



VAREC SERIES 711 PRESSURE RELIEF VENT

A spring-loaded vent designed to protect low and medium pressure storage tanks, gas headers, process vessels and waste gas collection systems from overpressure



FEATURES

- Minimizes costly product evaporation or loss.
- Spring-loaded pressure pallet provides high relief settings.
- Extended neck eliminates seat distortion and leakage.
- Replaceable seat ring reduces maintenance time and replacement cost.
- Quick opening feature provides immediate relief from excessive pressure conditions.
- Side and center guided pallet for reliability and stability.
- Spun weatherhood and mesh screen protect against debris and adverse weather conditions.
- Metal-to-metal seating available for elevated process temperatures.
- Soft seat pallet inserts available for a tighter seal.
- Knife-edged drip ring reduces the possibility of freezing by preventing condensate from collecting at the seat.

GENERAL APPLICATION

These valves provide emergency pressure relief in petroleum refineries, marketing terminals, petrochemical and chemical processes, pulp and paper, food and beverage and waste water treatment plants. Also suitable for routine out-breathing or backup relief.

TECHNICAL DATA

Materials:	Aluminum, carbon steel, stainless steel
Sizes:	2" to 12" (50 to 300 mm)
Connections:	Drilled flange
Pressure settings:	To 50 psig (3.4 barg)
Temperature range:	-65° to 350°F (-54° to 177°C)

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SPECIFICATIONS

Sizes

2", 3", 4", 6", 8", 10", 12"

Connections - Standard flange drilling

Aluminum Drilled to ANSI Class 150
flat face dimensions

Carbon steel and stainless steel Drilled to ANSI Class 150
raised face dimensions

MATERIALS/TEMPERATURE LIMITS

Material code	11	16	36	66
Body	356 T6 low copper aluminum	356 T6 low copper aluminum	Carbon steel	316 stainless steel
Pallet	Low copper aluminum	316 stainless steel	316 stainless steel	316 stainless steel
Set spring	Zinc plated carbon steel	Zinc plated carbon steel	Zinc plated carbon steel	Stainless steel
Hood	Aluminum	Aluminum	Carbon steel	Stainless steel
Protective screens	HDPE	Stainless steel	Stainless steel	Stainless steel

Pallet seat inserts:

Code	Material	11	16	36	66
M	Metal-to-metal	0 to 250°F	0 to 250°F	0 to 300°F	-65° to 350°F
B	NBR	0 to 250°F	0 to 250°F	0 to 250°F	-40° to 250°F
T	PTFE	0 to 250°F	0 to 250°F	0 to 300°F	-65° to 350°F
V	FKM	0 to 250°F	0 to 250°F	0 to 300°F	-15° to 350°F

ADJUSTABLE SETTING RANGES

Valve size	Pressure	
	Minimum psig	Maximum psig
2"	1	50
3"	1	40
4"	1	30
6"	*12	20
8"	*10	12
10"	*8	6
12"	*8	3

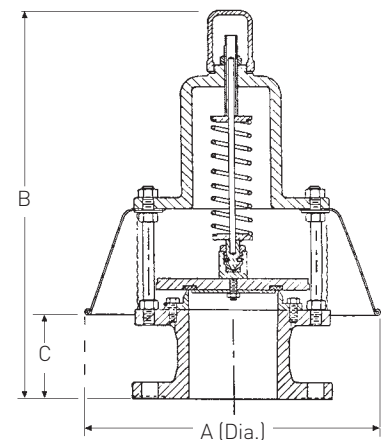
* oz/in²

DIMENSIONS, inches (millimeters)

