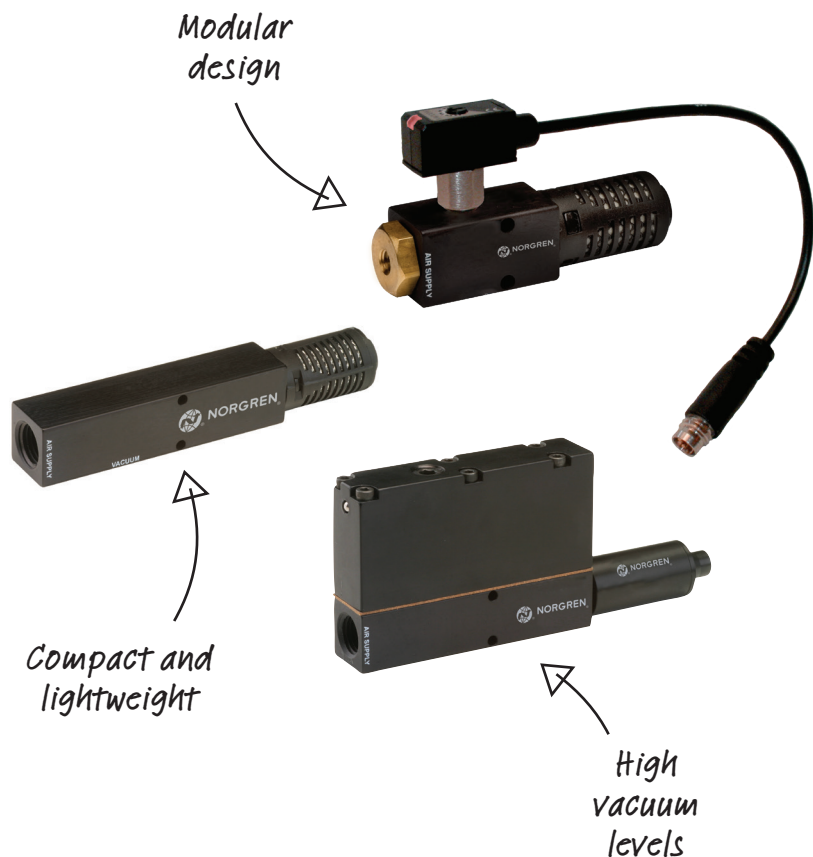


Modular Venturi Vacuum Generators

The NVP Series provides maximum design flexibility by using a modular component approach. Integrating a venturi vacuum generator, sensors, and switches within one assembly, the NVP Series provides complete vacuum systems capable of interfacing with control systems.



Fast Find Guide

Please note: These products represent only part of the Norgren vacuum range.
If you can't see the option you require please contact us.

Modular Venturi Vacuum Generators

NVP00 Min Series - Vacuum level up to 28"Hg, flow up to 0.50 SCFM, compact / lightweight with blowoff option  Page 14	NVP10 Mid Series - Vacuum level up to 28"Hg, flow up to 3.20 SCFM, with blowoff, multi-port options  Page 21	NVP20 Mid Series - Vacuum level up to 28"Hg, flow up to 3.20 SCFM, with blowoff, multi-port, air saver options  Page 29	NVP50 Mid Series - Vacuum level up to 28"Hg, flow up to 3.20 SCFM, with blowoff, air saver options  Page 43	NVP80 Max Series Vacuum level up to 28"Hg, flow up to 9.00 SCFM  Page 48
NVP90 Max Series Vacuum level up to 28"Hg, flow up to 28.00 SCFM  Page 66	NHVP High Vac Series Vacuum level up to 29.5"Hg, flow up to 6.00 SCFM  Page 79			



- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Operating Temperature

-30° to -250° F (-34° to 121°C)

Materials

Generator Body: Anodized Aluminum

Supply line

Min. 5/32" (4mm)

Vacuum line

1/4" (6mm)

Mounting holes

Mounting holes accept 4-40 [M3] screws

Control valve

3 way/2 position (faster part release), minimum orifice – 0.062" [1.57mm]

Performance level designations

"M", "Y" 0-20"Hg [0 to 677mbar]

for medium vacuum/high flow applications "H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Product options

Standard (NVP00)

Pneumatic blow-off (NVPOX)

Valve Controlled blow-off (NVP01)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP00-60M-S04A00	20"Hg	0.5 SCFM	0.5 SCFM	NST2 Silencer
NVP00-60H-S04A00	28"Hg	0.5 SCFM	0.8 SCFM	NST2 Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Ports / No Accessories (standard)		A00	
NVPM (Metric Thread)		M		Extra Ports / NVTMV-QD-6		A02	
Vacuum Flow Level		Substitute		Extra Ports / NVSMN-QD-6		A04	
20"Hg @ 80PSI (Standard)		M		Extra Ports / NVSMP-QD-6		A06	
28"Hg @ 80PSI (Standard)		H		No Port / No Accessories		A99	
20"Hg @ 60PSI		Y		Silencers		Substitute	
28"Hg @ 60PSI		Z		None		S00	
				NAA2 (58dB)		S01	
				NST2 (68dB)		S04	

NVP★00-60★-S★★A★★

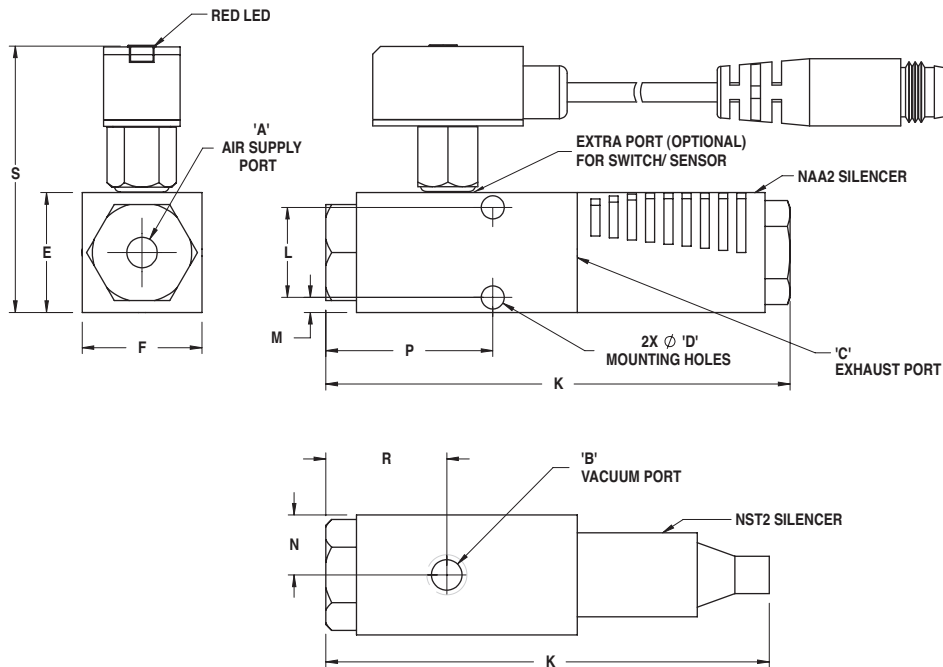
Accessories

Standard Models	Inline Fitting	Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP00-60M-S04A00	124250210	124470210	NVCF13-1032M	NBG*****	NFG*****	NVSL1_***
NVP00-60H-S04A00	124250210	124470210	NVCF13-1032M	NBG*****	NFG*****	NVSL1_***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	K	L	M	N	P	R	S
NVP00-60*-S01A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	0.62	0.62	2.42	0.47	0.08	0.31	0.89	0.63	1.36
NVP00-60*-S04A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	0.62	0.62	2.35	0.47	0.08	0.31	0.89	0.63	1.36
NVPM00-60*-S01A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(15.8)	(15.8)	(61.5)	(11.9)	(2.0)	(7.9)	(22.6)	(16.0)	(34.5)
NVPM00-60*-S04A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(15.8)	(15.8)	(59.7)	(11.9)	(2.0)	(7.9)	(22.6)	(16.0)	(34.5)

NVPOX

PNEUMATIC BLOW-OFF



- » All in one vacuum and blow-off - only compressed air required
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron)
unlubricated,
non-corrosive dry gases

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Operating temperature

+32° to ~125° F [0° to ~52°C]

Materials

Generator Body: Anodized
Aluminum

Generator options

B1 adjustable version allows the user to set the intensity of the blow-off from no blow-off to full blow-off

Cycle rates

Up to 900/min

Blow-off response time

Instantaneous

Blow-off Duration

100 milliseconds (based on system design)

Orientation

Any

Supply line

Min. 5/32" (4mm)

Vacuum line

1/4" (6mm)

Mounting holes

Mounting holes accept 4-40 [M3]
screws

Control valve

3 way/2 position (faster part release), minimum orifice - 0.093" [2.5mm]

Performance level designations

"M", "Y" 0-20"Hg [0 to 677mbar]
for medium vacuum/high flow applications
"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/
standard flow applications

Product options

Standard (NVPO0)

Pneumatic blow-off (NVPOX)

Valve Controlled blow-off

(NVP01)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVPOX-60M-S04A00	20"Hg	0.5 SCFM	0.5 SCFM	NST2 Silencer
NVPOX-60H-S04A00	28"Hg	0.5 SCFM	0.8 SCFM	NST2 Silencer

Accessories

Option selector

		NVP★OX★★-60★-S★★A★★			
Series	Substitute			Accessories	Substitute
NVP (Imperial Thread)				Extra Port if Available / No Accessories (standard)	A00
NVPM (Metric Thread)	M			Extra Port if Available / NVTMV-QD-6	A02
Blowoff	Substitute			Extra Port if Available / NVSMN-QD-6	A04
Non-adjustable (Standard)	BO			Extra Port if Available / NVSMN-QD-6	A04
Adjustable	B1			No Extra Port / No Accessories	A99
Vacuum Level	Substitute			Silencers	Substitute
20"Hg @ 80PSI (Standard)	M			None	S00
28"Hg @ 80PSI (Standard)	H			NAA2 (58dB)	S01
20"Hg @ 60PSI	Y			NST2 (68dB)	S04
28"Hg @ 60PSI	Z				

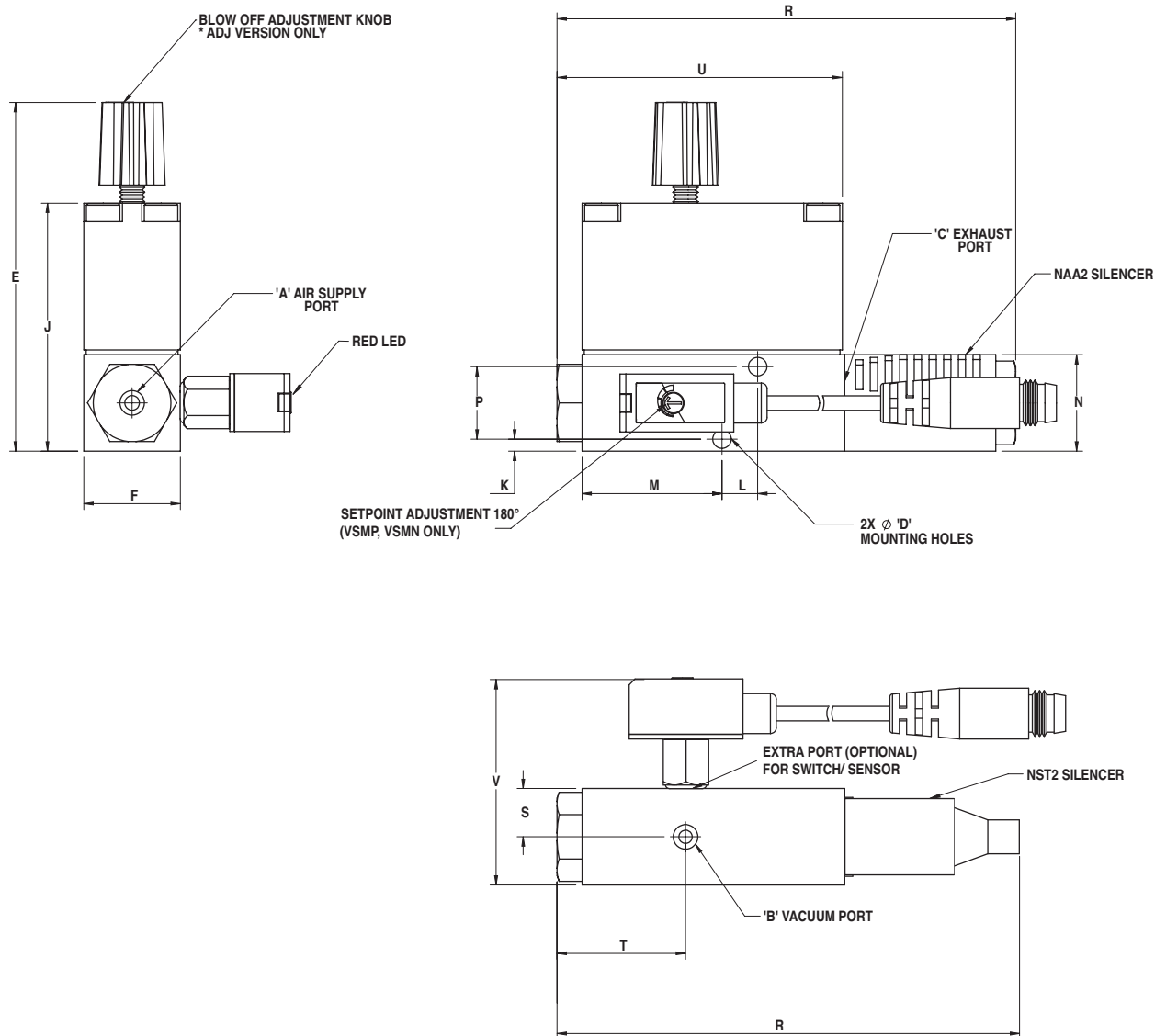
NVPOX

PNEUMATIC BLOW-OFF



1

Dimensions inches (mm)



Model	Units	A	B	C	D	E*	F	J	K	L	M	N	P	R	S	T	U	V
NVPOXB0-60*-S01A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	2.26	0.63	1.61	0.078	0.23	0.91	0.63	0.47	2.97	0.31	0.83	1.85	1.36
NVPOXB0-60*-S04A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	2.26	0.63	1.61	0.078	0.23	0.91	0.63	0.47	2.90	0.31	0.83	1.85	1.36
NVPMOXB0-60*-S01A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(57.4)	(16.0)	(40.9)	(2.0)	(5.8)	(23.1)	(15.9)	(11.9)	(75.4)	(7.9)	(21.1)	(47.0)	(34.5)
NVPMOXB0-60*-S04A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(57.4)	(16.0)	(40.9)	(2.0)	(5.8)	(23.1)	(15.9)	(11.9)	(73.7)	(7.9)	(21.1)	(47.0)	(34.5)



- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron)
unlubricated, non-corrosive dry gases

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Operating Temperature

-30° to ~250° F (-34° to 121°C)
20° to 120°F [-7° to 49°C]

(Valve option)

Materials

Generator Body: Anodized
Aluminum

Supply line

Min. 5/32" (4mm)

Vacuum line

1/4" (6mm)

Mounting holes

Mounting holes accept 4-40 [M3]
screws

Electrical

24V -5% to 10% (VA/VD, VB/VE
option)

12V -5% to 10% (VC/VF option)

Power Consumption (Watts)

1.6 watts

Response Times

8 milliseconds

Cycle Rate

45 cycles/second

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual Override

Yes

Control valve

12V (VC/VF option) or 24V
normally closed (VA/VD option)
or 24V normally open
(VB/VE option)

Performance level

designations

"M", "Y" 0-20"Hg [0 to 677mbar]
for medium vacuum/high flow
applications "H", "Z" 0-28"Hg
[0 to 948mbar] for high vacuum/
standard flow applications

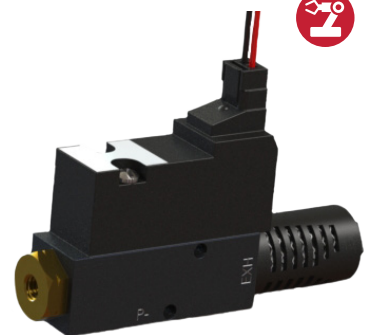
Product options

Standard (NVP00)

Pneumatic blow-off (NVPOX)

Valve Controlled blow-off

(NVP01)



Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer	Blow Off
NVP01VA-60M-S04A00	NC 24V	20"Hg	0.5 SCFM	0.5 SCFM	NST2 Silencer	None
NVP01VA-60H-S04A00	NC 24V	28"Hg	0.5 SCFM	0.8 SCFM	NST2 Silencer	None
NVP01VD-60M-S04A00	NC 24V	20"Hg	0.5 SCFM	0.5 SCFM	NST2 Silencer	Valve Controlled
NVP01VD-60H-S04A00	NC 24V	28"Hg	0.5 SCFM	0.8 SCFM	NST2 Silencer	Valve Controlled

Accessories

Option selector

Series	Substitute
NVP (Imperial Thread)	
NVPM (Metric Thread)	M
Valve	Substitute
NC 24V Vacuum	VA
NO 24V Vacuum	VB
NC 12V Vacuum	VC
NC 24V Vacuum, NC 24V Blow Off	VD
NO 24V Vacuum, NC 24V Blow Off	VE
NC 12V Vacuum, NC 12V Blow Off	VF
Vacuum Flow Level	Substitute
20"Hg @ 80PSI (Standard)	M
28"Hg @ 80PSI (Standard)	H
20"Hg @ 60PSI	Y
28"Hg @ 60PSI	Z

Accessories	Substitute
Extra Ports / No Accessories (standard)	A00
Extra Ports / NVTMV-QD-6	A02
Extra Ports / NVSMN-QD-6	A04
Extra Ports / NVSMP-QD-6	A06
No Port / No Accessories	A99
Silencers	Substitute
None	S00
NAA2 (58dB)	S01
NST2 (68dB)	S04

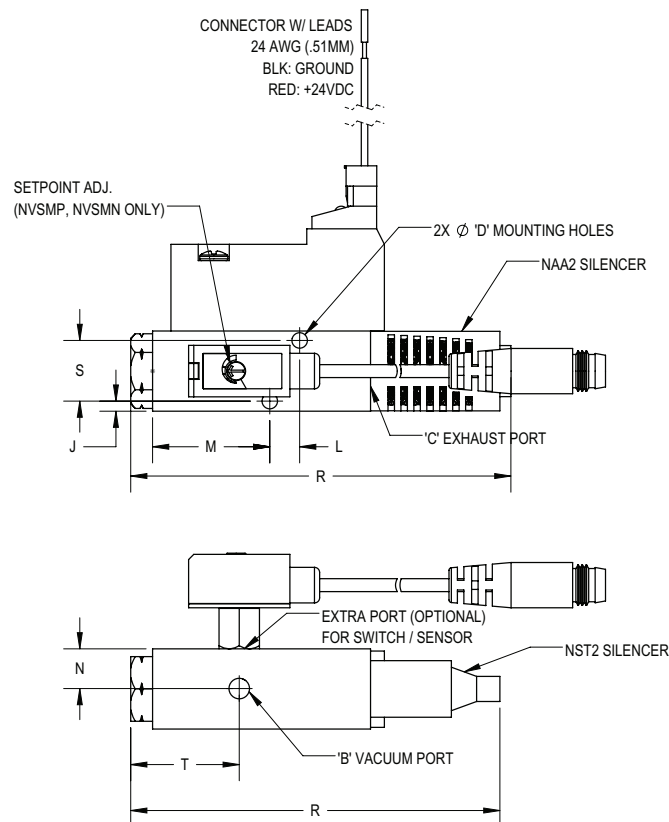
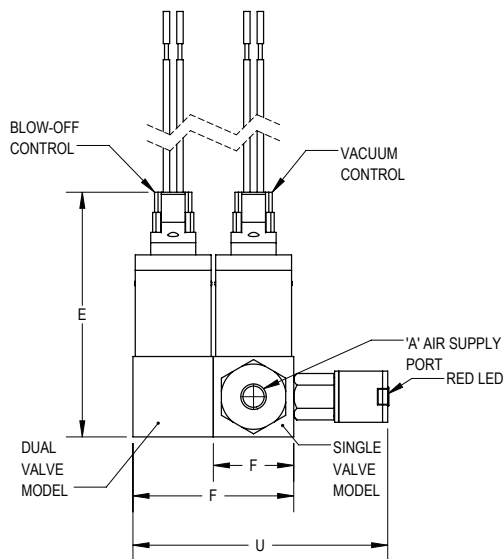
NVP★01★-60★-S★A★

Accessories

Standard Models	Inline Fitting	Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP01VA-60M-S04A00	124250210	124470210	NVCF13-1032M	NBG*****	NFG*****	NVSL1_***
NVP01VA-60H-S04A00	124250210	124470210	NVCF13-1032M	NBG*****	NFG*****	NVSL1_***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



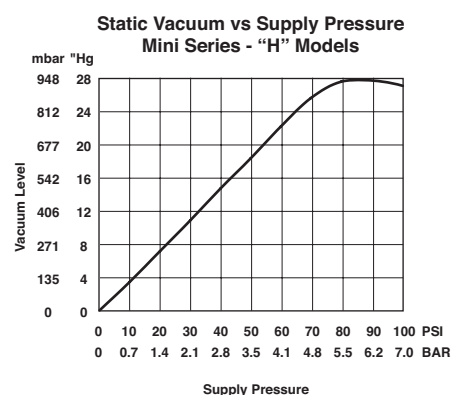
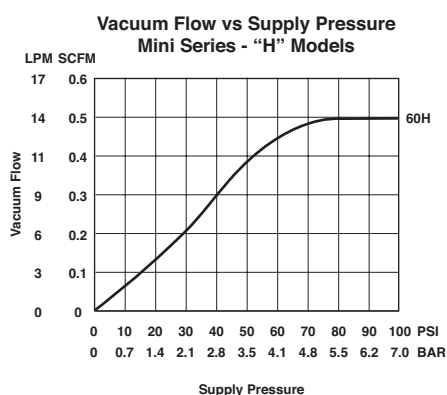
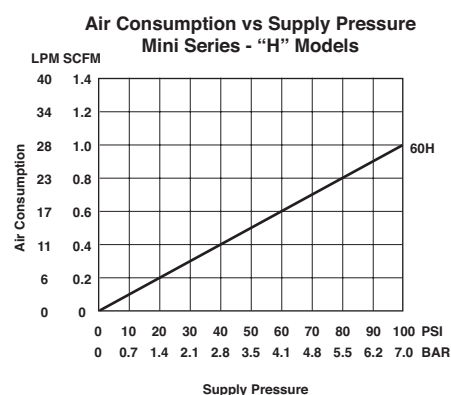
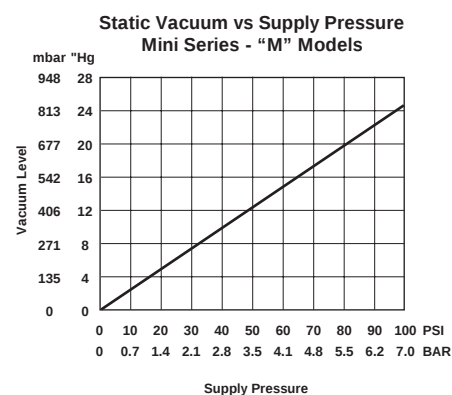
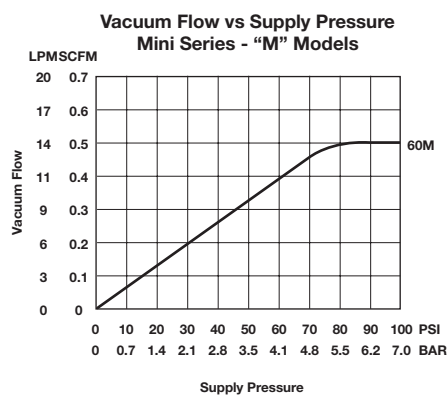
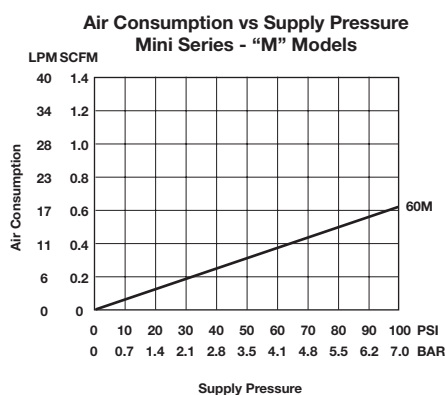
Model	Units	A	B	C	D	E	F	J	L	M	N	R	S	T	U
NVP01VA-60*-S01A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	1.90	0.63	0.08	0.23	0.91	0.31	2.94	0.47	0.84	1.35
NVP01VA-60*-S04A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	1.90	0.63	0.08	0.23	0.91	0.31	2.85	0.47	0.84	1.35
NVPM01VA-60*-S01A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(48.3)	(16.0)	(2.0)	(5.8)	(23.1)	(7.9)	(74.7)	(11.9)	(21.3)	(34.3)
NVPM01VA-60*-S04A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(48.3)	(16.0)	(2.0)	(5.8)	(23.1)	(7.9)	(72.4)	(11.9)	(21.3)	(34.3)
NVP01VD-60*-S01A0*	Imperial	10-32	10-32	1/8 NPTF	0.12	1.90	1.25	0.08	0.23	0.91	0.31	2.94	0.47	0.84	1.98
NVPM01VD-60*-S01A0*	(Metric)	(M5)	(M5)	(G 1/8)	(3.0)	(48.3)	(31.8)	(2.0)	(5.8)	(23.1)	(7.9)	(74.7)	(11.9)	(21.3)	(50.3)



Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
60M	0.50 (14.2)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.40 (11.3)	0.30 (8.5)	0.22 (6.2)	0.15 (4.2)	0.08 (2.3)	0.03 (0.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	12.50 (0.4)	25.10 (0.9)	43.90 (1.6)	68.60 (2.4)	99.30 (3.5)	153.70 (5.4)	227.00 (8.0)	- (-)	- (-)	- (-)	- (-)
60H	0.80 (22.7)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.38 (10.8)	0.32 (9.1)	0.30 (8.5)	0.27 (7.6)	0.23 (6.5)	0.20 (5.7)	- (-)	0.13 (3.7)	0.05 (1.4)	0.02 (0.6)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	15.00 (0.5)	29.80 (1.1)	50.60 (1.8)	74.50 (2.6)	102.80 (3.6)	135.90 (4.8)	- (-)	182.20 (6.5)	245.90 (8.7)	410.20 (14.5)	790.80 (27.9)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



Notes: Standard operating pressure for Norgren generators is 80 PSI [5.5 bar]. Generators can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid:

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to -250° F (-34° to -121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized

Aluminum

Silencer Body: Nylon

Supply/Vacuum Line

1/4" OD for sizes 60 and 90

3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 4-40 [M3] screws

Control Valve

3 way/2 position (faster part release), minimum orifice – 0.125" [3mm]

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar]

for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar]

for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar]

for high vacuum/standard flow applications

Product options

Standard (NVP10)

Pneumatic blow-off (NVP1X)

Multi-port (NVP10MO)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP10-90M-S05A00	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP10-90H-S05A00	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP10-100M-S05A00	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP10-100H-S05A00	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP10-150M-S05A00	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP10-150H-S05A00	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Port if Available / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Port if Available / NVTMV-QD-6		A02	
Vacuum Flow Level		Substitute		Extra Port if Available / NVSMN-QD-6		A04	
Venturi Cartridge 60		60		Extra Port if Available / NVSMP-QD-6		A06	
Venturi Cartridge 90		90		No Port / No Accessories		A99	
Venturi Cartridge 100		100		Silencers		Substitute	
Venturi Cartridge 150		150		None		S00	
Vacuum Level		Substitute		NAA4 (62dB)		S02	
10"Hg @ 80PSI (Standard)		L		NST4 (68dB)		S05	
20"Hg @ 80PSI (Standard)		M		NSTAA4 (58dB)		S12	
28"Hg @ 80PSI (Standard)		H					
10"Hg @ 60PSI		X					
20"Hg @ 60PSI		Y					
28"Hg @ 60PSI		Z					



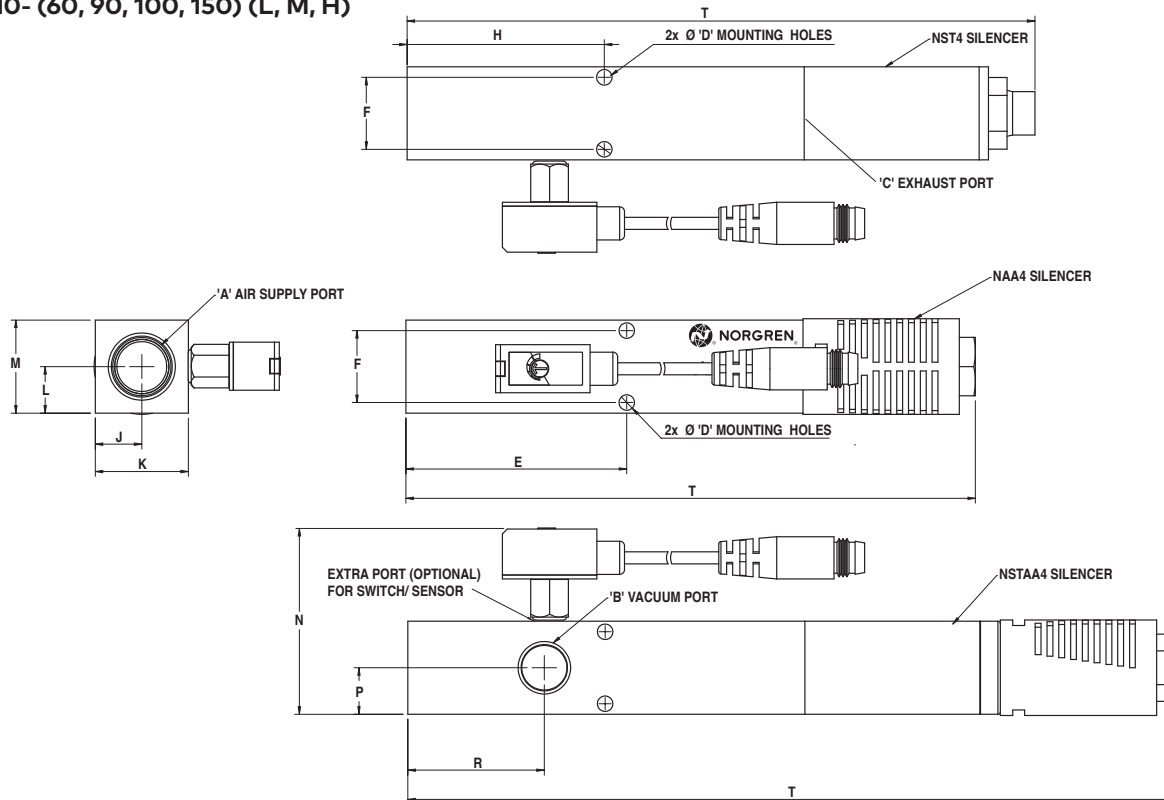
Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP10-90M-S05A00	124250428	124470428	NVCF13-18M	NBG*****	NFG*****	NVSL2-***
NVP10-90H-S05A00	124250428	124470428	NVCF13-18M	NBG*****	NFG*****	NVSL2-***
NVP10-100M-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL2-***
NVP10-100H-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL2-***
NVP10-150M-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL2-***
NVP10-150H-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL2-***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

Dimensions inches (mm)

NVP10- (60, 90, 100, 150) (L, M, H)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	T
NVP10-***-S02A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	1.78	0.58	1.59	0.38	0.75	0.38	0.75	1.48	0.38	1.10	4.59
NVP10-***-S05A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	1.78	0.58	1.59	0.38	0.75	0.38	0.75	1.48	0.38	1.10	5.06
NVP10-***-S12A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	1.78	0.58	1.59	0.38	0.75	0.38	0.75	1.48	0.38	1.10	6.17
NVPM10-***-S02A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(45.2)	(14.7)	(40.4)	(9.5)	(19.1)	(9.5)	(19.1)	(37.6)	(9.5)	(27.9)	(116.6)
NVPM10-***-S05A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(45.2)	(14.7)	(40.4)	(9.5)	(19.1)	(9.5)	(19.1)	(37.6)	(9.5)	(27.9)	(128.5)
NVPM10-***-S12A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(45.2)	(14.7)	(40.4)	(9.5)	(19.1)	(9.5)	(19.1)	(37.6)	(9.5)	(27.9)	(156.6)

