

NJ MID SERIES

- Durable – rugged aluminum body construction
- Strong hold – powerful vacuum up to 28"Hg [948mbar]
- Fast response – mounts in-line, close to vacuum point - no delay due to long plumbing lines
- Efficient – minimal air consumption, provides instantaneous vacuum as needed
- Safe operation – no electricity needed
- Reliable operation – straight-through design with no moving parts

Technical Data

Fluid

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

Operating Pressure

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

Operating Temperature

-100° to 400°F (-73° to ~204°C)
without silencer

Materials

Pump Body: Anodized Aluminum

Silencer Body : Varies by Size

Supply Line / Vacuum Line

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

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

Performance Level Designations

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

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

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



Standard Models

Part Number	Max. Vacuum Level	Max. Vacuum Flow	Air Consumption	Accessories	Material
NJF-200-S08M01	10"Hg	6.00 SCFM	2.80 SCFM	NST6A Silencer	Aluminum
NJF-250-S09M01	10"Hg	9.50 SCFM	4.80 SCFM	NST6B Silencer	Aluminum
NJS-200-S08M01	28"Hg	5.40 SCFM	7.80 SCFM	NST6A Silencer	Aluminum
NJS-250-S09M01	28"Hg	9.00 SCFM	12.50 SCFM	NST6B Silencer	Aluminum

Option selector

NJ★-★★★-S★★M★★

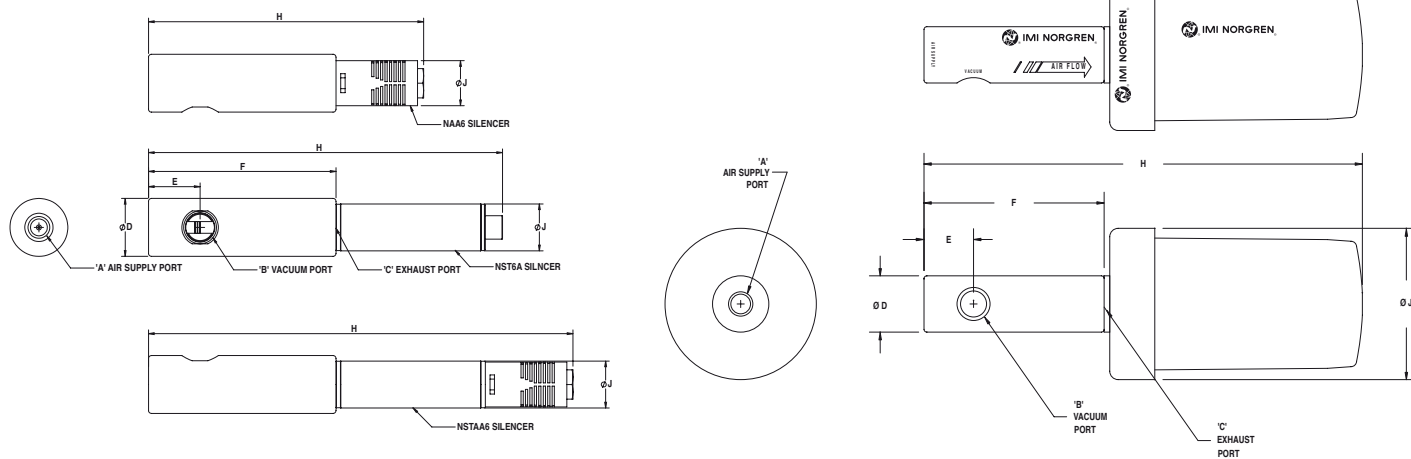
Series	Substitute	Materials	Substitute
NJF Imperial Thread 10"Hg [339mbar]	NJF	Aluminum (Standard)	M01
NJD Imperial Thread 20"Hg [677mbar]	NJD	303 Stainless Steel	M05
NJS Imperial Thread 28"Hg [948mbar]	NJS	304 Stainless Steel	M06
NJFM Metric Thread 10"Hg [339mbar]	NJFM	316 Stainless Steel	M07
NJDM Metric Thread 20"Hg [677mbar]	NJDM	PVC	M09
NJSM Metric Thread 28"Hg [948mbar]	NJSM	Delrin (Black)	M10
		Delrin (White)	M11
		Teflon	M12
		PEEK	M14
Vacuum Flow Level	Substitute	Silencers	Substitute
Venturi Cartridge 100 @ 80 PSI (Standard)	100	None	S00
Venturi Cartridge 150 @ 80 PSI (Standard)	150	NAA6 (70dB)	S03
Venturi Cartridge 200 @ 80 PSI (Standard)	200	NST6A (72dB)	S08
Venturi Cartridge 250 @ 80 PSI (Standard)	250	NST6B (72dB)	S09
Venturi Cartridge 100 @ 100 PSI	10X	NSTAA6 (64dB)	S13
Venturi Cartridge 150 @ 100 PSI	15X	NFA-51-.375 (72dB)	S26
Venturi Cartridge 200 @ 200 PSI	20X		
Venturi Cartridge 250 @ 200 PSI	25X		

