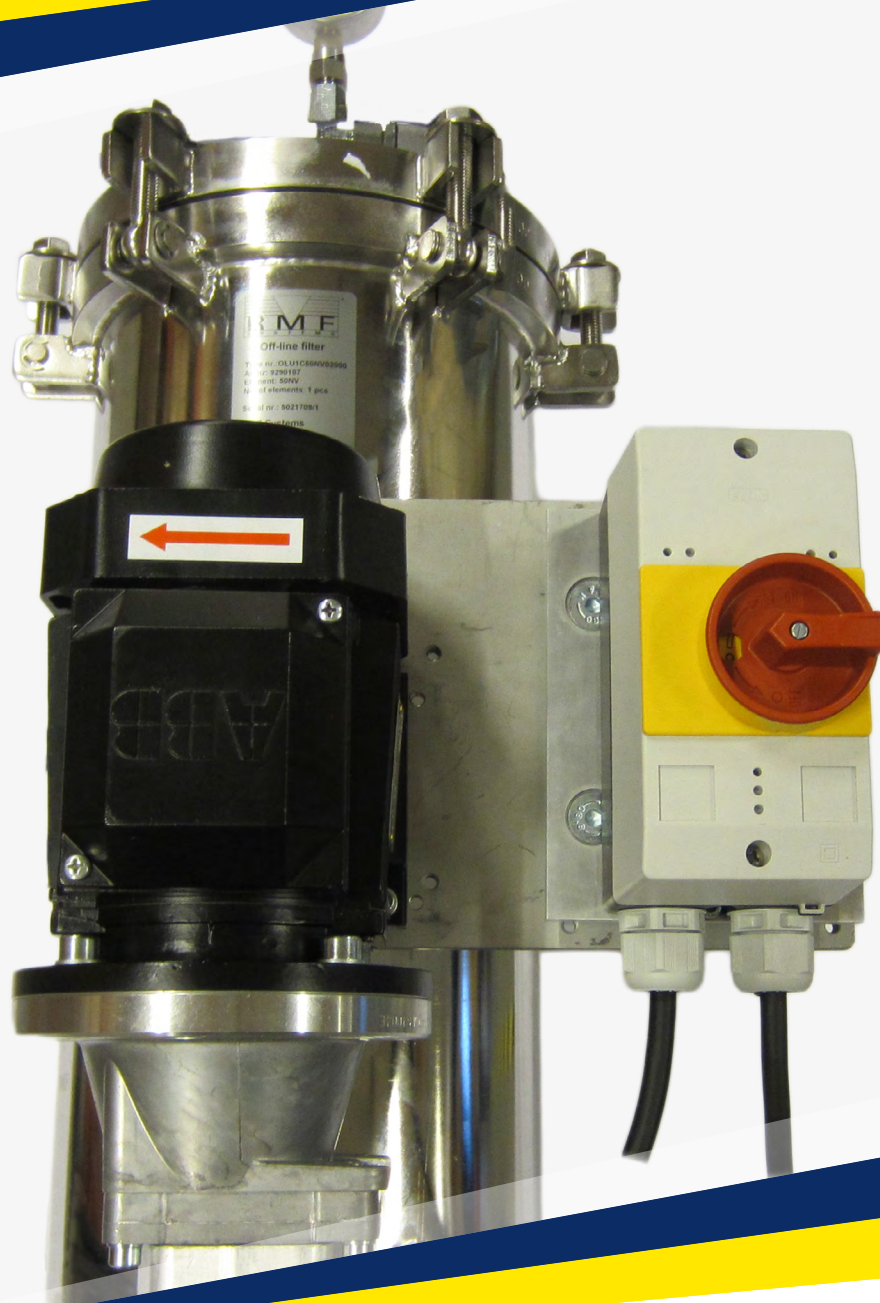


RMF SYSTEMS

PURE POWER



OLU1C & OLU1D
OFF-LINE FILTER



OLU1C & OLU1D

EXTREME DIRT HOLDING CAPACITY

THE RMF RANGE OFF LINE FILTERS WITH HIGH DIRT HOLDING CAPACITY ARE DEVELOPED FOR APPLICATIONS WITH HIGH SOLID PARTICLE AND WATER CONTAMINATION. THE STAINLESS STEEL FILTER HOUSINGS ARE AVAILABLE IN TWO LENGTHS THE 1C AND 1D . THEY CAN BE COMBINED WITH A RANGE OF PUMPS, (GEAR OR SCREW PUMP), THE DISPLACEMENT DEPENDING ON FLUID VISCOSITY IN COMBINATION WITH OPERATING TEMPERATURE AND APPLICATION. THE ELEMENTS ARE OF A MULTI SECTION DESIGN AND CAN CAPTURE MASSES OF WATER AND SOLID CONTAMINANT. THE UNITS COME EQUIPPED WITH MOUNTING BRACKETS WHICH CAN ALSO ACCOMODATE OPTIONAL ELECTRICAL CONTROL BOXES.



THE OLU1C & OLU1D

Over the years, RMF Systems have developed considerable experience in cleaning hydraulic and lubrication systems, helping to keep them clean and reduce down time. RMF Systems off line filters are easy to install and require little maintenance.

The RMF Systems range of off-line filters OLU1C and OLU1D are off-line filters that consist of a stainless steel filter housing, pump motor combination and a cellulose high dirt holding filter element. The filter element is of a multi section design, it consists of four (4) sections to allow for large dirt and water holding capacity and a wide range of fluid viscosity.

SUITED FOR YOUR NEEDS

The pumps and motors can be selected to specifically suit individual applications and conditions. The OLU1C units have a single element and the OLU1D carries two stacked elements. The elements can be easily changed. A single element can hold more than 2,6 litre of water and has a dirt holding capacity of more than 1,5 kg.

The RMF Systems OLU1C and OLU1D are extremely suited for extreme applications where large contamination levels (water and solid contaminant) can be found. The rugged design and stainless steel housing make these off-line filters suited for harsh environmental conditions such as mining, marine and off-shore industries.

WHERE CAN IT BE USED

- ▶ Steel industry
- ▶ Mining industry
- ▶ Marine industry
- ▶ Off-shore industry
- ▶ Hydraulic test benches

WHEN SHOULD IT BE USED

- ▶ Systems with excessive water content
- ▶ Systems with large solid particle contamination
- ▶ Harsh environmental conditions

WHY SHOULD IT BE USED

- ▶ Reduces water content
- ▶ Reduces solid particle contamination
- ▶ Reduces operating cost
- ▶ Reduces downtime
- ▶ Increases fluid and component life

