

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 (5.5 bar) 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 (0.5 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 He
Leakage across seat	1 x 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
Vent port fitting	1/4 or 1/2 inch face seal
Vacuum port fitting	1/4 or 1/2 inch face seal

Other Parameters

Actuation port	M5
Actuation pressure	70 to 110 psig (0.5 to 0.76 MPag)
Pressure rating	vacuum to 145 psig (1.0 MPag)

Materials

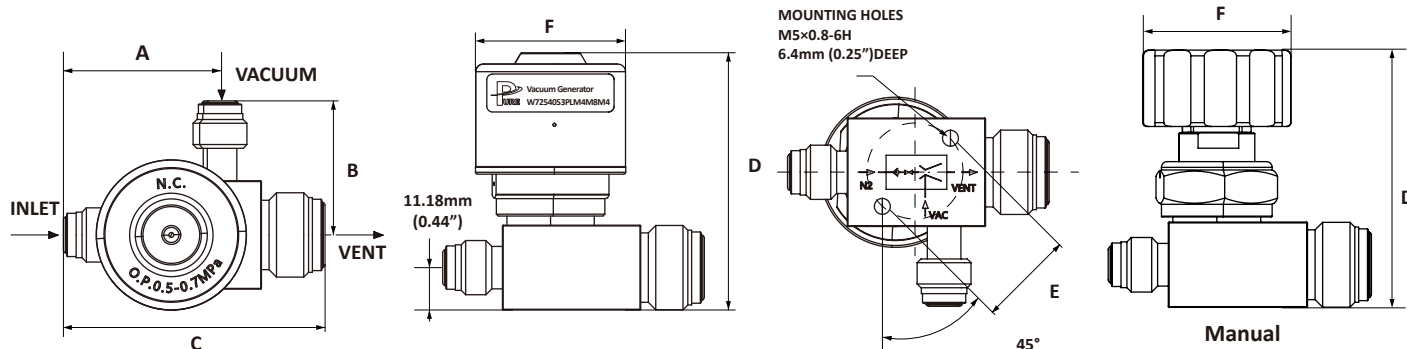
Actuation Options		Materials	
		Wetted Parts	
72540	Pneumatic NC	Body	SS 316L
72650	3/4 turn knob	Finish	electropolished and passivated
		Diaphragm	Ni-Co alloy / UNS R30003
		Seat	PCTFE (Polyimide optional)
		Check Valve Seal	Fluoroelastomer / FKM (optional seal available)

All specifications subject to change without notice



Pure performance, pure service

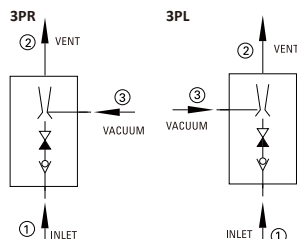
Dimensional Information



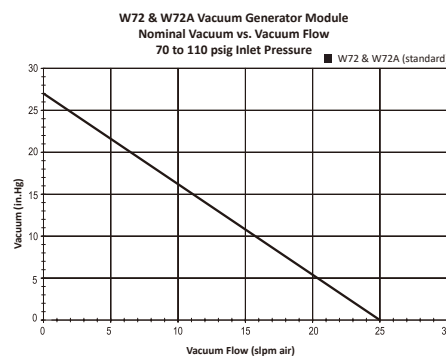
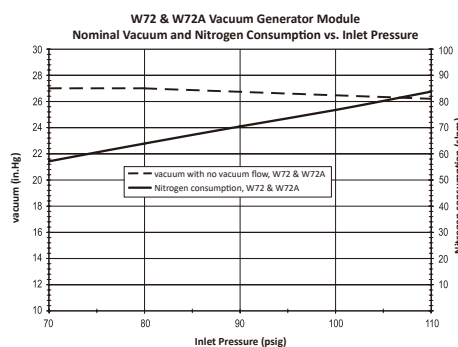
Model		A		B		C		D		E		F	
		mm[±.3]	in[±.1]	mm[±.3]	in[±.1]	mm[±.3]	in[±.1]	mm[±.3]	in[±.3]	mm[±.3]	in[±.1]	mm[±.3]	in[±.1]
W72	Pneumatic	41.30	1.63"	35.30	1.39"	69.00	2.72"	68.00	2.68"	25.40	1.00"	39.50	1.56"
	Manual	41.30	1.63"	35.30	1.39"	69.00	2.72"	68.00	2.68"	25.40	1.00"	38.80	1.53"
W72A	Pneumatic	47.30	1.86"	35.30	1.39"	102.7	4.04"	68.00	2.68"	25.40	1.00"	39.50	1.56"
	Manual	47.30	1.86"	35.30	1.39"	102.7	4.04"	68.00	2.68"	25.40	1.00"	38.80	1.53"

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

W72 & W72A SERIES PORTING GUIDE TOP VIEW SHOWN



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				
Type	Material	Porting ¹	Connections ²			Options
			N ₂ inlet	Vent	Vac	
W72540 = Pneumatic NC W72650 = Manual Knob	S = SS 316L	3PR = Vac port on the right 3PL = Vac port on the left	M4	M8	M4	5B = constant bleed 2-5 slpm 8B = constant bleed 5-8 slpm 15B = constant bleed 10-15 slpm GT = FFKM check valve seal
W72A540 = Pneumatic NC W72A650 = Manual Knob			M4 M4	F8 M8	F4 M4	
1: Inlet port at bottom, view from top 2: Tube stubs available upon request						

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.