

esko pacific sales

EXTENDED PRODUCT CATALOG

INTERACTIVE TABLE OF CONTENTS

- > FLOW METERS and ROTAMETERS
- > SEAL WATER MONITORING
- > OIL LUBRICATION MONITORING
- > OVAL GEAR METERS
- > OPTICAL SHEET and FELT GUIDE
- > GREASE LUBRICATION (ASSALUB)

FLOW METERS FOR LIQUIDS & GASES

INDUSTRIAL METERING SOLUTIONS

- FLOW METERS FOR DEMANDING APPLICATIONS
- ROBUST CONSTRUCTION IN A VARIETY OF MATERIALS
- **FUNCTIONAL OPTIONS:**
 - > CONSTANT FLOW REGULATORS
 - **MULTI-TUBE MODELS**
 - PRESSURE GAUGES
 - > CUSTOM SCALES
 - ALARM OPTIONS











PREMIUM PRODUCTS

LOW FLOWS

MEDIUM FLOWS IIIIIII

HIGH FLOWS

COST EFFECTIVE IN-LINE FLOW METERS with PVC PROCESS CONNECTIONS

- FOR APPLICATIONS IN:
 - **PROCESS INDUSTRIES**
 - > WATER TREATMENT PLANTS
 - FLOW MONITORING OF LIQUIDS AND GASES
- EASY MAINTENANCE
- SPECIAL MATERIALS FOR HIGH TEMPERATURES AND CORROSIVE CHEMICALS





ELF FLOW METER



www.eskopacific.com ELF DATASHEET

Compact flow meter for measurement of small flows of liquids or gases.

Easy to change from one flow range to another by swapping out float and scale.

APPLICATIONS

- Bubble tube level
- Density measurement
- Pressurized instrument enclosures
- Flow measurement

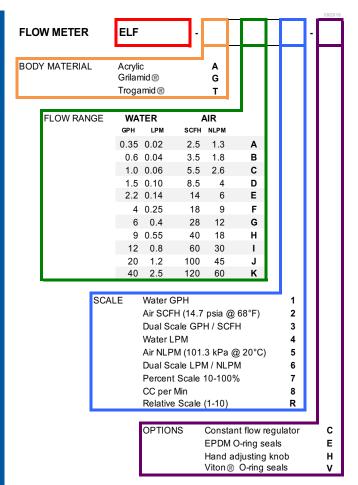
FEATURES

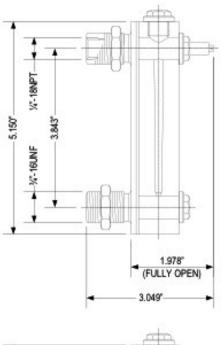
- Solid construction, reliable operation
- North American standard size parts
- Tube and O-ring material options
- Corrosion and heat resistance

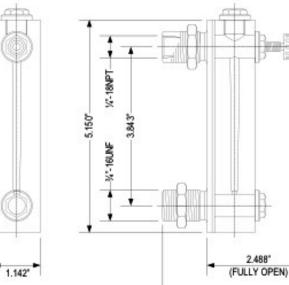
MODEL	ELF-A	ELF-T	ELF-G
BODY MATERIAL	ACRYLIC	TROGAMID®	GRILAMID®
Best for	Typical applications	Corrosion and freeze resistance	Heat resistance
Metallic parts	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum temperature	167°F / 75°C @ 290 psi	158°F / 70°C	176°F / 80°C
Maximum pressure	440 psi @ 85°F (30°C)	440 psi @ 85°F (30°C)	440 psi @ 85°F (30°C)
Connections	1/4" NPT	1/4" NPT	1/4" NPT
Weight	0.75 lb (0.34 kg)	0.60 lb (0.30 kg)	0.60 lb (0.30 kg)
Build options	Body material, O-ring mate	erial, handknob, calibration fo	or non-standard liquids or gases
Optional accessories	Pair any ELF meter with constant flow regulator model EFR3		



www.eskopacific.com ELF DATASHEET







HOW TO SPECIFY MODEL NUMBER, an EXAMPLE:

ELF meter for water flow up to 9 GPH, with handknob:

- 1. Select body material A for acrylic ELF-A
- 2. Specify range **H** up to 9 GPH **ELF-AH**
- Choose scale type 1 for water ELF-AH1
- 4. Add option **H** for handknob **ELF-AH1-H**

SPECIAL MATERIALS AND SCALES use order code ELF-X

Custom materials, scales and scale markings are available.