● Accessories

Standard Models	Silencer	Inline Fitting	Swivel Elbow Fitting	Vacuum Fitting	Bellows Cup	Spring Leveler
NJF-200-S08M01	NST6A Silencer	124250628	124470628	VCF5-38M	NVCR-B***.*	NVCR-F***.*
NJF-250-S09M01	NST6B Silencer	124250728	124470728	VCF5-38M	NVCR-B***.*	NVCR-F***.*
NJS-200-S08M01	NST6A Silencer	124250628	124470628	VCF5-38M	NVCR-B***.*	NVCR-F***.*
NJS-250-S09M01	NST6B Silencer	124250728	124470728	VCF5-38M	NVCR-B***.*	NVCR-F***.*

*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)

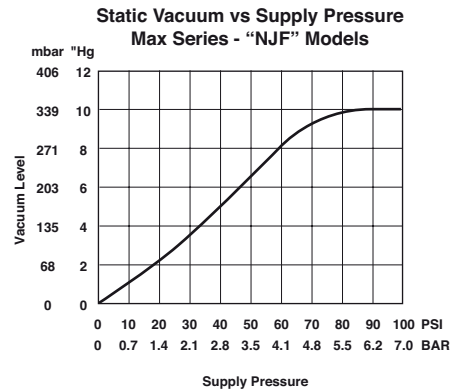
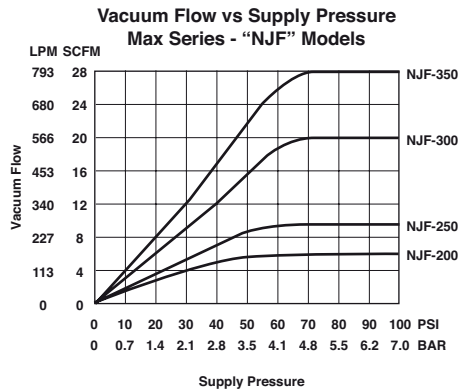
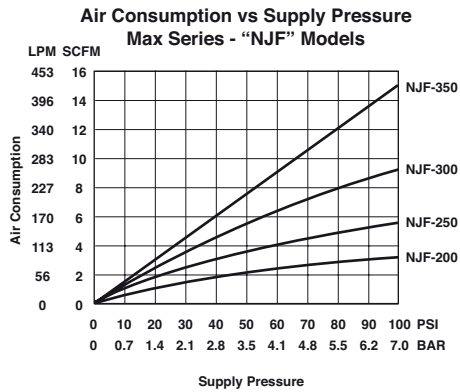


Model	Units	A	B	C	D	E	F	H	J
NJ*-***-S00M01	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	1.25	1.10	4.00	-	-
NJ*-***-S03M01	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	1.25	1.10	4.00	5.87	0.96
NJ*-***-S08M01	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	1.25	1.10	4.00	7.55	1.00
NJ*-***-S13M01	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	1.25	1.10	4.00	9.06	1.00
NJ*-***-S26M01	Imperial	1/4 NPTF	3/8 NPTF	3/8 NPTF	1.25	1.10	4.00	9.74	3.36
NJ*M-***-S00M01	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(31.80)	(27.90)	(101.60)	-	-
NJ*M-***-S03M01	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(31.80)	(27.90)	(101.60)	(149.10)	(24.40)
NJ*M-***-S08M01	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(31.80)	(27.90)	(101.60)	(191.80)	(25.40)
NJ*M-***-S13M01	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(31.80)	(27.90)	(101.60)	(230.00)	(25.40)
NJ*M-***-S26M01	(Metric)	(G 1/4)	(G 3/8)	(G 3/8)	(31.80)	(27.90)	(101.60)	(247.30)	(85.30)