Off-line Filter Applications

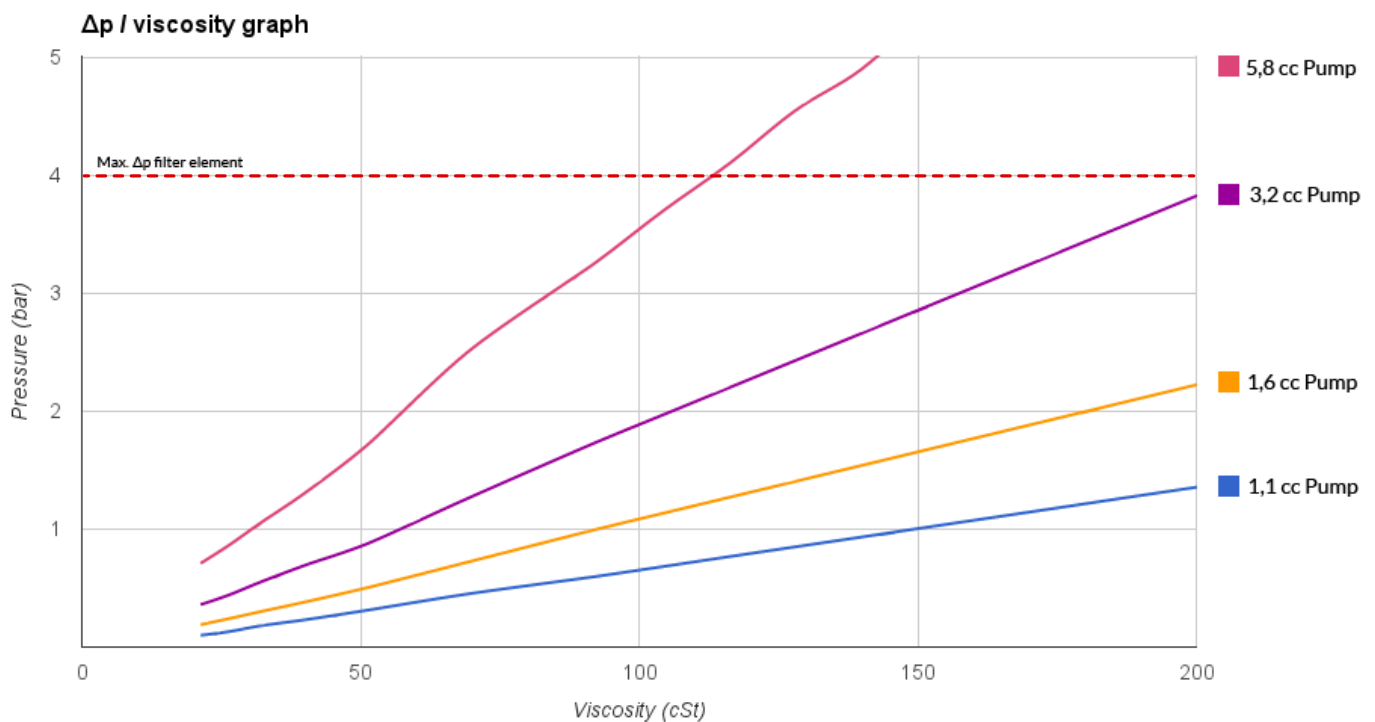
MARINE INDUSTRY, MACHINE TOOL INDUSTRY,
PAPER INDUSTRY, STEEL INDUSTRY, MINING INDUSTRY