A unique manufacturing number will be assigned at the time of production (eg. ELF-E9345) Contact us for details.











EM FLOW METER





www.eskopacific.com EM DATASHEET

INDUSTRIAL flow meter

For reliable measurement and monitoring of medium sized flows of liquids and gases.

APPLICATIONS

- Sealing and cooling water measurement
- Lubrication oil measurement
- Mixing of gases

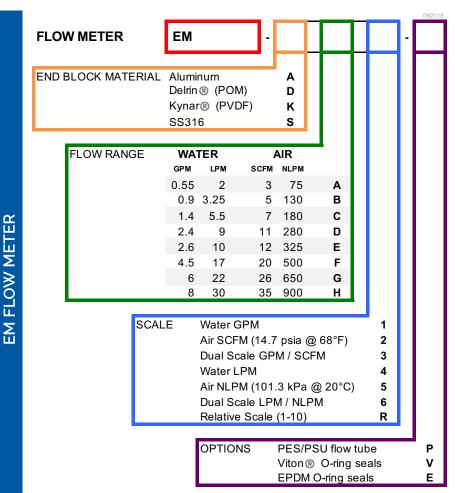
FEATURES

- Solid construction, impact resistant flow tube
- With or without flow control valve
- Alarm ready
- Easy to install & maintain
- Large selection of flow ranges

MODEL	EM-A	EM-D	EM-S
BODY MATERIAL	ALUMINUM	DELRIN® (POM)	SS316
Metering tube	Grilamid® TR 55 or Polysulphone PSU	Grilamid® TR 55 or Polysulphone PSU	Grilamid® TR 55 or Polysulphone PSU
Float material(s)	SS316 / Delrin®	SS316 / Delrin®	SS316 / Delrin®
O-ring seals	Nitrile (Viton® or EPDM optional)	Nitrile (Viton® or EPDM optional)	Nitrile (Viton® or EPDM optional)
Maximum pressure	440 psi	290 psi	440 psi
Maximum temperature Grilamid® tube Polysulphone PSU tube	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C
Connections	1/2" NPT	1/2" NPT	1/2" NPT
Weight	1.7 lb (0.75 kg)	2.1 lb (0.95 kg)	4.4 lb (2.0 kg)

Build options	Removable flow marker included, calibration for non-standard liquids & gases
Optional accessories	Inductive adjustable alarm, pressure gauge (with optional red set pointer), pair with constant flow regulator model EFR14

www.eskopacific.com **DATASHEET**



HOW TO SPECIFY MODEL NUMBER, an EXAMPLE:

EM meter for water flow, built with SS end blocks and Viton® O-ring seals:

1. Select S end block material SS316 EM-S 2. Specify flow range B 0.9 GPM **EM-SB** 3. Choose scale type 1 for water EM-SB1 Add build option V Viton® O-rings EM-SB1-V

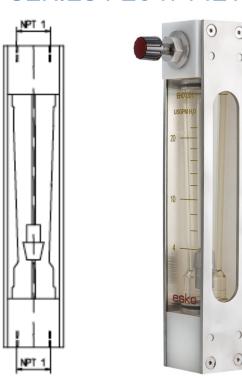
SPECIAL ORDER CONSTRUCTION use order code EM-EXXXX

A unique manufacturing number will be assigned at the time of production (eg. EMO-E7345) Contact us for details.





EH SERIES FLOW METERS



EH EHO
NO VALVE VALVE ON OUTLET



EHR
VALVE ON OUTLET and
QUICK CHANGE TUBE

www.eskopacific.com EH SERIES DATASHEET

For medium range flows of liquids and gases.

A large, clear scale ensures quick and accurate measurement reading.