● 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)
NJF-200	2.80 (79.30)	Vacuum Flow SCFM (L/min)	6.00 (169.9)	5.80 (164.20)	4.30 (121.80)	1.70 (48.10)	0 (0)
		Evacuation time (seconds)	0 (0)	0.77 (0)	2.05 (0.10)	4.62 (0.20)	13.34 (0.50)
NJF-250	4.80 (135.90)	Vacuum Flow SCFM (L/min)	9.50 (269)	7.90 (223.70)	5.70 (161.40)	2.20 (62.30)	0 (0)
		Evacuation time (seconds)	0 (0)	0.52 (0)	1.28 (0)	3.08 (0.10)	7.95 (0.30)
NJF-300	7.8 (220.90)	Vacuum Flow SCFM (L/min)	20.00 (566.30)	14.00 (399.40)	9.50 (269)	3.50 (99.10)	0 (0)
		Evacuation time (seconds)	0 (0)	0.26 (0)	0.77 (0)	1.80 (0.10)	4.10 (0.10)
NJF-350	12.50 (354)	Vacuum Flow SCFM (L/min)	28.00 (792.90)	18.00 (509.70)	12.30 (348.30)	4.50 (127.40)	0 (0)
		Evacuation time (seconds)	0 (0)	0 (0)	0.52 (0)	1.28 (0)	2.82 (0.10)

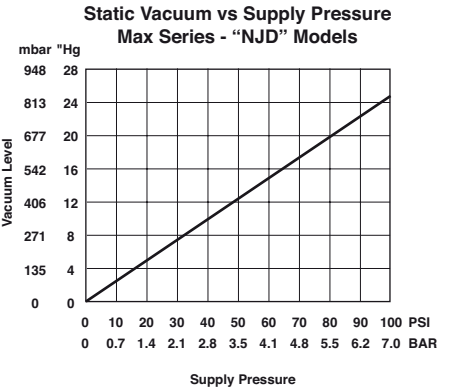
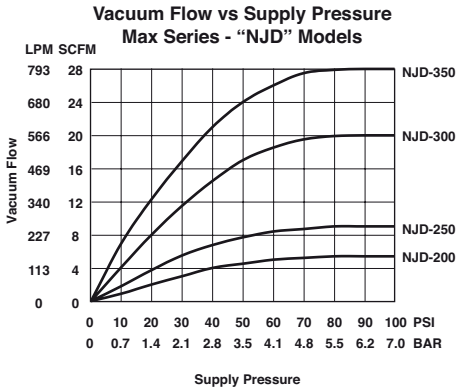
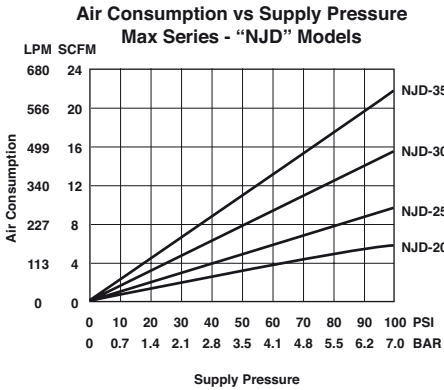
Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



● 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)
NJD-200	4.80 (135.90)	Vacuum Flow SCFM (L/min)	6.00 (169.9)	5.30 (150.10)	4.90 (138.80)	4.00 (113.30)	3.50 (99.10)	2.50 (70.80)	1.10 (31.10)	0 (0)
		Evacuation time (seconds)	0 (0)	0.75 (0)	1.90 (0.10)	3.20 (0.10)	5.30 (0.20)	8.70 (0.30)	17.10 (0.60)	42.60 (1.50)
NJD-250	7.80 (220.90)	Vacuum Flow SCFM (L/min)	9.50 (269)	9.20 (260.50)	8.30 (235)	7.00 (198.20)	4.70 (133.10)	3.40 (96.30)	2.20 (62.30)	0 (0)
		Evacuation time (seconds)	0 (0)	0.45 (0)	1.10 (0)	2.40 (0.10)	3.80 (0.10)	6.00 (0.20)	9.70 (0.30)	15.40 (0.50)
NJD-300	12.50 (354)	Vacuum Flow SCFM (L/min)	20.00 (566.30)	19.00 (538)	16.30 (461.60)	13.80 (390.80)	8.10 (229.40)	5.50 (155.70)	3.30 (93.40)	0 (0)
		Evacuation time (seconds)	0 (0)	0 (0)	0 (0)	1.10 (0)	1.80 (0.10)	2.70 (0.10)	4.60 (0.20)	8.70 (0.30)
NJD-350	22.00 (623)	Vacuum Flow SCFM (L/min)	28.00 (792.90)	24.00 (679.60)	19.40 (549.30)	16.80 (475.70)	14.50 (410.60)	11.20 (317.10)	4.80 (135.90)	0 (0)
		Evacuation time (seconds)	0 (0)	0 (0)	0 (0)	1.00 (0)	1.50 (0.10)	2.10 (0.10)	4.30 (0.2)	8.40 (0)