Size code	02	03	04	06	08	10	12
Nominal pipe size	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)
A	9 7/8 (251)	11 1/2 (292)	13 3/8 (346)	14 (356)	16 3/8 (422)	20 (508)	23 3/8 (600)
B	19 1/2 (495)	20 1/4 (514)	21 1/2 (546)	22 1/2 (572)	23 (584)	23 (584)	23 (584)
C	3 (76)	3 1/4 (83)	3 3/4 (95)	3 3/4 (95)	3 3/4 (95)	3 3/4 (95)	3 1/2 (89)
**	20 (9)	30 (14)	40 (18)	60 (27)	80 (36)	100 (45)	125 (57)

** Shipping weight

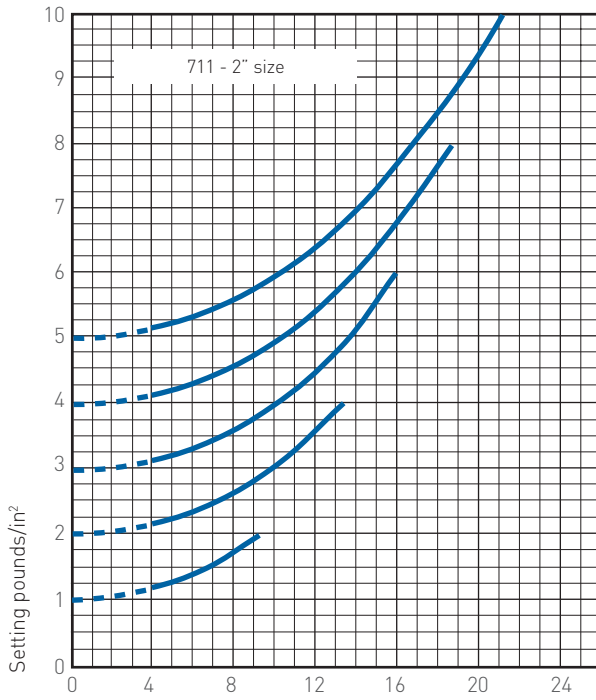
Dimensions are for preliminary general information and should not be used for construction purposes. Certified dimensional drawings are available upon request.



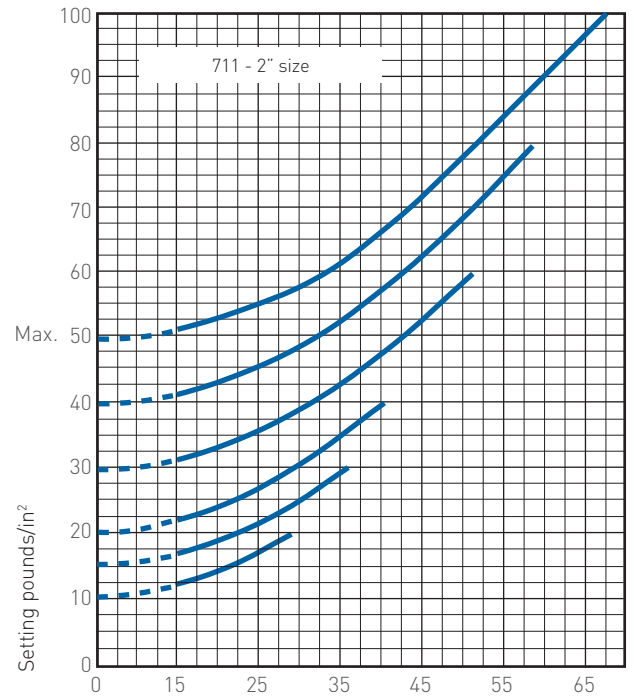
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SPRING LOADED PRESSURE RELIEF VENT

