

Features and Benefits

- Reduced oil volume up to a factor of 10
- Oil service life is increased as a result of the reduction by up to 80% in air content and reduced dirt ingress
- Higher process speeds
- Higher efficiency
- Reduced noise and wear due to less cavitation
- Ideal for humid and dusty environments
- Reduced costs due to similar size, fewer installation costs, less oil required and easier transport
- Longer component service life, less service downtime of hydraulic system components

Description

Schroeder's OXiStop is a tank solution for hydraulic systems with an integrated, hydraulically driven degassing and dewatering unit. The integrated membrane prevents direct contact with the ambient air. This means the tank can be calculated for the differential operating volume actually required, thus reducing its size. The pump flow rate is no longer important for the tank calculation.

Very low gas and water content is achieved in the fluid. Thanks to the membrane which keeps the fluid "vacuum packed", it is also possible to install the OXiStop in extremely dusty or humid environments. The OXS LID series is installed in a custom-designed tank and contains all necessary components

The OXS LID comes in seven standard sizes, with differential operating volumes ranging from 8 to 32 gallons. Contamination Sensor option available.

The size of the OXiStop (based on required differential operating volume) can be calculated from the sum of the actual volume differences of cylinders, accumulators, hoses etc. that may be present in a system. In addition, allowances must be made for the volume required for thermal expansion in the oil and for possible continuous oil losses. This volume (except for accumulator) should be doubled as a safety margin.

Rule of thumb:

Sum of total accumulator volume + 2x sum of volume difference for cylinders, hoses, temperature expansion, etc. = OXiStop differential operating volume.

Also, it is important to check if the total oil volume in the system is required to return to the tank when maintenance work is carried out.

What's Included

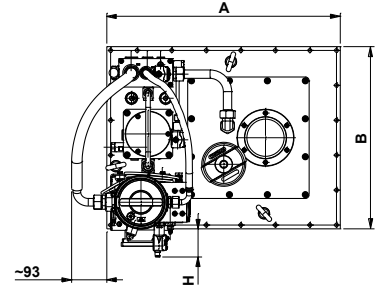
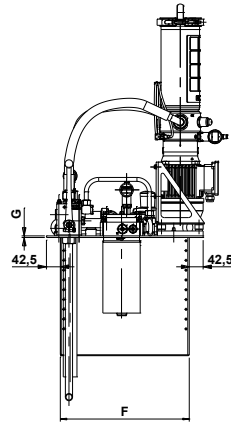
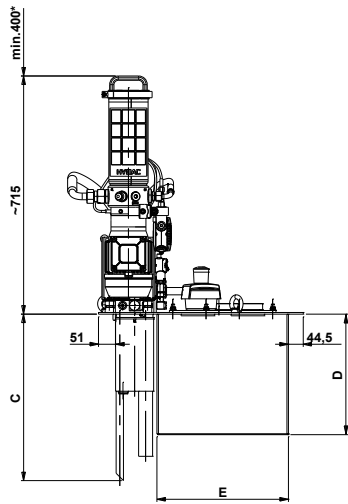
- OXiStop LID according to model code
- Membrane bag holder
- Integrated membrane
- MiniOx degassing unit
- KLC5 offline filtration unit with optional TestMate® Contamination Sensor (TCM)
- TestMate® Water Sensor (TWS-D)
- HNS electronic level sensor
- Breather filter and piping for individual components
- Gasket (interface to tank)
- Operating and maintenance instructions
- Instructions for tank installation

