Vacuum Dehydrator SVD01

Features and Benefits

- Small, compact and easy-to-use unit with Siemens LOGO controller as well as control panel for quick use during service calls or emergencies
- Reliable and convenient for fixed and permanent use due to extensive monitoring functions
- Optional integrated heater to increase dewatering performance, especially for cold or high viscosity oils
- Optional integrated water content and particle measurement technology with continuous display of the measurements, storage of the values and control of the unit
- Very low residual water content, gas content and particle contamination result in longer oil change intervals, improved life expectancy of components, higher machine availability and as a result, a reduction in the Life Cycle Cost (LCC)

1.6 gpm
6 L/min

Description

The Schroeder Vacuum dehydrator SVD01 designed for dewatering, degassing and filtering hydraulic and lubrication fluids. It operates on the principle of vacuum dewatering to eliminate free and dissolved water as well as free and dissolved gases. By using Schroeder Dimicron filter technology which has a high contamination retention capacity and filtration efficiency, the SVD01 is extremely cost effective.

Perfect for service work thanks to its compact and mobile design. In the stationary version it provides perfect continuous protection for applications where operating fluids require optimal care, in which valuable bio-oils or fire-resistant fluids are used, or where water frequently gets into the system.

Specifications

Flow Rate at 60 Hz:	~ 1.6 gpm (~6 l/min)
Permitted Fluids**:	Fluids compatible with NBR or FKM (See fluid compatibility chart)
Sealing Material:	NBR or FKM (FPM, Viton®)
Filter Clogging Indicator:	Differential pressure switch with cut-off function when filter is clogged
Type of Vacuum Pump:	Rotary vane vacuum pump
Pump Type for Filing and Draining:	Gear pump
Operating Pressure *(outlet)*:	0 to 116 psi (0 to 8 bar)
Permitted Pressure at Suction Port (without suction hose):	-2.9 to 14.5 psi (-0.2 to 1 bar)
Permitted Pressure Viscosity Range**:	78 to 1623 SUS (15 to 350 mm2/cSt) – w/o integrated heater 78 to 2550 SUS (15 to 550 mm2/cSt) – with integrated heater
Permitted Viscosity Range for Particle Measurement:	15 to 200 mm²/s – with measuring equipment ACS, AC
Fluid Temperature Range**:	50 to 176° F (10 to 80° C)
Ambient Temperature:	32 to 104 °F (0 to 40 °C)
Storage Temperature Range**:	32 to 104 °F (0 to 40 °C)
Relative Ambient Humidity**:	Maximum 90%, non-condensing
Electrical power consumption *(without heater)* / required external fuse*:	≈ 1 kW / 16 A for circuit breakers with trip characteristics type C
Heating output (optional)	Max. 2.4 kW (depending on the nominal voltage, see Model Code)
Protection Class:	IP 54
Length of Power Cable/Plus:	10 m / CEE (depending on the nominal voltage, see Model Code)
Length of Connection Hoses:	197" (5 m) (mobile version only)
Material of Hoses:	see Model Code
Hydraulic Connections:	see table "Connection Summary"
Weight When Empty:	~26.5 lb. ≈ 120 kg
Achievable Residual Water Content:	<100 ppm — hydraulic & lubricating oils < 50 ppm — turbine oils (ISO VG 32/46) < 10 ppm — transformer oils ***

NOTES:

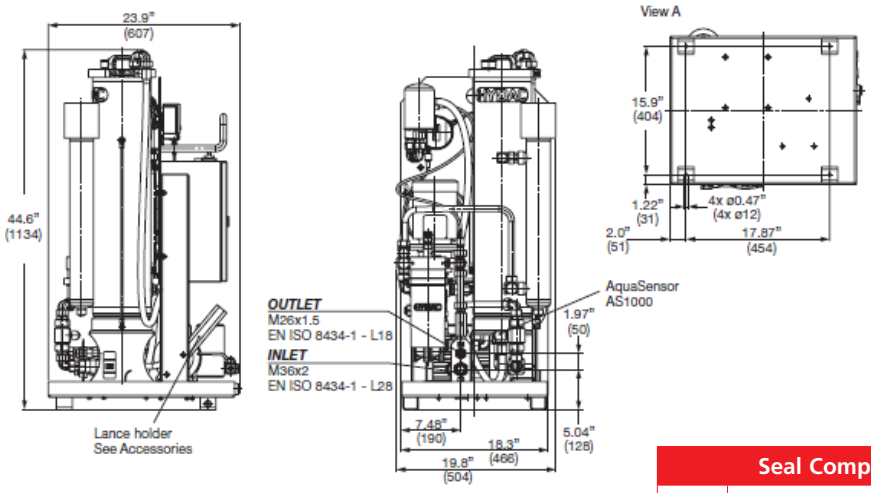
*Maximum specifications given, equipment-dependent

**For other fluids, viscosities or temperature ranges, please contact us

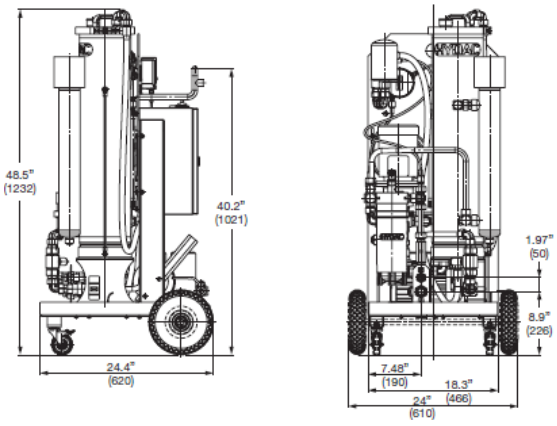
*** Units are not suitable for "Online" and "Onload" operation (transformer in operation and connected to grid).

SVD01 Vacuum Dehydrator

SVD01 Stationary



SVD01 Mobile



Seal Compatibility		
Seal Type	Fluid Type	Model Code Term (see Box 3.)
NBR	• Mineral oils to DIN 51524 • Gear oils to DIN 51517, 51524	H
FKM	• Synthetic esters (HEES) DIN 51524/2 • Vegetable oils (HETG, HTG) •HFD-R fluids (not for pure phosphate ester which require EPDM seals)	V

Dimensions in inches (millimeters).

Model Number Selection

How to Build a Valid Model Number for a Schroeder SVD01:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
SVD							

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	
SVD	01	H	S	46	24H	05	TWS	**= SVD01HS4624H05TWS**

BOX 1

Model
SVD

BOX 2

Flow Rate	
01 =	1.3 gpm at 50 Hz; ~ 1.6 gpm at 60 Hz

BOX 3

Fluid Type	
H =	Hydraulic & Synthetic Fluid
V =	HDF-R, Biodegradable

BOX 4

Mobility	
S =	Stationary
M =	Caster Base

BOX 5

Voltage	
23 =	230VAC/60 Hz1-Phase
46 =	460VAC/60 Hz/3-Phase*
235 =	230VAC/50 Hz/1-Phase

BOX 6

Power	
12X =	1000 Watts
24H =	2400 Watts w/ Heater (230V AC = 1 kW) (460V AC - 2.4 kW)

BOX 7

Media (OLF5 Element Filtration Rating
02
05
10
20

BOX 8

Option	
None =	Omit
TWS =	Water Sensor
TCMTWS =	Contamination and Water Sensor

*Supplied without connector

For replacement element part numbers, please see "Appendix Section - Replacement Elements" of this catalog.