NVP1X

Pneumatic Blow-off



1

- » All in one vacuum and blow-off - only compressed air required
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

32° to -125° F (0° to -52°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Generator Options

B1 adjustable version allows the user to set the intensity of the blow-off from no blow-off to full blow-off

Cycle Rates

Up to 120/min

Blow-off Response Time

Instantaneous

Blow-off Duration

100 milliseconds (based on system design)

Orientation

Any

Supply / Vacuum Line

1/4" OD for sizes 60 and 90

3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 4-40 [M3] screws

Control Valve

3 way/2 position (faster part release), minimum orifice - 0.125" [3mm]

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

standard flow applications

Product options

Standard (NVP10)

Pneumatic blow-off (NVP1X)

Multi-port (NVP10MO)



MODULAR VACUUM GENERATORS

Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer	Blowoff
NVP1XB0-90M-S05A00	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer	Non-Adjustable
NVP1XB0-90H-S05A00	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP1XB0-100M-S05A00	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP1XB0-100H-S05A00	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP1XB0-150M-S05A00	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP1XB0-150H-S05A00	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer	Non-Adjustable

Accessories

Option selector

Series

Substitute

NVP (Imperial Thread)

NVPM (Metric Thread)

M

Blowoff

Substitute

Non-adjustable (Standard)

B0

Adjustable

B1

Vacuum Flow Level

Substitute

Venturi Cartridge 60

60

Venturi Cartridge 90

90

Venturi Cartridge 100

100

Venturi Cartridge 150

150

Vacuum Level

Substitute

10"Hg @ 80PSI (Standard)

L

20"Hg @ 80PSI (Standard)

M

28"Hg @ 80PSI (Standard)

H

10"Hg @ 60PSI

X

20"Hg @ 60PSI

Y

28"Hg @ 60PSI

Z

Accessories

Substitute

Extra Port if Available / No Accessories

A00

Extra Port if Available / NVTMV-QD-6

A02

Extra Port if Available / NVSMN-QD-6

A04

Extra Port if Available / NVSMP-QD-6

A06

No Port / No Accessories

A99

Silencers

Substitute

None

S00

NAA4 (62dB)

S02

NST4 (68dB)

S05

NSTAA4 (58dB)

S12

NVP

1XB

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★



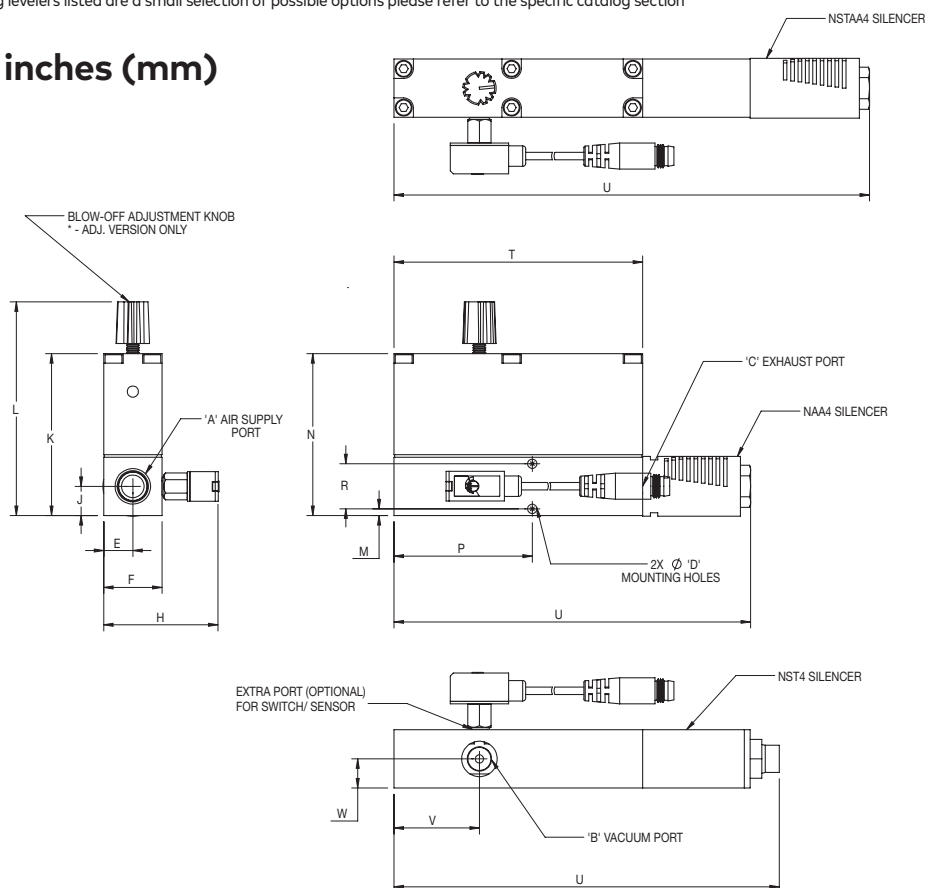
Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP1XB0-90M-S05A00	124250428	124470428	NVCF13-18M	NBG*****	NFG*****	NVSL3-***
NVP1XB0-90H-S05A00	124250428	124470428	NVCF13-18M	NBG*****	NFG*****	NVSL3-***
NVP1XB0-100M-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL3-***
NVP1XB0-100H-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL3-***
NVP1XB0-150M-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL3-***
NVP1XB0-150H-S05A00	124250628	124470628	NVCF13-18M	NBG*****	NFG*****	NVSL3-***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	T	U	V	W
NVP1XB0-***-S02A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	0.38	0.75	1.49	0.38	2.08	2.75	0.09	2.08	1.78	0.58	3.20	6.18	1.10	0.38
NVP1XB0-***-S05A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	0.38	0.75	1.49	0.38	2.08	2.75	0.09	2.08	1.78	0.58	3.20	4.60	1.10	0.38
NVP1XB0-***-S12A0*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	0.38	0.75	1.49	0.38	2.08	2.75	0.09	2.08	1.78	0.58	3.20	5.06	1.10	0.38
NVPM1XB0-***-S02A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(9.7)	(19.1)	(37.8)	(9.5)	(52.8)	(69.9)	(2.3)	(52.8)	(45.2)	(14.7)	(81.3)	(157.0)	(27.9)	(9.5)
NVPM1XB0-***-S05A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(9.7)	(19.1)	(37.8)	(9.5)	(52.8)	(69.9)	(2.3)	(52.8)	(45.2)	(14.7)	(81.3)	(117.0)	(27.9)	(9.5)
NVPM1XB0-***-S12A0*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(9.7)	(19.1)	(37.8)	(9.53)	(52.8)	(69.9)	(2.3)	(52.8)	(45.2)	(14.7)	(81.3)	(128.5)	(27.9)	(9.5)

NVP10M

Multi-Port



1

- » Multi-port version - distribute vacuum to multiple locations
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron)
unlubricated,
non-corrosive dry gases

Operating Temperature

-30° to -250° F (-34° to -121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized
Aluminum

Supply / Vacuum Line

1/4" OD for sizes 60 and 90
3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept
4-40 [M3] screws
Control Valve 3 way/2 position
(faster part release), minimum
orifice – 0.125" [3mm]

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar]
for low vacuum/high flow
applications "M", "Y" 0-20"Hg
[0 to 677mbar] for medium
vacuum/high flow applications
"H", "Z" 0-28"Hg [0 to 948mbar]
for high vacuum/standard flow
applications

Product options

Standard (NVP10)
Pneumatic blow-off (NVP1X)
Multi-port (NVP10M0)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP10M0-90M-S05A00	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP10M0-90H-S05A00	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP10M0-100M-S05A00	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP10M0-100H-S05A00	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP10M0-150M-S05A00	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP10M0-150H-S05A00	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Port if Available / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Port if Available / NVTMV-QD-6		A02	
Vacuum Flow Level		Substitute		Extra Port if Available / NVSMN-QD-6		A04	
Venturi Cartridge 60		60		Extra Port if Available / NVSMP-QD-6		A06	
Venturi Cartridge 90		90					
Venturi Cartridge 100		100		Silencers		Substitute	
Venturi Cartridge 150		150		None		S00	
Vacuum Level		Substitute		NAA4 (62dB)		S02	
10"Hg @ 80PSI (Standard)		L		NST4 (68dB)		S05	
20"Hg @ 80PSI (Standard)		M		NSTAA4 (58dB)		S12	
28"Hg @ 80PSI (Standard)		H					
10"Hg @ 60PSI		X					
20"Hg @ 60PSI		Y					
28"Hg @ 60PSI		Z					

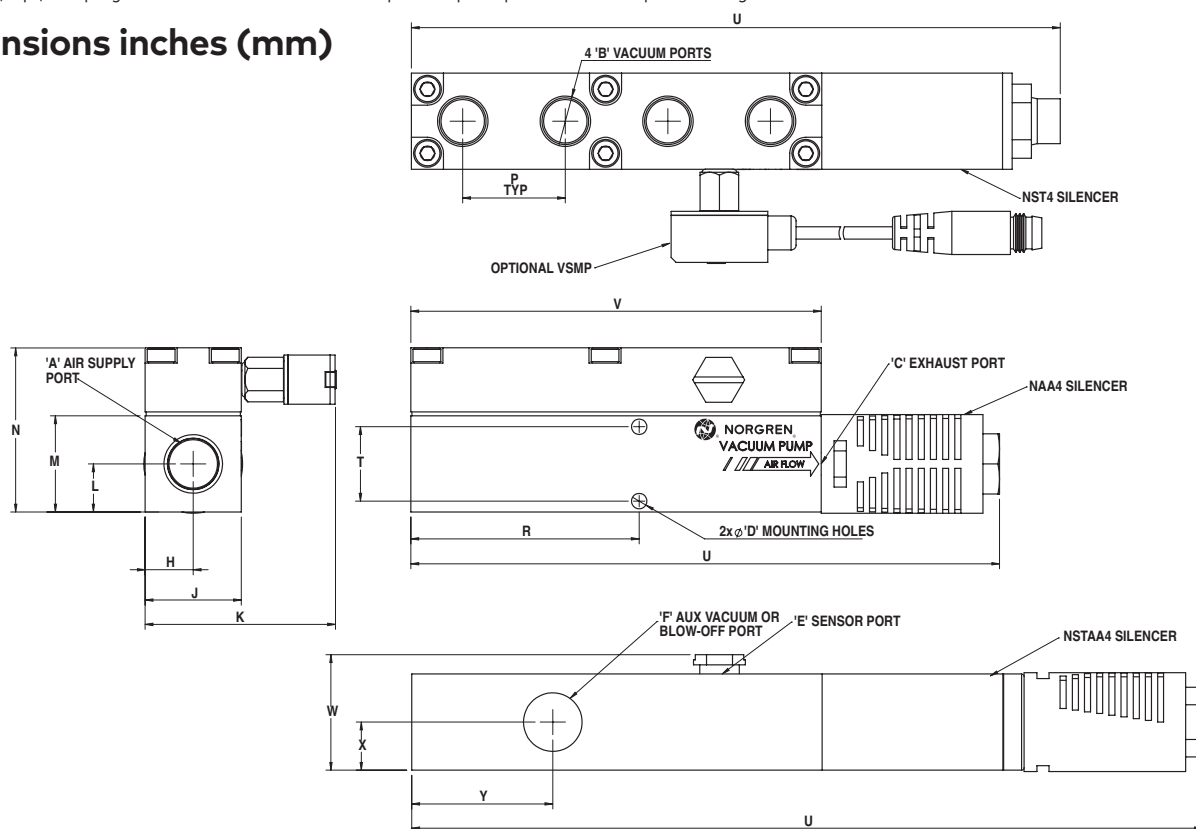
Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting
			
NVP10M0-90M-S05A00	124250428	124470428	124470418
NVP10M0-90H-S05A00	124250428	124470428	124470418
NVP10M0-100M-S05A00	124250628	124470628	124470618
NVP10M0-100H-S05A00	124250628	124470628	124470618
NVP10M0-150M-S05A00	124250628	124470628	124470618
NVP10M0-150H-S05A00	124250628	124470628	124470618

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory.

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	T	U	V	W
NVP10MO-***-S02AO*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.13	10-32	1/8 NPTF	0.38	0.75	1.49	0.38	0.75	1.28	0.80	1.78	0.58	4.59	3.20	0.92
NVP10MO-***-S05AO*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.13	10-32	1/8 NPTF	0.38	0.75	1.49	0.38	0.75	1.28	0.80	1.78	0.58	5.06	3.20	0.92
NVP10MO-***-S12AO*	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.13	10-32	1/8 NPTF	0.38	0.75	1.49	0.38	0.75	1.28	0.80	1.78	0.58	6.17	3.20	0.92
NVPM10MO-***-S02AO*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.3)	M5	(G 1/8)	(9.7)	(19.1)	(37.7)	(9.5)	(19.1)	(32.5)	(20.3)	(45.2)	(14.7)	(116.6)	(9.7)	(23.2)
NVPM10MO-***-S05AO*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.3)	M5	(G 1/8)	(9.7)	(19.1)	(37.7)	(9.5)	(19.1)	(32.5)	(20.3)	(45.2)	(14.7)	(128.5)	(9.7)	(23.2)
NVPM10MO-***-S12AO*	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.3)	M5	(G 1/8)	(9.7)	(19.1)	(37.7)	(9.5)	(19.1)	(32.5)	(20.3)	(45.2)	(14.7)	(156.5)	(9.7)	(23.2)

NVP10, NVP1X, AND NVP10M



1

MODULAR VACUUM GENERATORS

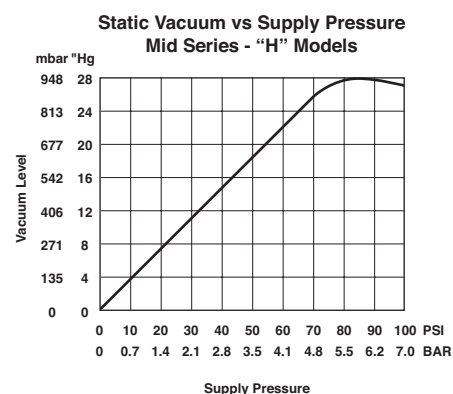
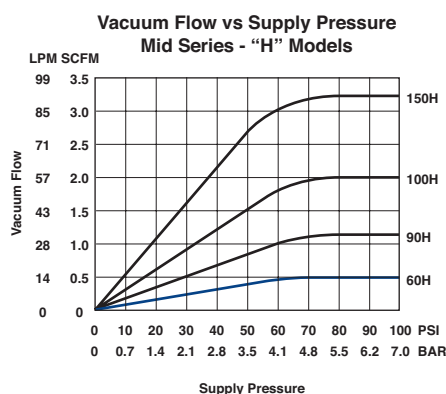
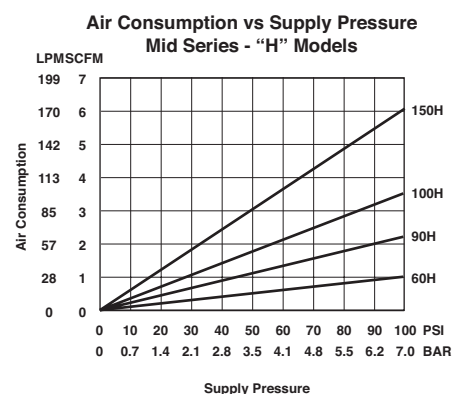
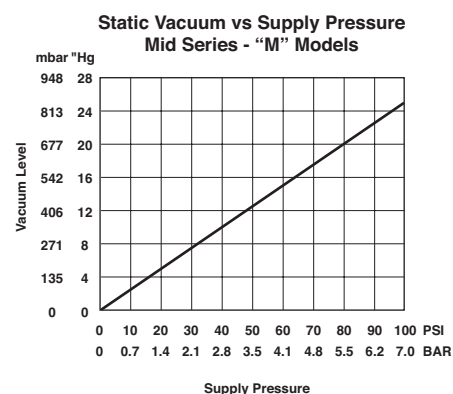
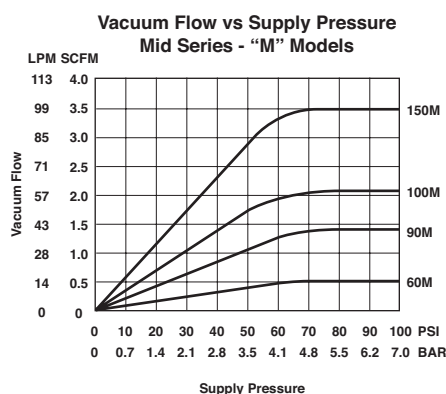
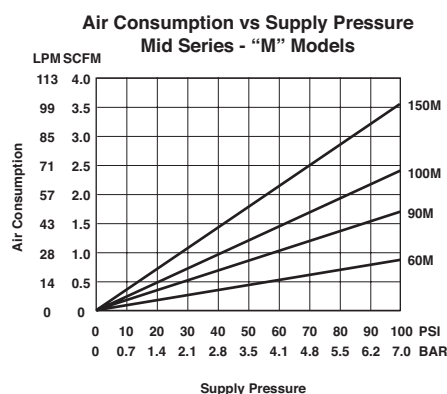
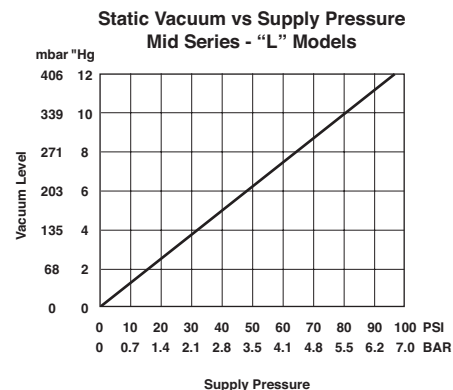
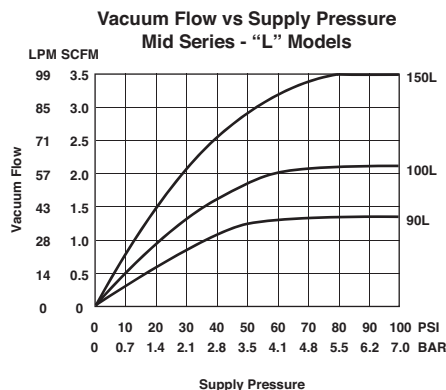
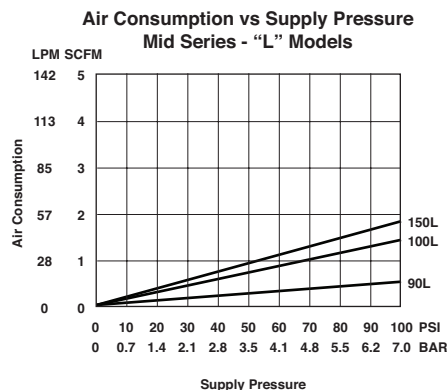
Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	10"Hg (339)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
90L	0.50 (14.2)	Vacuum Flow SCFM (L/min)	1.30 (36.8)	1.10 (31.1)	0.70 (19.8)	0.20 (5.7)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.26 (0.1)	7.93 (0.3)	18.65 (0.7)	39.63 (1.4)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
100L	1.40 (39.6)	Vacuum Flow SCFM (L/min)	2.10 (59.5)	1.60 (45.3)	1.10 (31.1)	0.50 (14.2)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.33 (0.1)	4.66 (0.2)	10.88 (0.4)	24.00 (0.9)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
150L	1.80 (51)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	2.50 (70.8)	1.90 (53.8)	0.70 (19.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.54 (0.1)	4.36 (0.2)	10.77 (0.4)	22.83 (0.8)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
60M	0.50 (14.2)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.40 (11.3)	0.30 (8.5)	0.22 (6.2)	- (-)	0.15 (4.2)	0.08 (2.3)	0.03 (0.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	12.50 (0.4)	25.10 (0.9)	43.90 (1.6)	- (-)	68.60 (2.4)	99.30 (3.5)	153.70 (5.4)	227.00 (8.0)	- (-)	- (-)	- (-)	- (-)
90M	1.40 (39.6)	Vacuum Flow SCFM (L/min)	1.40 (39.6)	1.25 (35.4)	1.20 (34.0)	1.05 (29.7)	- (-)	0.85 (24.1)	0.65 (18.4)	0.25 (7.1)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.75 (0.1)	7.20 (0.3)	12.40 (0.4)	- (-)	19.10 (0.7)	29.90 (1.1)	52.00 (1.8)	104.00 (3.7)	- (-)	- (-)	- (-)	- (-)
100M	1.80 (51)	Vacuum Flow SCFM (L/min)	2.10 (59.5)	2.00 (56.6)	1.85 (52.4)	1.75 (49.6)	- (-)	1.60 (45.3)	1.25 (35.4)	0.80 (22.7)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.65 (0.1)	5.80 (0.2)	9.90 (0.3)	- (-)	16.20 (0.6)	22.90 (0.8)	36.20 (1.3)	56.60 (2.0)	- (-)	- (-)	- (-)	- (-)
150M	2.80 (79.3)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	3.20 (90.6)	2.95 (83.5)	2.75 (77.9)	- (-)	2.50 (70.8)	1.80 (51.0)	0.95 (26.9)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.35 (0.0)	3.20 (0.1)	5.20 (0.2)	- (-)	7.70 (0.3)	11.80 (0.4)	23.40 (0.8)	52.00 (1.8)	- (-)	- (-)	- (-)	- (-)
60H	0.80 (22.7)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.38 (10.8)	0.32 (9.1)	0.30 (8.5)	- (-)	0.27 (7.6)	0.23 (6.5)	0.20 (5.7)	- (-)	0.13 (3.7)	0.05 (1.4)	0.02 (0.6)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	15.00 (0.5)	29.80 (1.1)	50.60 (1.8)	- (-)	74.50 (2.6)	102.80 (3.6)	135.90 (4.8)	- (-)	183.20 (6.5)	245.90 (8.7)	410.20 (14.5)	790.80 (27.9)
90H	1.80 (51)	Vacuum Flow SCFM (L/min)	1.20 (34.0)	1.00 (28.3)	0.95 (26.9)	0.90 (25.5)	- (-)	0.85 (24.1)	0.75 (21.2)	0.70 (19.8)	- (-)	0.52 (14.7)	0.47 (13.3)	0.20 (5.7)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	6.50 (0.2)	12.30 (0.4)	18.90 (0.7)	- (-)	32.50 (1.1)	47.00 (1.7)	65.40 (2.3)	- (-)	92.20 (3.3)	130.00 (4.6)	222.20 (7.8)	281.30 (9.9)
100H	2.80 (79.3)	Vacuum Flow SCFM (L/min)	2.00 (56.6)	1.85 (52.4)	1.75 (49.6)	1.57 (44.5)	- (-)	1.40 (39.6)	1.25 (35.4)	1.05 (29.7)	- (-)	0.84 (23.8)	0.70 (19.8)	0.35 (9.9)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.70 (0.1)	6.50 (0.2)	11.20 (0.4)	- (-)	17.50 (0.6)	25.80 (0.9)	38.40 (1.4)	- (-)	55.20 (1.90)	79.20 (2.8)	166.70 (5.9)	251.80 (8.9)
150H	4.80 (135.9)	Vacuum Flow SCFM (L/min)	3.20 (90.6)	2.80 (79.3)	2.50 (70.8)	2.30 (65.1)	- (-)	2.00 (56.6)	1.60 (45.3)	1.40 (39.6)	- (-)	1.20 (34.0)	0.80 (22.7)	0.50 (14.2)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.30 (0.1)	3.80 (0.1)	6.50 (0.2)	- (-)	10.20 (0.4)	14.20 (0.5)	21.30 (0.8)	- (-)	44.90 (1.6)	55.00 (1.9)	81.00 (2.9)	125.00 (4.4)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



Performance Data



Notes: Standard operating pressure for Norgren generators is 80 PSI [5.5 bar]. Generators can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid:

Filtered (50 Micron)
unlubricated, non-corrosive
dry gases

Operating Temperature

-30° to ~250° F (-34° to ~121°C C)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized
Aluminum

Supply/Vacuum Line

1/4" OD for sizes 60 and 90
3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 10-32[M5]
screws

Control Valve

3 way/2 position (faster part
release), minimum orifice –
0.125" [3mm]

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar]

for low vacuum/high flow
applications

"M", "Y" 0-20"Hg [0 to 677mbar]

for medium vacuum/high flow
applications

"H", "Z" 0-28"Hg [0 to 948mbar]

for high vacuum/standard flow
applications

Product options

Standard (NVP20)

Pneumatic blow-off (NVP2X)

Valve controlled blow-off
(NVP20V)

Multi-port (NVP20M0)

Air Saver (NVP20CO)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP20-90M-S05A00	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP20-90H-S05A00	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP20-100M-S05A00	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP20-100H-S05A00	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP20-150M-S05A00	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP20-150H-S05A00	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Ports / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Ports / NVTMV-QD-6		A02	
Vacuum Flow Level		Substitute		Extra Ports / NVSMN-QD-6		A04	
Venturi Cartridge 60		60		Extra Ports / NVSMP-QD-6		A06	
Venturi Cartridge 90		90		Extra Ports / NSX-5		A07	
Venturi Cartridge 100		100		Extra Ports / NVG-150-GF		A38	
Venturi Cartridge 150		150		Extra Ports / NVTMV-QD-6 / NVG-150-GF		A22	
Vacuum Level		Substitute		Extra Ports / NVSMN-QD-6 / NVG-150-GF		A24	
10"Hg @ 80PSI (Standard)		L		Extra Ports / NVSMP-QD-6 / NVG-150-GF		A26	
20"Hg @ 80PSI (Standard)		M		Silencers		Substitute	
28"Hg @ 80PSI (Standard)		H		None		S00	
10"Hg @ 60PSI		X		NAA4 (62dB)		S02	
20"Hg @ 60PSI		Y		NST4 (68dB)		S05	
28"Hg @ 60PSI		Z		NSTAA4 (58dB)		S12	



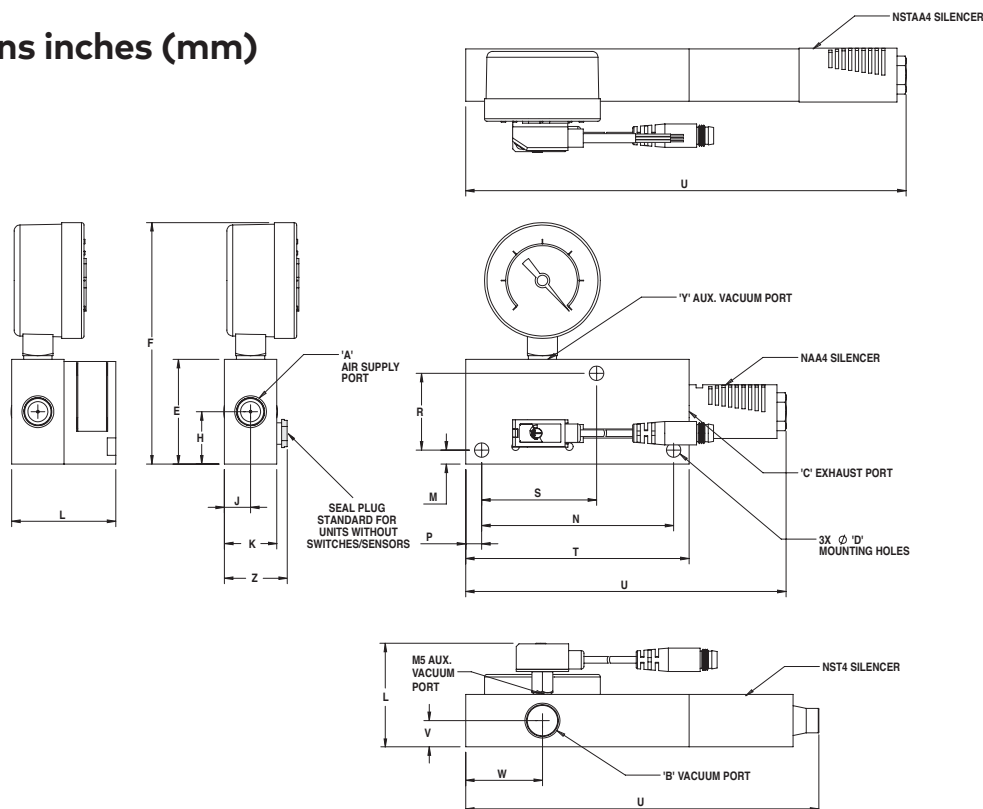
Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP20-90M-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-90H-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-100M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-100H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-150M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-150H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	Y	Z
NVP20-****-S02A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	1.50	3.46	0.75	0.38	0.75	N/A	0.20	2.75	0.23	1.10	1.65	3.20	4.59	0.38	1.10	1/8 NPTF	0.92
NVP20-****-S05A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	1.50	3.46	0.75	0.38	0.75	N/A	0.20	2.75	0.23	1.10	1.65	3.20	5.06	0.38	1.10	1/8 NPTF	0.92
NVP20-****-S12A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	1.50	3.46	0.75	0.38	0.75	N/A	0.20	2.75	0.23	1.10	1.65	3.20	6.31	0.38	1.10	1/8 NPTF	0.92
NVP20-****-S**A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	1.50	3.46	0.75	0.38	0.75	1.49	0.20	2.75	0.23	1.10	1.65	3.20	N/A	0.38	1.10	1/8 NPTF	N/A
NVPM20-****-S02A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(38.1)	(87.9)	(19.1)	(9.5)	(19.1)	N/A	(5.1)	(69.9)	(5.8)	(27.9)	(41.9)	(81.8)	(116.6)	(9.5)	(27.9)	(G 1/8)	(23.2)
NVPM20-****-S05A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(38.1)	(87.9)	(19.1)	(9.5)	(19.1)	N/A	(5.1)	(69.9)	(5.8)	(27.9)	(41.9)	(81.8)	(128.5)	(9.5)	(27.9)	(G 1/8)	(23.2)
NVPM20-****-S12A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(38.1)	(87.9)	(19.1)	(9.5)	(19.1)	N/A	(5.1)	(69.9)	(5.8)	(27.9)	(41.9)	(81.8)	(160.3)	(9.5)	(27.9)	(G 1/8)	(23.2)
NVPM20-****-S**A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(38.1)	(87.9)	(19.1)	(9.5)	(19.1)	(37.9)	(5.1)	(69.9)	(5.8)	(27.9)	(41.9)	(81.8)	N/A	(9.5)	(27.9)	(G 1/8)	N/A

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid:

Filtered (50 Micron)
unlubricated, non-corrosive dry gases

Operating Temperature

-30° to -250° F (-34° to -121°C)
-20° to -120° F (-7° to -49°C)
(Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply/Vacuum Line

1/4" OD for sizes 60 and 90
3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept
10-32[M5] screws

Electrical

24V - 5% to 10% (VA/VD,
VB/VE option)
12V - 5% to 10% (VA/VD,
VB/VE option)

Power Consumption

1.6 watts

Response Times

8 milliseconds

Cycle Rate (cycles/second)

45 cycles/second

Electrical Connection

11.8" Flying Leads

LED Indicator with Manual Override

Yes

Control Valve

12V (VC/VF option) or 24V
normally closed (VA/VD option)
or 24V normally open (VB/VE
option)



Performance Level Designations

"L", "X" 0-10"Hg [0 to 339mbar]
for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar]
for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar]
for high vacuum/standard flow applications

Product options

Standard (NVP20)

Pneumatic blow-off (NVP2X)

Valve controlled blow off

(NVP20V)

Multi-port (NVP20M)

Air Saver (NVP20C)

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer	Blow Off
NVP20VA-90M-S05A00	NC 24V	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer	None
NVP20VA-90H-S05A00	NC 24V	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer	None
NVP20VA-100M-S05A00	NC 24V	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer	None
NVP20VA-100H-S05A00	NC 24V	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer	None
NVP20VA-150M-S05A00	NC 24V	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer	None
NVP20VA-150H-S05A00	NC 24V	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer	None
NVP20VD-90M-S05A00	NC 24V	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer	Valve Controlled
NVP20VD-90H-S05A00	NC 24V	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer	Valve Controlled
NVP20VD-100M-S05A00	NC 24V	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer	Valve Controlled
NVP20VD-100H-S05A00	NC 24V	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer	Valve Controlled
NVP20VD-150M-S05A00	NC 24V	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer	Valve Controlled
NVP20VD-150H-S05A00	NC 24V	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer	Valve Controlled