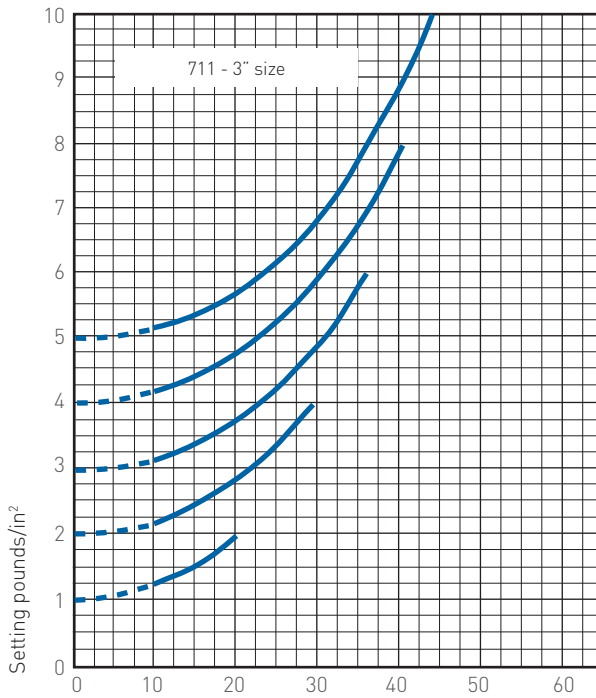
FLOW CURVES - 711 SERIES



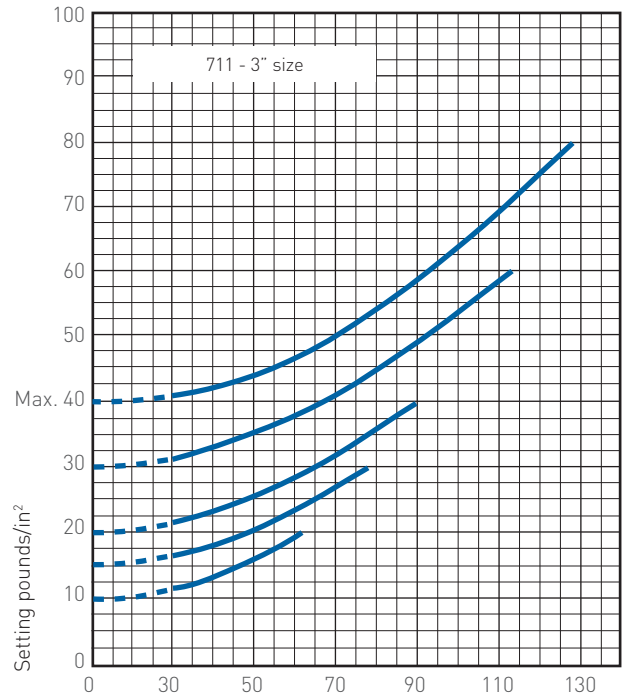
Flow in thousands of cubic ft./hr. (Air - Sp. Gr. = 1.0)



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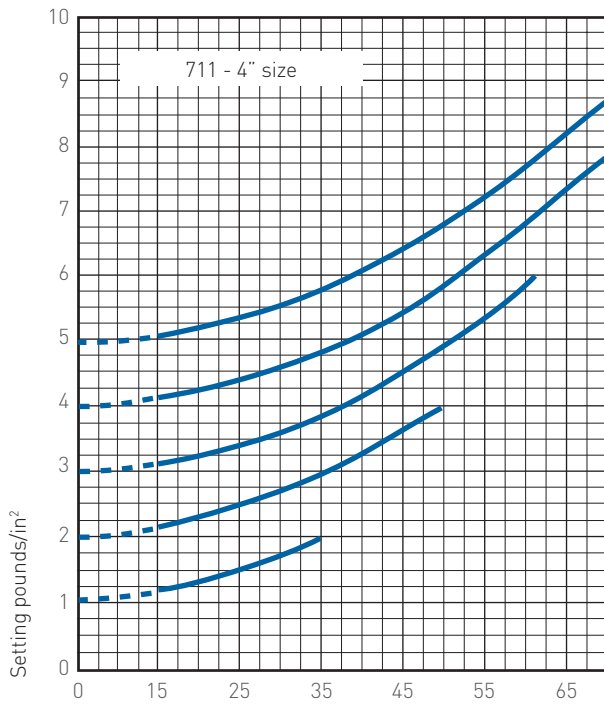


