

# 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 <u>www.aptech-online.com</u> 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		150% of operating pressure		
Burst pressure, applied to vacuum port		300% of operating pressure		
Leak rate		bubble tight		
Operating temperature		14° to 160°F (-10° to 71°C)		

\* 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	M5 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

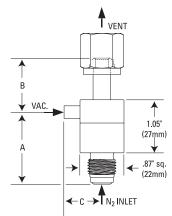
	Series AP 71	
Wetted Parts		
Body	316L stainless steel	
Poppets and piston	303 stainless steel (316L stainless steel optional <sup>+</sup> )	
Spring	302 stainless steel	
Seal	Flouoroelastomer / FKM (Neoprene / polychloroprene optional)	

All specifications subject to change without notice.

+Recommended for corrosive service, specified "S6."

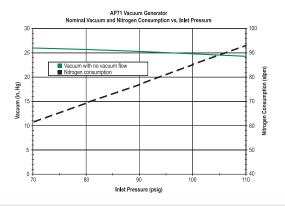


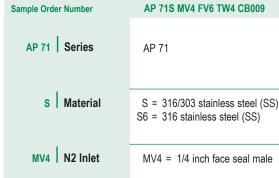
# SERVICE AND SUPPORT BEYOND COMPARE



Connections	А		В		С	
	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.

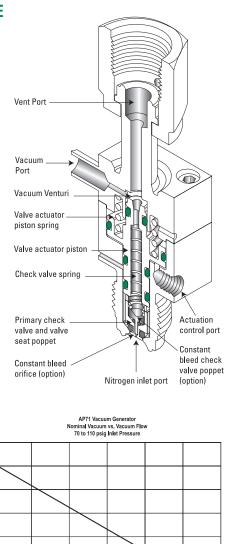




CAUTION: N2 inlet pressure greater than 110 psig (7.6 bar) may cause valve not to close when actuation control pressure vented.

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.

AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.



6 Vacuum Flow (slpm air)

30

25

20

15 10

Vacuum (in. Hg)

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 NP = Neoprene/polychloroprene wetted seals SC = Short bonnet

**ORDERING INFORMATION** 

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