Specifications

	OXS 30LID	OXS 45LID	OXS 70LID	OXS 150LID	OXS 250LID	OXS 325LID	OXS 500LID
Differential Operating Volume:	8 gal.	11.8 gal.	18.5 gal.	39.5 gal.	66 gal.	86 gal.	132 gal.
Typical Degassing Rate*:	up to 2.3 gallons per hour						
Max. Viscosity:	up to 1,500 SUS						
Max. Fluid Flow Rate IN/OUT:	238 gpm						
Fluid Temperature:	50°F to 175°F (10°C to +80°C)						
Ambient Temperature**:	-4°F to 104°F (-20°C to 40°C)						
Storage Temperature:	32°F to 104°F (0°C to 40°C)						
Relative Humidity:	0 - 80%, non-condensing						
Filtration Unit:	KLC05						
Filtration Unit Filter Element:	KLE02						
Contamination Retention Capacity:	36 psi (2.5 bar)						
Pump Type:	Vane Pump						
Optimal Sampling Pump Flow Rate:	1.9 gpm (7.5 L/min)						
Filtration Unit Operating Pressure:	145 psi (10 bar)						
Clogging Indicator:	Visual Differential Pressure Indicator						
Electrical Connection:	See Model Code						
Power Consumption:	370 W						
IP Rating per DIN 40050:	IP54						
Permitted Fluids**:	Mineral Based Hydraulic Fluids						
Sealing Material**:	NBR						
Membrane Material**:	PUR						
Typical Lifetime, Membrane:	≈ 6 years with 104°F - 140°F fluid temperature ≈ 2 years with 175°F fluid temperature						

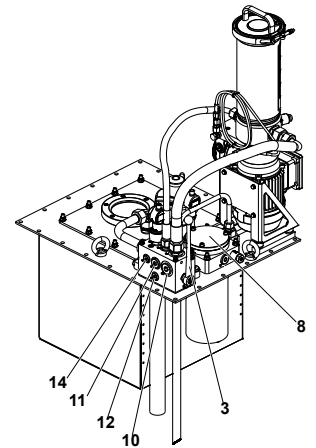
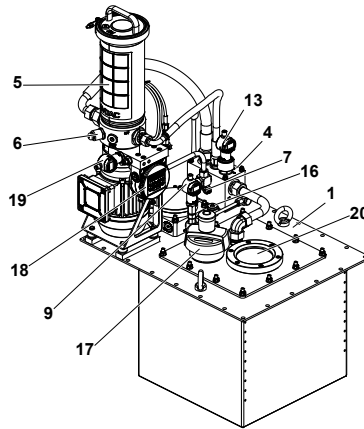
* Typical values for ISO VG 46, 40 °C when saturated with gas. The degassing rate depends on the total gas content in the oil, the oil temperature, and especially the oil viscosity. The degassing rate reduces as viscosity increases.