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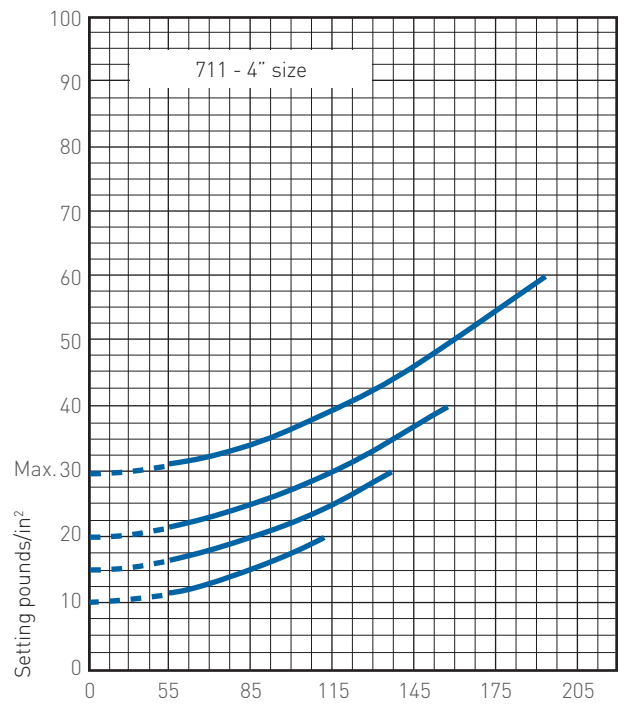
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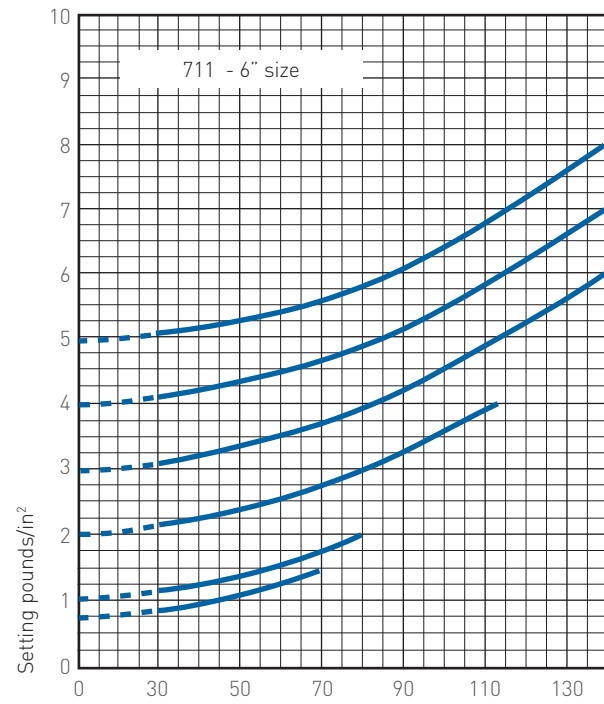
