

Oil Service Units for Wide Viscosity Ranges

FA1HV 008 / 016

Easy filling and cleaning · Compact design · Comfortable handling



Oil Service Unit FA1HV

Description

FA1HV – quick, simple and compact

With the Oil Service Unit FA1HV, hydraulic and lubricating systems can be easily filled or cleaned.

Extended viscosity range

The unit is designed to operate with a wide viscosity range. This allows, for example, the filtration of transmission fluids and high viscosity oils even at low temperatures.

Protection of components through ultra-fine filtration

The high separation efficiency of EXAPOR®MAX ultra-fine filter elements guarantees excellent cleanliness levels and therefore highest protection of components. An excellent dirt holding capacity allows economic operation of the system.

Characteristics

Nominal flow rate

FA1HV 008: 8 l/min / 2.11 gpm
FA1HV 016: 16 l/min / 4.23 gpm

Viscosity range (continuous operation)

FA1HV 008... 23050	15 - 1200 mm ² /s / 70 - 6490 SUS
FA1HV 008... 40050	15 - 2800 mm ² /s / 70 - 13070 SUS
FA1HV 016... 40050	15 - 1800 mm ² /s / 70 - 8400 SUS

Operating pressure

Max. 5 bar / 73 psi

Hydraulic fluids

Mineral oils and biodegradable fluids (HEES and HETG).
Other fluids on request.

Temperature range of fluids

0 °C ... +65 °C / +32 °F ... +149 °F (also see viscosity range)

Ambient temperature range

0 °C ... +50 °C / +32 °F ... +122 °F

Maximum suction height

1.5 m / 4.9 ft

Filter clogging indicator

Optical, differential pressure switch DG 042-01

Operating position

Vertical, motor at the bottom

Weight

approx. 20 kg / 44.1 lbs



Compact design

The compact design allows easy access to the oil tank. The FA1HV comes ready to connect, with hose packages.



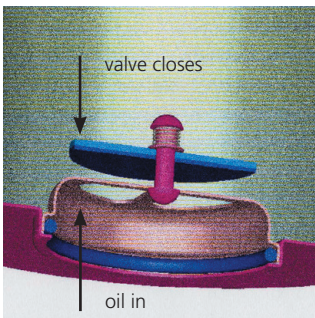
Mobile transport aid / trolley

For easy transport of the filter unit FA1HV 016, it is possible to hook a transport trolley onto the standing device. This allows effortless transport even over long distances. The transport trolley must be ordered separately - see accessories section.



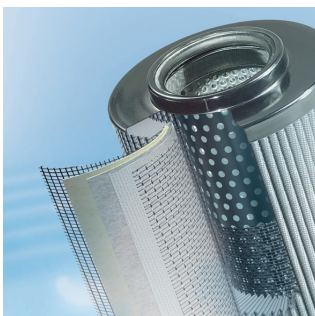
User-friendly filter element change

The filter element can be removed from the housing together with the cover. The dirt retention valve ensures that solid particle sediment is completely removed with the filter element.



Maintenance-free filter housing due to a clever filter element technique

Fluid flows through the element from the inside to the outside. The built-in dirt retention valve closes automatically when the element is removed, ensuring that all dirt is removed from the housing with the element.



Quality in detail

The EXAPOR®MAX fine element is the heart of the FA1HV. High cleanliness levels protect the hydraulic system against contamination during the oil filling process.





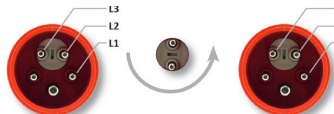
FA1HV 008 /

Type of unit	Code
Oil service unit for wide viscosity ranges	FA1HV

Nominal flow rate*	Code
8 l/min / 2.11 gpm	008

Filter element				Code
	Fineness ($\beta=200$) Dirt-holding capacity according to ISO 16889 / water capacity		Code of spare filter element	
EXAPOR®MAX 2	3 μm	490 g	V7.1220-113	V003
EXAPOR®MAX 2	5 μm	460 g	V7.1220-13	V005
EXAPOR®MAX 3	10 μm	340 g	V7.1220-06	V010
EXAPOR®AQUA	7 μm	145 g / 320 ml	Y7.1220-05	Y007
EXAPOR®AQUA	3 μm	165 g / 340 ml	Y7.1220-113	Y003

Electric motor*			Code
(other motor on request)			
Phase(s), voltage	Frequency	Power	
1~230 VAC	50/60 Hz	0.37 kW	23050
3~400/460 VAC	50/60 Hz	0.25 kW	40050

Electric plug - code and description below				
Other types - on request				
No code Default for code 23050	G	J	I6	No code Default for code 40050
220-250 VAC	220-250 VAC	220-240 VAC	200-250 VAC INDUSTRIAL	380-480 VAC INDUSTRIAL
15 A TYPE E/F (CEE7/7 Unischuko)	13 A TYPE G (BS 1363)	10 A TYPE J (T12)	Type 013-6 16A-6h 3-pins (2P+PE)	Type 715-6 16A-6h 5-pins (3P+N+PE), IEC 60309 With phase crossover
				

Optional pressure hose extension **	
Customized length of the pressure hose (maximum 5 m / 16.4 ft) Example of order P4.5 - pressure hose length 4.5 m / 14.8 ft	Px.x

Optional electric cable extension ***	
Customized length of the electric cable Example of order C8.5 - electric cable length 8.5 m / 27.8 ft equipped with electric plug	Cx.x

* Indications at 50 Hz. At 60 Hz the value increases by approx. 20%

** As standard, the unit is equipped with the following hoses

Suction hose: DN 32, length 1.5 m / 4.9 ft with suction strainer 600 μm (installed at the free end of the hose)

Pressure hose: DN 25, length 2.0 m / 6.6 ft with aluminum lance length 25 cm / 9.8 inch (installed at the free end of the hose)

*** As standard, FA1HV 008...**23050** unit is equipped with an electric cable, length 2.5 m / 8.2 ft.

As standard, FA1HV 008...**40050** unit is equipped with an electric cable, length 6.0 m / 19.7 ft.