& TUNNELING & MACHINES

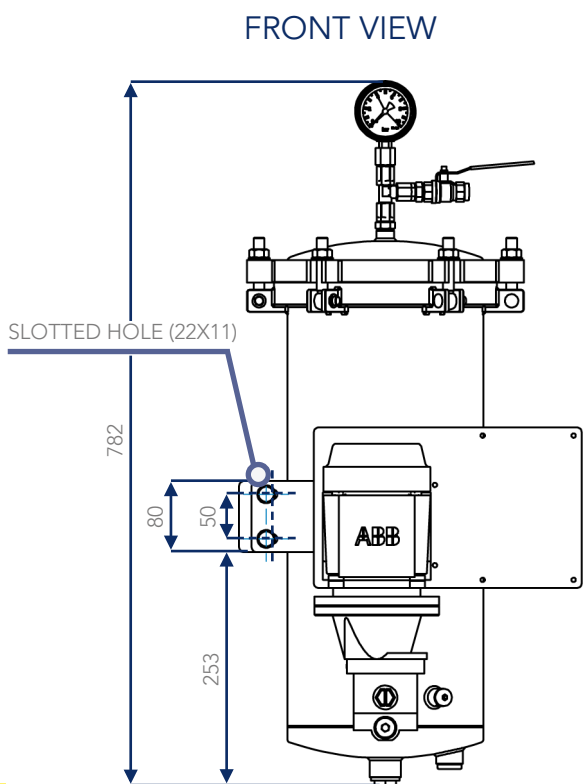
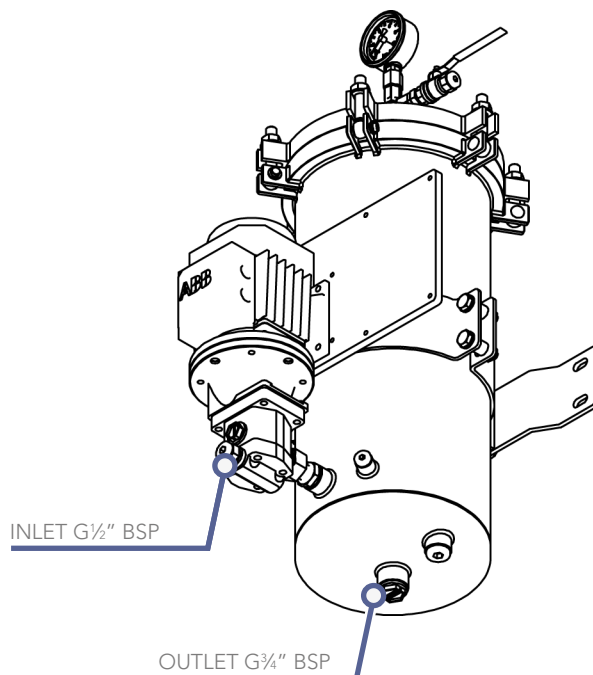
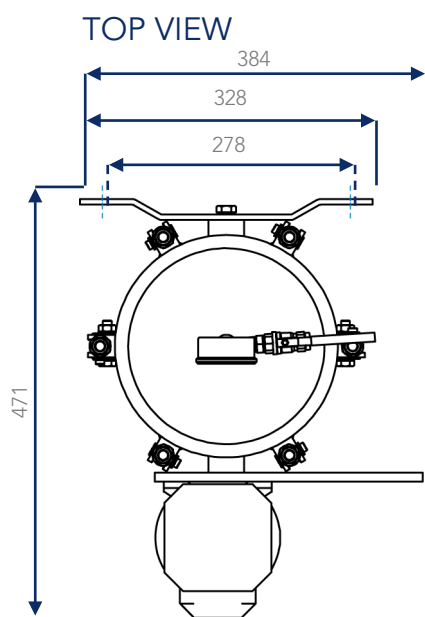