Accessories

Option selector

Series	Substitute
NVP20 (Imperial Thread)	
NVPM20 (Metric Thread)	M
Valve	Substitute
NC 24V Vacuum	VA
NO 24V Vacuum	VB
NC 12V Vacuum	VC
NC 24V Vacuum, NC 24V Blow Off	VD
NO 24V Vacuum, NC 24V Blow Off	VE
NC 12V Vacuum, NC 12V Blow Off	VF
Vacuum Level	Substitute
10"Hg @ 80PSI (Standard)	L
20"Hg @ 80PSI (Standard)	M
28"Hg @ 80PSI (Standard)	H
10"Hg @ 60PSI	X
20"Hg @ 60PSI	Y
28"Hg @ 60PSI	Z

NVP★20V★-★★★-S★★A★★

Accessories	90
Extra Ports / No Accessories	A00
Extra Ports / NVTMV-QD-6	A02
Extra Ports / NVSMN-QD-6	A04
Extra Ports / NVSMP-QD-6	A06
Extra Ports / NSX-5	A07
Extra Ports / NVTMV-QD-6 / NVG-150-GF	A22
Extra Ports / NVSMN-QD-6 / NVG-150-GF	A24
Extra Ports / NVSMP-QD-6 / NVG-150-GF	A26
Extra Ports / NVG-150-GF	A38
Silencers	Substitute
None	S00
NAA4 (62dB)	S02
NST4 (68dB)	S05
NSTAA4 (58dB)	S12
Vacuum Flow Level	Substitute
Venturi Cartridge 60	60
Venturi Cartridge 90	90
Venturi Cartridge 100	100
Venturi Cartridge 150	150

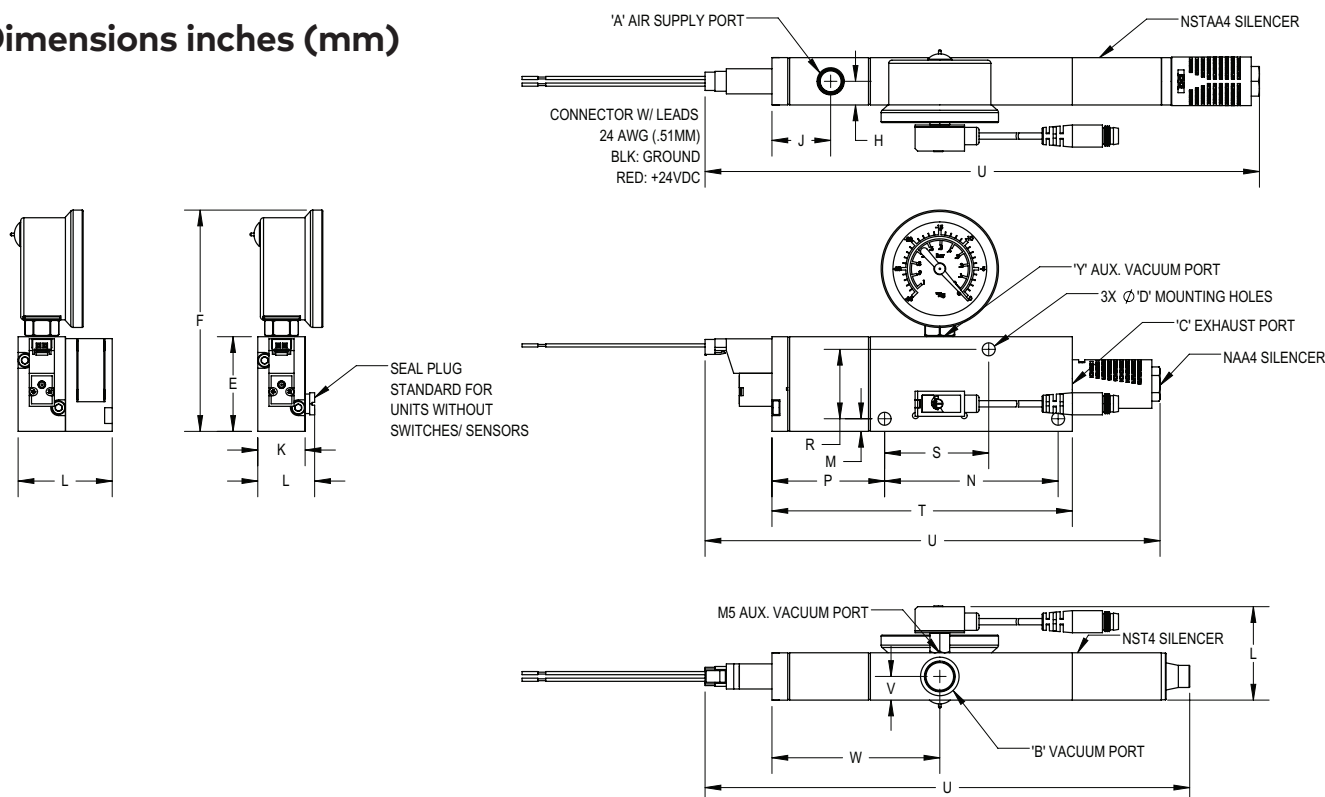


Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP20-90M-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-90H-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-100M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-100H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-150M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP20-150H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***

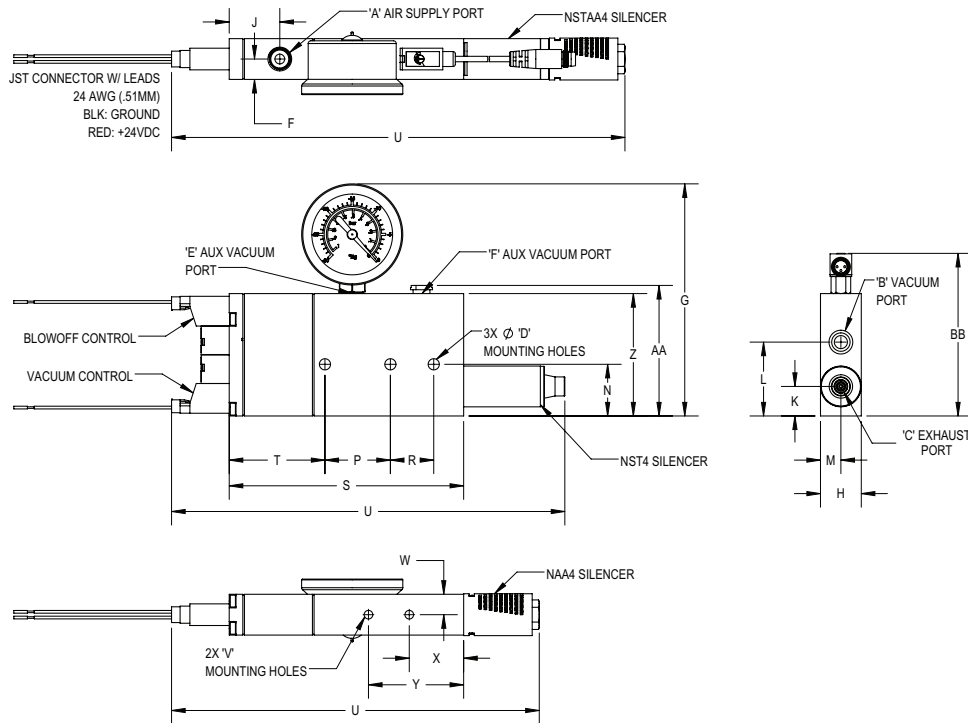
*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	Y
NVP20-****-S02A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	1.50	3.51	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	7.21	0.38	2.66	1/8 NPTF
NVP20-****-S05A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	1.50	3.51	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	7.68	0.38	2.66	1/8 NPTF
NVP20-****-S12A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	1.50	3.51	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	8.79	0.38	2.66	1/8 NPTF
NVP20-****-S**A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	1.50	3.51	0.38	0.93	0.75	1.49	0.20	2.75	1.79	1.10	1.65	4.76	N/A	0.38	2.66	1/8 NPTF
NVPM20-****-S02A0*	Metric	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(38.1)	(89.2)	(9.7)	(23.6)	(19.1)	(22.9)	(5.1)	(69.9)	(45.5)	(27.9)	(41.9)	(120.9)	(183.1)	(9.7)	(67.6)	(G 1/8)
NVPM20-****-S05A0*	Metric	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(38.1)	(89.2)	(9.7)	(23.6)	(19.1)	(22.9)	(5.1)	(69.9)	(45.5)	(27.9)	(41.9)	(120.9)	(195.1)	(9.7)	(67.6)	(G 1/8)
NVPM20-****-S12A0*	Metric	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(38.1)	(89.2)	(9.7)	(23.6)	(19.1)	(22.9)	(5.1)	(69.9)	(45.5)	(27.9)	(41.9)	(120.9)	(223.3)	(9.7)	(67.6)	(G 1/8)
NVPM20-****-S**A0*	Metric	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(38.1)	(89.2)	(9.7)	(23.6)	(19.01)	(37.9)	(5.1)	(69.9)	(45.5)	(27.9)	(41.9)	(120.9)	N/A	(9.7)	(67.6)	(G 1/8)

Dimensions inches (mm)



Models	Units	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	AA	BB
NVP20V*- ****-S00A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.21	1/8 NPTF	0.38	4.27	0.75	0.93	0.54	1.36	0.38	0.95	1.20	0.80	4.31	1.76	6.76	10-32	0.38	1.00	1.75	2.25	2.40	N/A
NVP20V*- ****-S02A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.21	1/8 NPTF	0.38	4.27	0.75	0.93	0.54	1.36	0.38	0.95	1.20	0.80	4.31	1.76	7.23	10-32	0.38	1.00	1.75	2.25	2.40	N/A
NVP20V*- ****-S05A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.21	1/8 NPTF	0.38	4.27	0.75	0.93	0.54	1.36	0.38	0.95	1.20	0.80	4.31	1.76	8.34	10-32	0.38	1.00	1.75	2.25	N/A	3.00
NVP20V*- ***-S12A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.21	1/8 NPTF	0.38	4.27	0.75	0.93	0.54	1.36	0.38	0.95	1.20	0.80	4.31	1.76	N/A	10-32	0.38	1.00	1.75	2.25	N/A	3.00
NVPM20V*- ***-S00A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.3)	(G 1/8)	(9.7)	(108.5)	(19.0)	(23.6)	(13.7)	(34.5)	(47.6)	(24.1)	(30.5)	(20.3)	(109.5)	(44.7)	(171.7)	(M5)	(9.7)	(25.4)	(44.4)	(57.1)	(61.0)	N/A
NVPM20V*- ***-S02A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.3)	(G 1/8)	(9.7)	(108.5)	(19.0)	(23.6)	(13.7)	(34.5)	(47.6)	(24.1)	(30.5)	(20.3)	(109.5)	(44.7)	(183.6)	(M5)	(9.7)	(25.4)	(44.4)	(57.1)	(61.0)	N/A
NVPM20V*- ***-S05A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.3)	(G 1/8)	(9.7)	(108.5)	(19.0)	(23.6)	(13.7)	(34.5)	(47.6)	(24.1)	(30.5)	(20.3)	(109.5)	(44.7)	(211.8)	(M5)	(9.7)	(25.4)	(44.4)	(57.1)	N/A	(76.2)
NVPM20V*- ***-S12A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.3)	(G 1/8)	(9.7)	(108.5)	(19.0)	(23.6)	(13.7)	(34.5)	(47.6)	(24.1)	(30.5)	(20.3)	(109.5)	(44.7)	N/A	(M5)	(9.7)	(25.4)	(44.4)	(57.1)	N/A	(76.2)

NVP2X

Pneumatic Blow-off



- » All in one vacuum and blow-off - only compressed air required
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid:

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

32° to ~125° F (0° to ~52°C)

20° to ~120° F (-7° to ~49°C)

(Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or

60 PSI (4.1 bar)

Materials

Generator Body: Anodized

Aluminum

Generator Options

B1 adjustable version allows the user to set the intensity of the blow-off from no blow-off to full blow-off

Cycle Rates

45 cycles/sec., Up to 120/min

Blow-off Response Time

Instantaneous

Pneumatic blow-off

Blow-off Duration

100 milliseconds (based on system design)

Orientation

Any

Electrical

24V - 5% to 10% (VA/VD,VB/VE option)

12V - 5% to 10% (VC/VF option)

Power Consumption

1.6 watts

Response Times

8 milliseconds

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual

Override

Yes

Supply/Vacuum Line

1/4" OD for sizes 60 and 90

3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 10-32 [M5] screws

Control Valve

12V (VC/VF option) or 24V normally

closed (VA/VD option) or 24V

normally open (VB/VE option)

**Performance Level Designations**

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Product Options

Standard (NVP20)

Pneumatic blow-off (NVP2X)

Valve controlled blow-off

(NVP20V)

Multi-port (NVP20M)

Air Saver (NVP20C)

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer	Blowoff
NVP2XB0-90M-S05A00	None	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer	Non-Adjustable
NVP2XB0-90H-S05A00	None	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XB0-100M-S05A00	None	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XB0-100H-S05A00	None	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XB0-150M-S05A00	None	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XB0-150H-S05A00	None	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-90M-S05A00	NC 24V	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-90H-S05A00	NC 24V	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-100M-S05A00	NC 24V	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-100H-S05A00	NC 24V	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-150M-S05A00	NC 24V	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer	Non-Adjustable
NVP2XBA-150H-S05A00	NC 24V	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer	Non-Adjustable

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Port if Available / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Port if Available / NVTMV-QD-6		A02	
Blowoff		Substitute		Extra Port if Available / NVSMN-QD-6		A04	
Non-adjustable, No valve		BO		Extra Port if Available / NVSMP-QD-6		A06	
Adjustable, No valve		B1		Extra Port if Available / NSX-5		A07	
Non-Adjustable, NC 24V Vacuum		BA		Silencers		Substitute	
Non-Adjustable, NO 24V Vacuum		BB		None		S00	
Non-Adjustable, NC 12V Vacuum		BC		NAA4 (62dB)		S02	
Adjustable, NC 24V Vacuum		BD		NST4 (68dB)		S05	
Adjustable, NO 24V Vacuum		BE		NSTAA4 (58dB)		S12	
Adjustable, NC 12V Vacuum		BF		Vacuum Level		Substitute	
Non-Adjustable, NC 24V Rnd Body Vacuum		BG		10"Hg @ 80PSI (Standard)		L	
Non-Adjustable, NC 24V Rnd Body Vacuum, M8		BH		20"Hg @ 80PSI (Standard)		M	
Adjustable, NC 24V Rnd Body Vacuum		BJ		28"Hg @ 80PSI (Standard)		H	
Adjustable, NC 24V Rnd Body Vacuum		BK		10"Hg @ 60PSI		X	
				20"Hg @ 60PSI		Y	
				28"Hg @ 60PSI		Z	

NVP★2XB★-★★★-S★★A★★

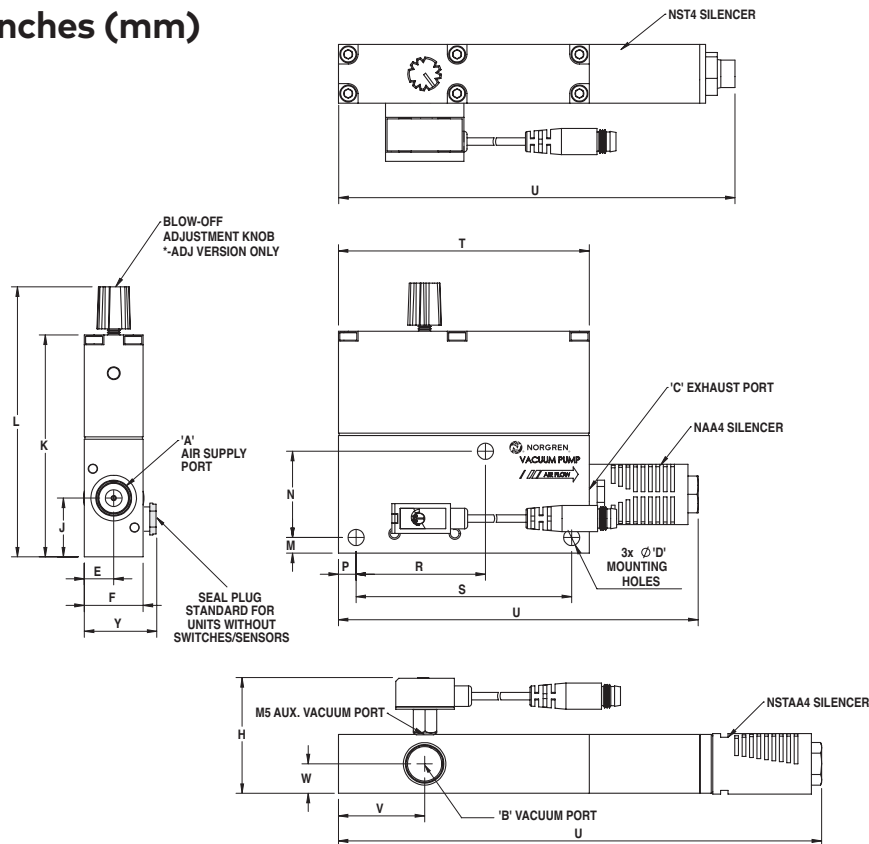
Vacuum Flow Level	Substitute
Venturi Cartridge 60	60
Venturi Cartridge 90	90
Venturi Cartridge 100	100
Venturi Cartridge 150	150

Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP2X-90M-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-90H-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-100M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-100H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-150M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-150H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	Y
NVP2XB0-****-S02A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	0.38	0.75	1.49	0.75	2.83	3.49	0.20	1.10	0.23	1.65	2.75	3.20	4.59	1.10	0.375	0.92
NVP2XB0-****-S05A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	0.38	0.75	1.49	0.75	2.83	3.49	0.20	1.10	0.23	1.65	2.75	3.20	5.06	1.10	0.375	0.92
NVP2XB0-****-S12A0*	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	0.38	0.75	1.49	0.75	2.83	3.49	0.20	1.10	0.23	1.65	2.75	3.20	6.31	1.10	0.375	0.92
NVPM2XB0-****-S02A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(9.7)	(19.1)	(37.9)	(19.1)	(71.9)	(88.7)	(5.1)	(27.9)	(5.8)	(41.9)	(69.9)	(81.8)	(116.6)	(27.9)	(9.5)	(23.2)
NVPM2XB0-****-S05A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(9.7)	(19.1)	(37.9)	(19.1)	(71.9)	(88.7)	(5.1)	(27.9)	(5.8)	(41.9)	(69.9)	(81.8)	(128.5)	(27.9)	(9.5)	(23.2)
NVPM2XB0-****-S12A0*	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(9.7)	(19.1)	(37.9)	(19.1)	(71.9)	(88.7)	(5.1)	(27.9)	(5.8)	(41.9)	(69.9)	(81.8)	(160.3)	(27.9)	(9.5)	(23.2)



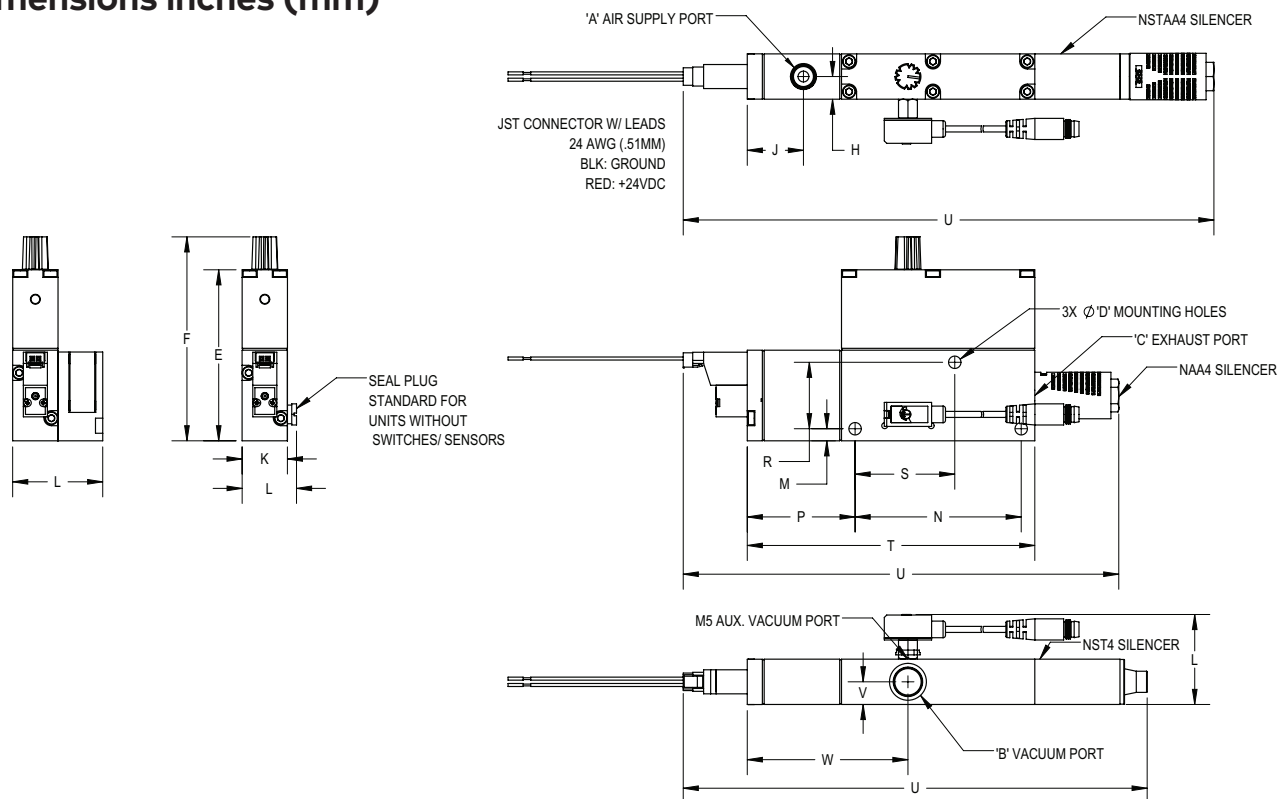
Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP2X-90M-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-90H-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-100M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-100H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-150M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP2X-150H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W
NVP2XB0-****-S02A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	2.83	3.38	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	7.21	0.38	2.66
NVP2XB0-****-S05A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	2.83	3.38	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	7.68	0.38	2.66
NVP2XB0-****-S12A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	2.83	3.38	0.38	0.93	0.75	0.90	0.20	2.75	1.79	1.10	1.65	4.76	8.79	0.38	2.66
NVP2XB0-****-S**A0*	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	2.83	3.38	0.38	0.93	0.75	1.49	0.20	2.75	1.79	1.10	1.65	4.76	N/A	0.38	2.66
NVPM2XB0-****-S02A0*	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(71.9)	(85.9)	(9.7)	(23.6)	(19.0)	(22.9)	(5.1)	(69.8)	(45.5)	(27.9)	(41.9)	(120.9)	(183.1)	(9.7)	(67.6)
NVPM2XB0-****-S05A0*	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(71.9)	(85.9)	(9.7)	(23.6)	(19.0)	(22.9)	(5.1)	(69.8)	(45.5)	(27.9)	(41.9)	(120.9)	(195.1)	(9.7)	(67.6)
NVPM2XB0-****-S12A0*	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(71.9)	(85.9)	(9.7)	(23.6)	(19.0)	(22.9)	(5.1)	(69.8)	(45.5)	(27.9)	(41.9)	(120.9)	(223.3)	(9.7)	(67.6)
NVPM2XB0-****-S**A0*	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(71.9)	(85.9)	(9.7)	(23.6)	(19.0)	(37.8)	(5.1)	(69.8)	(45.5)	(27.9)	(41.9)	(120.9)	N/A	(9.7)	(67.6)

NVP20M

Multi-Port



1

MODULAR VACUUM GENERATORS

- » Multi-port version - distribute vacuum to multiple locations
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid:

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to ~250° F (-34° to ~121°C)
20° to ~120° F (-7° to ~49°C)

(Valve Option)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply/Vacuum Line

1/4" OD for sizes 60 and 90
3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 10-32
[M5] screws

Electrical

24V - 5% to 10% (VA/VD,
VB/VE option)

12V - 5% to 10% (VC/VF option)

Power Consumption

1.6 watts

Response Times

8 milliseconds

Cycle Rate (cycles/second)

45 cycles/second

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual

Override

Yes

Control Valve

12V (VC/VF option) or 24V

normally closed (VA/VD option) or
24V normally open (VB/VE option)

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar] for
low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar]



for medium vacuum/high flow applications
"H", "Z" 0-28"Hg [0 to 948mbar]
for high vacuum/standard flow applications vacuum/high flow applications

Product options

Standard (NVP20)

Pneumatic blow-off (NVP2X)

Valve controlled blow-off

(NVP20V)

Multi-port (NVP20M)

Air Saver (NVP20C)

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP20M0-90M-S05A38	None	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP20M0-90H-S05A38	None	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP20M0-100M-S05A38	None	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP20M0-100H-S05A38	None	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP20M0-150M-S05A38	None	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP20M0-150H-S05A38	None	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer
NVP20MA-090M-S05A38	NC 24V	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP20MA-090H-S05A38	NC 24V	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP20MA-100M-S05A38	NC 24V	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP20MA-100H-S05A38	NC 24V	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP20MA-150M-S05A38	NC 24V	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP20MA-150H-S05A38	NC 24V	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer

Accessories

Option selector

Series	Substitute	Accessories	Substitute
NVP (Imperial Thread)		Extra Ports / NVG-150-GF	A38
NVPM (Metric Thread)	M	Extra Ports / NVTMV-QD-6 / NVG-150-GF	A22
Valve	Substitute	Extra Ports / NVSMN-QD-6 / NVG-150-GF	A24
Multi-Port, No Valve	MO	Extra Ports / NVSMP-QD-6 / NVG-150-GF	A26
Multi-Port, NC 24V Vacuum	MA	Extra Ports / No Accessories (standard)	A00
Multi-Port, NO 24V Vacuum	MB	Extra Ports / NVTMV-QD-6	A02
Multi-Port, NC 12V Vacuum	MC	Extra Ports / NVSMN-QD-6	A04
Vacuum Flow Level	Substitute	Extra Ports / NVSMP-QD-6	A06
Venturi Cartridge 60	60	Gauge Port Only / No Accessories	A98
Venturi Cartridge 90	90	Silencers	Substitute
Venturi Cartridge 100	100	None	S00
Venturi Cartridge 150	150	NAA4 (62dB)	S02
Vacuum Level	Substitute	NST4 (68dB)	S05
10"Hg @ 80PSI (Standard)	L	NSTAA4 (58dB)	S12
20"Hg @ 80PSI (Standard)	M		
28"Hg @ 80PSI (Standard)	H		
10"Hg @ 60PSI	X		
20"Hg @ 60PSI	Y		
28"Hg @ 60PSI	Z		

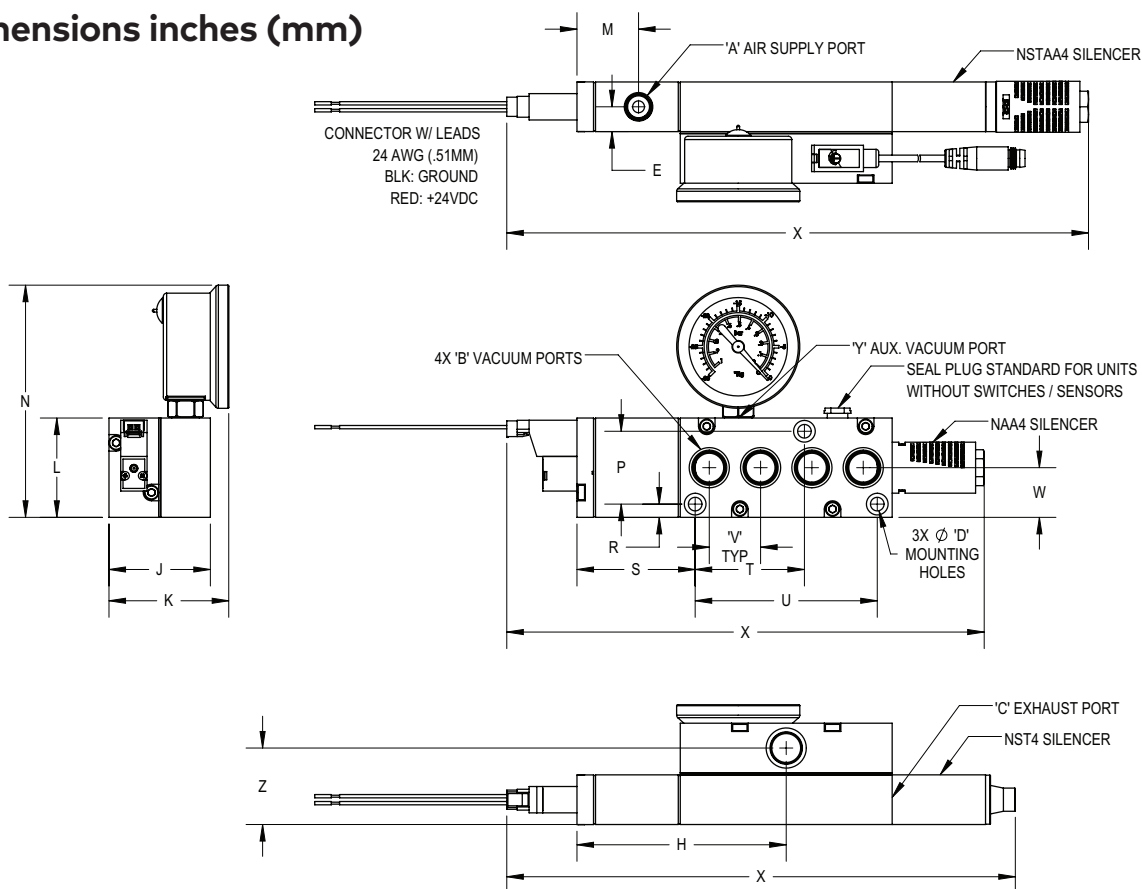


Accessories

Model	Inline Fitting	Pneufit Swivel Male Elbow
NVP20M0-90M-S05A38	124250428	124470428
NVP20M0-90H-S05A38	124250428	124470428
NVP20M0-100M-S05A38	124250628	124470628
NVP20M0-100H-S05A38	124250628	124470628
NVP20M0-150M-S05A38	124250628	124470628
NVP20M0-150H-S05A38	124250628	124470628

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP20M0-***-S02A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	0.37	1/4 NPTF	3.16	1.53	1.81	1.50	0.93	3.51	1.10	0.20	1.79	1.65	2.75	0.78	0.75	7.21	1/8 NPT F	1.16
NVP20M0-***-S05A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	0.37	1/4 NPTF	3.16	1.53	1.81	1.50	0.93	3.51	1.10	0.20	1.79	1.65	2.75	0.78	0.75	7.68	1/8 NPT F	1.16
NVP20M0-***-S12A38	Imperial	1/8 NPTF	1/4 NPTF	1/4 NPTF	0.20	0.37	1/4 NPTF	3.16	1.53	1.81	1.50	0.93	3.51	1.10	0.20	1.79	1.65	2.75	0.78	0.75	8.79	1/8 NPT F	1.16
NVPM20M0-***-S02A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(9.4)	(G 1/4)	(80.30)	(38.9)	(46.0)	(38.1)	(23.60)	(89.2)	(27.9)	(5.1)	(45.5)	(41.9)	(69.8)	(19.8)	(19.1)	(183.1)	(G 1/8)	(29.5)
NVPM20M0-***-S05A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(9.4)	(G 1/4)	(80.3)	(38.9)	(46.0)	(38.1)	(23.6)	(89.2)	(27.9)	(5.1)	(45.5)	(41.9)	(69.8)	(19.8)	(19.1)	(195.1)	(G 1/8)	(29.5)
NVPM20M0-***-S12A38	(Metric)	(G 1/8)	(G 1/4)	(G 1/4)	(5.1)	(9.4)	(G 1/4)	(80.3)	(38.9)	(46.0)	(38.1)	(23.6)	(89.2)	(27.90)	(5.1)	(45.50)	(41.9)	(69.8)	(19.8)	(19.1)	(223.3)	(G 1/8)	(29.5)

