

# SERIES AP 71

## VACUUM GENERATOR MODULE



- Monoblock vacuum venturi, air actuated valve and check valve
- Unique, compact, patented design
- Constant bleed option 2.5, 5, 8 and 15 slpm of N2 @ 80 psig (5.5 bar)
- 26 in. Hg (100 Torr) of vacuum generated with 80 psig (5.5 bar) and 60 slpm of Nitrogen
- SS construction
- Normally closed (NC) air actuated valve
- DI cleaned and baked dry
- Installation and operating instructions available at [www.aptech-online.com](http://www.aptech-online.com) in the Tech Briefs section

### Operating Parameters

N2 inlet	70 to 110 psig (4.8 to 7.6 bar)
Vacuum port maximum pressure	3,500 psig (241 bar)
Vacuum*	26 inch Hg (100 Torr)
Check valve cracking pressure**	3 psid (0.2 bar)
Actuation pressure	60 to 110 psig (4 to 7.6 bar)
Constant bleed*** (opt) CB005	1-2.5 slpm @ 80 psig (5.5 bar) N2
(opt) CB009	2-5 slpm @ 80 psig (5.5 bar) N2
(opt) CB013	5-8 slpm @ 80 psig (5.5 bar) N2
(opt) CB023	10-15 slpm @ 80 psig (5.5 bar) N2
Proof pressure, applied to vacuum port	5,000 psig (345 bar)
Burst pressure, applied to vacuum port	10,000 psig (690 bar)

\* Vacuum specifications are based on a 3/8" vent line of 30" overall length.

\*\* Cracking pressure is a nominal value which may vary in specific applications.

\*\*\* Constant bleed option includes additional check valve for bleed orifice.

### Other Parameters

Valve status	Normally Closed (NC)
Actuation port	#10-32 thread
Inlet port fitting	1/4 inch face seal male
Vent port fitting	1/4 inch, 3/8 inch face seal or 3/8 inch tube stub
Vacuum port fitting	1/4 inch face seal or tube weld

### Materials

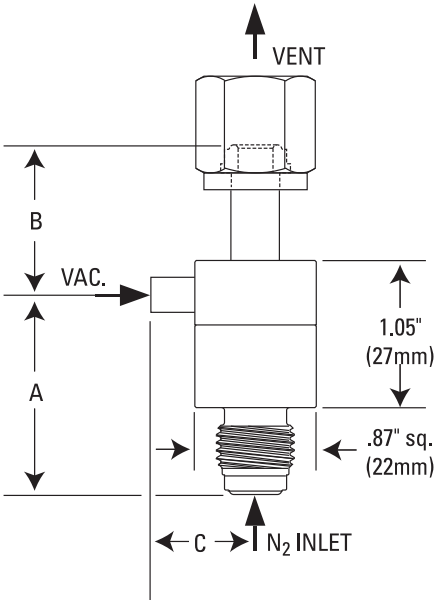
	Series AP 71
Wetted Parts	
Body	316L stainless steel
Poppets and piston	303 stainless steel
Spring	302 stainless steel
Seal	Viton® (optional seal materials available)

All specifications subject to change without notice.

Viton® DuPont

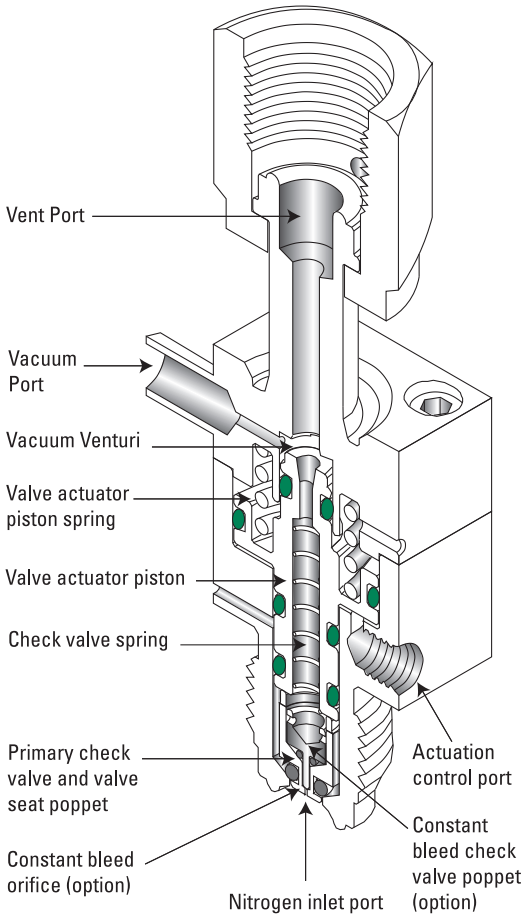
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DIMENSIONAL INFORMATION



Connections	A		B		C	
	in [±.02]	mm	in [±.02]	mm	in [±.02]	mm
MV4	1.43	36	1.07	27	1.39	35
FV4	–	–	1.07	27	1.39	35
TW4	–	–	–	–	.75	19
FV6, MV6	–	–	1.64	42	–	–
TW6	–	–	.96	24	–	–

All dimensions are in inches (mm). Metric dimensions are for reference only.



**CAUTION:** N<sub>2</sub> inlet pressure greater than 110 psig (7.6 bar) may cause valve not to close when actuation control pressure vented.

**CAUTION:** Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.

ORDERING INFORMATION

Sample Order Number		AP 71S MV4 FV6 TW4 CB009	
AP 71	Series	AP 71	
S	Material	S = Stainless steel (SS)	
MV4	N2 Inlet	MV4 = 1/4 inch face seal male	
FV6	Vent	MV4 = 1/4 inch face seal male FV4 = 1/4 inch face seal female MV6 = 3/8 inch face seal male FV6 = 3/8 inch face seal female TW6 = 3/8 inch tube weld stub	
TW4	Vacuum	MV4 = 1/4 inch face seal male FV4 = 1/4 inch face seal female TW4 = 1/4 inch tube weld stub	
CB009	Options	CB005 = 2.5 slpm CB009 = 5 slpm CB013 = 8 slpm CB023 = 15 slpm	