



Sino-NSH Hydraulic Oil Filter System

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Sino-NSH Hydraulic Oil Filter System

NSH LV series oil purifier are suitable especially for purifying and restoring hydraulic oil, machine oil, coolant oil and various other lubrication oil. The most breakdown of machinery which has lubrication oil system results from contaminated lubrication in which has water, gas, impurities etc. LV series can rapidly remove water, gas, particulate matters and impurities from lubrication oil and improve properties of lubricating oil so as to greatly extend lifetime of machinery which has lubrication system

Edges

- ◆ Perfect capacity of removing impurities. The special filters made by NSH are made of special materials which can eliminate various impurities, water and gas effectively and rapidly.
- ◆ Automatic reverse-washing system will extend the lifetime and improve the performance of the filters.
- ◆ High performance security system including pressure protection device and automatic temperature controller makes purifier operated safely.
- ◆ Online work. Easy handling and maintenance. High efficiency and effectiveness
- ◆ Lower maintenance and replacement expenses.
- ◆ Small size, light weight, low noise. Available in mobile or stationary options.

Structure

Dehydration (Degas) System

- ◆ The horizontal vacuum vessel can enlarge evaporation area efficiently. The heater, being placed on the horizontal vacuum vessel, becomes an evaporator. Thus the evaporation area of horizontal vacuum vessel is three times more than that of the vertical vacuum vessel. This innovation can dehydrate and degas effectively and efficiently.



- ◆ The optimal structure of the dehydration (degas) system enlarges the surface area of oil exposed to the vacuum system and extends the flowing distance of the oil in the vacuum system. Thus there has sufficient time to remove the moisture and gas from the oil by vaporization.

Filtering System

- ◆ The filtering materials with variable apertures are made of specialized glass fiber. The sizes of the filtering fiber and aperture dwindle gradually in the different filtering stages. The impurities with different particulate sizes are filtered step by step. The capability of removing particulate matters and impurities is improved greatly by this method.
- ◆ The filtering system has stable and perfect filtering fineness. The filtering fineness has several grades, including 1, 2,3,4,5,6,10 μm etc. Oil $\beta_{\geq 1000}$ after filter.
- ◆ The filtering system is equipped with reverse rinse and filth device. It improves the effectiveness of filtering and extends the lifetime of filter awfully.

Electrical Apparatus controlling System

- ◆ The main components of the electrical apparatus made by Schneider, Siemens and so on ensure the safety of the controlling system.
- ◆ Having several protection systems which will avoid oil ejection, overload and over voltage etc.

Oil heating System

- ◆ The unique heater structure heats the oil uniformly.
- ◆ Oil Heater System assures less than 1.0 w/cm^2 . During the heating process, the deterioration of the oil caused by overheating is avoided.
- ◆ The oil temperature can be adjusted between 20 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$.The heater is controlled



manually or automatically. The heater will stop automatically when the oil temperature reaches a certain degree.

- ◆ Being installed with safety protection devices, the heating system is secure and reliable. The heater will stop operation automatically when the oil volume of inlet is too low to avoid the damages of the heater.

Oil-level Controlling System

- ◆ The oil-level floating ball or infrared liquid level automatic controller system are installed in the vacuum vessel to control the oil level so as to avoid the oil leaking in the operation.
- ◆ The new innovation of eliminating froth can avoid the oil ejecting and gushing during the process.

High quality components

- ◆ The main component parts of NSH products such as vacuum pump, oil pump and electric apparatus are from SIEMENS, LEYBOLD, OMRON, SCHNEIDER, HYDAC, NSH, AMICO etc. It ensures NSH products high quality and reliability.

Structure and appearance of Oil purifier

- ◆ Our products adopt ship-shape chassis-mount structure to ensure oil leak proof and protect the environment from pollution.
- ◆ The whole equipment is characterized by small size, light weight and convenient to move around.
- ◆ Various sizes and configurations(shield) available
- ◆ Available in mobile or stationary options
- ◆ Automatic vacuum oil purifier or anti-explosion vacuum oil purifier is both available



according to customers' needs.

Technical Specifications

Item	Unit	LV-30	LV-50	LV-100	LV-150	LV-200	
Flow Rate	L/H	1800	3000	6000	9000	12000	
Vacuum Range	MPa	-0.065 ~ -0.096					
Working Pressure	MPa	≤ 0.4					
Water Ratio	PPm	≤ 100					
Impurity size	μm	≤ 5					
Clearness	NAS (1638)	≤ 6					
Temperature Range	°C	40—80					
Power Supply	V	~50Hz 380V (or as needed)					
Working Noise	dB	≤ 70			≤ 75		
Heating Power	Kw	30	45	90	120	180	
Total Power	Kw	39	48	95	126	187	
Inlet (Outlet) Diameter	Mm	DN25	DN32	DN40	DN50	DN65	
Net Weight	Kg	600	900	950	1050	1200	
Size	length	Mm	1600	1700	1850	1950	2050
	width	Mm	1100	1150	1400	1500	1600
	height	Mm	1550	1600	1800	1900	2000

SINO-NSH reserves the right to change any part of this specification without notification due to improvement or any other reasons.



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