APPLICATIONS

- Sealing and cooling water measurement
- Lubrication oil measurement
- Mixing of gases

FEATURES

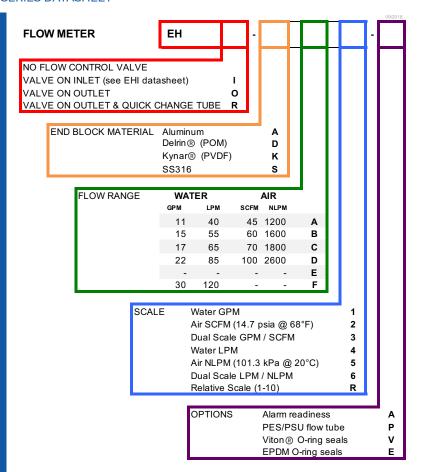
- Built-in control valve
- Sturdy construction, impact resistant tube
- Large selection of flow ranges and materials
- Alarm ready
- Easy to install, clean and maintain

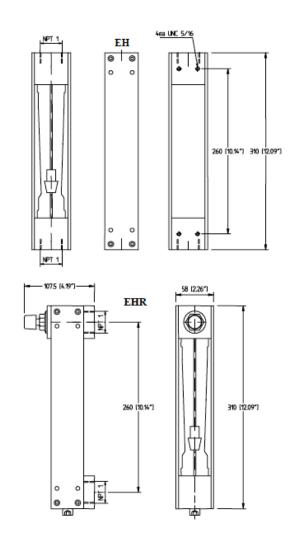
MODEL	EH-A	EH-D	EH-S
BODY MATERIAL	ALUMINUM	DELRIN®(POM)	SS316
Metering tube	Grilamid® TR 55 or Polysulphone PSU	Grilamid® TR 55 or Polysulphone PSU	Grilamid® TR 55 or Polysulphone PSU
Float material	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	440 psi	290 psi	440 psi
Maximum temperature Grilamid® tube Polysulphone PSU tube	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C
Connections	1" NPT	1" NPT	1" NPT
Weight	4.2 lb (1.9 kg)	3.1 lb (1.4 kg)	6.8 lb (3.1 kg)

Build options	Tube material, O-ring seals, threads, calibration for non-standard liquids & gases, PVDF end blocks, pressure gauge (with optional red set pointer) for EHI models
Optional accessories	Adjustable alarm sensor



www.eskopacific.com **EH SERIES DATASHEET**





HOW TO SPECIFY MODEL NUMBER, an EXAMPLE:

EH meter for air flow built with Delrin® end blocks, comes with Viton® O-rings:

1. Select end block material D for Delrin® (POM) EH-D

2. Specify flow range **D** up to 85 SCFM

3. Choose scale type 2 for air

4. Add option V for Viton® O-rings

EH-DD

EH-DD2 EH-DD2-V

SPECIAL ORDER CONSTRUCTION use order code EH-EXXXX

A unique manufacturing number will be assigned at the time of production (eg. EHR-E7345) Contact us for details.





EB FLOW METER



Variable area flow meter for large flows of water and air.

Where great mechanical strength is essential.

www.eskopacific.com

EB DATASHEET

APPLICATIONS

- Water treatment plants
- Sealing and cooling water measurement
- Flush water applications
- Lubrication oil for large gear boxes
- Compressed air measurement

FEATURES

- Solid construction, impact resistant flow tube
- Large selection of flow ranges
- Threaded or flanged connections
- Alarm capable
- Easy to install and maintain