Specification

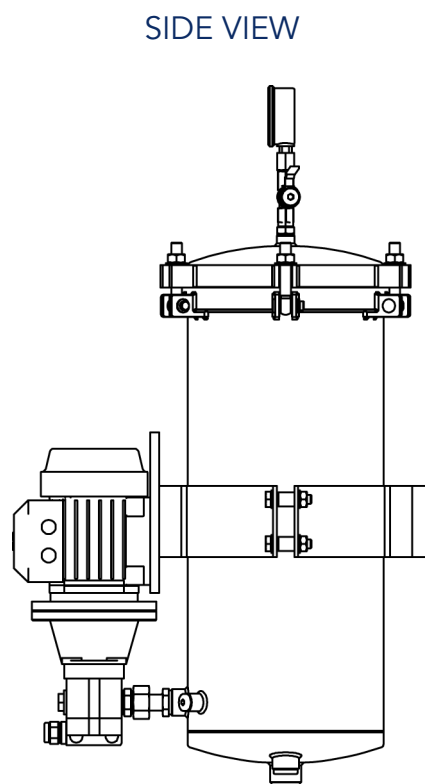
PRODUCT DETAILS	OLU1C	OLU1D
Dimensions H x W x D (mm)	782 x 384 x 471	1276 x 384 x 500
Weight	28 kg	38 kg
Power supply	230 / 400 VAC 50 Hz / 3 phase 255 / 460 VAC 60 Hz / 3 phase 230 VAC 50 Hz / 1 phase 110 VAC 50 Hz / 1 phase 110 VAC 60 Hz / 1 phase	230 / 400 VAC 50 Hz / 3 phase 255 / 460 VAC 60 Hz / 3 phase 230 VAC 50 Hz / 1 phase 110 VAC 50 Hz / 1 phase 110 VAC 60 Hz / 1 phase
Connections suction / return	½" BSP / ¾" BSP	½" BSP / ¾" BSP
Maximum return pressure	1 bar	1 bar
Flow rate	4,4 l/min - 2,2 l/min - 1,5 l/min (see viscosity graph below)	7,8 l/min - 4,4 l/min - 2,2 l/min - 1,5 l/min (see viscosity graph below)
Pump safety valve	±6 bar	±6 bar
Filter elements	Cellulose 3 micron	Cellulose 3 micron
Water absorbing element material	long fibre cellulose	long fibre cellulose
Element type	50NV	50NV (2x)
Unit seal	Viton	Viton
Pump seal	Buna N / Viton (see ordering code)	Buna N / Viton (see ordering code)
Element seal	Viton	Viton
Extra options	Electrical box on/off switch with thermal protection switch	Electrical box on/off switch with thermal protection switch