NVP20C

Air Saver



1

- » Energy efficient – compressed air on only when needed, automatic shut-off
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid:

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to ~250° F (-34° to ~121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply/Vacuum Line

1/4" OD for sizes 60 and 90
3/8" OD for sizes 100 and 150

Mounting Holes

Mounting holes accept 10-32 [M5] screws

Performance Level

Designations

"M", "Y" 0-20"Hg [0 to 677mbar]
for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar]
for high vacuum/standard flow applications

Generator Selection

1. Determine the desired evacuation time (speed)
2. Calculate the total volume of air to be evacuated in the system including vacuum lines, vessel/ cavity size, cups, etc.
3. Determine the desired vacuum level, "Hg/mbar Application

ex.: Evacuate 2 cu.ft. of air in 1 minute (60 sec) at a vacuum level of 21"Hg

Formula: Time (60 sec)/Cu. ft (2) = 30 seconds per cu. ft. (evacuation speed)

Product options

Standard (NVP20)
Pneumatic blow-off (NVP2X)
Valve controlled blow-off (NVP20V)
Multi-port (NVP20M)
Air Saver (NVP20C)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP20C0-60M-S02A38	20"Hg	0.50 SCFM	0.50 SCFM	NAA4 Silencer
NVP20C0-60H-S02A38	28"Hg	0.50 SCFM	0.80 SCFM	NAA4 Silencer
NVP20C0-90M-S02A38	20"Hg	1.40 SCFM	1.40 SCFM	NAA4 Silencer
NVP20C0-90H-S02A38	28"Hg	1.20 SCFM	1.80 SCFM	NAA4 Silencer
NVP20C0-100M-S02A38	20"Hg	2.10 SCFM	1.80 SCFM	NAA4 Silencer
NVP20C0-100H-S02A38	28"Hg	2.00 SCFM	2.80 SCFM	NAA4 Silencer
NVP20C0-150M-S02A38	20"Hg	3.50 SCFM	2.80 SCFM	NAA4 Silencer
NVP20C0-150H-S02A38	28"Hg	3.80 SCFM	4.80 SCFM	NAA4 Silencer

Accessories

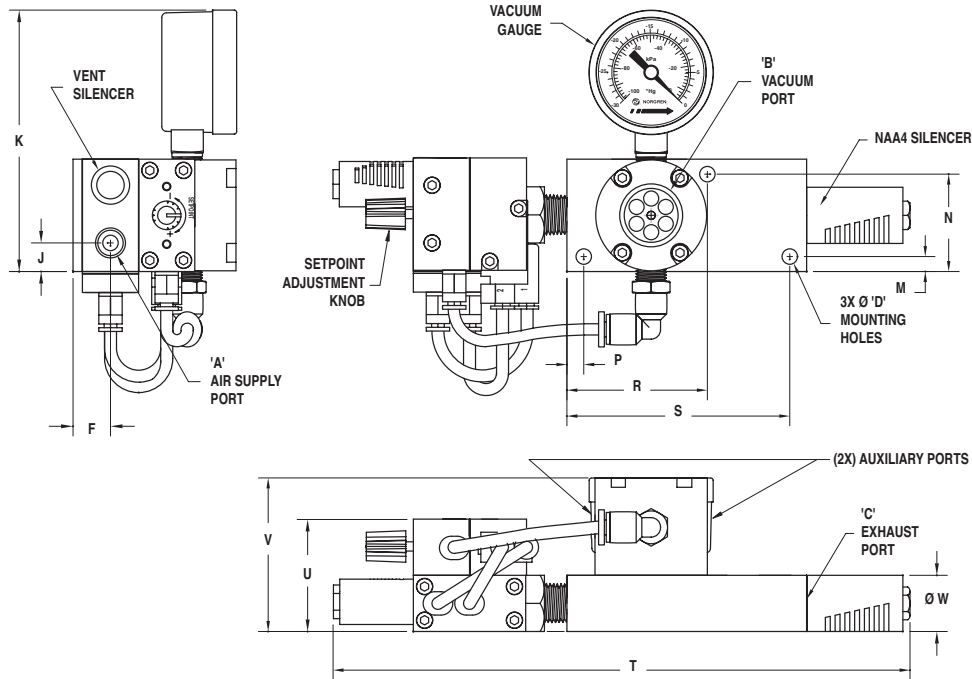
Option selector

NVP★20C0-★★★★-S★★★A38

Series	Substitute	Accessories	Substitute
NVP (Imperial Thread)		Extra Ports / NVG-150-GF	A38
NVPM (Metric Thread)	M		
Vacuum Flow Level	Substitute	Silencers	Substitute
Venturi Cartridge 60	60	None	S00
Venturi Cartridge 90	90	NAA4 (62dB)	S02
Venturi Cartridge 100	100	NST4 (62dB)	S05
Venturi Cartridge 150	150		
Vacuum Level	Substitute		
20"Hg @ 80PSI (Standard)	M		
28"Hg @ 80PSI (Standard)	H		
20"Hg @ 60PSI	Y		
28"Hg @ 60PSI	Z		



Dimensions inches (mm)



Models	Units	A	B	C	D	E	F	J	K	M	N	P	R	S	T	U	V	W
NVP20CO-***-S02A38	Imperial	1/8 NPTF	1/2 NPTF	1/4 NPTF	0.21	1/8 NPTF	0.375	0.34	3.87	0.20	1.30	0.23	1.88	2.95	7.53	1.47	2.20	0.75
NVPM20CO-***-S02A38	(Metric)	(G 1/8)	(G 1/2)	(G 1/4)	(5.2)	(G 1/8)	(9.5)	(8.6)	(98.3)	(5.1)	(33.0)	(5.7)	(47.6)	(74.9)	(191.3)	(37.3)	(55.9)	(19.1)

NVP20, NVP20V, NVP2X, NVP20M, AND NVP20C



1

MODULAR VACUUM GENERATORS

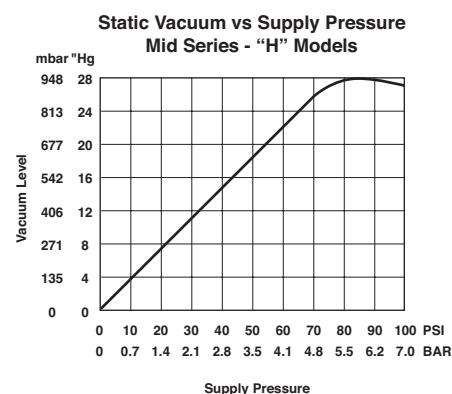
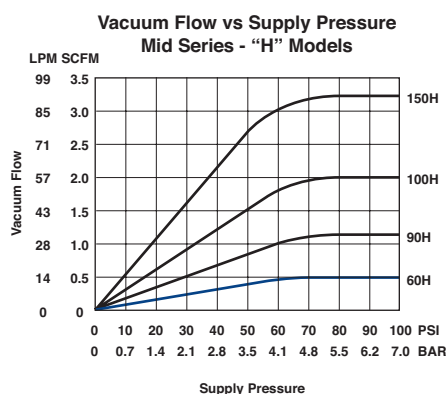
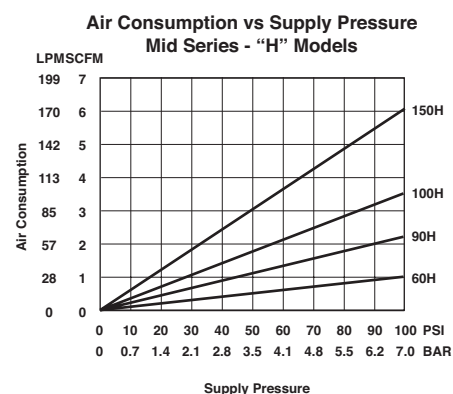
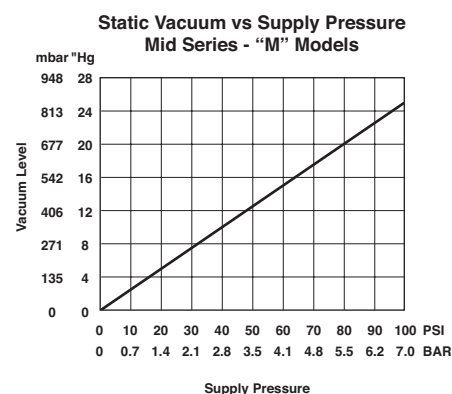
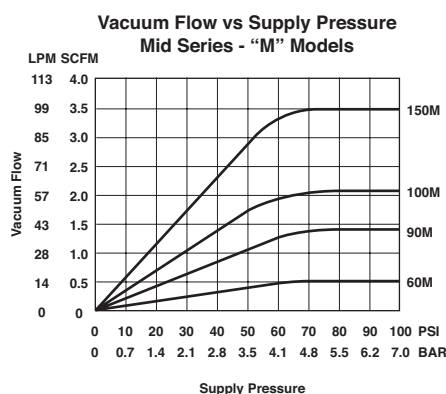
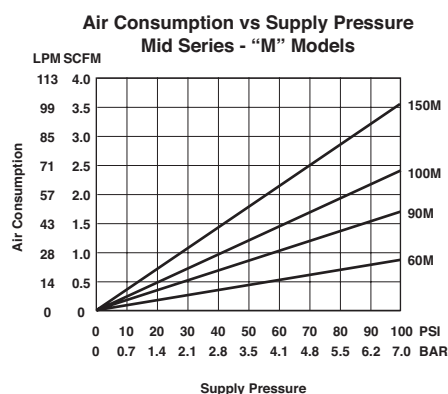
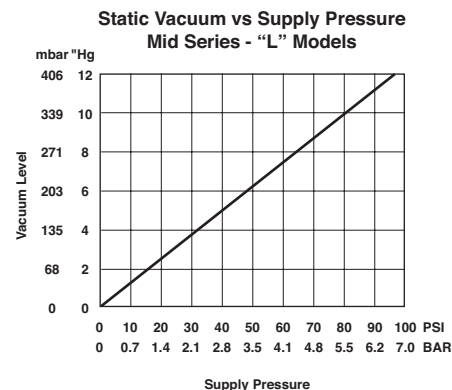
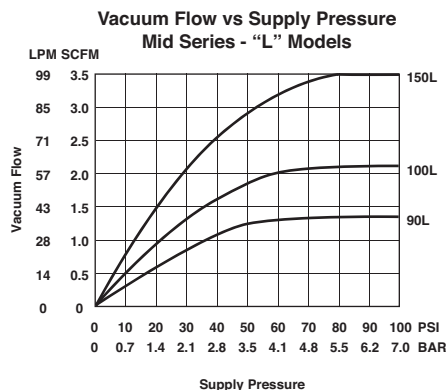
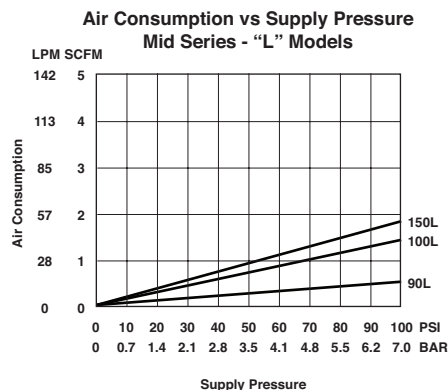
Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	10"Hg (339)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
90L	0.50 (14.2)	Vacuum Flow SCFM (L/min)	1.30 (36.8)	1.10 (31.1)	0.70 (19.8)	0.20 (5.7)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.26 (0.1)	7.93 (0.3)	18.65 (0.7)	39.63 (1.4)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
100L	1.40 (39.6)	Vacuum Flow SCFM (L/min)	2.10 (59.5)	1.60 (45.3)	1.10 (31.1)	0.50 (14.2)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.33 (0.1)	4.66 (0.2)	10.88 (0.4)	24.00 (0.9)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
150L	1.80 (51.0)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	2.50 (70.8)	1.90 (53.8)	0.70 (19.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.54 (0.1)	4.36 (0.2)	10.77 (0.4)	22.83 (0.8)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
60M	0.50 (14.2)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.40 (11.3)	0.30 (8.5)	0.22 (6.2)	- (-)	0.15 (4.2)	0.08 (2.3)	0.03 (0.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	12.50 (0.4)	25.10 (0.9)	43.90 (1.6)	- (-)	68.60 (2.4)	99.30 (3.5)	153.70 (5.4)	227.00 (8.0)	- (-)	- (-)	- (-)	- (-)
90M	1.40 (39.6)	Vacuum Flow SCFM (L/min)	1.40 (39.6)	1.25 (35.4)	1.20 (34.0)	1.05 (29.7)	- (-)	0.85 (24.1)	0.65 (18.4)	0.25 (7.1)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.75 (0.1)	7.20 (0.3)	12.40 (0.4)	- (-)	19.10 (0.7)	29.90 (1.1)	52.00 (1.8)	104.00 (3.7)	- (-)	- (-)	- (-)	- (-)
100M	1.80 (51.0)	Vacuum Flow SCFM (L/min)	2.10 (59.5)	2.00 (56.6)	1.85 (52.4)	1.75 (49.6)	- (-)	1.60 (45.3)	1.25 (35.4)	0.80 (22.7)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.65 (0.1)	5.80 (0.2)	9.90 (0.3)	- (-)	16.20 (0.6)	22.90 (0.8)	36.20 (1.3)	56.60 (2.0)	- (-)	- (-)	- (-)	- (-)
150M	2.80 (79.3)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	3.20 (90.6)	2.95 (83.5)	2.75 (77.9)	- (-)	2.50 (70.8)	1.80 (51.0)	0.95 (26.9)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.35 (0.0)	3.20 (0.1)	5.20 (0.2)	- (-)	7.70 (0.3)	11.80 (0.4)	23.40 (0.8)	52.00 (1.8)	- (-)	- (-)	- (-)	- (-)
60H	0.80 (22.7)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.38 (10.8)	0.32 (9.1)	0.30 (8.5)	- (-)	0.27 (7.6)	0.23 (6.5)	0.20 (5.7)	- (-)	0.13 (3.7)	0.05 (1.4)	0.02 (0.6)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	15.00 (0.5)	29.80 (1.1)	50.60 (1.8)	- (-)	74.50 (2.6)	102.80 (3.6)	135.90 (4.8)	- (-)	183.20 (6.5)	245.90 (8.7)	410.20 (14.5)	790.80 (27.9)
90H	1.80 (51.0)	Vacuum Flow SCFM (L/min)	1.20 (34.0)	1.00 (28.3)	0.95 (26.9)	0.90 (25.5)	- (-)	0.85 (24.1)	0.75 (21.2)	0.70 (19.8)	- (-)	0.52 (14.7)	0.47 (13.3)	0.20 (5.7)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	6.50 (0.2)	12.30 (0.4)	18.90 (0.7)	- (-)	32.50 (1.1)	47.00 (1.7)	65.40 (2.3)	- (-)	92.20 (3.3)	130.00 (4.6)	222.20 (7.8)	281.30 (9.9)
100H	2.80 (79.3)	Vacuum Flow SCFM (L/min)	2.00 (56.6)	1.85 (52.4)	1.75 (49.6)	1.57 (44.5)	- (-)	1.40 (39.6)	1.25 (35.4)	1.05 (29.7)	- (-)	0.84 (23.8)	0.70 (19.8)	0.35 (9.9)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.70 (0.1)	6.50 (0.2)	11.20 (0.4)	- (-)	17.50 (0.6)	25.80 (0.9)	38.40 (1.4)	- (-)	55.20 (1.9)	79.20 (2.8)	166.70 (5.9)	251.80 (8.9)
150H	4.80 (135.9)	Vacuum Flow SCFM (L/min)	3.20 (90.6)	2.80 (79.3)	2.50 (70.8)	2.30 (65.1)	- (-)	2.00 (56.6)	1.60 (45.3)	1.40 (39.6)	- (-)	1.20 (34.0)	0.80 (22.7)	0.50 (14.2)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.30 (0.1)	3.80 (0.1)	6.50 (0.2)	- (-)	10.20 (0.4)	14.20 (0.5)	21.30 (0.8)	- (-)	44.90 (1.6)	55.00 (1.9)	81.00 (2.9)	125.00 (4.4)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



Performance Data



Notes: Standard operating pressure for Norgren generators is 80 PSI [5.5 bar]. Generators can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

- » Integral check valve and air pilot controlled blowoff for rapid part release or vacuum line clean out
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-23° to ~122° F (-5° to ~50°C)

Operating Pressure

80 PSI (5.5 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

1/4" OD (6mm) tube recommended

Vacuum Line

3/8" OD (10mm) tube recommended

Pilot Line

5/32" OD (4mm) tube recommended

Mounting Holes

0.201" diameter

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Models

There are three versions of the NVP50 Series available:

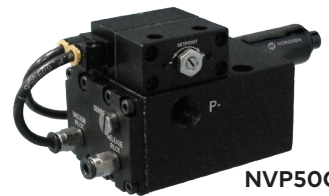
NVP50 – Air pilot vacuum control and blow-off.

NVP50C0 – Integrated air saver circuit, for reduced air consumption and pilot controlled blow-off.

NVP50C1 – Air pilot controlled vacuum with integrated air saver circuit, and pilot controlled blow-off. The NVP50-ASP, also, has a pneumatic signal output for vacuum setpoint notification.



NVP50



NVP50C0



NVP50C1

Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP50-90M-S05A00	20"Hg	1.40 SCFM	1.40 SCFM	NST4 Silencer
NVP50-90H-S05A00	28"Hg	1.20 SCFM	1.80 SCFM	NST4 Silencer
NVP50-100M-S05A00	20"Hg	2.10 SCFM	1.80 SCFM	NST4 Silencer
NVP50-100H-S05A00	28"Hg	2.00 SCFM	2.80 SCFM	NST4 Silencer
NVP50-150M-S05A00	20"Hg	3.50 SCFM	2.80 SCFM	NST4 Silencer
NVP50-150H-S05A00	28"Hg	3.20 SCFM	4.80 SCFM	NST4 Silencer

Accessories

Option selector

Option Selector

NVP

★

50

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

★

* Not available in 60 series

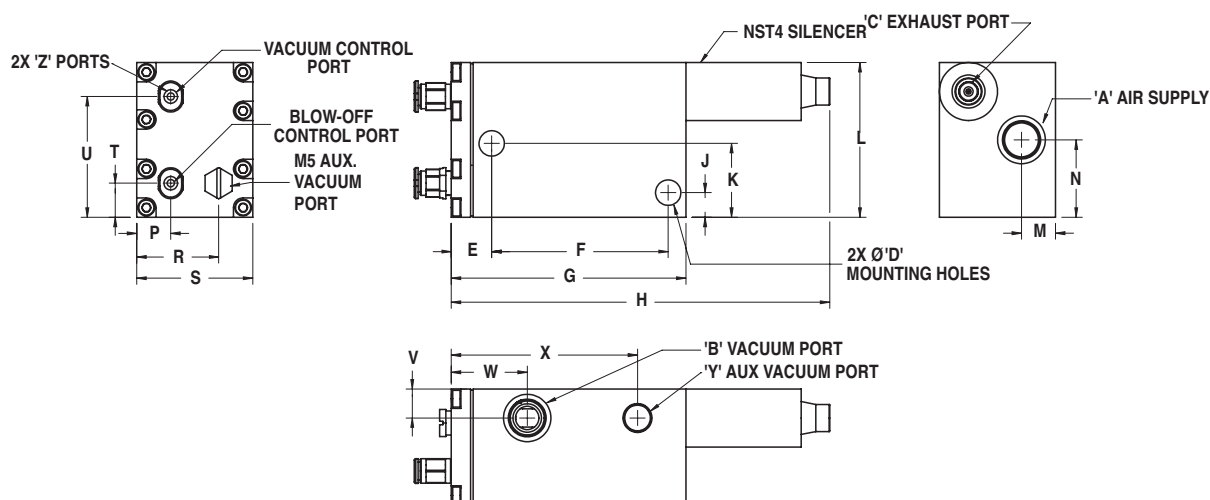


Accessories

Model	Inline Fitting	Swivel Elbow	Vacuum Fitting	Bellows Cup	Flat Cup	Spring Leveler
						
NVP50-90M-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP50-90H-S05A00	124250428	124470428	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP50-100M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP50-100H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP50-150M-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***
NVP50-150H-S05A00	124250628	124470628	NVCF45-14M	NBG*****	NFG*****	NVSL3-***

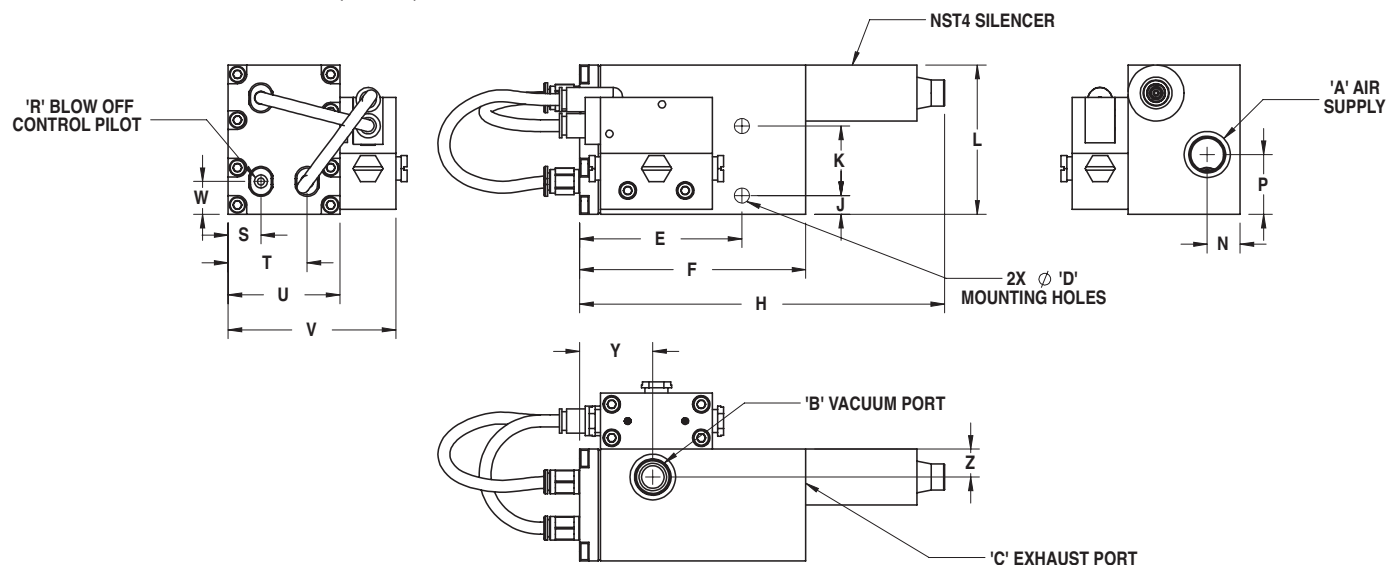
*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)

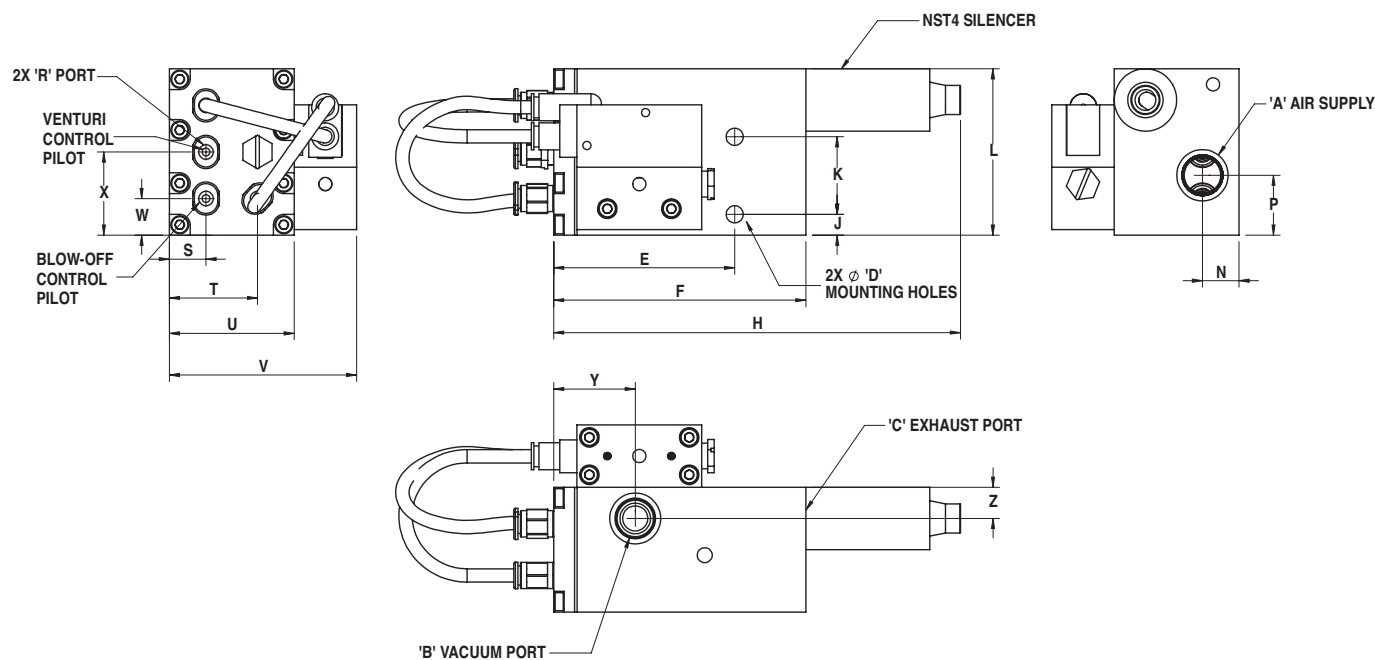


Model	Units	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP50-****-S05A00	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	0.52	2.28	3.03	4.89	0.25	0.95	2.00	0.44	1.00	0.44	1.06	1.50	0.44	1.56	0.38	0.98	2.41	1/8 NPTF	5/32
NVPM50-****-S05A00	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(13.2)	(57.9)	(77.0)	(124.2)	(6.4)	(24.2)	(50.8)	(11.2)	(25.4)	(11.2)	(26.9)	(38.1)	(11.2)	(39.6)	(9.7)	(24.9)	(61.1)	(G 1/8)	(M3)

Dimensions inches (mm)



Models	Units	A	B	C	D	E	F	H	J	K	L	N	P	R	S	T	U	V	W	Y	Z
NVP50CO-****-S05A00	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	2.18	3.03	4.89	0.25	0.93	2.00	0.44	0.72	5/32	0.44	1.06	1.50	2.25	0.44	0.98	0.38
NVPM50CO-****-S05A00	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(55.4)	(77.0)	(124.2)	(6.4)	(23.6)	(50.8)	(11.9)	(18.3)	M3	(11.2)	(26.9)	(38.1)	(57.2)	(11.2)	(24.9)	(9.5)



Model	Units	A	B	C	D	E	F	H	J	K	L	N	P	R	S	T	U	V	W	X	Y	Z
NVP50C1-****-S05A00	Imperial	1/4 NPTF	1/4 NPTF	1/4 NPTF	0.21	2.18	3.03	4.89	0.25	0.93	2.00	0.44	0.72	5/32	0.44	1.06	1.50	2.25	0.44	1.00	0.98	0.38
NVPM50C1-****-S05A00	(Metric)	(G 1/4)	(G 1/4)	(G 1/4)	(5.3)	(55.4)	(77.0)	(124.2)	(6.4)	(23.6)	(50.8)	(11.2)	(18.3)	(M3)	(11.2)	(26.9)	(38.1)	(57.2)	(11.2)	(25.4)	(24.9)	(9.5)

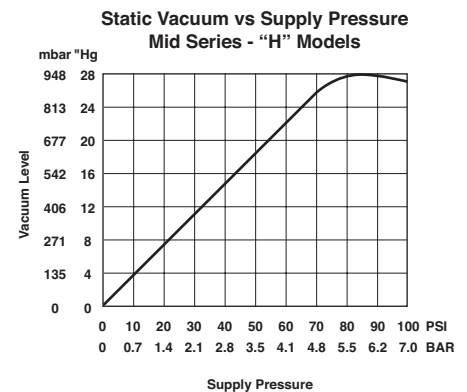
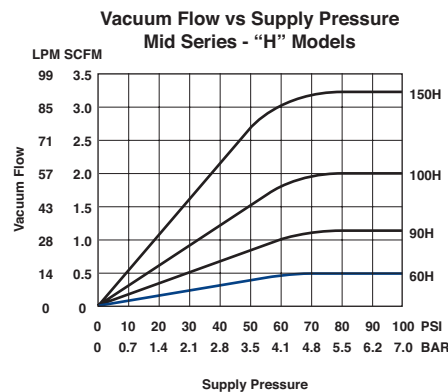
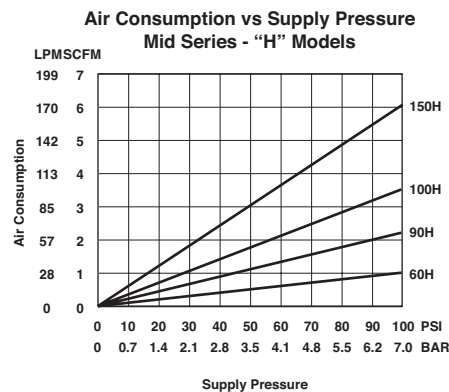
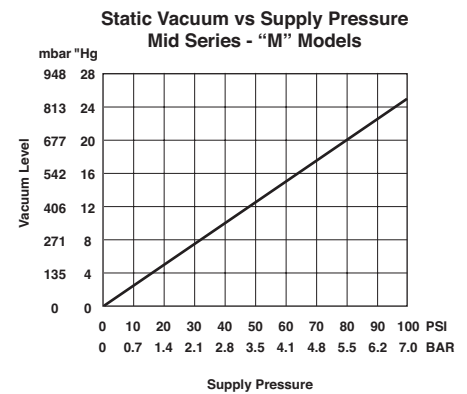
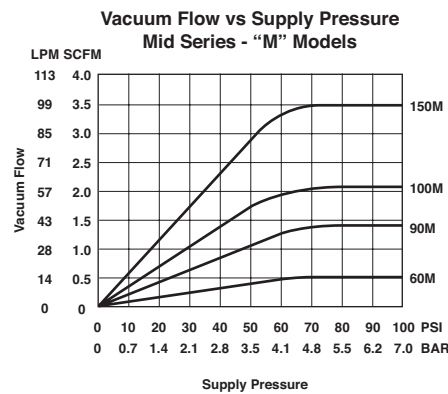
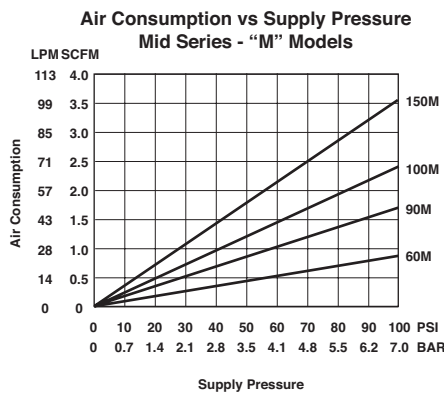
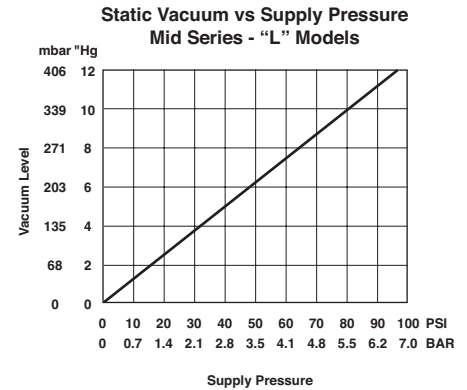
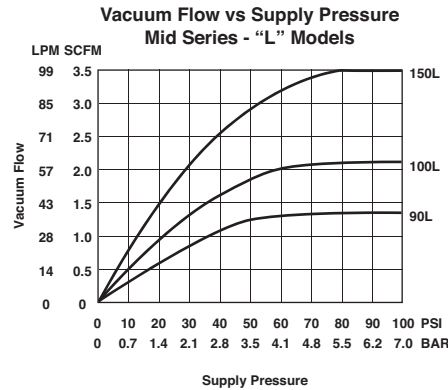
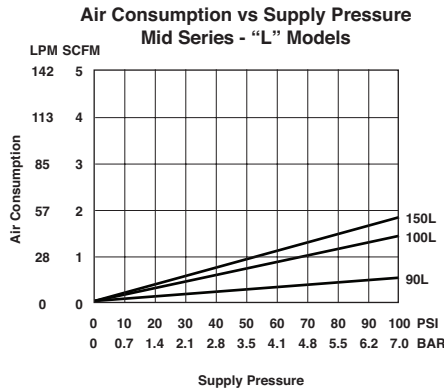


Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	10"Hg (339)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
90L	0.50 (14.2)	Vacuum Flow SCFM (L/min)	1.30 (36.8)	1.10 (31.1)	0.70 (19.8)	0.20 (5.7)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.26 (0.1)	7.93 (0.3)	18.65 (0.7)	39.63 (1.4)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
100L	1.40 (39.6)	Vacuum Flow SCFM (L/min)	2.10 (59.5)	1.60 (45.3)	1.10 (31.1)	0.50 (14.2)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.33 (0.1)	4.66 (0.2)	10.88 (0.4)	24.00 (0.9)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
150L	1.80 (51.0)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	2.50 (70.8)	1.90 (53.8)	0.70 (19.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.54 (0.1)	4.36 (0.2)	10.77 (0.4)	22.83 (0.8)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
60M	0.50 (14.2)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.40 (11.3)	0.30 (8.5)	0.22 (6.2)	- (-)	0.15 (4.2)	0.08 (2.3)	0.03 (0.8)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	12.50 (0.4)	25.10 (0.9)	43.90 (1.6)	- (-)	68.60 (2.4)	99.30 (3.5)	153.70 (5.4)	227.00 (8.0)	- (-)	- (-)	- (-)	- (-)
90M	1.40 (39.6)	Vacuum Flow SCFM (L/min)	1.40 (39.6)	1.25 (35.4)	1.20 (34.0)	1.05 (29.7)	- (-)	0.85 (24.1)	0.65 (18.4)	0.25 (7.1)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	3.75 (0.1)	7.20 (0.3)	12.40 (0.4)	- (-)	19.10 (0.7)	29.90 (1.1)	52.00 (1.8)	104.00 (3.7)	- (-)	- (-)	- (-)	- (-)
100M	1.80 (51.0)	Vacuum Flow SCFM (L/min)	2.10 (59.50)	2.00 (56.60)	1.85 (52.40)	1.75 (49.60)	- (-)	1.60 (45.30)	1.25 (35.40)	0.80 (22.70)	0.00 (0.00)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	2.65 (0.1)	5.80 (0.2)	9.90 (0.3)	- (-)	16.20 (0.6)	22.90 (0.8)	36.20 (1.3)	56.60 (2.0)	- (-)	- (-)	- (-)	- (-)
150M	2.80 (79.3)	Vacuum Flow SCFM (L/min)	3.50 (99.1)	3.20 (90.6)	2.95 (83.5)	2.75 (77.9)	- (-)	2.50 (70.8)	1.80 (51.0)	0.95 (26.9)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	1.35 (0.0)	3.20 (0.1)	5.20 (0.2)	- (-)	7.70 (0.3)	11.80 (0.4)	23.40 (0.8)	52.00 (1.8)	- (-)	- (-)	- (-)	- (-)
60H	0.80 (22.7)	Vacuum Flow SCFM (L/min)	0.50 (14.2)	0.38 (10.8)	0.32 (9.1)	0.30 (8.5)	- (-)	0.27 (7.6)	0.23 (6.5)	0.20 (5.7)	- (-)	0.13 (3.7)	0.05 (1.4)	0.02 (0.6)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	15.00 (0.5)	29.80 (1.1)	50.60 (1.8)	- (-)	74.50 (2.6)	102.80 (3.6)	135.90 (4.8)	- (-)	183.20 (6.5)	245.90 (8.7)	410.20 (14.5)	790.80 (27.9)
90H	1.80 (51.0)	Vacuum Flow SCFM (L/min)	1.20 (34.0)	1.00 (28.3)	0.95 (26.9)	0.90 (25.5)	- (-)	0.85 (24.1)	0.75 (21.2)	0.70 (19.8)	- (-)	0.52 (14.7)	0.47 (13.3)	0.20 (5.7)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	6.50 (0.2)	12.30 (0.4)	18.90 (0.7)	- (-)	32.50 (1.1)	47.00 (1.7)	65.40 (2.3)	- (-)	92.20 (3.3)	130.00 (4.6)	222.20 (7.8)	281.30 (9.9)
100H	2.80 (79.3)	Vacuum Flow SCFM (L/min)	2.00 (56.6)	1.85 (52.4)	1.75 (49.6)	1.57 (44.5)	- (-)	1.40 (39.6)	1.25 (35.4)	1.05 (29.7)	- (-)	0.84 (23.8)	0.70 (19.8)	0.35 (9.9)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.70 (0.1)	6.50 (0.2)	11.20 (0.4)	- (-)	17.50 (0.6)	25.80 (0.9)	38.40 (1.4)	- (-)	55.20 (1.9)	79.20 (2.8)	166.70 (5.9)	251.80 (8.9)
150H	4.80 (135.9)	Vacuum Flow SCFM (L/min)	3.20 (90.6)	2.80 (79.3)	2.50 (70.8)	2.30 (65.1)	- (-)	2.00 (56.6)	1.60 (45.3)	1.40 (39.6)	- (-)	1.20 (34.0)	0.80 (22.7)	0.50 (14.2)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.30 (0.1)	3.80 (0.1)	6.50 (0.2)	- (-)	10.20 (0.4)	14.20 (0.5)	21.30 (0.8)	- (-)	44.90 (1.6)	55.00 (1.9)	81.00 (2.9)	125.00 (4.4)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)

Performance Data



Notes: Standard operating pressure for Norgren generators is 80 PSI [5.5 bar]. Generators can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.



- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to -400° F (-73° to -204°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

3/8" OD (10mm)

Vacuum Line

3/8" OD (10mm)

Mounting Holes

Mounting holes accept 10-32[M5] screws

Control Valve

3 way/2 position (faster part release), minimum orifice – 0.125" [3mm]

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Product options

Standard (NVP80)

Pneumatic blow-off (NVP8X)

Multi-port (NVP80M)

Air Saver (NVP80C)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP80-200M-S08A00	20"Hg	6.00 SCFM	4.80 SCFM	NST6A Silencer
NVP80-200H-S08A00	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP80-250M-S10A00	20"Hg	9.50 SCFM	7.80 SCFM	NST8A Silencer
NVP80-250H-S10A00	28"Hg	9.00 SCFM	12.50 SCFM	NST8A Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Ports / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Ports / NVG-150-GF		A38	
Vacuum Flow Level		Substitute		Silencers (for NVP*80-200*)		Substitute	
Venturi Cartridge 200		200		None		S00	
Venturi Cartridge 250		250		NAA6 (70dB)		S03	
				NST6A (72dB)		S08	
				NSTAA6 (64dB)		S13	
				NFA-51-375 (72dB)		S26	
Vacuum Level		Substitute		Silencers (for NVP*80-250*)		Substitute	
10"Hg @ 80PSI (Standard)		L		None		S00	
20"Hg @ 80PSI (Standard)		M		NFA-51-500 (72dB)		S27	
28"Hg @ 80PSI (Standard)		H		NFA-51-500 - No Elbow (72dB)		S37	
10"Hg @ 60PSI		X		NST8A (74dB)		S10	
20"Hg @ 60PSI		Y		NST8B (76dB)		S11	
28"Hg @ 60PSI		Z					

NVP★80-★★★★-S★★A★★

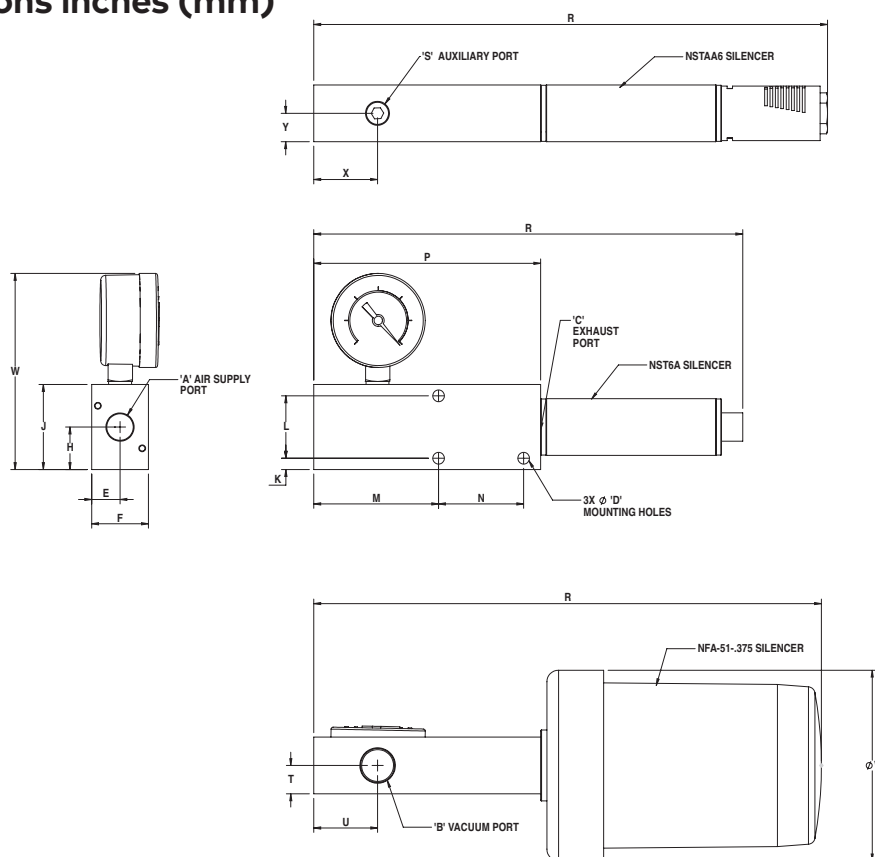
Accessories

Model	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup
					
NVP80-200M-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-200H-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250M-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250H-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

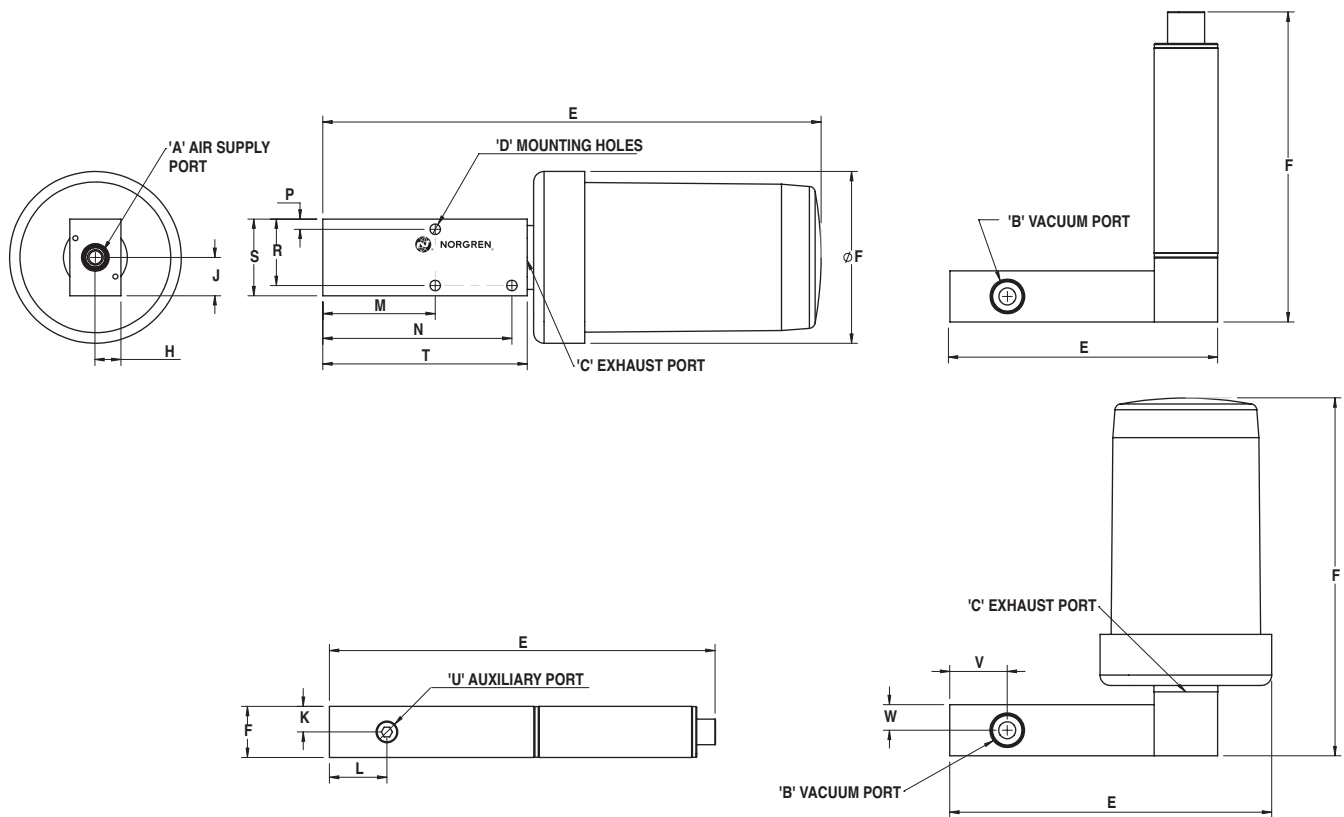
Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y
NVP80-200*-S08A38	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.20	1.50	4.00	7.57	1/8 NPTF	0.50	1.13	3.36	3.46	1.12	0.50
NVP80-200*-S13A38	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.20	1.50	4.00	9.05	1/8 NPTF	0.50	1.13	3.36	3.46	1.12	0.50
NVP80-200*-S26A38	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.20	1.50	4.00	9.74	1/8 NPTF	0.50	1.13	3.36	3.46	1.12	0.50
NVPM80-200*-S08A38	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(55.9)	(38.1)	(101.6)	(192.3)	G 1/8	(12.7)	(28.7)	(85.3)	(87.9)	(28.4)	(12.7)
NVPM80-200*-S13A38	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(55.9)	(38.1)	(101.6)	(229.9)	G 1/8	(12.7)	(28.7)	(85.3)	(87.9)	(28.4)	(12.7)
NVPM80-200*-S26A38	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(55.9)	(38.1)	(101.6)	(247.4)	G 1/8	(12.7)	(28.7)	(85.3)	(87.9)	(28.4)	(12.7)



Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W
NVP80-250*-S27A00	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	6.30	7.00	0.50	0.75	0.50	1.13	2.20	3.70	0.20	1.30	1.50	4.00	1/8 NPTF	1.13	0.50
NVP80-250*-S37A00	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	9.75	3.36	0.50	0.75	0.50	1.13	2.20	3.70	0.20	1.30	1.50	4.00	1/8 NPTF	1.13	0.50
NVP80-250*-S10A00	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	7.54	1.00	0.50	0.75	0.50	1.13	2.20	3.70	0.20	1.30	1.50	4.00	1/8 NPTF	1.13	0.50
NVP80-250*-S11A00	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	5.24	6.06	0.50	0.75	0.50	1.13	2.20	3.70	0.20	1.30	1.50	4.00	1/8 NPTF	1.13	0.50
NVPM80-250*-S27A00	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(160.0)	(177.9)	(12.7)	(19.1)	(12.7)	(28.6)	(55.9)	(94.0)	(5.1)	(33.0)	(38.1)	(101.6)	(G 1/8)	(28.6)	(12.7)
NVPM80-250*-S37A00	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(247.7)	(85.3)	(12.7)	(19.1)	(12.7)	(28.6)	(55.9)	(94.0)	(5.1)	(33.0)	(38.1)	(101.6)	(G 1/8)	(28.6)	(12.7)
NVPM80-250*-S10A00	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(191.5)	(25.4)	(12.7)	(19.1)	(12.7)	(28.6)	(55.9)	(94.0)	(5.1)	(33.0)	(38.1)	(101.6)	(G 1/8)	(28.6)	(12.7)
NVPM80-250*-S11A00	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(133.1)	(153.9)	(12.7)	(19.1)	(12.7)	(28.6)	(55.9)	(94.0)	(5.1)	(33.0)	(38.1)	(101.6)	(G 1/8)	(28.6)	(12.7)

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to -400° F (-73° to -204°C)
20° to -120° F (-7° to -49°C)
(Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized
Aluminum

Supply Line

3/8" OD (10mm)

Vacuum Line

3/8" OD (10mm)

Mounting Holes

Mounting holes accept 10-32[M5]
screws

Electrical

24V -5% to 10% (VA, VB
option)

12V -5% to 10% (VC option)

Power Consumption (Watts)

1.6 Watts

Response Times

8 milliseconds

Cycle Rate (Cycles/second)

45

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual

Override

Yes

Control Valve

12V (VC option) or 24V normally
closed (VA option) or 24V
normally open (VB option)

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar]
for low vacuum/high flow
applications

"M", "Y" 0-20"Hg [0 to 677mbar]
for medium vacuum/high flow
applications

"H", "Z" 0-28"Hg [0 to 948mbar]
for high vacuum/standard flow
applications



Product options

Standard (NVP80V)
Pneumatic blow-off (NVP8XV)
Multi-port (NVP80M)
Air Saver (NVP80C)

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP80VA-200M-S08A00	NC 24V	20"Hg	6.00 SCFM	3.80 SCFM	NST6A Silencer
NVP80VA-200H-S08A00	NC 24V	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP80VA-250M-S10A00	NC 24V	20"Hg	9.50 SCFM	7.80 SCFM	NST6A Silencer
NVP80VA-250H-S10A00	NC 24V	28"Hg	9.00 SCFM	12.50 SCFM	NST6A Silencer

Accessories

Option selector

Series		Substitute		Accessories		Substitute	
NVP (Imperial Thread)				Extra Ports / No Accessories		A00	
NVPM (Metric Thread)		M		Extra Ports / NVG-150-GF		A38	
Valve		Substitute		Silencers (for NVP*80-200*)		Substitute	
NC 24V Vacuum		VA		None		S00	
NO 24V Vacuum		VB		NAA6 (70dB)		S03	
NC 12V Vacuum		VC		NST6A (72dB)		S08	
Vacuum Flow Level		Substitute		NSTAA6 (64dB)		S13	
Venturi Cartridge 200		200		NFA-51-.375 (72dB)		S26	
Venturi Cartridge 250		250		Silencers (for NVP*80-250*)		Substitute	
Vacuum Level		Substitute		None		S00	
10"Hg @ 80PSI (Standard)		L		NFA-51-.500 (72dB)		S27	
20"Hg @ 80PSI (Standard)		M		NFA-51-.500 - No Elbow (72dB)		S37	
28"Hg @ 80PSI (Standard)		H		NST8A (74dB)		S10	
10"Hg @ 60PSI		X		NST*B (76dB)		S11	
20"Hg @ 60PSI		Y					
28"Hg @ 60PSI		Z					



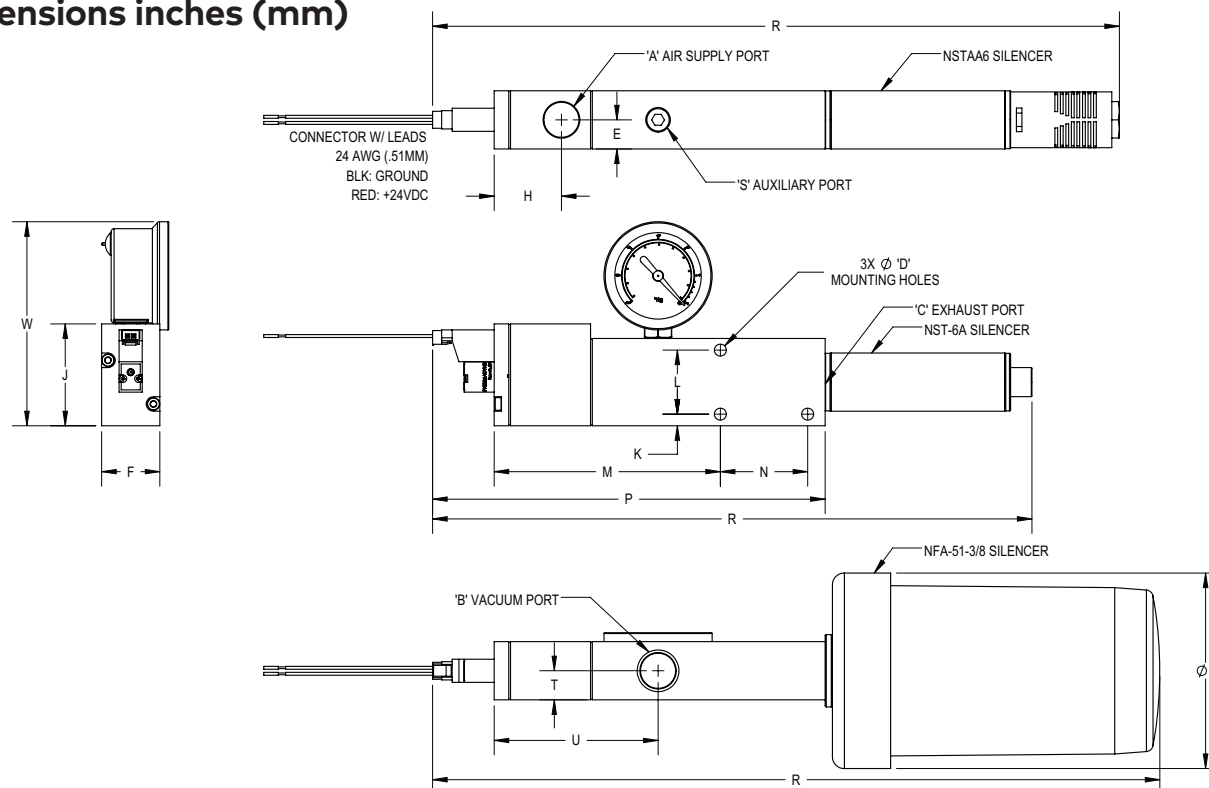
Accessories

Model	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup
					
NVP80-200M-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-200H-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250M-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250H-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****

*Proper selection of vacuum cups depends on the application. Cups are available in various diameters, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



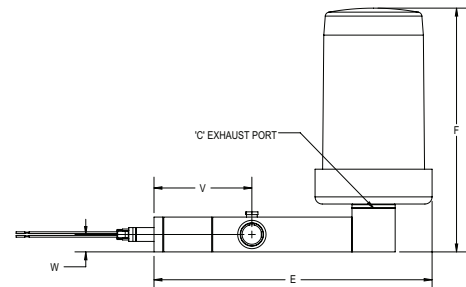
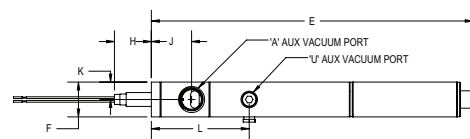
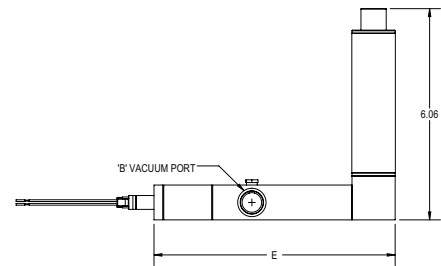
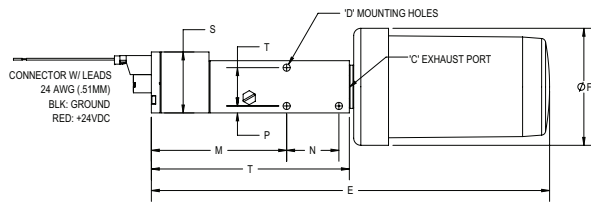
Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W
NVP80-200*-S03A38	Imperial	1/8 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	1.75	0.20	1.10	3.89	1.50	6.75	11.80	1/8 NPT F	0.50	2.82	3.36	3.51
NVP80-200*-S08A38	Imperial	1/8 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	1.75	0.20	1.10	3.89	1.50	6.75	10.30	1/8 NPT F	0.50	2.82	3.36	3.51
NVP80-200*-S13A38	Imperial	1/8 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	1.75	0.20	1.10	3.89	1.50	6.75	12.50	1/8 NPT F	0.50	2.82	3.36	3.51
NVPM80-200*-S13A38	(Metric)	(G 1/8)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(44.4)	(5.1)	(27.9)	(98.8)	(38.1)	(171.4)	(299.7)	(G 1/8)	(12.7)	71.6	(85.3)	(89.2)
NVPM80-200*-S13A38	(Metric)	(G 1/8)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(44.4)	(5.1)	(27.9)	(98.8)	(38.1)	(171.4)	(261.6)	(G 1/8)	(12.7)	71.6	(85.3)	(89.2)
NVPM80-200*-S26A38	(Metric)	(G 1/8)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(44.4)	(5.1)	(27.9)	(98.8)	(38.1)	(171.4)	(317.5)	(G 1/8)	(12.7)	71.6	(85.3)	(89.2)

Accessories

Model	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup
					
NVP80-200M-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-200H-S08A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250M-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP80-250H-S10A00	124250628	124470618	NVCF5-38M NVCF27-38M	NSM045****	NUC*****

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	V	W
NVP80-250*-S00A38	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	11.44	3.36	1.06	1.16	0.50	2.81	3.89	1.50	0.20	1.10	1.75	5.69	2.81	0.50
NVP80-250*-S27A38	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	7.99	7.00	1.06	1.16	0.50	2.81	3.89	1.50	0.20	1.10	1.75	5.69	2.81	0.50
NVP80-250*-S10A38	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	6.93	6.06	1.06	1.16	0.50	2.81	3.89	1.50	0.20	1.10	1.75	5.69	2.81	0.50
NVP80-250*-S11A38	Imperial	1/4 NPTF	3/8 NPTF	1/2 NPTF	0.21	9.24	1.00	1.06	1.16	0.50	2.81	3.89	1.50	0.20	1.10	1.75	5.69	2.81	0.50
NVPM80-250*-S08A38	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(290.6)	(85.3)	(26.9)	(29.1)	(12.7)	(71.4)	(98.8)	(38.1)	(5.1)	(27.9)	(44.4)	(144.5)	(71.4)	(12.7)
NVPM80-250*-S13A38	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(202.9)	(177.8)	(26.9)	(29.1)	(12.7)	(71.4)	(98.8)	(38.1)	(5.1)	(27.9)	(44.4)	(144.5)	(71.4)	(12.7)
NVPM80-250*-S10A38	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(176.0)	(153.9)	(26.9)	(29.1)	(12.7)	(71.4)	(98.8)	(38.1)	(5.1)	(27.9)	(44.4)	(144.5)	(71.4)	(12.7)
NVPM80-250*-S11A38	(Metric)	(G 1/4)	(G 3/8)	(G 1/2)	(5.3)	(234.7)	(25.4)	(26.9)	(29.1)	(12.7)	(71.4)	(98.8)	(38.1)	(5.1)	(27.9)	(44.4)	(144.5)	(71.4)	(12.7)

NVP8X

Pneumatic Blow-off



- » All in one vacuum and blow-off - only compressed air required
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

32° to ~125° F (0° to ~52°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Generator Options

B1 adjustable version allows the user to set the intensity of the blow-off from no blow-off to full blow-off

Cycle Rates

Up to 900/min

Blow-off Response Time

Instantaneous

Blow-off Duration

100 milliseconds (based on system design)

Orientation

Any

Supply Line

3/8" OD (10mm) tube

Vacuum Line

3/8" OD (10mm) tube

Mounting Holes

Mounting holes accept 10-32 [M5] screws

Control Valve

12V (VC/VF option) or 24V normally closed (BA/BD option) or 24V normally open (BB/BE option)

Performance Level Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Product options

Standard (NVP80)

Valve controlled vacuum (NVP80)

Pneumatic blow-off (NVP8XV)

Multi-port (NVP80M)

Air Saver (NVP80C)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP8XB0-200M-S08A00	20"Hg	6.00 SCFM	4.80 SCFM	NST6A Silencer
NVP8XB0-200H-S08A00	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP8XBA-200M-S08A00	20"Hg	6.00 SCFM	4.80 SCFM	NST6A Silencer
NVP8XBA-200H-S08A00	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer

Accessories

Option selector

NVP★8XB★-★★★-S★★A00

Series	Substitute
NVP (Imperial Thread)	
NVPM (Metric Thread)	M
Blowoff	Substitute
Non-adjustable (Standard), No valve	B0
Adjustable, No valve	B1
Non-Adjustable, NC 24V Vacuum	BA
Non-Adjustable, NO 24V Vacuum	BB
Non-Adjustable, NC 12V Vacuum	BC
Adjustable, NC 24V Vacuum	BD
Adjustable, NO 24V Vacuum	BE
Adjustable, NC 12V Vacuum	BF
Vacuum Flow Level	Substitute
Venturi Cartridge 200	200
Vacuum Level	Substitute
10"Hg @ 80PSI (Standard)	L
20"Hg @ 80PSI (Standard)	M
28"Hg @ 80PSI (Standard)	H
10"Hg @ 60PSI	X
20"Hg @ 60PSI	Y
28"Hg @ 60PSI	Z

Accessories	Substitute
Extra Port if Available / No Accessories	A00
Silencers	Substitute
None	S00
NAA6 (70dB)	S03
NST6A (72dB)	S08
NSTAA6 (64dB)	S13
NFA-51-.375 (72dB)	S26

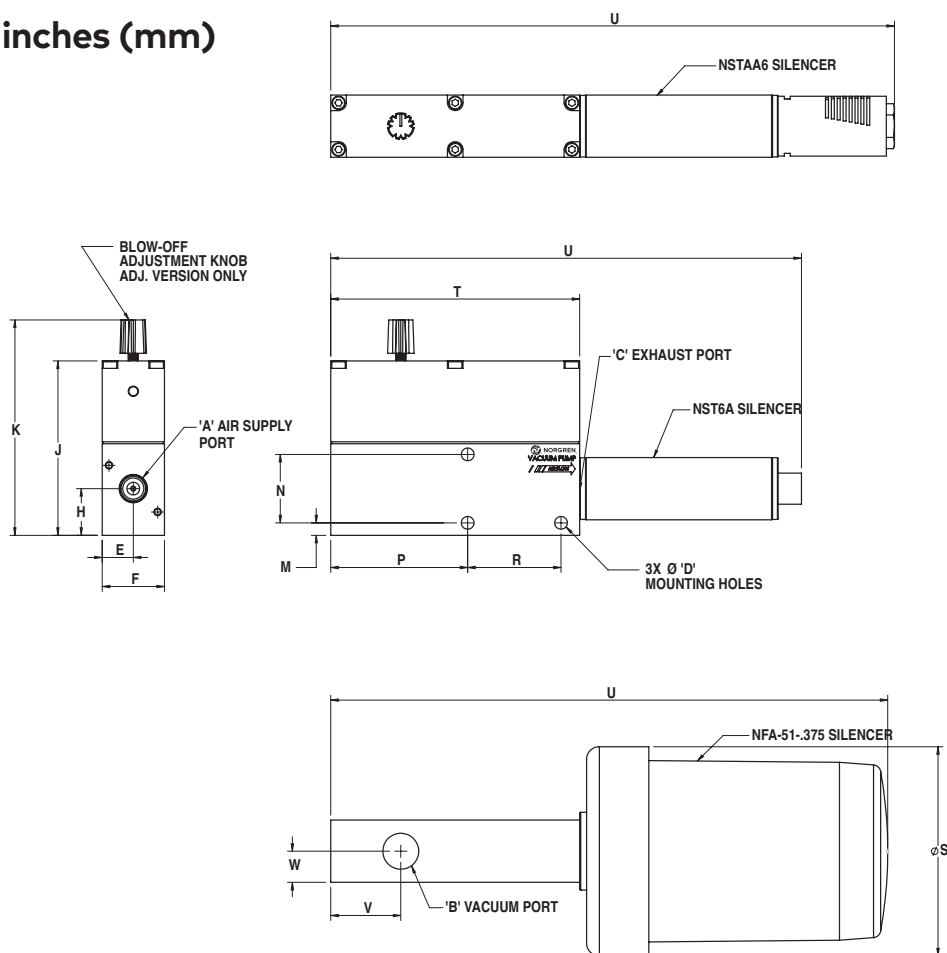
NVP★8XB★-★★★-S★★A00

Accessories

Model	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup
					
NVP8XB0-200M-S08A00	124250628	124470628	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP8XB0-200H-S08A00	124250628	124470628	NVCF5-38M NVCF27-38M	NSM045****	NUC*****

