Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000



Description: Dry Screw Vacuum Pump

Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800,

NSP-1500, NSP-2500, NSP-3000

Power Range: 5 - 75 HP Ultimate Vacuum Pressure:

• NSP-150, 300, 1500, 2500, 3000 - 5×10^{-2} torr

• NSP-600 - 1×10^{-2} torr

• NSP-400, 800 - 7.5×10^{-3} torr

OVERVIEW

NES Company is proud to offer our NSP Series Dry Screw Vacuum Pumps, factory performance tested with a 1-year warranty against manufacturer's defects.

DESCRIPTION

NES Company Inc. introduces our latest line of vacuum pumps, the NSP Series. The NSP dry screw vacuum pump series is able to generate up to 7.5 x 10⁻³ torr at flow rate up to 1766 CFM. The NSP Series is meticulously machined and carefully crafted for tight tolerances with quality material, resulting in deep vacuum levels for a myriad of applications. The sum of these features makes for a versatile and reliable vacuum pump.

FEATURES

- Max vacuum pressure of 7.5 x 10⁻³ torr for high vacuum applications.
- Easy internal access for quick maintenance.
- Oil lubrication within gearbox results in minimal contact between process gas and lubrication, making a clean process.
- Variable pitch screw rotors create amplified compression effect.
- Internal coating prevents excessive condensation, extending the service life of the product. Various coatings are available depending on the application.
- Large number of available accessories that improve performance and extend pump life, such as gas ballast kits and inlet purge kits.
 - 1-year factory warranty against manufacturer's defects.



NOTES

NES Company is proud to offer our NSP Series Dry Screw Vacuum Pump. These new pumps are factory performance tested and include a 1-year warranty against manufacturer's defects.

Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000



GENERAL TECHNICAL DATA

Series Name	Flow Rate [CFM]	Motor Power [HP]	Ultimate Vacuum Pressure (Torr)	Rotation Speed [RPM]	Exhaust Method	Cooling Water Flow [GPM]	Cooling Water Connection Size [Inch]
NSP-150	77	5	0.01	3600	Side	1.32-3.96	3/8 NPT
NSP-300	177	10	7.5×10^{-3}	3600	*	2.64-3.96	1/2 NPT
NSP- 400	235	15	7.5×10^{-3}	3600	*	2.64-3.96	1/2 NPT
NSP-600	353	20	0.01	3500	Bottom	3.96-5.28	1/2 NPT
NSP-800	412	20	7.5×10^{-3}	3600	*	3.96-5.28	1/2 NPT
NSP-1000	589	25	0.01	3600	Side	5.28-6.60	1/2 NPT
NSP-1500	883	50	0.05	1750	Side	7.93-10.57	1 NPT
NSP-2500	1471	75	0.05	1750	Side	13.21-14.53	1 NPT
NSP-3000	1766	75	0.05	1750	Side	10.57-13.21	1 NPT

^{*}Side and Bottom Configurations are available.

Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000



Variation Table

Variations	Particulars			
Metallurgy	Standard Cast Iron			
Discharge Position*	Side			
	Bottom			
Coating	PFA			
	PEEK			
	NIFA			
Elastomer*	Viton			
Elastomer	Viton			
	Kalrez			
Accessories*	Suction Port (304SS)			
	Suction Port (316SS)			
	Suction Port – PFA Coating			
	Vacuum Gauge & Needle Valve			
	Inlet Non-Return Valve (304SS)			
	Inlet Temporary Strainer (304SS)			
	Coupling			
	Base Plate			
	Exhaust Silencer (304SS)			
	Exhaust Silencer (316SS) Jacket-type Exhaust Silencer (304SS)			
	Jacket-type Exhaust Silencer (30433)			
	Exhaust Silencer – PFA Coating			
	Jacket-type Exhaust Silencer – PFA Coating			
	Inlet Filter Casing (304SS) Inlet Filter Element (200 mesh)			
	Seal Purge Kit			
	Gas Ballast Kit			
	Inlet Purge Kit			
	Solvent Flushing Kit Service Panel for Purge & Flushing			
	Service Failer for Furge & Flustilling			

^{*}For accessories, variations, and pricing inquiries, please contact an NES representative.

Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000



Application table

Applications

Vapor Recovery

Furnaces & Ovens

Steel Degassing

Refrigeration

Chemical Reactions

Membrane Pervaporation

Impregnation

Freeze Drying

Filtration

Evaporation

Drying

Distillation & Fractionation

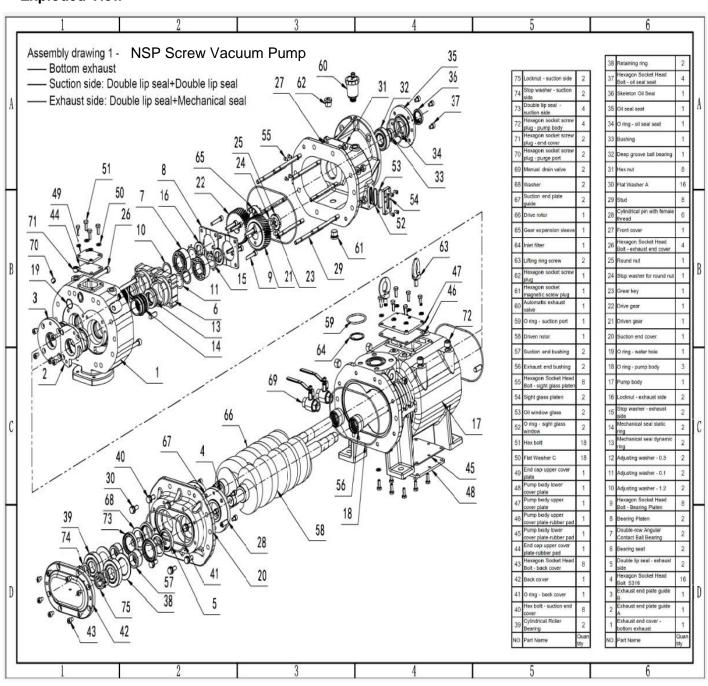
Degassing

Central Vacuum System

Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000

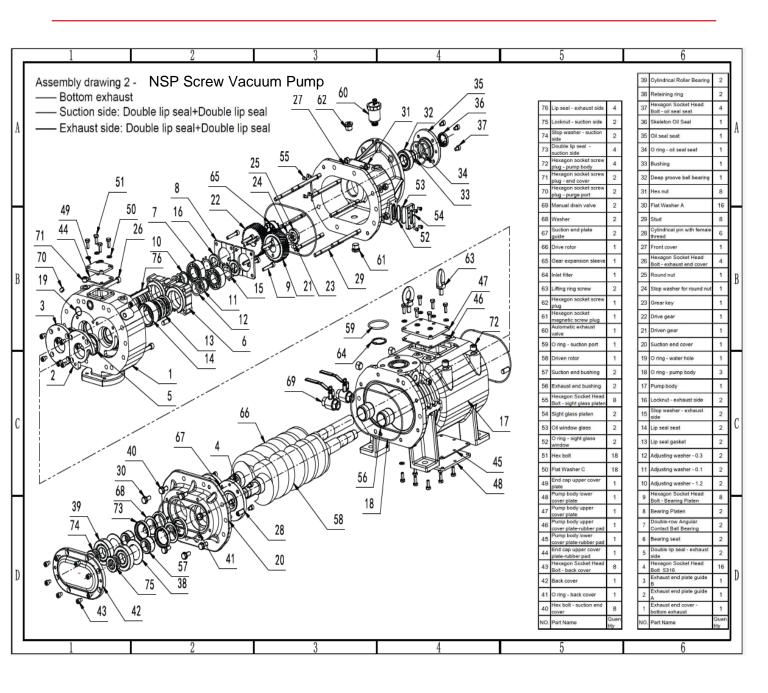


Exploded View



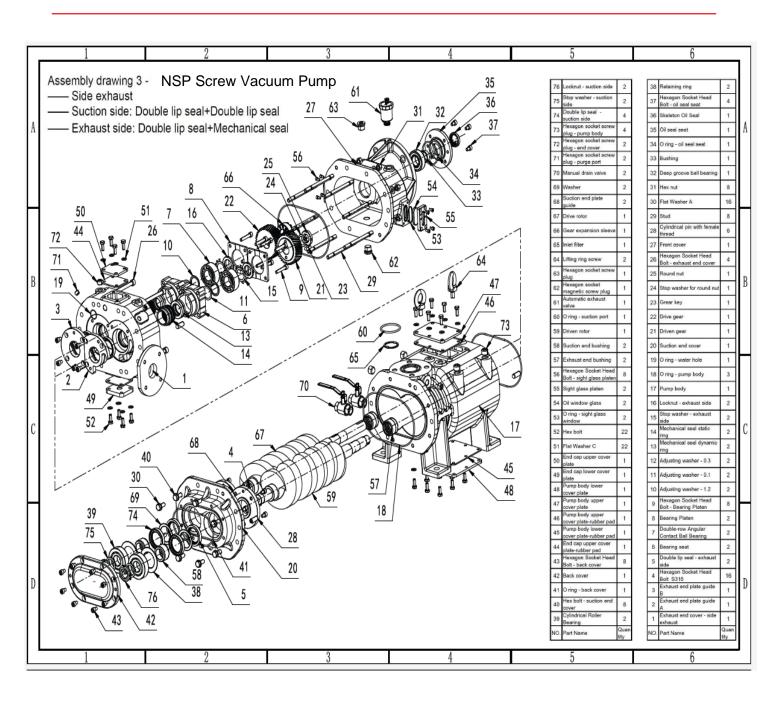
Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000





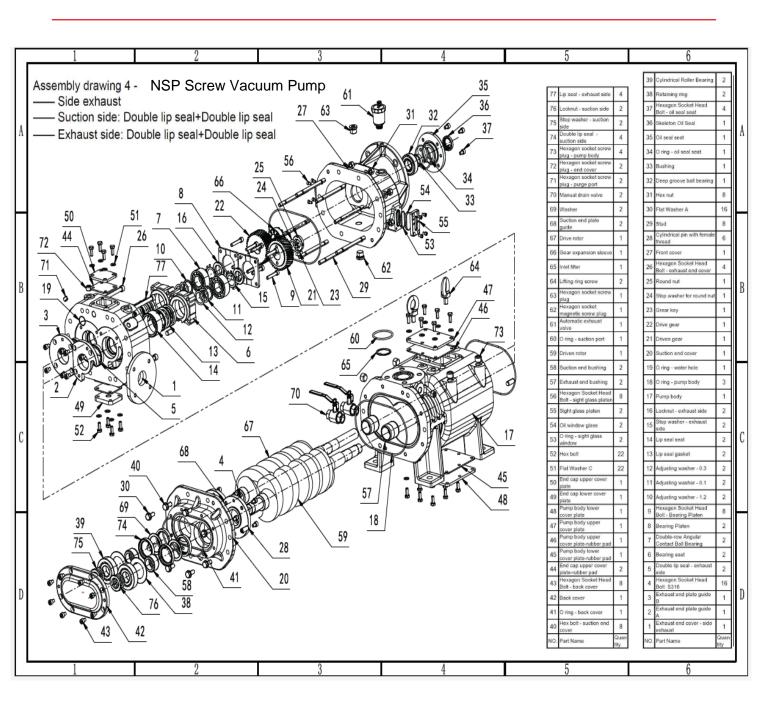
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Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000





Models: NSP-150, NSP-300, NSP-400, NSP-600, NSP-800, NSP-1000, NSP-1500, NSP-2500, NSP-3000



Bare Shaft Length, Height, Width & Weight

Series Name	Length (Inches)	Height (Inches)	Width (Inches)	Weight (Lbs.)
NSP-150	26.9	11.7	13.7	418.9
NSP-300	37.0	13.0	14.8	749.6
NSP- 400	38.5	14.4	15.7	992.1
NSP-600	46.9	17.4	41.1	1058.2
NSP-800	48.3	19.9	21.0	1323.0
NSP-1000	45.1	19.6	19.3	1499.1
NSP-1500	64.3	20.5	25.2	3527.4
NSP-2500	58.3	26.2	26.1	2976.2
NSP-3000	72.6	26.5	29.7	5511.6