** Others on request

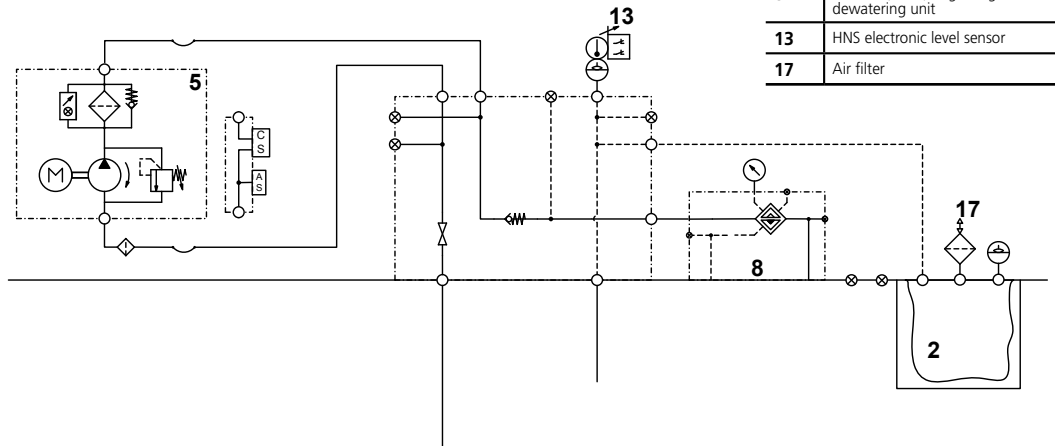


	A	B	C	D	E	F	G	H
OXS 30LID	615	480	500	362	395	395	5	74
OXS 45LID	615	480	610	472	395	395	5	74
OXS 70LID	615	480	820	682	395	395	5	74
OXS 150LID	1015	680	610	472	795	595	5	-27
OXS 250LID	1015	680	820	682	795	595	5	-27
OXS 325LID	1415	880	607	472	1195	795	8	-127
OXS 500LID	1415	880	817	682	1195	795	8	-127

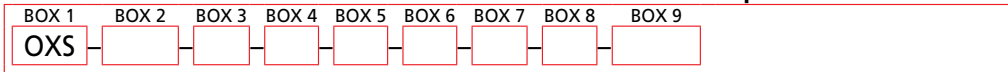
Item	Component
1	OXS LID with membrane bag holder
2	Directional control valve
3	Valve and connection block
4	KLC5 filtration unit
5	Clogging indicator on KLC5
6	Check valve
7	MOX degassing unit
8	EDS electronic pressure sensor or vacuum gauge (optional)
9	Filling port
10	Drain port
11	Pressure test point
12	HNS electronic level sensor
13	Port for visual tank fluid level indicator
14	Vent
15	Air filter
16	TCM Contamination Sensor (optional)
17	TWS-D Water Sensor (optional)
18	Sight glass



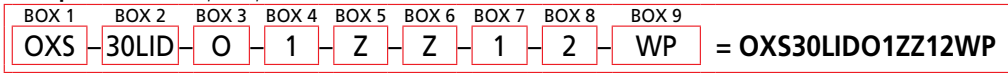
Item	Component
2	Tank membrane
5	KLC5 offline filtration unit
3	Valve and connection block
4	KLC5 offline filtration unit
8	MiniOX (MOX) degassing and dewatering unit
13	HNS electronic level sensor
17	Air filter



How to Build a Valid Model Number for a Schroeder OXiStop OXS LID Series:



Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4
Model	Size	Voltage	Sealing Material
OXS	30LID = Operating volume 8 gal. 45LID = Operating volume 11.8 gal. 70LID = Operating volume 18.5 gal. 150LID = Operating volume 39.5 gal. 250LID = Operating volume 66 gal. 325LID = Operating volume 86 gal. 500LID = Operating volume 132 gal.	O = 460 V/60Hz/3-Phase N = 400 V/50Hz/3-Phase	1 = NBR seals, PUR membrane

BOX 5	BOX 6
Return Line Filter	Plate Heat Exchanger + Pump Motor Group
Z = Omit	Z = Omit

BOX 7	BOX 8
Vacuum Pressure Monitoring, Degassing Unit	Level/Temperature Monitoring
1 = Pressure Gauge 2 = Electronic Pressure Sensor (EDS)	2 = Electronic Level Sensor with integrated temperature sensor

BOX 9
Measuring Equipment
Z = Omit WP = Water Sensor (TWS-D) + Contamination Sensor (TCM)

Model Number Selection

- CS 1000
- CS 1939
- CSI-C-11
- HY-TRAX®
- RBSA
- CSM
- FCU
- MCS
- AS
- SMU
- CTU
- EPK
- Trouble Check Plus
- HMG2500
- HMG4000
- ET-100-6
- HTB
- RFSA
- HFS-BC
- HFS-15
- MFD-BC
- MFS, MFD
- HY-TRAX® Retrofit System
- MFD-MV
- MFS-HV
- AMS, AMD
- FS
- AMFS
- KLS, KLD
- MCO
- AKS, AKD
- LSN, LSA, LSW
- X Series
- OLF Compact
- OLF
- OLF-P
- NxTM
- VEU-F
- IXU
- Triton-A
- Triton-E
- NAV
- SVD01
- SVD
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