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K*	M	N	P	R	S	T	U	V	W
NVP8XB0-****-S08A00	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	2.80	3.46	0.20	1.10	2.20	1.50	3.36	4.00	7.56	1.13	0.50
NVP8XB0-****-S13A00	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	2.80	3.46	0.20	1.10	2.20	1.50	3.36	4.00	9.06	1.13	0.50
NVP8XB0-****-S26A00	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	0.75	2.80	3.46	0.20	1.10	2.20	1.50	3.36	4.00	9.70	1.13	0.50
NVPM8XB0-****-S08A00	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(19.1)	(71.1)	(87.9)	(5.1)	(27.9)	(55.9)	(38.1)	(85.3)	(101.6)	(192.0)	(28.6)	(12.7)
NVPM8XB0-****-S13A00	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(19.1)	(71.1)	(87.9)	(5.1)	(27.9)	(55.9)	(38.1)	(85.3)	(101.6)	(230.1)	(28.6)	(12.7)
NVPM8XB0-****-S26A00	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(5.30)	(12.7)	(25.4)	(19.1)	(71.1)	(87.9)	(5.1)	(27.9)	(55.9)	(38.1)	(85.3)	(101.6)	(246.4)	(28.6)	(12.7)



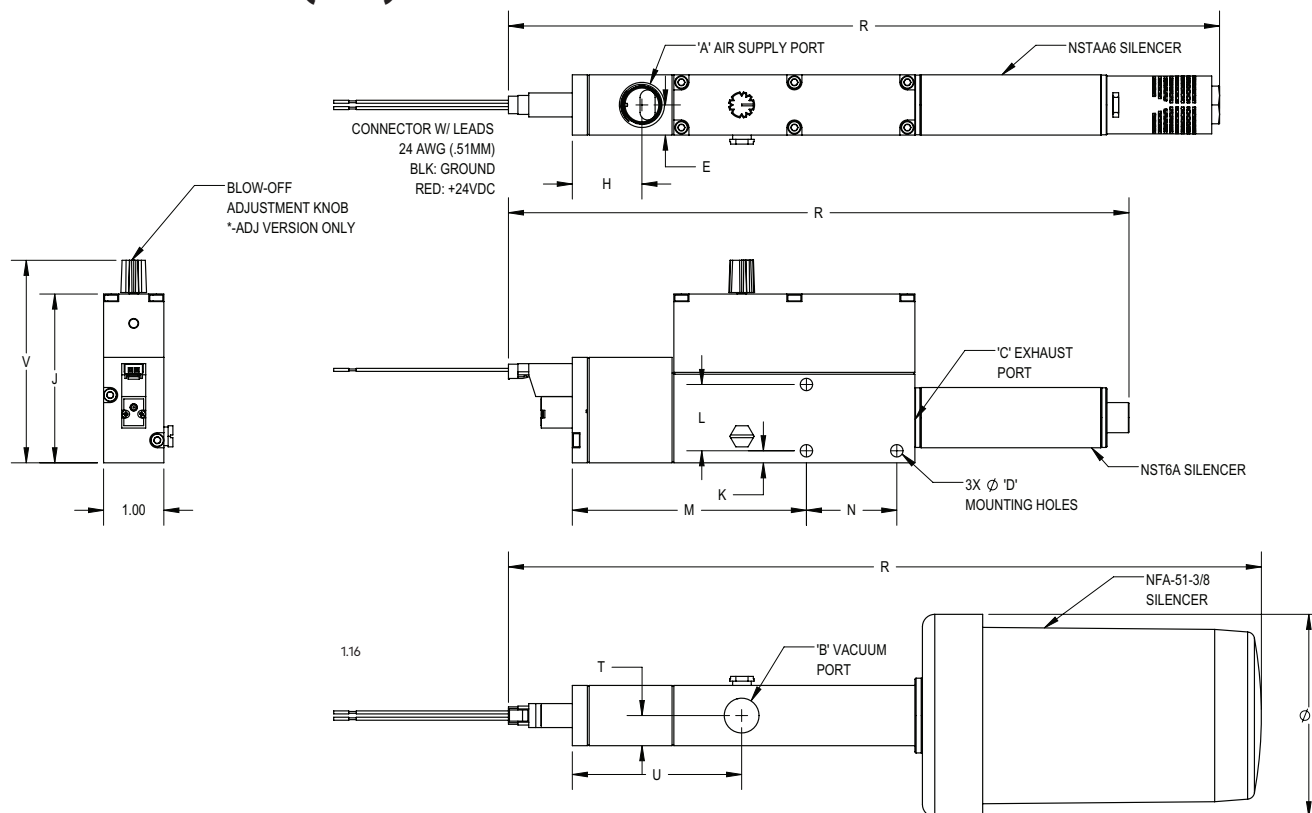
Accessories

Model	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Flat Cup
					
NVP8XB0-200M-S08A00	124250628	124470628	NVCF5-38M NVCF27-38M	NSM045****	NUC*****
NVP8XB0-200H-S08A00	124250628	124470628	NVCF5-38M NVCF27-38M	NSM045****	NUC*****

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K*	M	N	R	S	T	U	V
NVP8XBA-****-S08A00	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	2.80	0.20	3.89	1.50	10.30	3.36	0.50	2.81	3.36
NVP8XBA-****-S13A00	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	2.80	0.20	3.89	1.50	11.80	3.36	0.50	2.81	3.36
NVP8XBA-****-S26A00	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	2.80	0.20	3.89	1.50	12.50	3.36	0.50	2.81	3.36
NVPM8XBA-****-S08A00	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(71.1)	(5.1)	(98.8)	(38.1)	(261.6)	(85.3)	(12.7)	(71.4)	(85.3)
NVPM8XBA-****-S13A00	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(71.1)	(5.1)	(98.8)	(38.1)	(299.7)	(85.3)	(12.7)	(71.4)	(85.3)
NVPM8XBA-****-S26A00	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(71.1)	(5.1)	(98.8)	(38.1)	(317.5)	(85.3)	(12.7)	(71.4)	(85.3)

NVP80M

Multi-port



1

MODULAR VACUUM GENERATORS

- » Multi-port version - distribute vacuum to multiple locations
- » High Productivity - non-clogging design reduces downtime
- » Strong hold - powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily - compact and lightweight
- » Fast Response - installs close to vacuum point
- » Efficient - minimal air consumption
- » Reliable operation - straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to ~400° F (-73° to ~204°C)
20° to 120° F (-7° to 49°C) (Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

3/8" OD (10mm)

Vacuum Line

3/8" OD (10mm)

Mounting Holes

Mounting holes accept 10-32 [M5] screws

Electrical

24V - 5% to 10% (MA/MB option)

12V - 5% to 10% (MC option)

Power Consumption

1.6 watts

Response Times

8 milliseconds

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual Override

Yes

Control Valve

12V (MC option) or 24V normally closed (MA option) or 24V normally open (MB option)

Performance Level Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications



Product options

Standard (NVP80)

Valve controlled vacuum (NVP80)

Pneumatic blow-off (NVP8XV)

Multi-port (NVP80M)

Air Saver (NVP80C)

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP80M0-200M-S08A38	None	20"Hg	6.00 SCFM	4.80 SCFM	NST6A Silencer
NVP80M0-200H-S08A38	None	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP80M0-250M-S10A38	None	20"Hg	9.50 SCFM	7.80 SCFM	NST8A Silencer
NVP80M0-250H-S10A38	None	28"Hg	9.00 SCFM	12.50 SCFM	NST8A Silencer
NVP80MA-200M-S08A38	NC 24V	20"Hg	6.00 SCFM	4.80 SCFM	NST8A Silencer
NVP80MA-200H-S08A38	NC 24V	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP80MA-250M-S10A38	NC 24V	20"Hg	9.50 SCFM	7.80 SCFM	NST8A Silencer
NVP80MA-250H-S10A38	NC 24V	28"Hg	9.00 SCFM	12.50 SCFM	NST8A Silencer

Accessories

Option selector

<



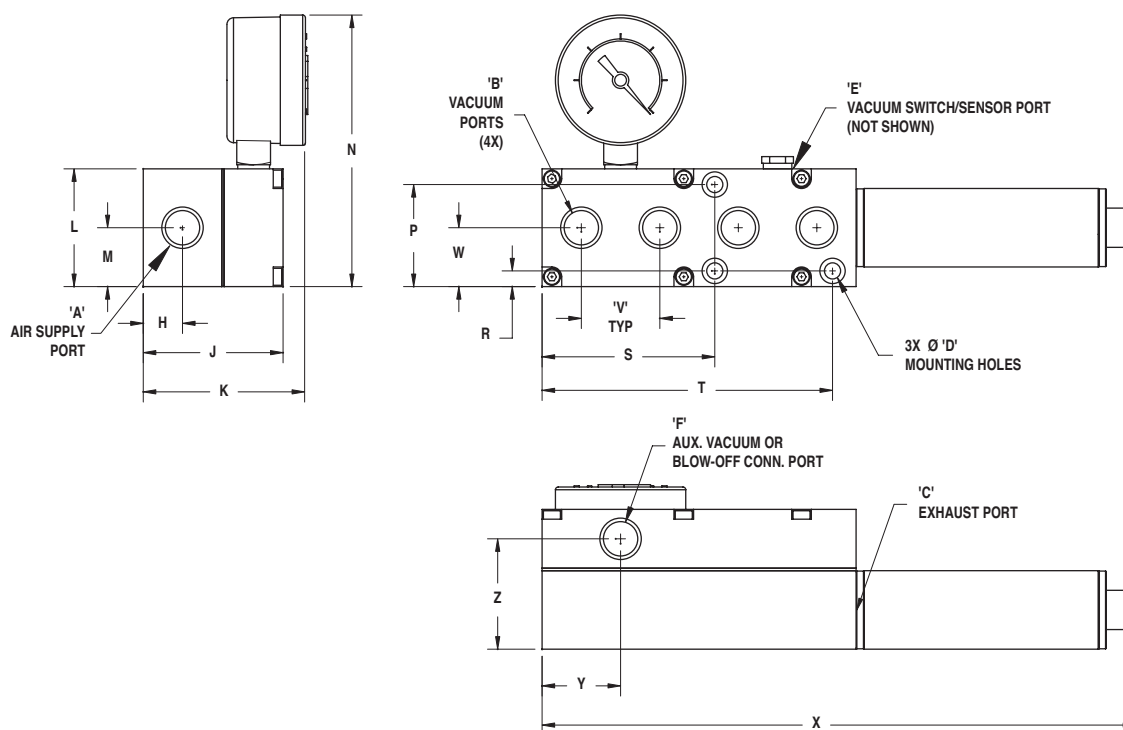
Accessories

Model	Inline Fitting	Pneufit Swivel Male Elbow	Vacuum Swivel Fitting
			
NVP80MO-200M-S08A00	124250628	124470628	124470628
NVP80MO-200H-S08A00	124250628	124470628	124470628
NVP80MO-250M-S10A00	124250638	124470638	124470628
NVP80MO-250H-S10A00	124250638	124470638	124470628

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



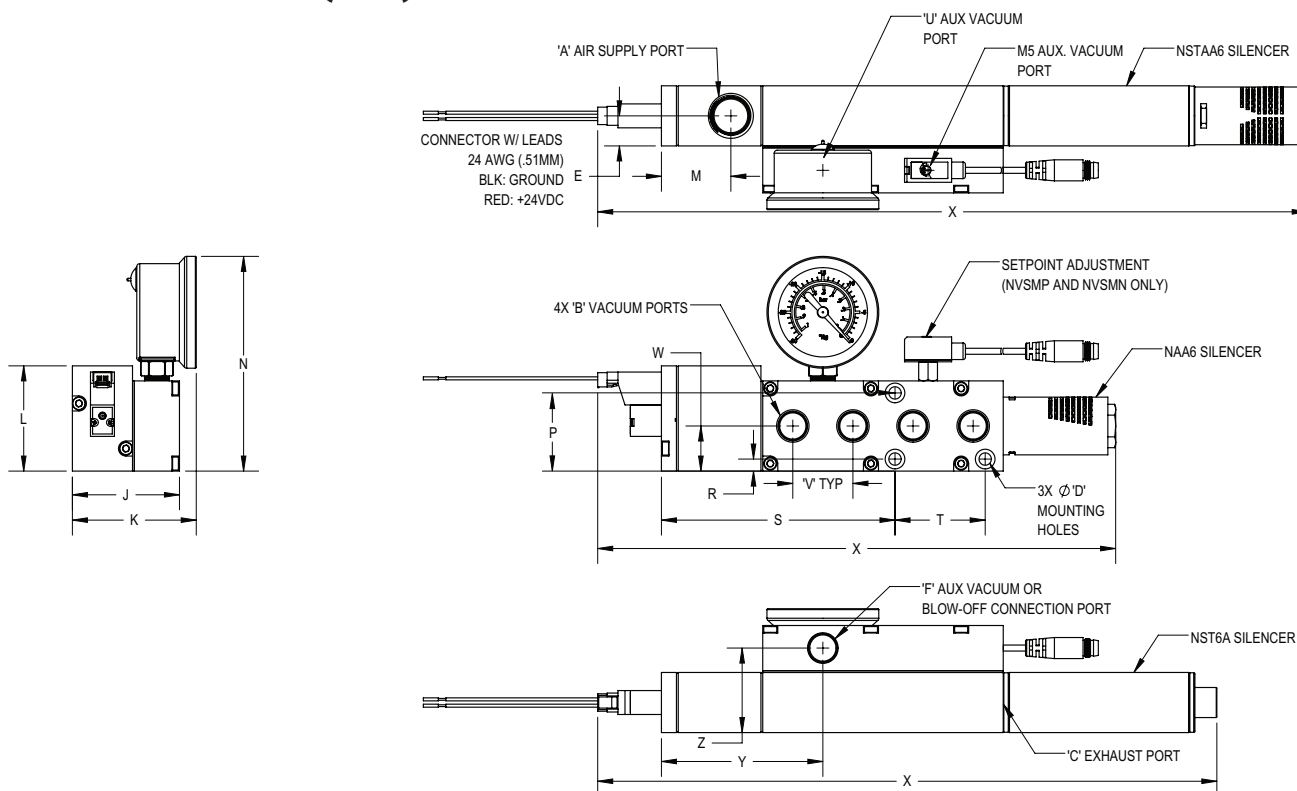
Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	V	W	X	Y	Z
NVP80MO-200*-S03A38	Imperial	1/4 NPTF	1/4 NPTF	3/8 NPTF	0.21	10-32	1/4 NPTF	0.50	1.78	2.06	1.50	0.75	3.46	1.30	0.20	2.20	3.70	1.00	0.75	6.00	1.00	1.41
NVP80MO-200*-S08A38	Imperial	1/4 NPTF	1/4 NPTF	3/8 NPTF	0.21	10-32	1/4 NPTF	0.50	1.78	2.06	1.50	0.75	3.46	1.30	0.20	2.20	3.70	1.00	0.75	7.56	1.00	1.41
NVP80MO-200*-S13A38	Imperial	1/4 NPTF	1/4 NPTF	3/8 NPTF	0.21	10-32	1/4 NPTF	0.50	1.78	2.06	1.50	0.75	3.46	1.30	0.20	2.20	3.70	1.00	0.75	9.00	1.00	1.41
NVPM80MO-200*-S03A38	(Metric)	(G 1/4)	(G 1/4)	(G 3/8)	(5.2)	(M5)	(G 1/4)	(12.7)	(45.2)	(52.2)	(38.1)	(19.1)	(87.9)	(33.0)	(5.1)	(55.9)	(94.0)	(25.4)	(19.1)	(152.4)	(25.4)	(35.7)
NVPM80MO-200*-S08A38	(Metric)	(G 1/4)	(G 1/4)	(G 3/8)	(5.2)	(M5)	(G 1/4)	(12.7)	(45.2)	(52.2)	(38.1)	(19.1)	(87.9)	(33.0)	(5.1)	(55.9)	(94.0)	(25.4)	(19.1)	(192.0)	(25.4)	(35.7)
NVPM80MO-200*-S13A38	(Metric)	(G 1/4)	(G 1/4)	(G 3/8)	(5.2)	(M5)	(G 1/4)	(12.7)	(45.2)	(52.2)	(38.1)	(19.1)	(87.9)	(33.0)	(5.1)	(55.9)	(94.0)	(25.4)	(19.1)	(228.6)	(25.4)	(35.7)

Accessories

Model	Inline Fitting	Pneufit Swivel Male Elbow	Vacuum Swivel Fitting
			
NVP80M0-200M-S08A00	124250628	124470628	124470628
NVP80M0-200H-S08A00	124250628	124470628	124470628
NVP80M0-250M-S10A00	124250638	124470638	124470628
NVP80M0-250H-S10A00	124250638	124470638	124470628

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

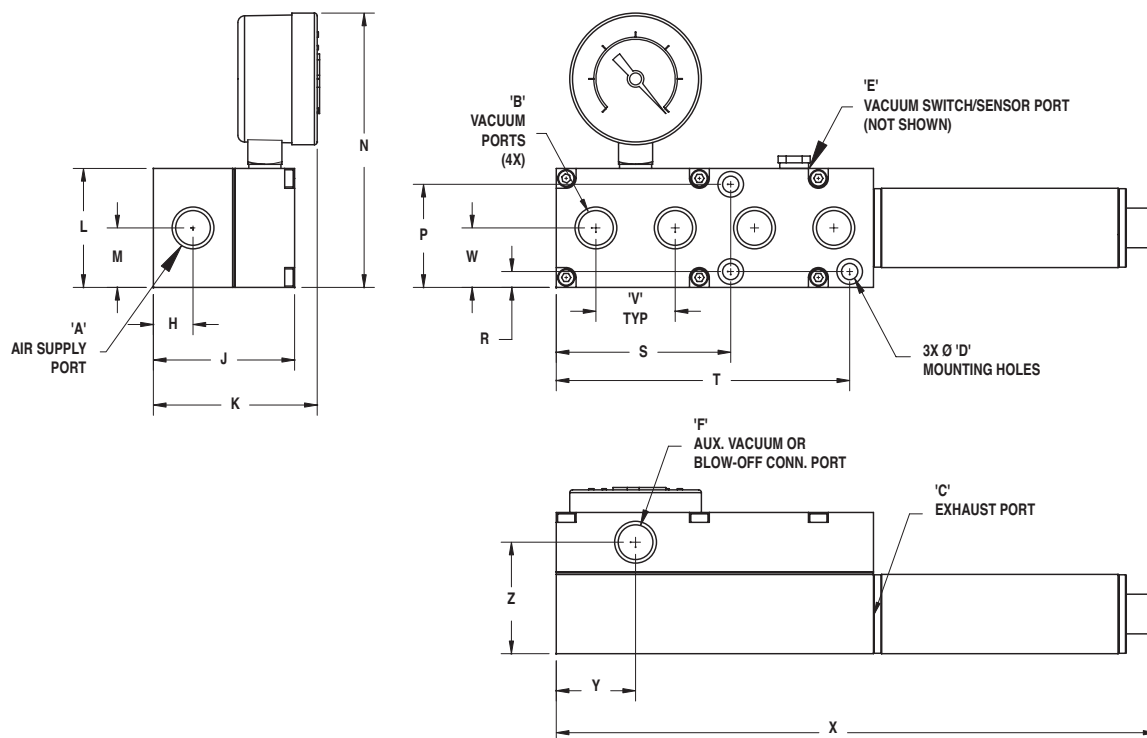
Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP80MA-200*-S03A38	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1/4 NPTF	1.78	2.06	1.75	1.16	3.51	1.30	0.20	3.89	1.50	1/8 NPTF	1.00	0.75	11.80	2.69	1.41
NVP80MA-200*-S08A38	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1/4 NPTF	1.78	2.06	1.75	1.16	3.51	1.30	0.20	3.89	1.50	1/8 NPTF	1.00	0.75	10.30	2.69	1.41
NVP80MA-200*-S13A38	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	0.50	1/4 NPTF	1.78	2.06	1.75	1.16	3.51	1.30	0.20	3.89	1.50	1/8 NPTF	1.00	0.75	8.62	2.69	1.41
NVPM80MA-200*-S03A38	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(G 1/4)	(45.2)	(52.3)	(44.5)	(19.1)	(89.2)	(33.0)	(5.1)	(98.8)	(38.1)	G1/8	(25.4)	(19.1)	(299.7)	(68.3)	(35.8)
NVPM80MA-200*-S08A38	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(G 1/4)	(45.2)	(52.3)	(44.5)	(19.1)	(89.2)	(33.0)	(5.1)	(98.8)	(38.1)	G1/8	(25.4)	(19.1)	(261.6)	(68.3)	(35.8)
NVPM80MA-200*-S13A38	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	(12.7)	(G 1/4)	(45.2)	(52.3)	(44.5)	(19.1)	(89.2)	(33.0)	(5.1)	(98.8)	(38.1)	G1/8	(25.4)	(19.1)	(218.9)	(68.3)	(35.8)



Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	V	W	X	Y	Z
NVP8XB0-250*-S03A38	Imperial	3/8 NPTF	1/4 NPTF	1/2 NPTF	0.21	10-32	1/4 NPTF	0.50	1.78	2.07	1.50	0.75	3.46	1.30	0.20	2.20	3.70	1.00	0.75	7.56	1.00	1.41
NVPM8XB0-250*-S03A38	(Metric)	(G 3/8)	(G 1/4)	(G 1/2)	(5.2)	M5	(G 1/4)	(12.7)	(45.2)	(52.5)	(38.1)	(19.1)	(87.9)	(33.0)	(5.1)	(55.9)	(94.0)	(25.4)	(19.1)	(192.1)	(25.4)	(35.7)

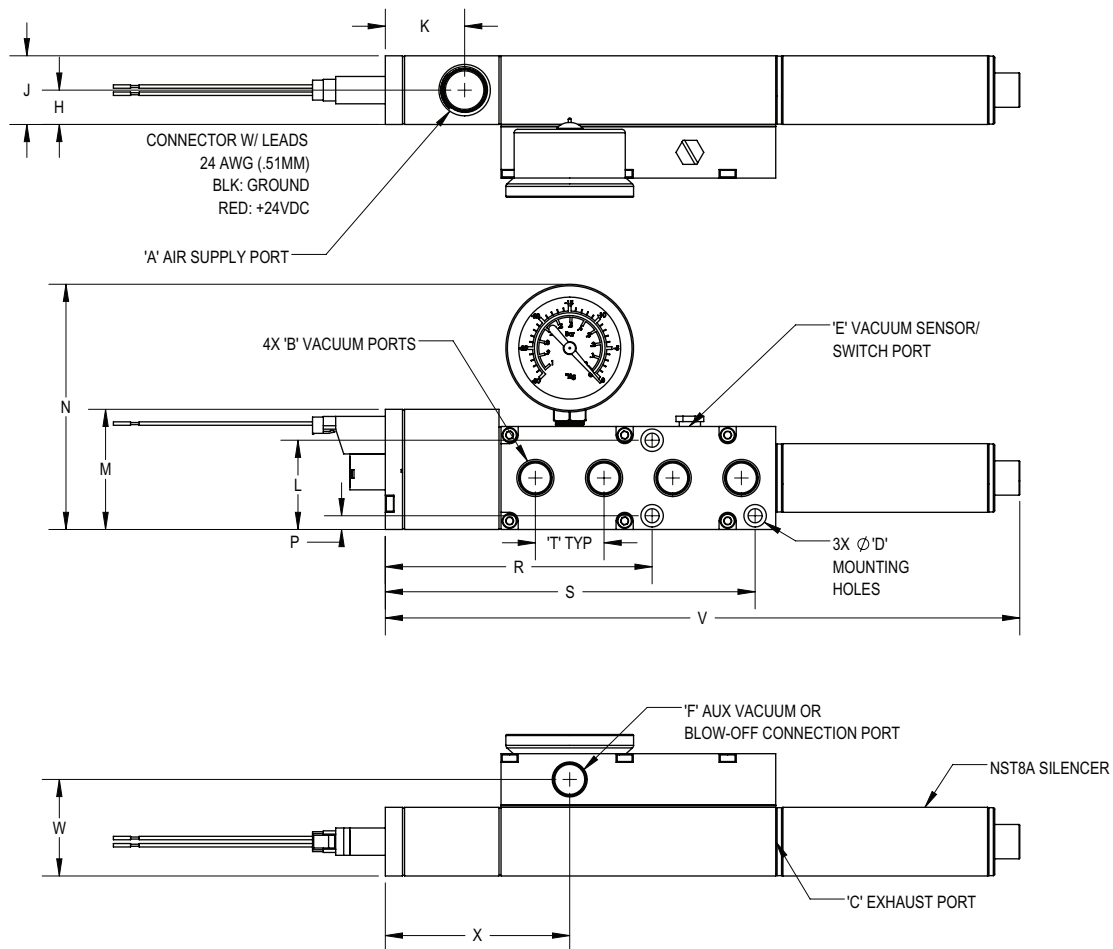
NVP80M

Multi-port



1

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	V	W	X
NVP8XBA-250*-S03A38	Imperial	3/8 NPTF	1/4 NPTF	3/8 NPTF	0.21	10-32	1/4 NPTF	0.50	1.00	1.16	1.30	1.75	3.57	0.20	3.89	5.39	1.00	9.24	1.41	2.69
NVPM8XBA-250*-S03A38	(Metric)	(G 3/8)	(G 1/4)	(G 3/8)	(5.3)	M5	(G 1/4)	(12.7)	(25.4)	(29.5)	(33.0)	(44.5)	(90.7)	(5.1)	(98.8)	(136.9)	(25.4)	(234.7)	(35.8)	(68.3)

NVP80C

Air Saver



- » Energy efficient – compressed air on only when needed, automatic shut-off
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to ~250° F (-34° to 121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply/Vacuum Line

3/8" OD (10mm) for size 200

1/2" OD (12mm) for size 250

Mounting Holes

Mounting holes accept 10-32 [M5] screws

Control Valve

3 way/2 position (faster part release), minimum orifice – 0.125" [3mm]

Performance Level

Designations

"M", "V" 0-20"Hg [0 to 677mbar] for medium vacuum/ high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/ standard flow applications

Generator Selection

1. Determine the desired evacuation time (speed)
2. Calculate the total volume of air to be evacuated in the system including vacuum lines, vessel/ cavity size, cups, etc.
3. Determine the desired vacuum level, "Hg/mbar

Application ex.: Evacuate 2 cu.ft. of air in 1 minute (60 sec) at a vacuum level of 21"Hg

Formula: Time (60 sec)/Cu. ft (2) = 30 seconds per cu.ft. (evacuation speed)



Product options

Standard (NVP80)

Valve controlled vacuum (NVP80)

Pneumatic blow-off (NVP8XV)

Multi-port (NVP80M)

Air Saver (NVP80C)

Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP80C0-200M-S08A38	20"Hg	6.00 SCFM	4.80 SCFM	NST6A Silencer
NVP80C0-200H-S08A38	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer
NVP80C0-250M-S27A38	20"Hg	9.50 SCFM	7.80 SCFM	NFA-51-1/2 Silencer
NVP80C0-250H-S27A38	28"Hg	9.00 SCFM	12.50 SCFM	NFA-51-1/2 Silencer

Accessories

NVP80C

Air Saver



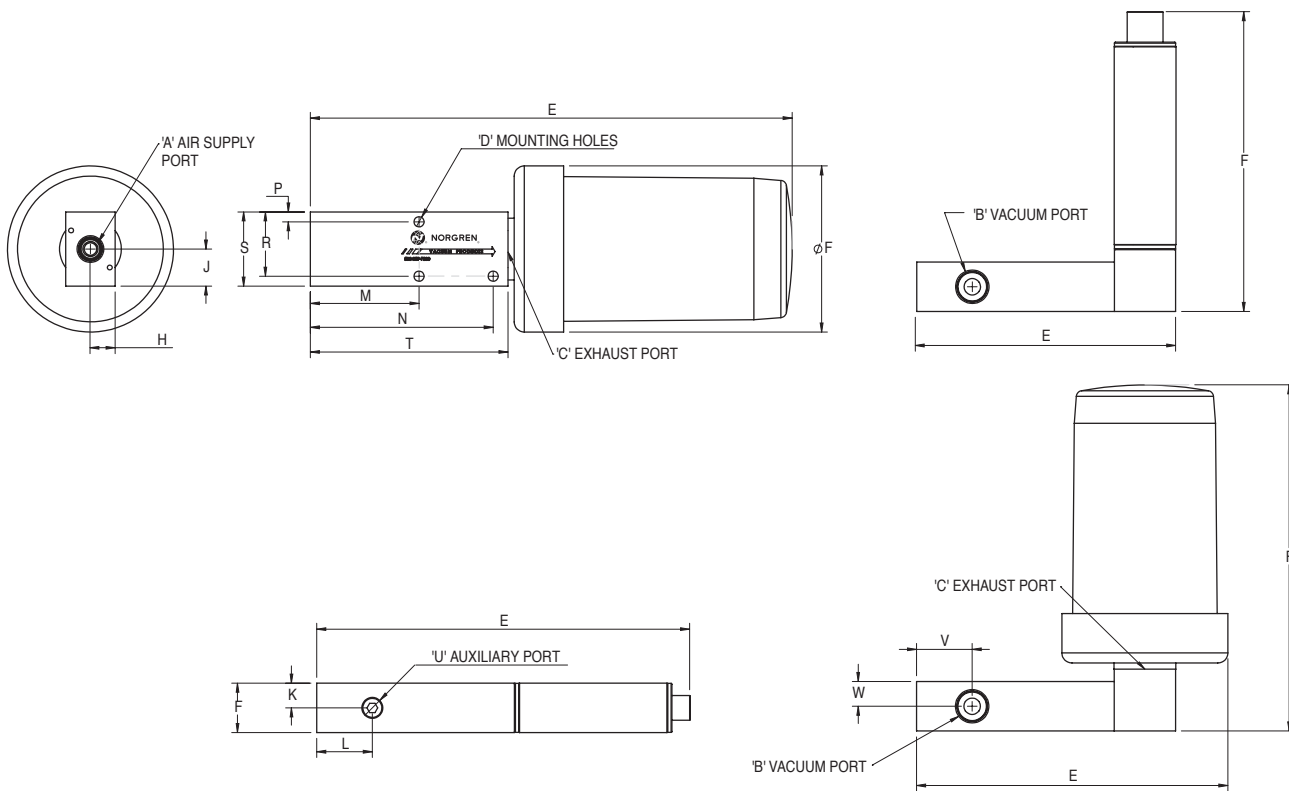
1

Option selector

NVP★80C0-★★★-S★★A38

Series	Substitute	Accessories	Substitute
NVP (Imperial Thread)		Extra Ports / NVG-150-GF	A38
NVPM (Metric Thread)	M	Silencers	Substitute
Vacuum Flow Level	Substitute	NST6A (72dB)	S08
Venturi Cartridge 200	200	NFA-51-1/2	S27
Venturi Cartridge 250	250		
Vacuum Level	Substitute		
20"Hg @ 80PSI (Standard)	M		
28"Hg @ 80PSI (Standard)	H		
20"Hg @ 60PSI	Y		
28"Hg @ 60PSI	Z		

