

# NPP 0280

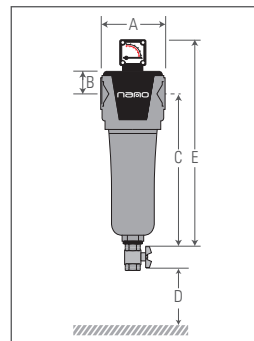
44.1 scfm exhaust flow rate  
vacuum pump protection filter

nano F1 vacuum pump protection filters are specifically designed and manufactured to protect vacuum pumps from both solid and liquid contamination.



general characteristics	
exhaust flow rate (scfm) <sup>(1)</sup>	44.1
operating limits	
design operating pressure range (psig)	full vacuum to 232 psig
design operating temperature range (°F)	35 to 176
housing construction	
materials	pressure die cast aluminum
finish	E-Coat™ surface treatment (internal & external) powder paint (external)
element construction	
media	borosilicate glass microfiber
replacement element (part no)	E 0325 (grade)
components	
condensate drain <sup>(2)</sup>	manual valve
vacuum indicator / gauge	NDV 1500 as standard
air circuit	
inlet & outlet connections (NPT) <sup>(3)</sup>	1 ¼"

dimensions and weights	
A (ins)	4.80
B (ins)	1.65
C (ins)	16.50
D (ins)	3.00
E (ins)	20.97
weight (lbs)	6.2



element performance	PP5	PP1
particle removal	5 micron	1 micron
maximum oil carryover at 68°F (ppm or mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
pressure drop - clean	0.3 psid	0.6 psid
pressure drop - recommended replacement	1.5 psid	1.5 psid
recommended operating temperature range	35 to 212°F	
design operating temperature range	35 to 248°F	
flow direction through element	outside to inside	
maximum element life	12 months or 8000 hours	

(1) free air conditions when operating at atmospheric pressure. For vacuums, contact support@n-psi.com  
 (2) can be adapted to use ¼" drains with a reducer. Drain flasks are available for liquid collection for vacuum (or atmospheric pressure) applications only  
 (3) inlet and outlet connections are NPT threaded to ANSI B2.1  
 (4) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

nano-purification solutions  
charlotte, north carolina  
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## features

### housing features

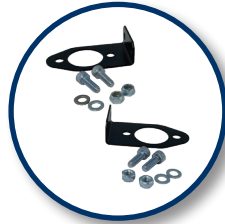
- designed in accordance with ASME pressure vessel standards
- carries CRN (Canadian Registration Numbers) for approved use in every province of Canada
- “dead stop” bowl feature provides full closure without overtightening
- optimized piston seal ensures zero leakage and ease of bowl removal during element replacement
- no tie rod simplifies element change out and reduces access requirements for bowl removal
- comprehensive range of filter mounting accessories
- 10 year housing warranty

## accessories



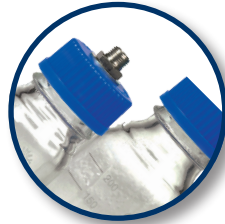
### connecting kits

description	fits	part number
NPP connecting kit	NPP 0280	NCK 0325



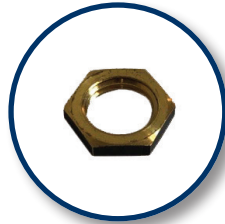
### wall mounting kits

description	fits	part number
NPP wall mounting kit	NPP 0280	NMK 0325



### sterilizable glass drain flask

description	fits	part number
NPP 100 mL flask	NPP 0280	MLF 250
NPP 100 mL flask with polymer coating	NPP 0280	MLA 250



### adapters

description	fits	part number
¼" NPT drain adapter (plastic)	NPP 0280	NAK 1P
¼" NPT drain adapter (brass)	NPP 0280	NAK 1