I	38	70	28	20	10 3/4	13 1/4	14 3/4	13 1/2	7/8	8 3/4	19			
70V-2-336-12-1480	12 3/4	4	1/2	1/2	I	38	73	31	23	12 3/4	15 1/4	16 3/4	14 1/2	7/8	8 3/4	22			
70V-3-336-12-XXX *	12 3/4	6	1/2	1/2	I	38	77	33	23	12 3/4	15 1/4	16 3/4	14 1/2	7/8	8 3/4	23			
70V-3-336-14-1480	14	6	1/2	1/2	I	38	77	33	23	14	16 1/2	18	15	7/8	10 1/2	23			
70V-4-336-14-XXX	14	6	1/2	1/2	I	38	77	33	23	14	16 1/2	18	15	7/8	10 1/2	23			
70V-5-336-16-XXX	16	8	1/2	1/2	I	38	83	37	25	16	18 1/2	20	16	7/8	13 1/2	26			
70V-7-336-18-XXX	18	8	1/2	1/2	I	38	84	38	26	18	20 1/2	22	17	7/8	13 1/2	27			
70V-8-336-20-XXX	20	8	1/2	1/2	I	38	85	39	27	20	22 1/2	24	18	7/8	13 1/2	28			
70V-11-336-22-XXX	22	10	1/2	1/2	I	38	91	43	29	22	25 1/2	28	21	1 1/8	16 5/8	31			
70V-13-336-24-XXX	24	10	1/2	1/2	I	38	92	44	30	24	27 1/2	30	22	1 1/8	17	32			
70V-16-336-26-XXX	26	12	1/2	1/2	I	38	98	48	32	26	29 1/2	32	23	1 1/8	17 1/2	35			
70V-19-336-28-XXX	28	12	1/2	1/2	I	38	99	49	33	28	31 1/2	34	24	1 1/8	39	36			
70V-21-336-30-XXX	30	14	1/2	1/2	I	38	105	53	35	30	33 1/2	36	25	1 1/8	39	39			
70V-23-336-32-XXX	32	14	1/2	1/2	I	38	106	54	36	32	35 1/2	38	26	1 1/8	39	40			
70V-28-336-34-XXX	34	16	1/2	1/2	I	38	110	58	38	34	37 1/2	40	27	1 1/8	39	43			
70V-31-336-36-XXX	36	16	1/2	1/2	I	38	111	59	39	36	39 1/2	42	28	1 1/8	39	44			

**Note:** Dimensions are not to be used for construction. Contact factory for certified dimensions.

## SPECIFICATIONS

### Standard Vessel

- Standard PECO Series 70 Dry Gas Filters are available in sizes from 6" to 72" nominal diameter as shown in the drawings.
- Standard Design Pressures: 285, 740, 1000 & 1480.
- Standard Design Temperature: -20° F to 350° F
- All PECO Series 70 vessels are designed to ASME Section VIII, Division I, and stamped with the "U" stamp.
- Materials of Construction:
  - Shell, Heads and Supports: Carbon Steel
  - Closure: Carbon Steel
  - Flanges: 150#, 300#, 600# ANSI RF weld neck
- Options
  - Vessel inlet and outlet connections may be changed
  - Design temperature to 650° F
  - Optional Closures include swingbolt, drawbolt, blind flange, threaded, PECO QOC or SAFELOCK®
  - Optional Filter Element Supports include 304 SS, 316 SS and others
  - A variety of closure gaskets
  - 0.3, 0.5, 1, 10 micron filter elements

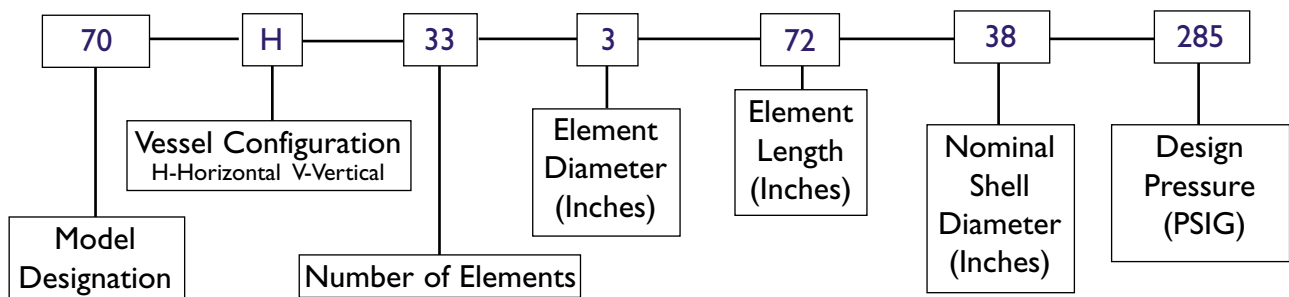


# ORDERING

The following information is required when requesting sizing and pricing on the Series 70 Dry Gas Filter.

- Operating pressure range
- Operating temperature range
- Gas molecule weight, or specific gravity
- Type of particulate contaminant
- Amount of particulate load
- Design pressure
- Design temperature
- Corrosion allowance requirements
- Special design requirements

## MODEL DESIGNATION



**e-mail:** [vessels@perryequipment.com](mailto:vessels@perryequipment.com)  
**web site:** [www.perryequipment.com](http://www.perryequipment.com)

Your local distributor:

Please refer to [www.perryequipment.com](http://www.perryequipment.com) for your most current literature edition and address information.