

SERIES W72

VACUUM GENERATOR MODULE



- Vacuum venturi, shutoff valve and check valve combined in a compact single body
- Pneumatic NC or manual knob control options
- 316L Stainless Steel construction
- 100 Torr (26 inch Hg) vacuum generated at 80 psig (0.6 MPag) and 60 slpm N₂
- Constant bleed option provides continuous flow of N₂ to exhaust line
- Performance verified with automated functional testing and leak testing
- All manufacturing to Pure T UHP semiconductor standards
- Installation and operating instructions posted to www.puretuhp.com in the Pure Tech section

Operating Parameters

N ₂ inlet	70 to 110 psig (0.48 to 0.76 MPag)
N ₂ flow @ 80psig	60 slpm
Vacuum port maximum pressure	3,000 psig (20.7 MPag)
Vacuum*	26 inch Hg (100 Torr)
Constant bleed 5B	2-5 slpm N ₂ @ 80 psig (0.55 MPag)
8B	5-8 slpm N ₂ @ 80 psig (0.55 MPag)
15B	10-15 slpm N ₂ @ 80 psig (0.55 MPag)
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs He at 100 psig inlet pressure
Leakage across seat	1x 10 ⁻⁹ sccs He
Proof pressure, applied to vacuum port	150% of operating pressure
Burst pressure, applied to vacuum port	300% of operating pressure
Operating temperature	-10 to +70°C (14° to +158°F)

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

Connections

Inlet port fitting	1/4 inch face seal male
Vent port fitting	1/2 inch face seal male
Vacuum port fitting	1/4 inch face seal male

Other Parameters

Actuation port	M5
Actuation pressure	70 to 110 psig (0.48 to 0.76 MPag)
Pressure rating	vacuum to 145 psig (1.0 MPag)

Materials

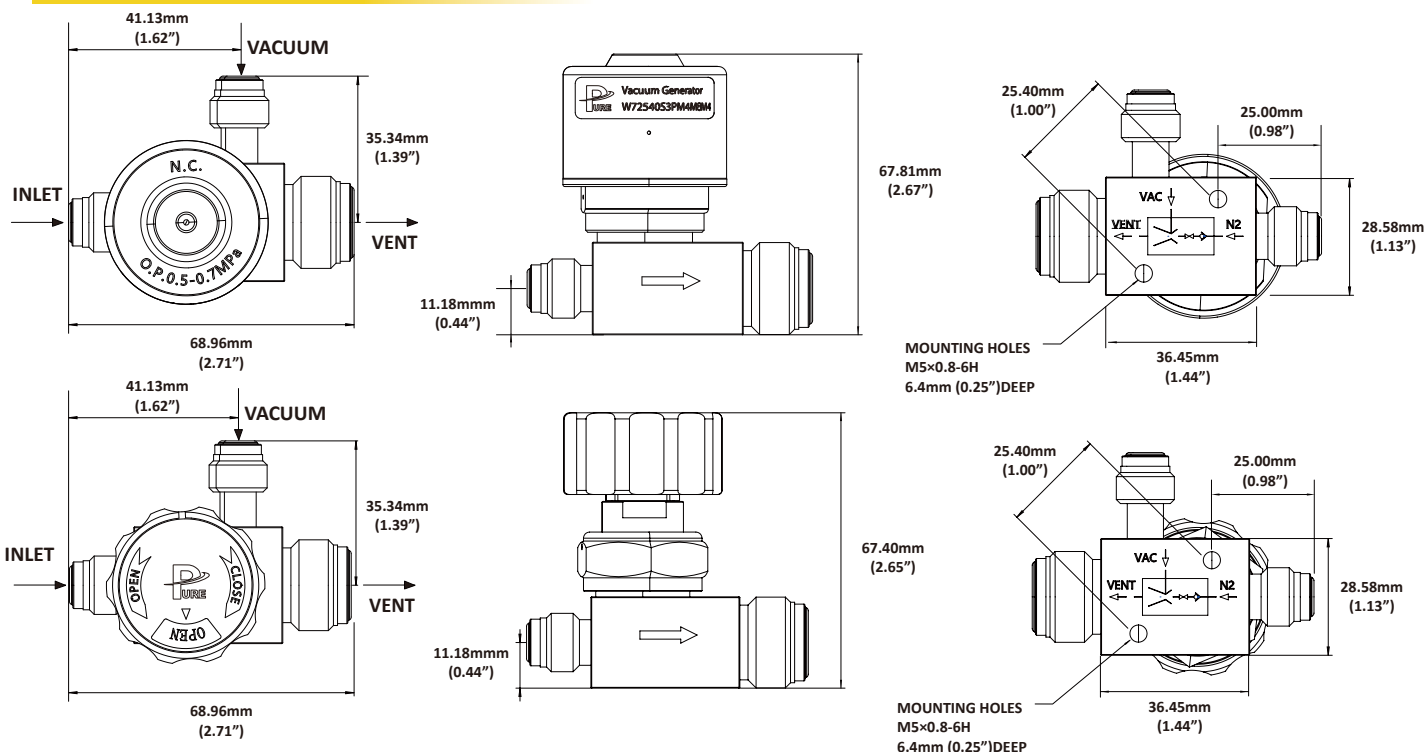
Actuation Options		Materials	
		Wetted Parts Series	
72540	Pneumatic NC	Body	SS 316L
72650	3/4 turn knob	Finish	electropolished and passivated
		Diaphragm	Ni-Co alloy / UNS R30003
		Seat	PCTFE (Polyimide optional)
		Check Valve Seal	Fluoroelastomer / FKM (optional seal available)