Main dimensions OLU1C

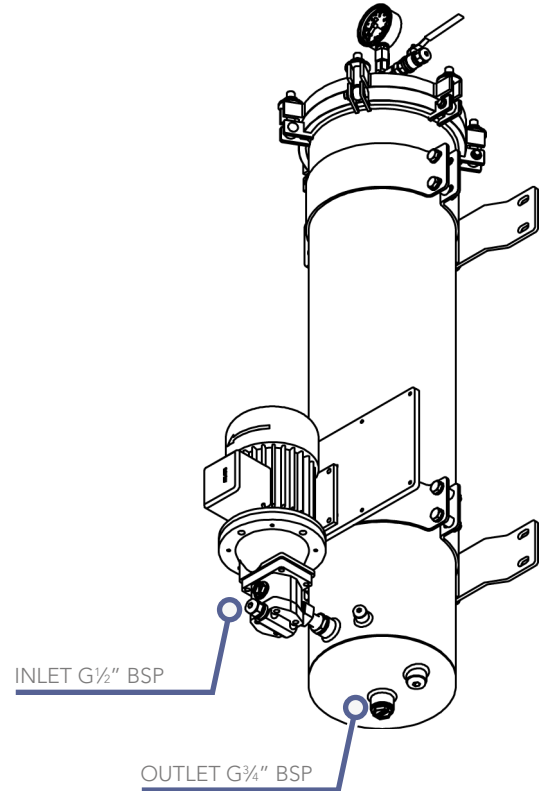
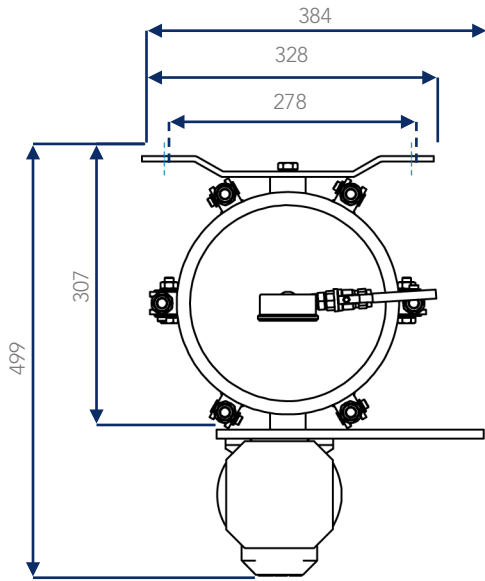