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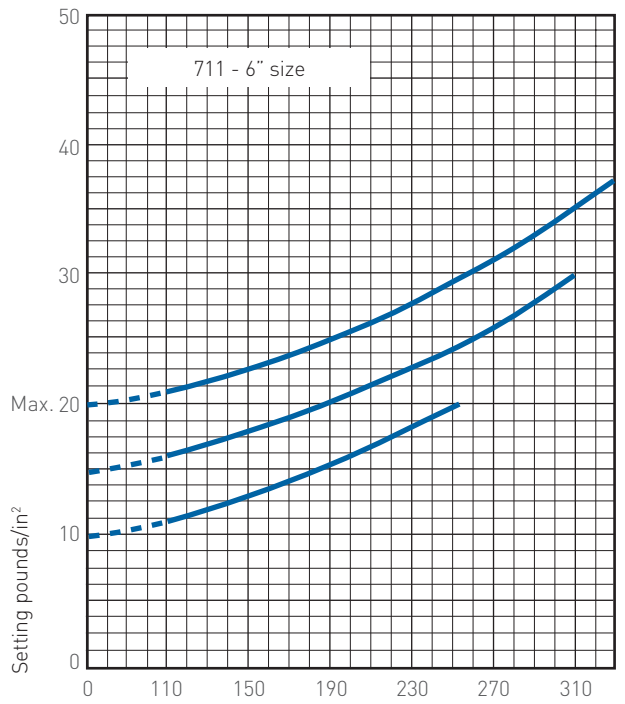
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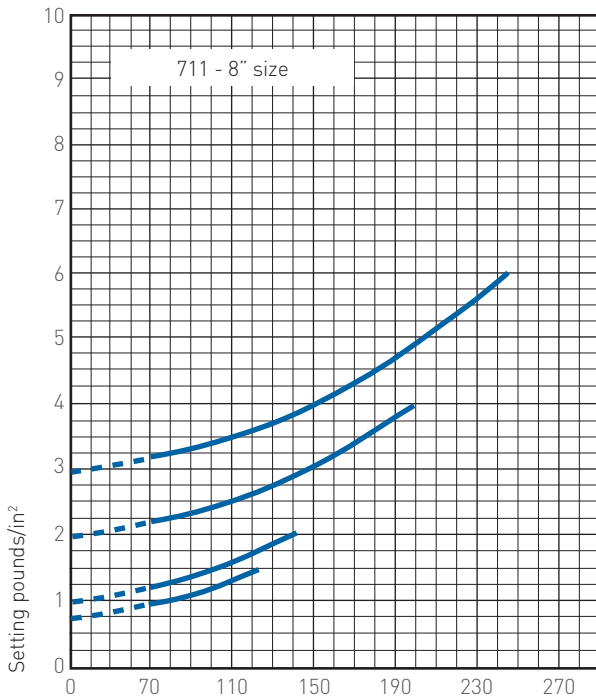