All specifications subject to change without notice

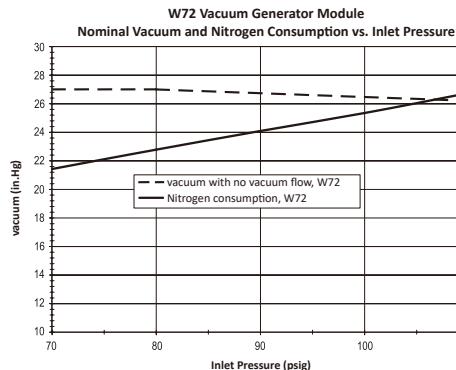
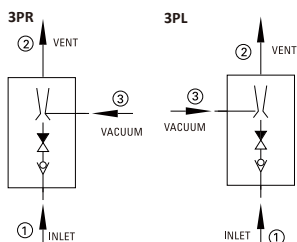


Pure performance, pure service

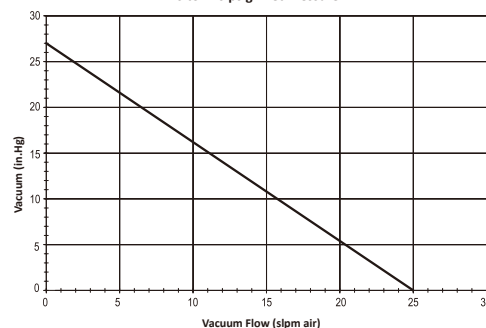
Dimensional Information



W72 SERIES PORTING GUIDE TOP VIEW SHOWN



W72 Vacuum Generator Module Nominal Vacuum vs. Vacuum Flow 70 to 110 psig Inlet Pressure



End connections are specified in numerical order per the diagram's numbered arrows



Caution: The customer is entirely responsible for product selection and it should be based upon the customer's own analysis regardless of any recommendations, published or communicated, by Pure T. Products must also be installed, operated and maintained correctly for safe, problem-free usage.

Ordering Information

Model numbers		W72540S3PRM4M8M4		
Model	Material	Porting	Connections	Options
540 = Pneumatic NC 650 = Manual knob	S = SS 316L	3PR = 3 port 3PL = 3 port	N ₂ inlet = M4 Vent = M8 Vac = M4	5B = constant bleed 2-5 slpm 8B = constant bleed 5-8 slpm 15B = constant bleed 10-15 slpm

Pure T has product options which are not shown in the data sheet. Please consult your local distributor or the factory directly regarding special requests.