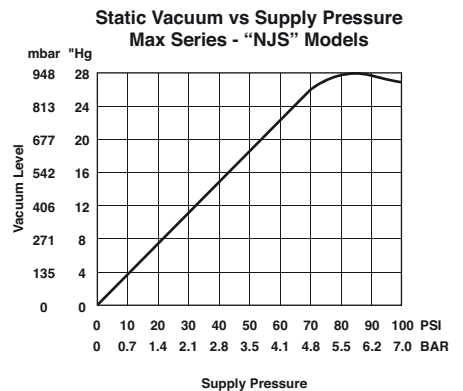
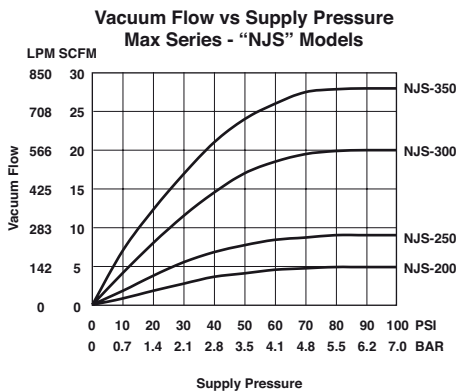
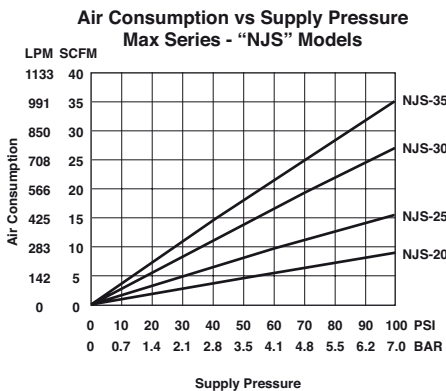
Evacuation time in seconds based on 1 cubic foot volume / "Hg (1 Liter Volume / mbar)



● 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)
NJS-200	7.80 (220.90)	Vacuum Flow SCFM (L/min)	5.40 (152.90)	4.70 (133.10)	3.85 (109)	3.30 (93.40)	- (-)	3.00 (85)	2.60 (73.60)	2.10 (59.50)	- (-)	1.60 (45.30)	1.20 (34)	0.60 (17)	0 (0)
		Evacuation time (seconds)	0 (0)	1.20 (0.10)	2.10 (0.10)	3.40 (0.10)	- (-)	5.20 (0.20)	7.70 (0.30)	11.50 (0.40)	- (-)	20.00 (0.70)	33.50 (1.20)	62.60 (2.20)	98.10 (3.50)
NJS-250	12.50 (354)	Vacuum Flow SCFM (L/min)	9.00 (254.90)	8.50 (240.70)	7.85 (222.30)	7.00 (198.20)	- (-)	6.50 (184.10)	5.30 (150.10)	3.90 (110.40)	- (-)	2.50 (70.80)	1.80 (51)	0.90 (25.50)	0 (0)
		Evacuation time (seconds)	0 (0)	0.75 (0)	1.30 (0)	2.20 (0.10)	- (-)	3.50 (0.10)	5.60 (0.20)	9.10 (0.30)	- (-)	17.40 (0.60)	30.10 (1.10)	56.00 (2)	76.00 (2.70)
NJS-300	22.00 (623)	Vacuum Flow SCFM (L/min)	20.00 (566.30)	17.00 (481.40)	14.00 (396.40)	12.70 (359.60)	- (-)	12.00 (339.80)	10.00 (238.20)	7.40 (209.50)	- (-)	4.90 (138.80)	2.70 (76.50)	1.30 (36.80)	0 (0)
		Evacuation time (seconds)	0 (0)	0 (0)	0.80 (0)	1.20 (0)	- (-)	2.00 (0.10)	2.80 (0.10)	3.90 (0.10)	- (-)	5.90 (0.20)	11.10 (0.40)	32.70 (1.20)	60.00 (2.10)
NJS-350	28.00 (792.90)	Vacuum Flow SCFM (L/min)	28.00 (792.9)	22.00 (623)	18.70 (529.50)	15.90 (450.20)	- (-)	14.50 (410.60)	11.80 (334.10)	8.10 (229.40)	- (-)	5.70 (161.40)	4.50 (127.40)	2.25 (63.70)	0 (0)
		Evacuation time (seconds)	0 (0)	0 (0)	0 (0)	1.20 (0)	- (-)	1.90 (0.10)	2.30 (0.10)	3.40 (0.10)	- (-)	5.30 (0.20)	8.80 (0.30)	26.00 (0.90)	44.00 (1.60)

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



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.