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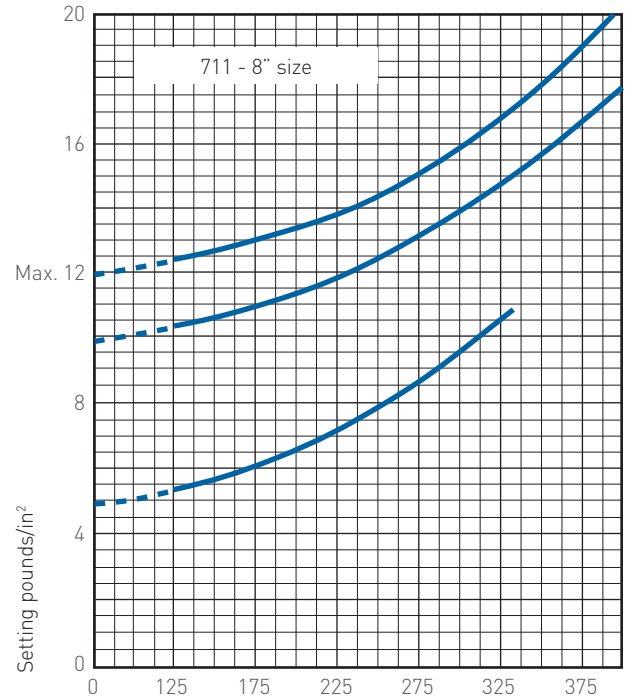
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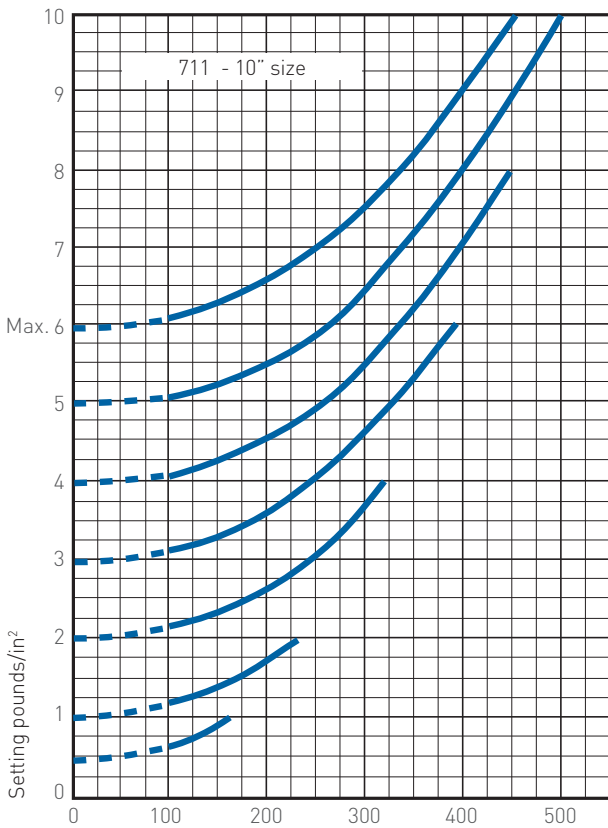
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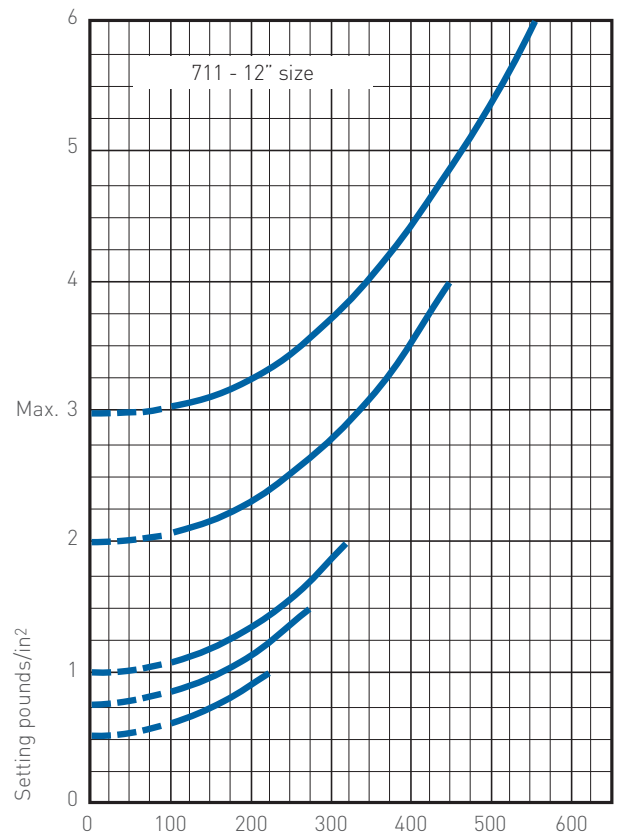
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VAREC SERIES 711 PRESSURE RELIEF VENT SELECTION

SELECTION GUIDE

Example:	711	04	16	B
Model				
711	Spring loaded pressure relief valve			
Size				
02	2"			
03	3"			
04	4"			
06	6"			
08	8"			
10	10"			
12	12"			
Body/trim material				
11	Aluminum/aluminum			
16	Aluminum/316 stainless steel			
36	Steel/316 stainless steel			
66	316 Stainless steel/316 stainless steel			
Soft seat pallet insert				
M	Metal-to-metal (no insert)			
B	NBR			
T	PTFE			
V	FKM			

Example: 4" spring loaded valve with aluminum body, 316 stainless steel trim and NBR soft seat insert.
Specify setting when ordering.