FA1HV 016 / 40050

Type of unit	Code
Oil service unit for wide viscosity ranges	FA1HV

Nominal flow rate*	Code
16 l/min / 4.23 gpm	016

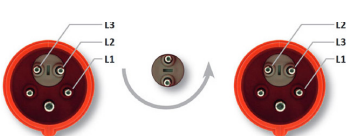
Filter element	Fineness ($\beta=200$) Dirt-holding capacity according to ISO 16889 / water capacity		Code of spare filter element	Code
EXAPOR®MAX 2	3 μm	280 g	V7.1220-113	V003
EXAPOR®MAX 2	5 μm	270 g	V7.1220-13	V005
EXAPOR®MAX 3	10 μm	190 g	V7.1220-06	V010
EXAPOR®AQUA	7 μm	85 g / 190 ml	Y7.1220-05	Y007
EXAPOR®AQUA	3 μm	105 g / 205 ml	Y7.1220-113	Y003

Electric motor*				Code
(other motor on request)				
Phase(s), voltage	Frequency	Power		
3~400/460 VAC	50/60 Hz	0.45 kW	40050	

Electric plug - code and description below
Other types - on request

No code
Default for code 40050

**380-480 VAC
INDUSTRIAL**
Type 715-6
16A-6h
5-pins (3P+N+PE), IEC 60309
With phase crossover



Optional pressure hose extension **	
Customized length of the pressure hose (maximum 5 m / 16.4 ft) Example of order P4.5 - pressure hose length 4.5 m / 14.8 ft	Px.x

Optional electric cable extension ***	
Customized length of the electric cable Example of order C8.5 - electric cable length 8.5 m / 27.8 ft equipped with electric plug	Cx.x

* Indications at 50 Hz. At 60 Hz the value increases by approx. 20%

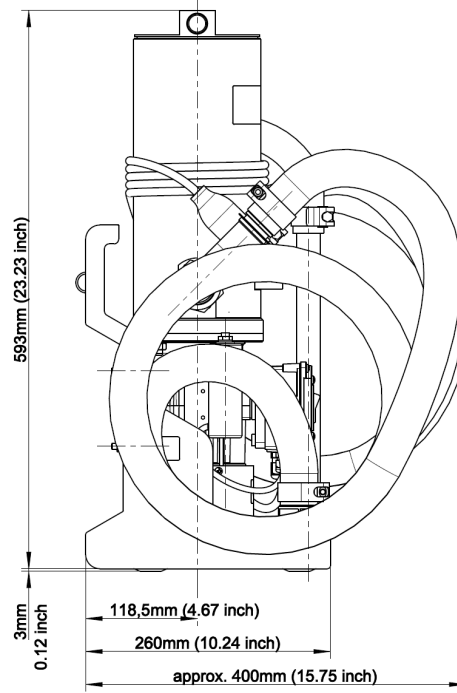
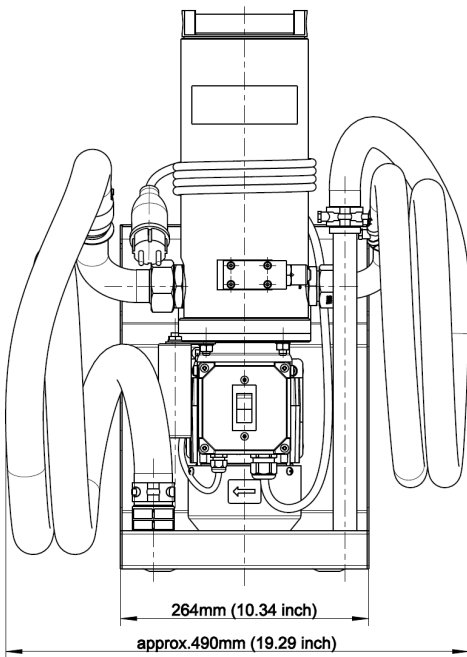
** As standard, the unit is equipped with the following hoses

Suction hose: DN 32, length 1.5 m / 4.9 ft with suction strainer 600 μm (installed at the free end of the hose)

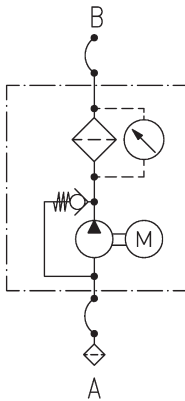
Pressure hose: DN 25, length 2.0 m / 6.6 ft with aluminum lance length 25 cm / 9.8 inch (installed at the free end of the hose)

*** As standard, the FA1HV 016 unit is equipped with an electric cable, length 6.0 m / 19.7 ft.

Dimensions

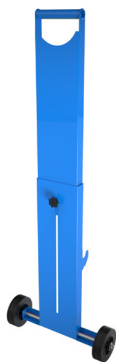


Hydraulic symbol



Accessories

Trolley for easy transportation, order code: FA-T



FA-T trolley



FA-T trolley attached to the filter unit