↓ 500mm
MINIMUM CLEARANCE
FOR ELEMENT REMOVAL

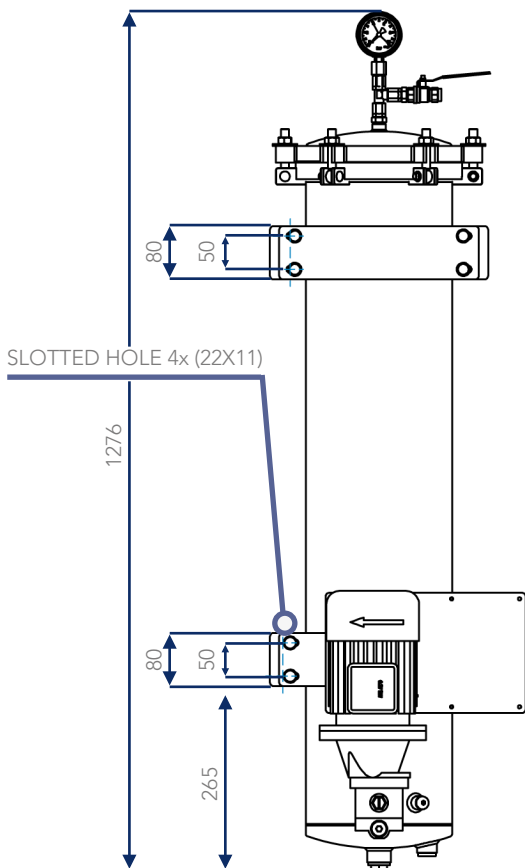


Main dimensions OLU1D

TOP VIEW

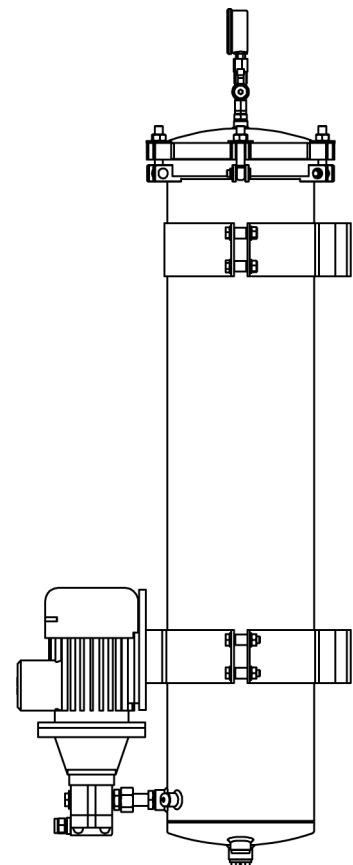


FRONT VIEW



500mm
MINIMUM CLEARANCE
FOR ELEMENT REMOVAL

SIDE VIEW



Diagrams OLU1C & OLU1D

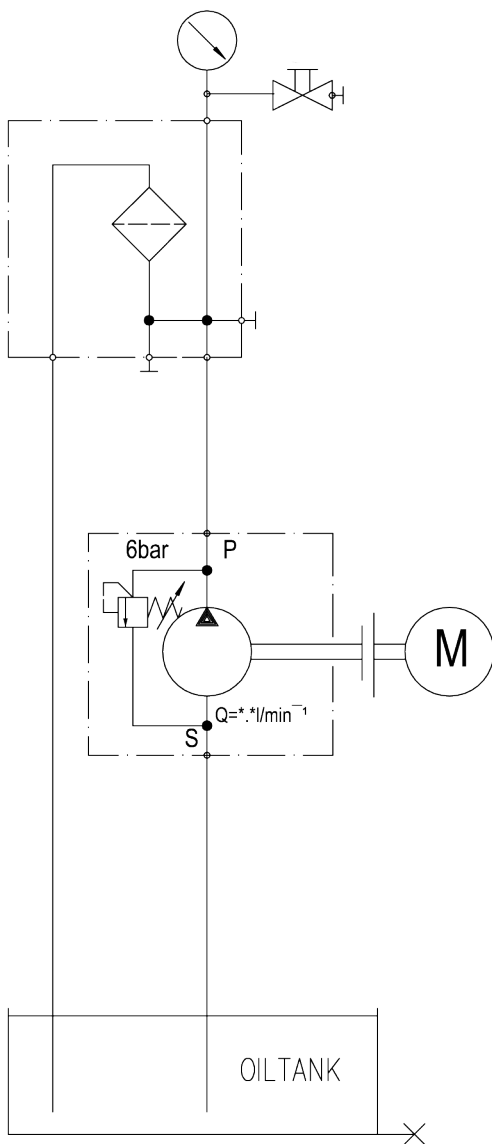


Fig. 2: Diagram OLU1C

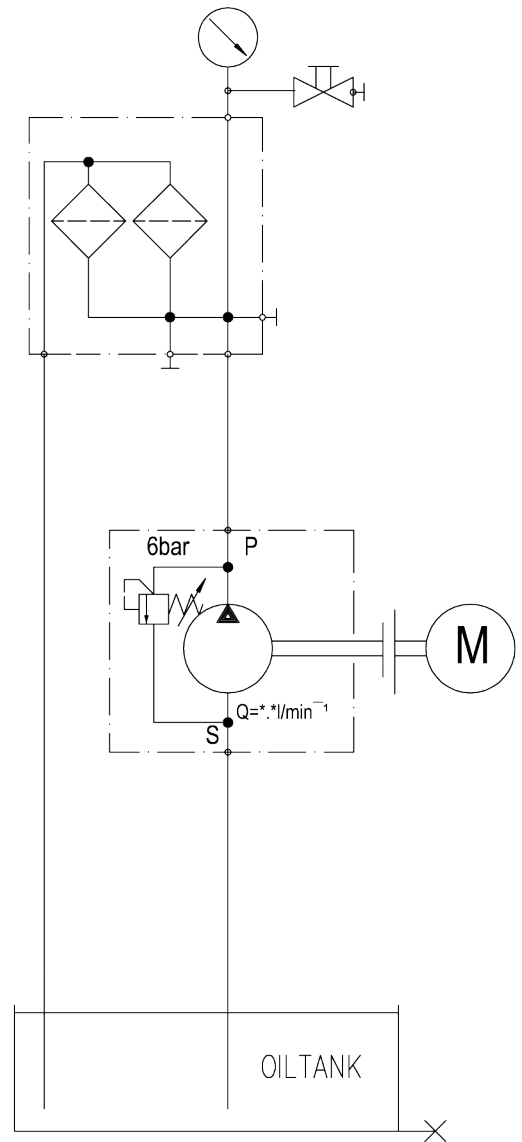


Fig. 1: Diagram OLU1D

Filter Element 50NV

TECHNICAL DATA SHEET

PRODUCT DETAILS

Material sock-outside covering	Cotton knit
Material collector-oil	Acetyl resin
Material disk-collector	Paper
Material replacement TDB seal	Viton
Material center tube	Acetyl Resin
Material seal-nonchanneling	Acetyl Resin
Material O ring-bottom-element	Viton
Material paper	NPS T291 2 PLY bleached dry crepe cellulose tissue high quality recycled
Max. oil temperature	100 °C (Consult RMF for other temperatures)
Length filter element	502 mm
Diameter filter element	191 mm
Dirt holding capacity	1560 gram ISOMTD
Water holding capacity	2660 ml
Filtration efficiency	$\beta_3 = 200$
Other flow rate	Consult RMF