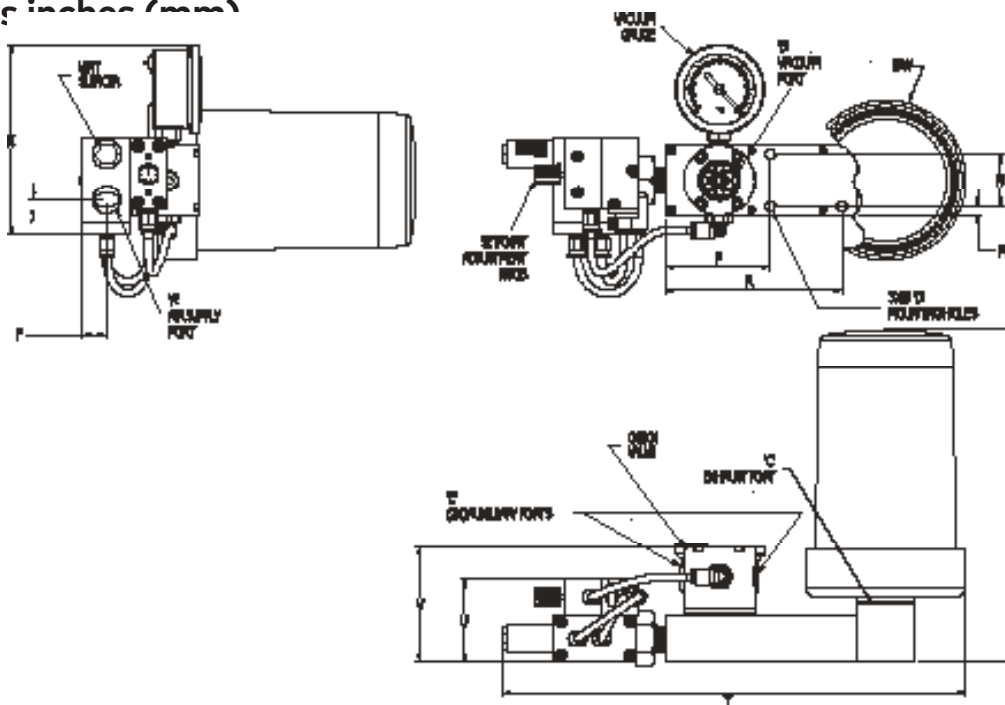
Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	J	K	M	N	P	R	T	U	V	W
NVP80C0-200*-S08A38	Imperial	1/8 NPTF	1/2 NPTF	3/8 NPTF	0.21	1/8 NPTF	0.50	0.34	3.49	0.20	1.30	2.20	3.70	10.41	1.60	2.30	1.00
NVPM80C0-200*-S08A38	(Metric)	(G 1/8)	(G 1/2)	(G 3/8)	(5.2)	(G 1/8)	(12.7)	(8.6)	(88.6)	(5.1)	(33.0)	(55.9)	(94.0)	(264.5)	(40.6)	(58.4)	(25.4)



Dimensions inches (mm)



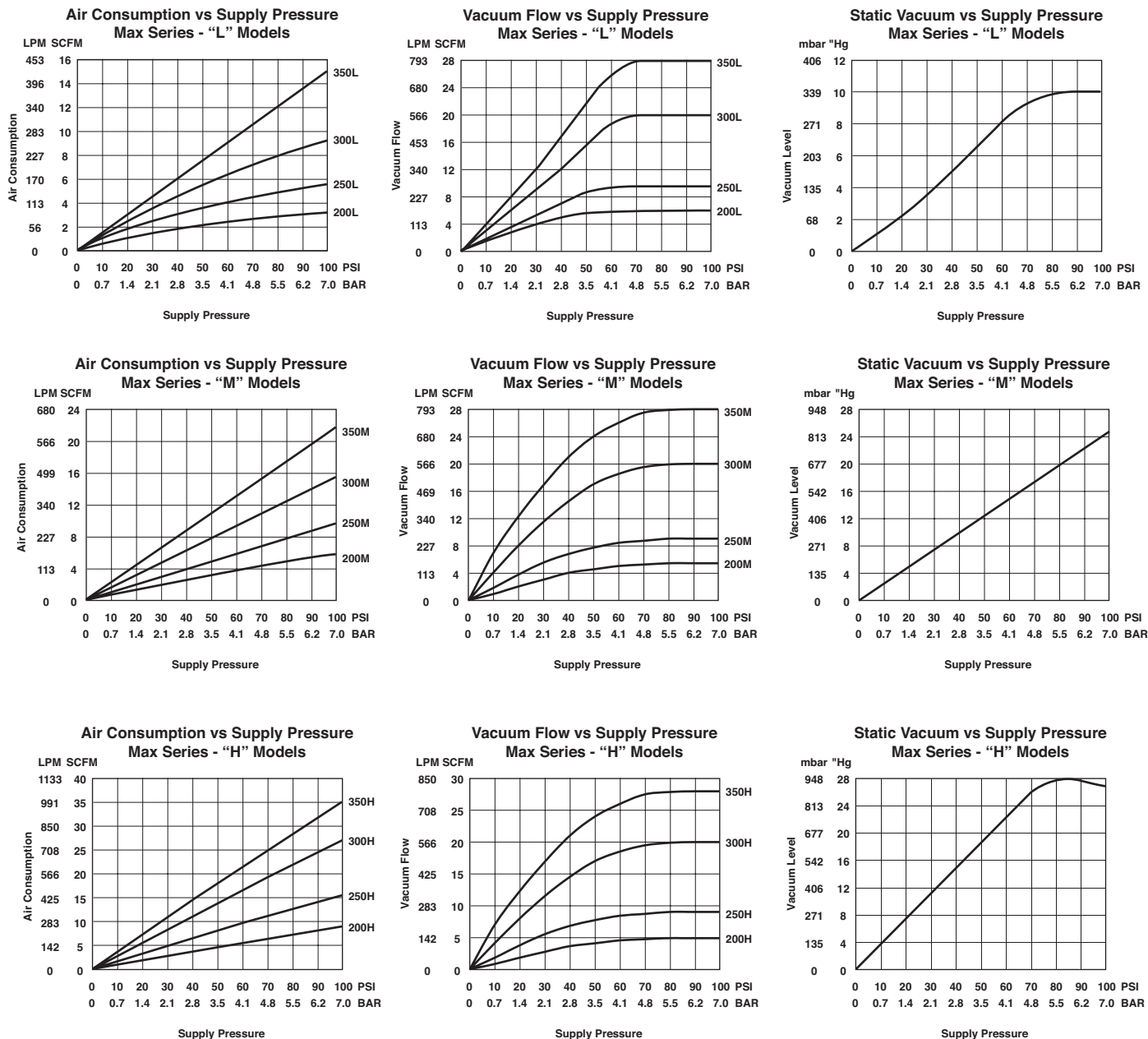
Model	Units	A	B	C	D	E	F	J	K	M	N	P	R	T	U	V	W	X
NVP80CO-250*-S27A38	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	1/8 NPTF	0.50	0.74	3.90	0.20	1.30	2.20	3.70	9.20	1.72	2.30	3.23	7.00
NVPM80CO-250*-S27A38	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(G 1/8)	(12.7)	(18.9)	(99.0)	(5.1)	(33.0)	(55.9)	(94.0)	(233.7)	(43.7)	(58.4)	(82.0)	(177.8)

Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	10"Hg (339)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
200L	2.80 (79.3)	Vacuum Flow SCFM (L/min)	6.00 (169.9)	5.80 (164.2)	4.30 (121.8)	1.70 (48.1)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	0.77 (0)	2.05 (0.1)	4.62 (0.2)	13.34 (0.5)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Vacuum Flow SCFM (L/min)	9.50 (269.0)	7.90 (223.7)	5.70 (161.4)	2.20 (62.3)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
250L	4.80 (135.9)	Evacuation time (seconds)	0.00 (0.0)	0.52 (0.0)	1.28 (0.0)	3.08 (0.1)	7.95 (0.3)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
		Vacuum Flow SCFM (L/min)	6.00 (169.9)	5.30 (150.1)	4.90 (138.8)	4.00 (113.3)	- (-)	3.50 (99.1)	2.50 (70.8)	1.10 (31.1)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	0.75 (0.0)	1.90 (0.1)	3.20 (0.1)	- (-)	5.30 (0.2)	8.70 (0.3)	17.10 (0.6)	42.60 (1.5)	- (-)	- (-)	- (-)	- (-)
200M	4.80 (135.9)	Vacuum Flow SCFM (L/min)	9.50 (269.0)	9.20 (260.5)	8.30 (235.0)	7.00 (198.2)	- (-)	4.70 (133.1)	3.40 (96.3)	2.20 (62.3)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	0.45 (0.0)	1.10 (0.0)	2.40 (0.1)	- (-)	3.80 (0.1)	6.00 (0.2)	9.70 (0.3)	15.40 (0.5)	- (-)	- (-)	- (-)	- (-)
		Vacuum Flow SCFM (L/min)	5.40 (152.9)	4.70 (133.1)	3.85 (109.0)	3.30 (93.4)	- (-)	3.00 (85.0)	2.60 (73.6)	2.10 (59.5)	- (-)	1.60 (45.3)	1.20 (34.0)	0.60 (17.0)	0.00 (0.0)
200H	7.80 (220.9)	Evacuation time (seconds)	0.00 (0.0)	1.20 (0.0)	2.10 (0.1)	3.40 (0.1)	- (-)	5.20 (0.2)	7.70 (0.3)	11.50 (0.4)	- (-)	20.00 (0.7)	33.50 (1.2)	62.60 (2.2)	98.10 (3.5)
		Vacuum Flow SCFM (L/min)	9.00 (254.9)	8.50 (240.7)	7.85 (222.3)	7.00 (198.2)	- (-)	6.50 (184.1)	5.30 (150.1)	3.90 (110.4)	- (-)	2.50 (70.8)	1.80 (51.0)	0.90 (25.5)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	0.75 (0.0)	1.30 (0.0)	2.20 (0.1)	- (-)	3.50 (0.1)	5.60 (0.2)	9.10 (0.3)	- (-)	17.40 (0.6)	30.10 (1.1)	56.00 (2.0)	76.00 (2.7)
250H	12.50 (354.0)	Vacuum Flow SCFM (L/min)	9.00 (254.9)	8.50 (240.7)	7.85 (222.3)	7.00 (198.2)	- (-)	6.50 (184.1)	5.30 (150.1)	3.90 (110.4)	- (-)	2.50 (70.8)	1.80 (51.0)	0.90 (25.5)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	0.75 (0.0)	1.30 (0.0)	2.20 (0.1)	- (-)	3.50 (0.1)	5.60 (0.2)	9.10 (0.3)	- (-)	17.40 (0.6)	30.10 (1.1)	56.00 (2.0)	76.00 (2.7)
		Vacuum Flow SCFM (L/min)	9.00 (254.9)	8.50 (240.7)	7.85 (222.3)	7.00 (198.2)	- (-)	6.50 (184.1)	5.30 (150.1)	3.90 (110.4)	- (-)	2.50 (70.8)	1.80 (51.0)	0.90 (25.5)	0.00 (0.0)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)

Performance Data



Notes: Standard operating pressure for Norgren generators is 80 PSI [5.5 bar]. Generators can be factory modified to run at other operating pressures i.e. 60 PSI [4.1 bar] etc. The values shown in the performance chart will remain the same for all operating pressures.

Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.



- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to -400° F (-73° to -204°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

1/2" OD (12mm)

Vacuum Line

1/2" OD (12mm), preferred 3/4" (22mm) for lines exceeding 3' (1M)

Mounting Holes

Mounting holes accept 10-32[M5] screws

Performance Level

Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Control Valve

12V or 24V normally closed or 24V normally open

Product options

Standard (NVP90)

Valve controlled (NVP90V)

Multi-port (NVP90M)



Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP90-300M-S27A00	20"Hg	20.00 SCFM	12.50 SCFM	NFA-51-.500 Silencer
NVP90-300H-S27A00	28"Hg	20.00 SCFM	22.00 SCFM	NFA-51-.500 Silencer
NVP90-350M-S27A00	20"Hg	28.00 SCFM	22.00 SCFM	NFA-51-.500 Silencer
NVP90-350H-S27A00	28"Hg	28.00 SCFM	28.00 SCFM	NFA-51-.500 Silencer

Accessories

Option selector

NVP★90-★★★★-S★★A★★

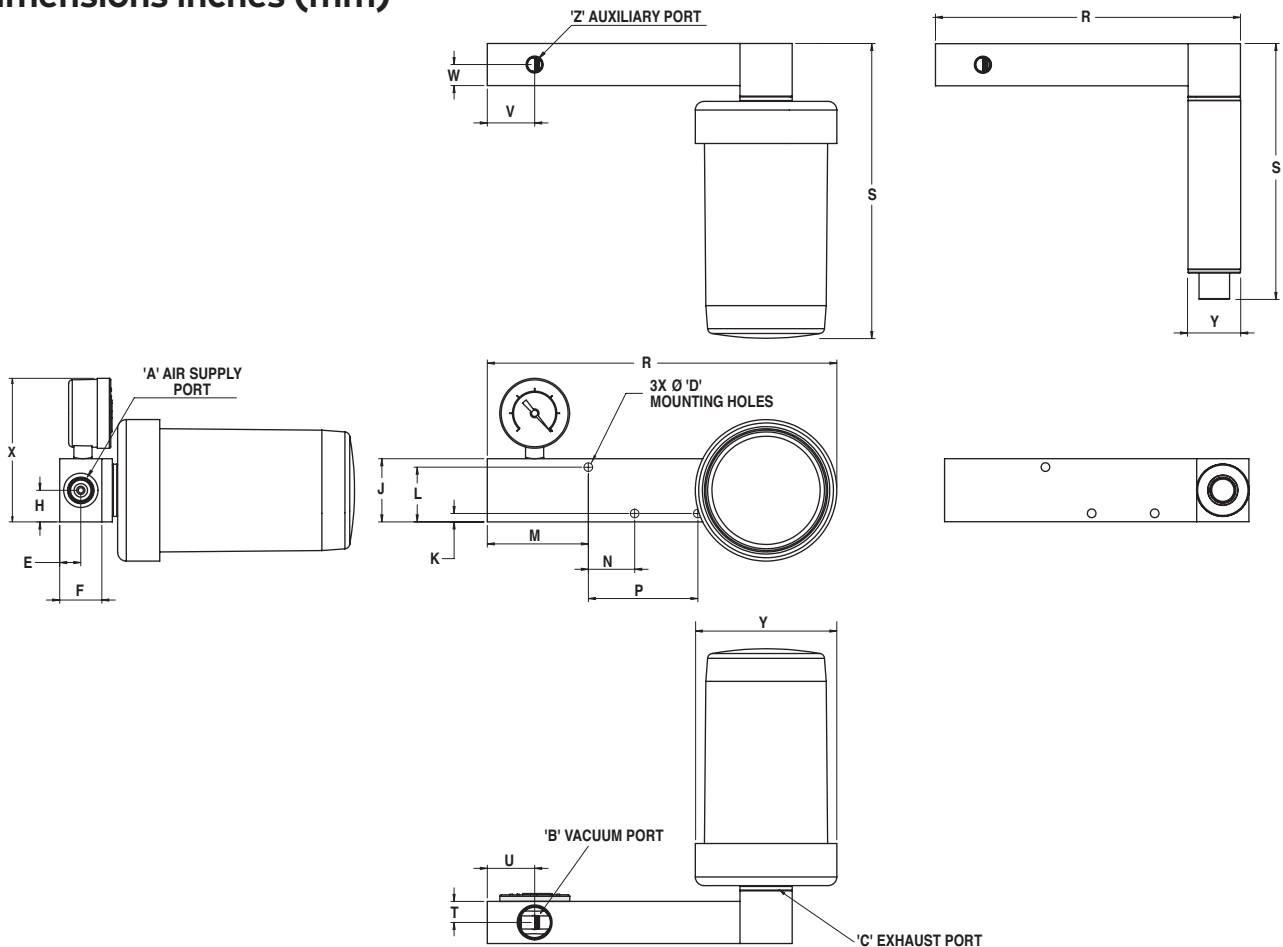
Series	Substitute	Accessories	Substitute
NVP (Imperial Thread)		Extra Ports / No Accessories	A00
NVPM (Metric Thread)	M	Extra Ports / NVG-150-GF	A38
Vacuum Flow Level	Substitute	Silencers	Substitute
Venturi Cartridge 300	300	None	S00
Venturi Cartridge 350	350	NFA-51-.500 (72dB)	S27
Vacuum Level	Substitute	NFA-51-.500 - No Elbow (72dB)	S37
10"Hg @ 80PSI (Standard)	L	NST8B (76dB)	S11
20"Hg @ 80PSI (Standard)	M	NST8B - No Elbow (76dB)	S31
28"Hg @ 80PSI (Standard)	H		
10"Hg @ 60PSI	X		
20"Hg @ 60PSI	Y		
28"Hg @ 60PSI	Z		

Accessories

Standard Models	Inline Fitting	Swivel Elbow Fitting
		
NVP90-300M-S27A00	124250738	124470738
NVP90-300H-S27A00	124250738	124470738
NVP90-350M-S27A00	124250738	124470738
NVP90-350H-S27A00	124250738	124470738

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

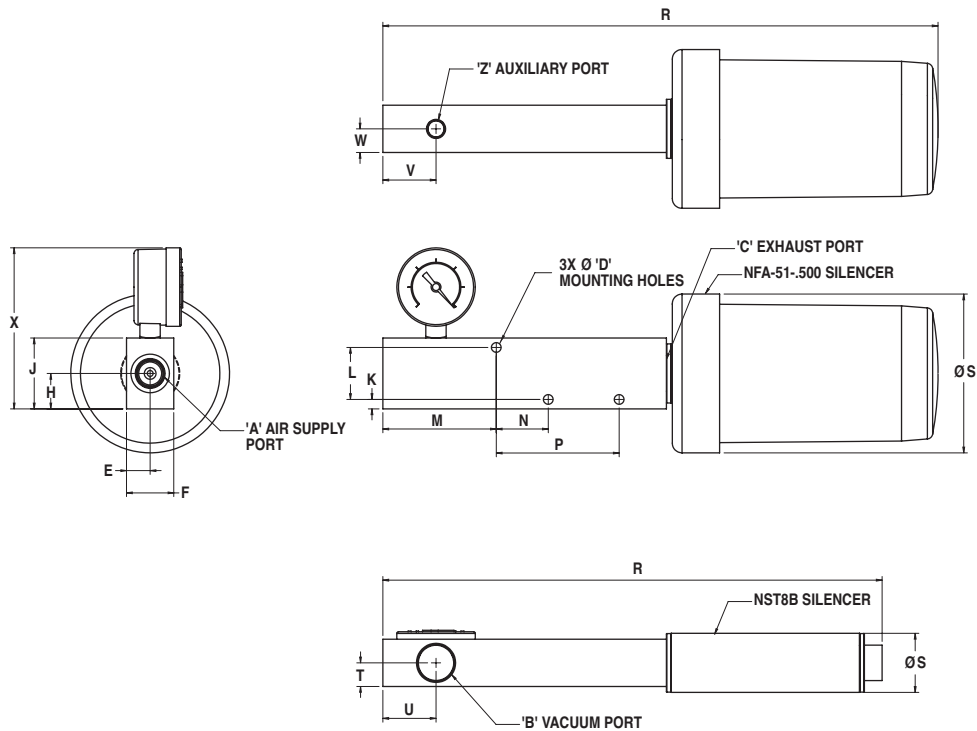
Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP90-3***-S27A38	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.40	1.10	2.60	8.30	7.00	0.50	1.13	1.13	0.50	3.36	3.41	1/8 NPTF
NVP90-3***-S11A00	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.40	1.10	2.60	7.24	6.07	0.50	1.13	1.13	0.50	3.36	1.25	1/8 NPTF
NVPM90-3***-S27A38	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(61.0)	(27.9)	(66.0)	(298.4)	(177.8)	(12.7)	(28.6)	(28.6)	(12.7)	(86.6)	(86.6)	(G 1/8)
NVPM90-3***-S11A00	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(61.0)	(27.9)	(66.0)	(268.2)	(154.2)	(12.7)	(28.6)	(28.6)	(12.7)	(86.6)	(31.8)	(G 1/8)



Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y
NVP90-3***-S27A38	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.40	1.10	2.60	11.75	3.36	0.50	1.13	1.13	0.50	3.41	1/8 NPTF
NVP90-3***-S11A00	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	0.50	1.00	0.75	1.50	0.20	1.10	2.40	1.10	2.60	10.56	1.25	0.50	1.13	1.13	0.50	3.41	1/8 NPTF
NVPM90-3***-S27A38	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(61.0)	(27.9)	(66.0)	(298.4)	(85.3)	(12.7)	(28.6)	(28.6)	(12.7)	(86.6)	(G 1/8)
NVPM90-3***-S11A00	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(12.7)	(25.4)	(19.1)	(38.1)	(5.1)	(27.9)	(61.0)	(27.9)	(66.0)	(268.2)	(31.8)	(12.7)	(28.6)	(28.6)	(12.7)	(86.6)	(G 1/8)

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to -400° F (-73° to -204°C)
20° to 120° F (-7° to 49°C) (Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

1/2" OD (12mm)

Vacuum Line

1/2" OD (12mm), preferred 3/4" (22mm) for lines exceeding 3' (1M)

Mounting Holes

Mounting holes accept
10-32[M5] screws

Electrical

24V -5% to 10% (VC/VO option)
12V -5% to 10% (VC option)

Power Consumption (Watts)

1.6 watts

Response Times

8 milliseconds

Cycle Rate

45 cycles/second

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual Override

Yes

Control

12V (VC option) or 24V normally closed (VA option) or 24V normally open (VB option)

Performance Level Designations

"L", "X" 0-10"Hg [0 to 339mbar] for low vacuum/high flow applications

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Product options

Standard (NVP90)

Valve controlled (NVP90V)

Multi-port (NVP90M)

Air Saver (NVP90C)



Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP90VA-300M-S27A00	NC 24V	20"Hg	20.00 SCFM	12.50 SCFM	NFA-51-.500 Silencer
NVP90VA-300H-S27A00	NC 24V	28"Hg	20.00 SCFM	22.00 SCFM	NFA-51-.500 Silencer
NVP90VA-350M-S27A00	NC 24V	20"Hg	28.00 SCFM	22.00 SCFM	NFA-51-.500 Silencer
NVP90VA-350H-S27A00	NC 24V	28"Hg	28.00 SCFM	28.00 SCFM	NFA-51-.500 Silencer

Accessories

Option selector

NVP★90V★-★★★★-S★★A★★					
Series	Substitute		Accessories	Substitute	
NVP (Imperial Thread)			Extra Ports / No Accessories	A00	
NVPM (Metric Thread)	M		Extra Ports / NVG-150-GF	A38	
Valve	Substitute		Silencers	Substitute	
NC 24V Vacuum	VA		None	S00	
NO 24V Vacuum	VB		NFA-51-.500 (72dB)	S27	
NC 12V Vacuum	VC		NFA-51-.500 - No Elbow (72dB)	S37	
Vacuum Flow Level	Substitute		NST8B (76dB)	S11	
Venturi Cartridge 300	300		NST8B - No Elbow (76dB)	S31	
Venturi Cartridge 350	350				
Vacuum Level	Substitute				
10"Hg @ 80PSI (Standard)	L				
20"Hg @ 80PSI (Standard)	M				
28"Hg @ 80PSI (Standard)	H				
10"Hg @ 60PSI	X				
20"Hg @ 60PSI	Y				
28"Hg @ 60PSI	Z				



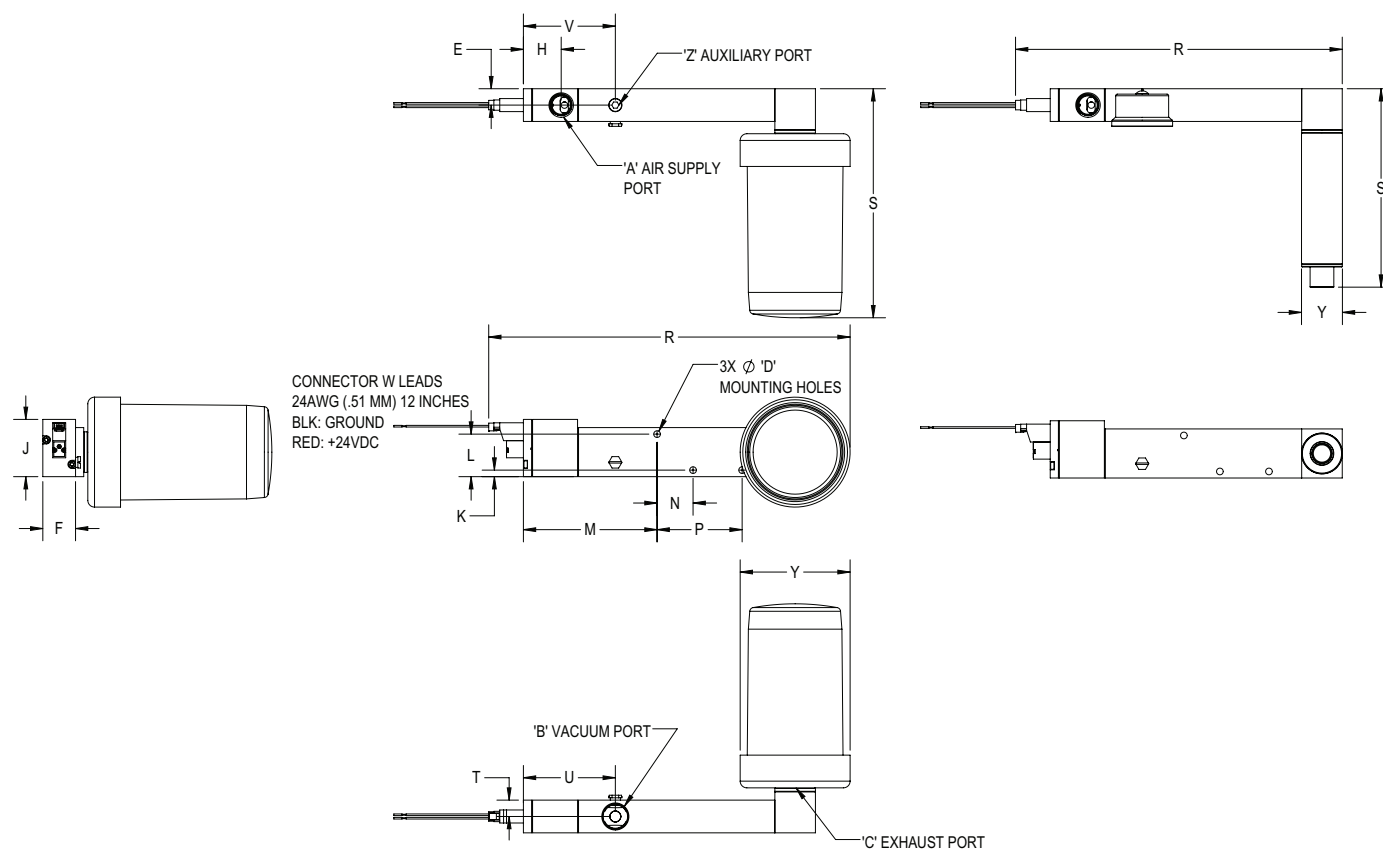
Accessories

Standard Models	Inline Fitting	Swivel Elbow Fitting
		
NVP90-300M-S27A00	124250738	124470738
NVP90-300H-S27A00	124250738	124470738
NVP90-350M-S27A00	124250738	124470738
NVP90-350H-S27A00	124250738	124470738

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	Z
NVP90VA-3***-S27A38	Imperial	3/8 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	1.75	0.20	1.30	3.89	1.10	2.60	11.05	7.00	0.50	2.81	2.81	0.50	1/8 NPTF
NVP90VA-3***-S11A00	Imperial	3/8 NPTF	3/8 NPTF	3/8 NPTF	0.21	0.50	1.00	1.16	1.75	0.20	1.30	3.89	1.10	2.60	9.98	6.06	0.50	2.81	2.81	0.50	1/8 NPTF
NVPM90VA-3***-S27A38	(Metric)	(G 3/8)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(44.5)	(5.1)	(33.1)	(98.8)	(27.9)	(66.0)	(280.7)	(177.8)	(12.7)	(71.4)	(71.4)	(12.7)	(G 1/8)
NVPM90VA-3***-S11A00	(Metric)	(G 3/8)	(G 3/8)	(G 3/8)	(5.3)	(12.7)	(25.4)	(29.5)	(44.5)	(5.1)	(33.1)	(98.8)	(27.9)	(66.0)	(253.5)	(153.9)	(12.7)	(71.4)	(71.4)	(12.7)	(G 1/8)

NVP90M

Multi-port



1

- » Multi-port version - distribute vacuum to multiple locations
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-100° to -400° F (-73° to -204°C)
20° to 120° F (-7° to 49°C) (Valve)

Operating Pressure

80 PSI (5.5 bar) Standard or
60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

1/2" OD (12mm)

Vacuum Line

1/2" OD (12mm), preferred
3/4" (22mm) for lines exceeding
3' (1M)

Mounting Holes

Mounting holes accept
10-32[M5] screws

Electrical

24V -5% to 10% (VA,VB option)
12V -5% to 10% (VC option)

Power Consumption (Watts)

1.6 watts

Response Times

8 milliseconds

Cycle Rate

45 cycles/second

Average Valve Life

50 million cycles

Electrical Connection

11.8" Flying Lead

LED Indicator with Manual Override

Yes

Control Valve

12V (VC option) or 24 normally closed (VA option) or 24V normally open (VB option)

Performance Level

Designations

"L" 0-10"Hg [0 to 339mbar]

for low vacuum/high flow applications

"M" 0-20"Hg [0 to 677mbar]

for medium vacuum/high flow applications

"H" 0-28"Hg [0 to 948mbar]

for high vacuum/standard flow applications

Product options

Standard (NVP90)

Valve controlled (NVP90V)

Multi-port (NVP90M)

Air Saver (NVP90C)



MODULAR VACUUM GENERATORS

Standard Models

Part number	Valve	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP90M0-300M-S11A38	None	20"Hg	20.00 SCFM	12.50 SCFM	NST8B Silencer
NVP90M0-300H-S11A38	None	28"Hg	20.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90M0-350M-S11A38	None	20"Hg	28.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90M0-350H-S11A38	None	28"Hg	28.00 SCFM	28.00 SCFM	NST8B Silencer
NVP90M0-300M-S11A38	NC 24V	20"Hg	20.00 SCFM	12.50 SCFM	NST8B Silencer
NVP90M0-300H-S11A38	NC 24V	28"Hg	20.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90M0-350M-S11A38	NC 24V	20"Hg	28.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90M0-350H-S11A38	NC 24V	28"Hg	28.00 SCFM	28.00 SCFM	NST8B Silencer

Accessories



Option selector

Series	Substitute
NVP (Imperial Thread)	
NVPM (Metric Thread)	M
Valve	Substitute
Multi-Port, No Valve	MO
Multi-Port, NC 24V Vacuum	MA
Multi-Port, NO 24V Vacuum	MB
Multi-Port, NC 12V Vacuum	MC
Vacuum Flow Level	Substitute
Venturi Cartridge 300	300
Venturi Cartridge 350	350
Vacuum Level	Substitute
10"Hg @ 80PSI (Standard)	L
20"Hg @ 80PSI (Standard)	M
28"Hg @ 80PSI (Standard)	H
10"Hg @ 60PSI	X
20"Hg @ 60PSI	Y
28"Hg @ 60PSI	Z

Accessories	Substitute
Extra Ports / NVG-150-GF	A38
Extra Ports / NVTMV-QD-6 / NVG-150-GF	A22
Extra Ports / NVSMN-QD-6 / NVG-150-GF	A24
Extra Ports / NVSMP-QD-6 / NVG-150-GF	A26
Silencers	
NST8B (76dB)	S11

Accessories

Standard Models	Inline Fitting	Swivel Elbow Fitting	Vacuum Swivel Fitting
			
NVP90M0-300M-S11A00	124250738	124470738	124470748
NVP90M0-300H-S11A00	124250738	124470738	124470748
NVP90M0-350M-S11A00	124250738	124470738	124470748
NVP90M0-350H-S11A00	124250738	124470738	124470748

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory

*The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section

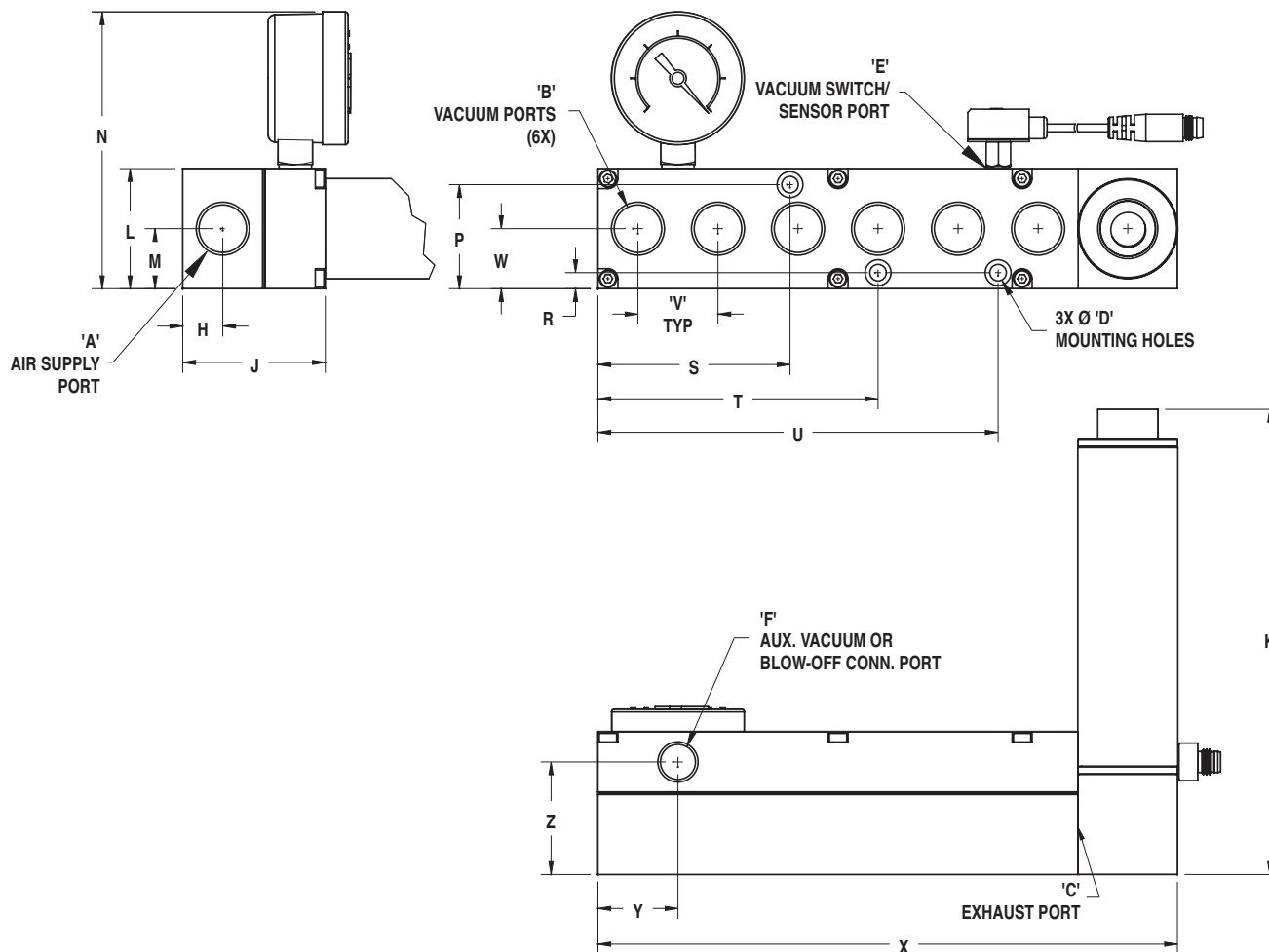
NVP90M

Multi-port



1

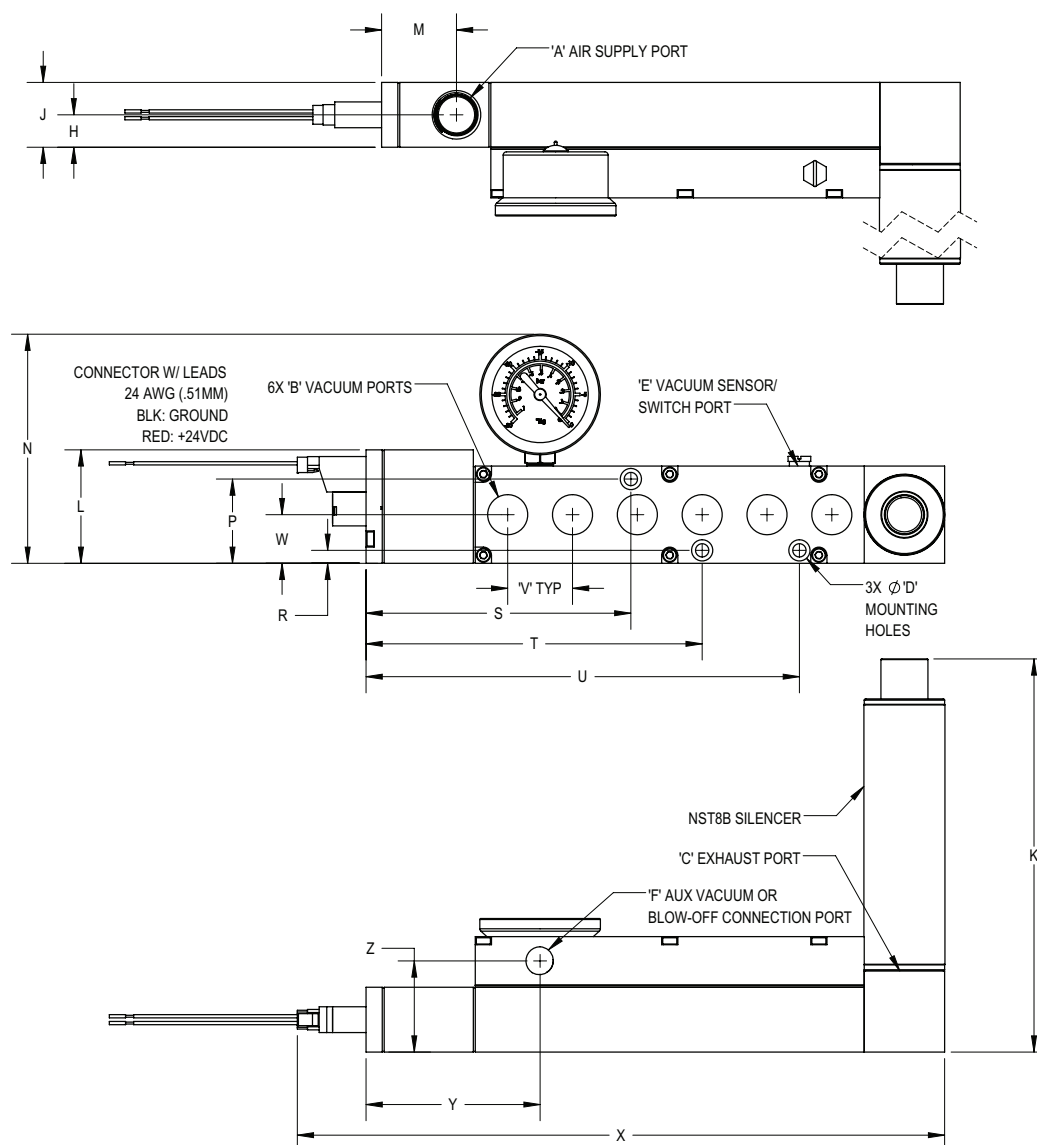
Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP90MO-3***-S11A38	Imperial	3/8 NPTF	3/8 NPTF	1/2 NPTF	0.21	10-32	1/8 NPTF	0.50	1.78	6.07	1.50	0.75	3.41	1.30	0.20	2.40	3.50	5.00	1.00	0.75	7.25	1.00	1.41
NVPM90MO-3***-S11A38	(Metric)	(G 3/8)	(G 3/8)	(G 1/2)	(5.3)	M-5	(G 1/8)	(12.7)	(45.2)	(154.2)	(38.1)	(19.1)	(86.6)	(33.0)	(5.1)	(61.0)	(88.9)	(127.0)	(25.4)	(19.1)	(184.2)	(25.4)	(35.8)



Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
NVP90MA-3***-S11A38	Imperial	3/8 NPTF	3/8 NPTF	1/2 NPTF	0.21	10-32	1/8 NPTF	0.50	1.00	6.06	1.75	1.16	3.53	1.30	0.20	4.06	5.19	6.69	1.00	0.75	9.99	2.69	1.41
NVPM90MA-3***-S11A38	(Metric)	(G 3/8)	(G 3/8)	(G 1/2)	(5.3)	M5	(G 1/8)	(12.7)	(25.4)	(153.9)	(44.5)	(29.5)	(89.7)	(33.0)	(5.1)	(103.1)	(131.8)	(169.9)	(25.4)	(19.1)	(253.7)	(68.3)	(35.8)

NVP90C

Air Saver



1

- » Energy efficient – compressed air on only when needed, automatic shut-off
- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 28"Hg [948mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (100 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to -250° F (-34° to -121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or 60 PSI (4.1 bar)

Materials

Generator Body: Anodized Aluminum

Supply Line

1/2" OD (12mm)

Vacuum Line

1/2" OD (12mm)

Mounting Holes

Mounting holes accept 10-32[M5] screws

Performance Level

Designations

"M", "Y" 0-20"Hg [0 to 677mbar] for medium vacuum/high flow applications

"H", "Z" 0-28"Hg [0 to 948mbar] for high vacuum/standard flow applications

Generator Selection

1. Determine the desired evacuation time (speed)
2. Calculate the total volume of air to be evacuated in the system including vacuum lines, vessel/cavity size, cups, etc.
3. Determine the desired vacuum level, "Hg/mbar Application
ex.: Evacuate 2 cu.ft. of air in 1 minute (60 sec) at a vacuum level of 21"Hg
Formula: Time (60 sec)/Cu. ft (2) = 30 seconds per cu.ft. (evacuation speed)

Product options

Standard (NVP90)
Valve controlled (NVP90V)
Multi-port (NVP90M)
Air Saver (NVP90C)



MODULAR VACUUM GENERATORS

Standard Models

Part number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NVP90C0-300M-S11A38	20"Hg	20.00 SCFM	12.50 SCFM	NST8B Silencer
NVP90C0-300H-S11A38	28"Hg	20.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90C0-350M-S11A38	20"Hg	28.00 SCFM	22.00 SCFM	NST8B Silencer
NVP90C0-350H-S11A38	28"Hg	28.00 SCFM	28.00 SCFM	NST8B Silencer

Accessories

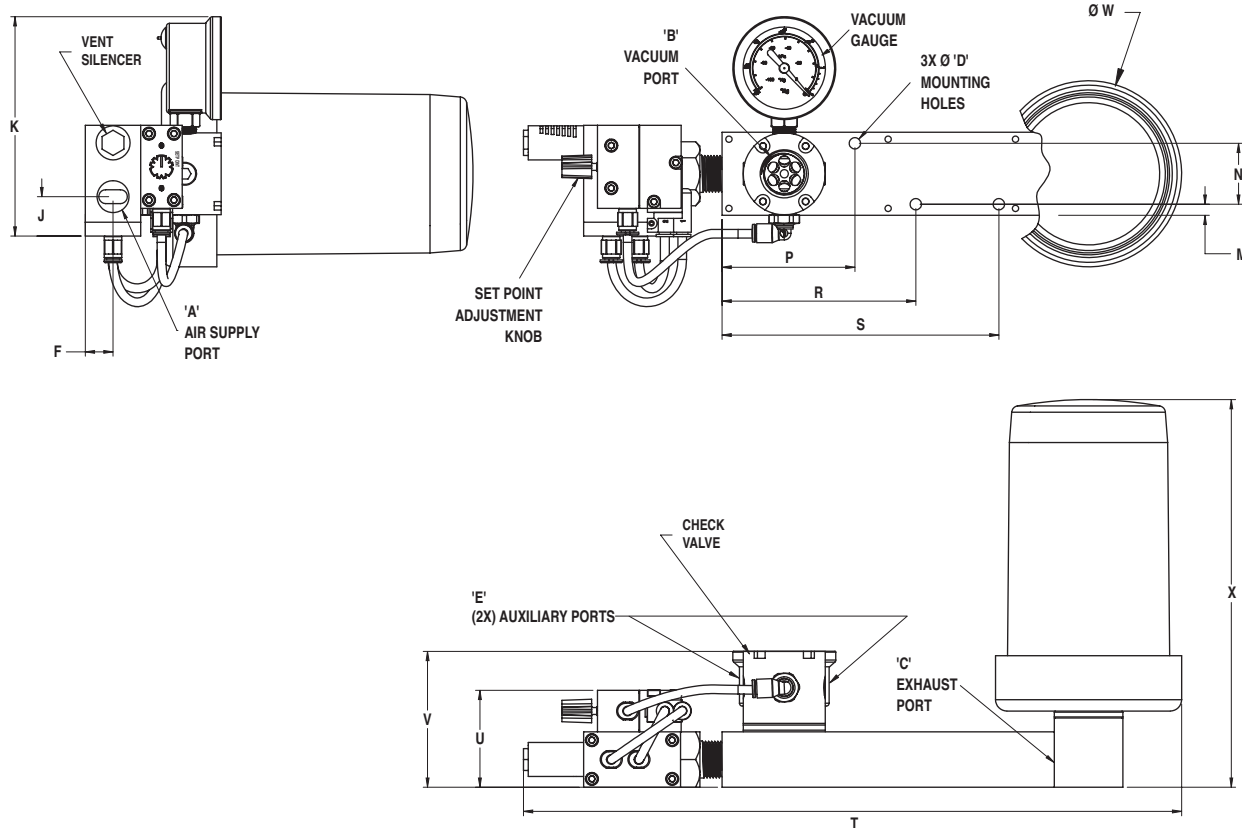
Option selector

NVP★90C0-★★★-S27A38

Series	Substitute
NVP (Imperial Thread)	
NVPM (Metric Thread)	M
Vacuum Flow Level	Substitute
Venturi Cartridge 300	300
Venturi Cartridge 350	350
Vacuum Level	Substitute
20"Hg @ 80PSI (Standard)	M
28"Hg @ 80PSI (Standard)	H
20"Hg @ 60PSI	Y
28"Hg @ 60PSI	Z

Accessories	Substitute
Extra Ports / NVG-150-GF	A38
Silencers	
NFA-51-.500 (72dB)	S27

Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	J	K	M	N	P	R	S	T	U	V	W	X
NVP90M0-3***-S27A38	Imperial	3/8 NPTF	1/2 NPTF	1/2 NPTF	0.21	1/8 NPTF	0.50	0.74	3.90	0.20	1.30	2.40	3.50	5.00	11.20	1.72	2.30	3.23	7.00
NVPM90M0-3***-S27A38	(Metric)	(G 3/8)	(G 1/2)	(G 1/2)	(5.3)	(G 1/8)	(12.7)	(18.9)	(99.0)	(5.1)	(33.0)	(61.0)	(88.9)	(127.0)	(284.5)	(43.7)	(58.4)	(82.0)	(177.8)

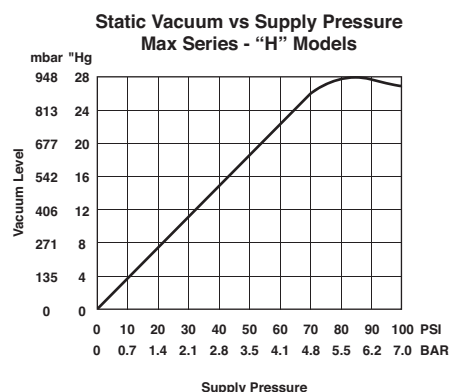
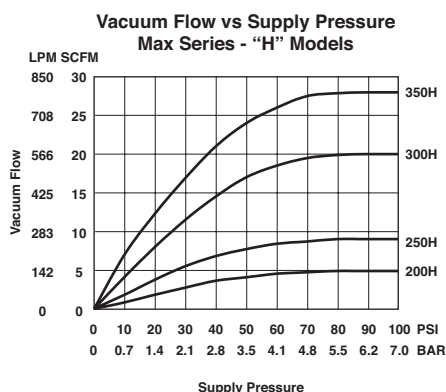
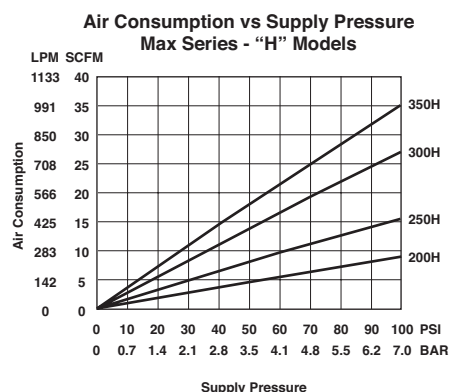
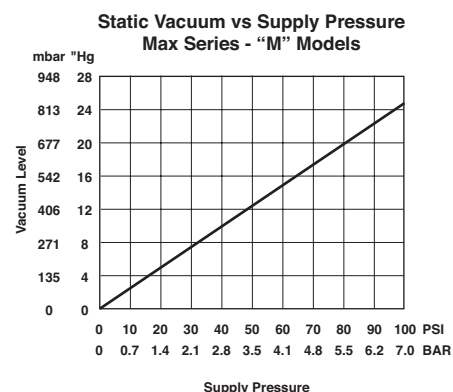
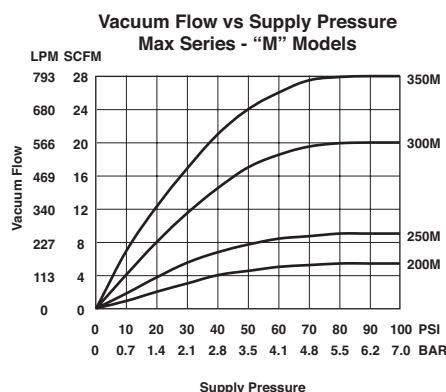
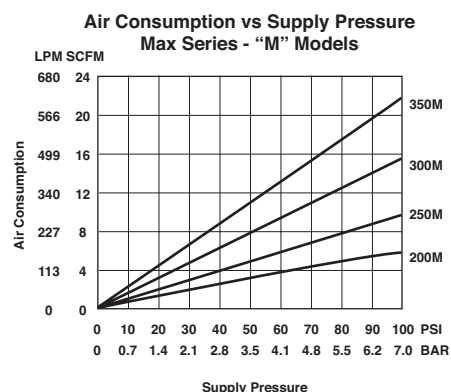
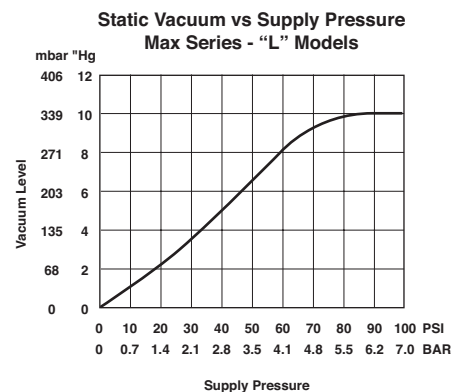
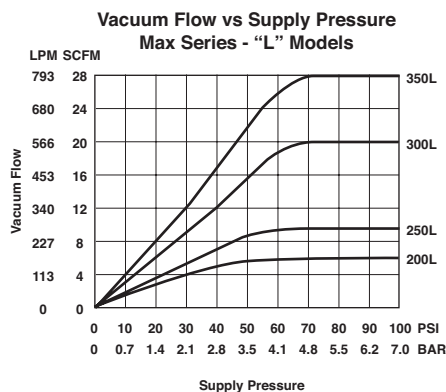
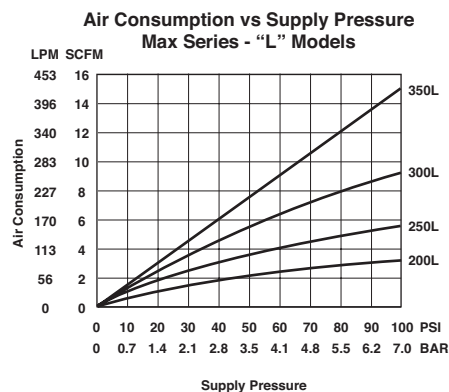
Performance Data

Model	Air Consumption SCFM (L/min)	Vacuum Level "Hg (mbar)	0"Hg (0)	3"Hg (102)	6"Hg (203)	9"Hg (305)	10"Hg (339)	12"Hg (406)	15"Hg (508)	18"Hg (609)	20"Hg (677)	21"Hg (711)	24"Hg (813)	27"Hg (914)	28"Hg (948)
300M	12.50 (354.0)	Vacuum Flow SCFM (L/min)	20.00 (566.3)	19.00 (530.8)	16.30 (461.6)	13.80 (390.8)	- (-)	8.10 (229.4)	5.50 (155.7)	3.30 (93.4)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	0.00 (0.0)	0.00 (0.0)	1.10 (0.0)	- (-)	1.80 (0.1)	2.70 (0.1)	4.60 (0.2)	8.70 (0.3)	- (-)	- (-)	- (-)	- (-)
350M	22.00 (623.0)	Vacuum Flow SCFM (L/min)	28.00 (792.9)	24.00 (679.6)	19.40 (549.3)	16.80 (475.7)	- (-)	14.50 (410.6)	11.20 (317.1)	4.80 (135.9)	0.00 (0.0)	- (-)	- (-)	- (-)	- (-)
		Evacuation time (seconds)	0.00 (0.0)	0.00 (0.0)	0.00 (0.0)	1.00 (0.0)	- (-)	1.50 (0.1)	2.10 (0.1)	4.30 (0.2)	8.40 (0.3)	- (-)	- (-)	- (-)	- (-)
300H	22.00 (623.0)	Vacuum Flow SCFM (L/min)	20.00 (566.3)	17.00 (481.4)	14.00 (396.4)	12.70 (359.6)	- (-)	12.00 (339.8)	10.00 (238.2)	7.40 (209.5)	- (-)	4.90 (138.8)	2.70 (76.5)	1.30 (36.8)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	0.00 (0.0)	0.80 (0.0)	1.20 (0.0)	- (-)	2.00 (0.1)	2.80 (0.1)	3.90 (0.1)	- (-)	5.90 (0.2)	11.10 (0.4)	32.70 (1.2)	60.00 (2.1)
350H	28.00 (792.9)	Vacuum Flow SCFM (L/min)	28.00 (792.3)	22.00 (623.0)	18.70 (529.5)	15.90 (450.2)	- (-)	14.50 (410.6)	11.80 (334.1)	8.10 (229.4)	- (-)	5.70 (161.4)	4.50 (127.4)	2.25 (63.7)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	0.00 (0.0)	0.00 (0.0)	1.20 (0.0)	- (-)	1.90 (0.1)	2.30 (0.1)	3.40 (0.1)	- (-)	5.30 (0.2)	8.80 (0.3)	26.00 (0.9)	44.00 (1.6)

Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



Performance Data



Warnings

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

NHVP

High Vacuum Generator



1

- » High Productivity – non-clogging design reduces downtime
- » Strong hold – powerful vacuum up to 29.5"Hg [999mbar]
- » Mounts Easily – compact and lightweight
- » Fast Response – installs close to vacuum point
- » Efficient – minimal air consumption
- » Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

Filtered (50 Micron) unlubricated, non-corrosive dry gases

Operating Temperature

-30° to ~250° F (-34° to ~121°C)

Operating Pressure

80 PSI (5.5 bar) Standard or

Materials

Generator Body: Anodized Aluminum

Supply / Vacuum Line

3/8" OD (10mm) tube for sizes 100 / 200

1/2" OD (12mm) tube for size 300

Mounting Holes

Mounting holes accept 4-40[M3] screws for size 100

Mounting holes accept 10-32[M5] screws for sizes 200 / 300



Standard Models

Part Number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Silencer
NHVP-100-S05A00	29.5"Hg	1.30 SCFM	4.90 SCFM	NST4 Silencer
NHVP-200-S10A00	29.5"Hg	3.45 SCFM	8.60 SCFM	NST8A Silencer
NHVP-300-S11A00	29.5"Hg	6.00 SCFM	22.00 SCFM	NST8B Silencer

Accessories

Option selector

Series		Substitute		Accessories	
NHVP (Imperial Thread)				Sensor & Gauge Ports / No Accessories	
NHVPM (Metric Thread)		M		Sensor & Gauge Ports / NVTMV-QD-6	
Size		Substitute		Sensor & Gauge Ports / NVSMN-QD-6	
NHVP 100		100		Sensor & Gauge Ports / NVSMP-QD-6	
NHVP 200		200		Sensor & Gauge Ports / NVTMV-QD-6 / NVG-150-CBM	
NHVP 300		300		Sensor & Gauge Ports / NVSMN-QD-6 / NVG-150-CBM	
Silencer for NHVP-100		S05		Sensor & Gauge Ports / NVSMP-QD-6 / NVG-150-CBM	
NST4 (68dB)		S05		Sensor & Gauge Ports / NVG-150-CBM	
Silencer for NHVP-200		S10		Sensor Port Only / NVTMV-QD-6	
NST8A (74dB)		S10		Sensor Port Only / NVSMN-QD-6	
Silencer for NHVP-300		S11		Sensor Port Only / NVSMP-QD-6	
NST8B (76dB)		S11		Gauge Port Only / NVG-150-CBM	
				Sensor Port Only	
				Gauge Port Only	
				No Ports / No Accessories	

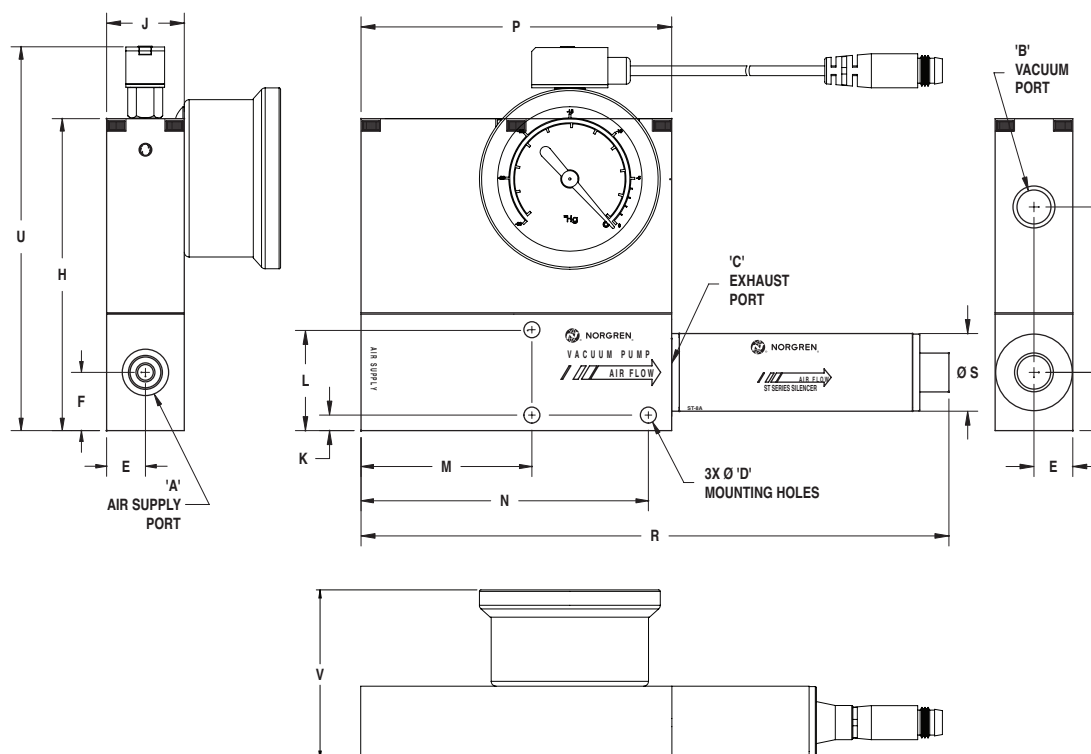
Accessories

Standard Models	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Flat Cup
				
NVP80-200M-S08A00	124250628	124470618	NVCF5-38M	NUC040****
NVP80-200H-S08A00	124250628	124470618	NVCF5-38M	NUC040****
NVP80-250M-S10A00	124250628	124470618	NVCF5-38M	NUC040****
NVP80-250H-S10A00	124250628	124470618	NVCF5-38M	NUC040****

*Proper selection of vacuum cups depends on the application. Cups are available in various durometers, colors and materials. If you do not see what you are looking for, please consult factory
 *The fittings, cups, and spring levelers listed are a small selection of possible options please refer to the specific catalog section



Dimensions inches (mm)



Model	Units	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V
NHVP-100-S05A38	Imperial	1/4 NPTF	1/8 NPTF	1/4 NPTF	0.12	0.38	0.38	2.28	0.75	0.09	0.67	1.78	N/A	3.20	5.06	0.75	1.28	3.02	2.00
NHVP-200-S10A38	Imperial	1/4 NPTF	1/4 NPTF	1/2 NPTF	0.21	0.50	0.75	4.02	1.00	0.20	N/A	2.20	3.70	4.00	7.57	1.00	2.13	4.76	2.00
NHVP-300-S11A38	Imperial	3/8 NPTF	1/4 NPTF	1/2 NPTF	0.21	0.50	0.75	4.02	1.00	0.20	N/A	2.50	4.00	5.00	9.81	1.25	2.12	4.76	2.00
NHVPM-100-S05A38	(Metric)	(G 1/4)	(G 1/8)	(G 1/4)	(3.1)	(9.7)	(9.7)	(57.9)	(19.1)	(2.3)	(17.0)	(45.2)	N/A	(81.3)	(128.5)	(19.1)	(32.5)	(76.7)	(50.8)
NHVPM-200-S10A38	(Metric)	(G 1/4)	(G 1/4)	(G 1/2)	(5.3)	(12.7)	(19.1)	(102.1)	(25.4)	(5.1)	N/A	(55.9)	(94.0)	(101.6)	(192.3)	(25.4)	(54.1)	(120.9)	(50.8)
NHVPM-300-S11A38	(Metric)	(G 3/8)	(G 1/4)	(G 1/2)	(5.3)	(12.7)	(19.1)	(102.1)	(25.4)	(5.1)	N/A	(63.5)	(101.6)	(127.0)	(249.2)	(31.8)	(53.8)	(120.9)	(50.8)

Performance Data

Model	Air Consumption	Vacuum Level	0"Hg	3"Hg	6"Hg	9"Hg	12"Hg	15"Hg	18"Hg	21"Hg	24"Hg	27"Hg	28"Hg
	SCFM (L/min)	"Hg (mbar)	(0)	(102)	(203)	(305)	(406)	(508)	(609)	(711)	(813)	(914)	(948)
NHVP-100	4.90 (138.8)	Vacuum Flow SCFM (L/min)	1.30 (36.8)	1.20 (34.0)	1.10 (31.1)	1.00 (28.3)	0.90 (25.5)	0.90 (25.5)	0.90 (25.5)	0.80 (22.7)	0.60 (17.0)	0.30 (8.5)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	6.50 (0.2)	12.30 (0.4)	18.90 (0.7)	32.50 (1.1)	40.00 (1.4)	52.50 (1.9)	72.50 (2.6)	98.00 (3.5)	135.50 (4.8)	281.30 (9.9)
NHVP-200	8.60 (243.5)	Vacuum Flow SCFM (L/min)	3.45 (97.7)	3.25 (92.0)	3.05 (86.4)	2.75 (77.9)	2.45 (69.4)	2.05 (58.0)	1.90 (53.8)	1.60 (45.3)	1.30 (36.8)	0.90 (25.5)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	2.30 (0.1)	3.80 (0.1)	6.50 (0.2)	10.20 (0.4)	14.10 (0.5)	20.00 (0.7)	29.50 (1.0)	44.00 (1.6)	67.50 (2.4)	125.00 (4.4)
NHVP-300	22.00 (623.0)	Vacuum Flow SCFM (L/min)	6.00 (169.9)	5.10 (144.4)	4.70 (133.1)	4.40 (124.6)	4.10 (116.1)	3.60 (101.9)	3.00 (85.0)	2.60 (73.6)	1.80 (51.0)	0.90 (25.5)	0.00 (0.0)
		Evacuation time (seconds)	0.00 (0.0)	1.20 (0.0)	2.10 (0.1)	3.40 (0.1)	5.20 (0.2)	7.70 (0.3)	11.50 (0.4)	16.30 (0.6)	24.00 (0.8)	39.50 (1.4)	98.10 (3.5)