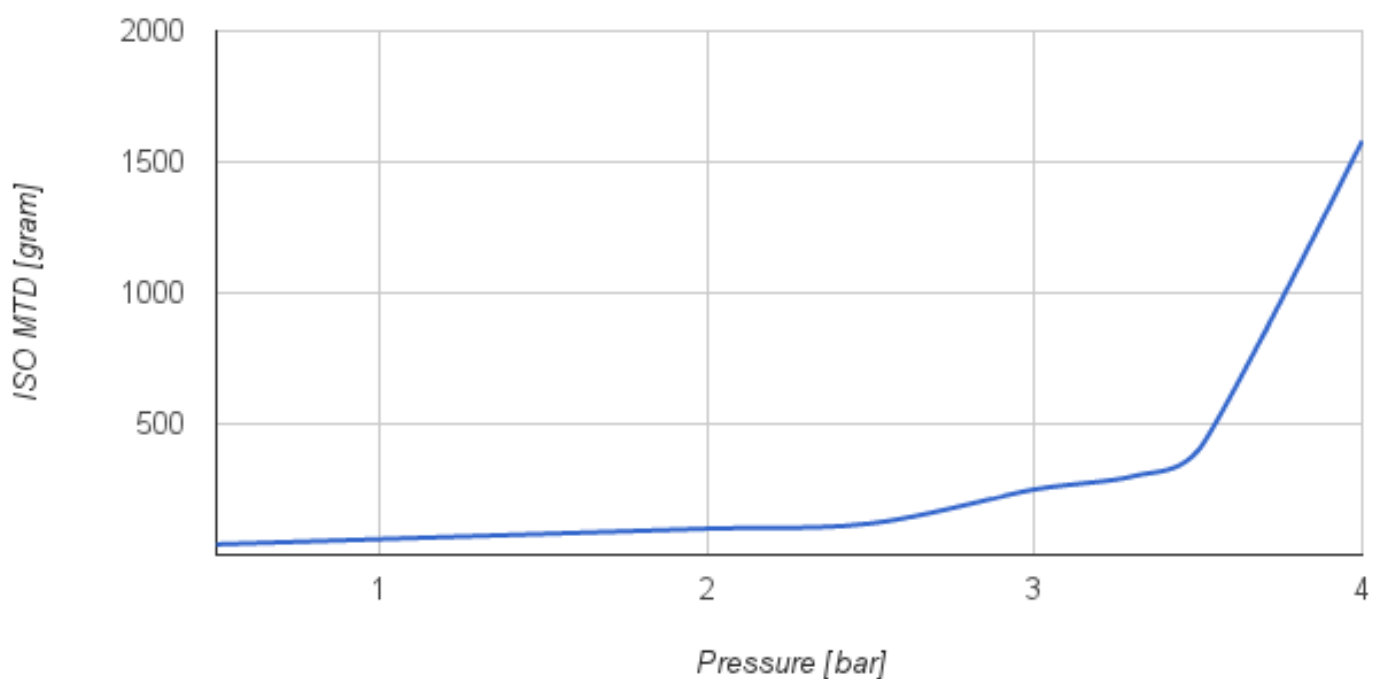
FLUID COMPATIBILITY

Mineral oil	Ok
Synthetic oil	Ok
Transformer oil	Ok

QUALITY ASSURANCE

ISO 3968	Δp test
ISO 4572	Multi Pass test

DHC Curve



Ordering code

OFF-LINE UNIT C & D SERIES

YOUR OFF-LINE FILTER ORDERING CODE

TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8	TABLE 9
OLU		50	N	V				

TABLE 1 - BASIC CONFIGURATION

CODE

Off-line unit	Industrial applications	OLU
---------------	-------------------------	-----

TABLE 2 - HOUSING CONFIGURATION

CODE

HOUSING CONFIGURATION	NUMBER OF ELEMENTS	
Single housing (single length)	1 pcs element (500 mm)	1C
Single housing (double length)	2 pcs element (500 mm)	1D
Twin housing (double length)	4 pcs element (500 mm)	2D

TABLE 3 - LENGTH ELEMENT

CODE

500 mm	50
--------	----

TABLE 4 - FILTER MATERIAL

CODE

Cellulose 3 micron	N
--------------------	---

TABLE 5 - SEAL MATERIAL

CODE

Viton (element only)*	V
-------------------------	---

For complete unit, specify separatly

TABLE 6 -E-MOTOR OPTIONS

CODE

230 / 400 VAC 50 Hz / 3 phase (standard)	0
255 / 460 VAC 60 Hz / 3 phase	
230 VAC 50 Hz / 1 phase	A
24 VDC	B
110 VAC 50 Hz / 1 phase	C
110 VAC 60 Hz / 1 phase	D
230 / 400 VAC 50 Hz, IP65 / 3 phase	E
230 VAC 60 Hz / 1 phase	F
690 VAC 50 Hz / 3 phase	H
500 VAC 50 Hz / 3 phase	N
575 VAC 60 Hz / 3 phase	M
200 / 346 VAC 50/60 Hz / 3 phase	P
Special motor, on request	S
Explosion proof, on request	X

TABLE 7 - PUMP OPTIONS		CODE
STANDARD FOR 50 HZ MOTOR		
1.6 cc/rev. group 1		00
3.2 cc/rev. group 1 (standard)		10
5.8 cc/rev. group 1		20
8.0 cc/rev. group 2		30
12.0 cc/rev. group 2 (only with 2D housing)		40
1.1 cc/rev. group 1		60
STANDARD FOR 60 HZ MOTOR		
1.1 cc/rev. group 1		01
2.7 cc/rev. group 1 (standard)		11
4.8 cc/rev. group 1		21
10 cc/rev. group 2 (only with 2D housing)		41
OTHER PUMPS		
Special pumps		S

TABLE 8 - INDICATOR		CODE
Pressure gauge (standard)		0
Additional electric indicator		1
Electric indicator only		3

TABLE 9 - EXTRA OPTIONS		CODE
No options		0
Incl. on/off and motor protection swith		4



We're Here To Help You

Coenecoop 71 | 2741 PH

Waddinxveen | The Netherlands

T (31) 182 30 28 88

F (31) 182 30 28 89

E info@rmffilter.com



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