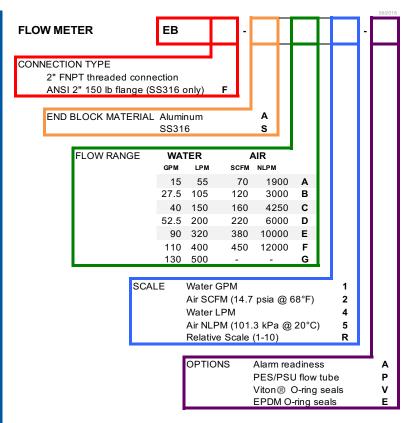
EBF-E0360

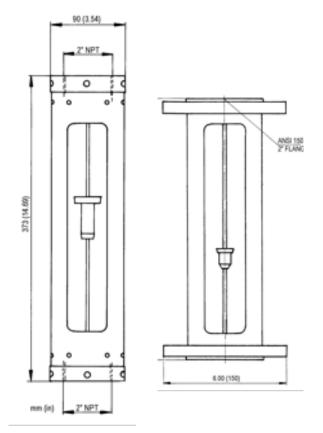
MODEL	EB-A	EB-S	EBF-S
BODY MATERIAL	ALUMINUM	SS316	SS316 FLANGE
Metering tube	Grilamid® TR 55 or PES	Grilamid® TR 55 or PES	Grilamid® TR 55 or PES
Float material	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	290 psi	290 psi	290 psi
Maximum temperature Grilamid® tube Polysulphone PSU tube	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C	176°F / 80°C 248°F / 120°C
Connections	2" NPT	2" NPT	ANSI 2" 150 lb flange
Weight	7.3 lb (3.3 kg)	9.9 lb (4.5 kg)	14.6 lb (6.6 kg)

Build options	Special materials for high temperature and corrosive media, calibration for non-standard liquids and gases
Optional accessories	Adjustable alarm sensor



www.eskopacific.com EB DATASHEET





HOW TO SPECIFY MODEL NUMBER, an EXAMPLE:

EB meter for water flow built with SS316 end blocks, comes with Viton® O-rings:

1. Select meter type **EB** for 2" FNPT connections **EB-**

2. Select end block material S for SS316 end blocks EB-S

3. Specify flow range **C** up to 40 GPM

4. Choose scale type 1 for water EB-SC1

5. Add build option **V** for Viton® O-rings **EB-SC1-V**

SPECIAL ORDER CONSTRUCTION use order code EB-EXXXX

A unique manufacturing number will be assigned at the time of production (eg. EB-E3749) Contact us for details.



EB-SC



ELC PURGE FLOW METER

www.eskopacific.com ELC DATASHEET



A new alternative for monitoring air and water purge flows or low flows of liquids or gases.

Based on the popular ELF model design.

APPLICATIONS

- Water and air purging
- Bubble tube level or density measurement
- Pressurized instrument enclosures
- Flow measurement

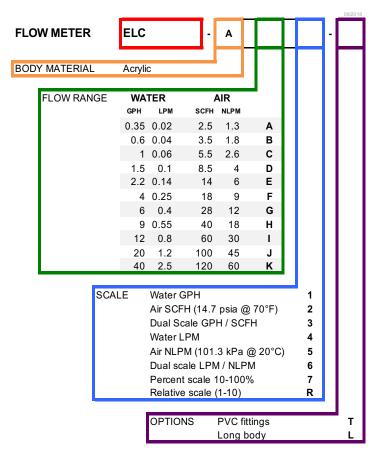
FEATURES

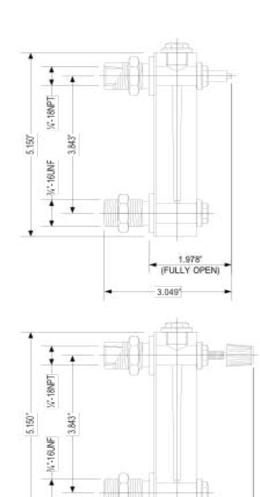
- Clear easy to read scale
- Available in selection of flow ranges
- Backout proof adjustment valve can be on inlet or outlet
- North American standard size parts

MODEL	ELC-A
BODY MATERIAL	ACRYLIC
Valve assembly	POM
O-ring seals	Nitrile (Viton® optional)
Maximum pressure	145 psi 68°F (20°C)
Maximum temperature	122°F / 50°C @ 30 psi
Fittings	Delrin® (PVC optional)
Connections	1/4" NPT
Weight	0.26 lb (0.12 kg)
Build options	A selection of flow ranges, backout proof flow adjustment valve on inlet or outlet, O-ring material, custom scales and calibration



www.eskopacific.com **ELC DATASHEET**





HOW TO SPECIFY MODEL NUMBER, an EXAMPLE:

ELC meter for water flow, with PVC fittings:

Select meter type **ELC** (acrylic tube is standard)

2. Specify flow range H up to 9 GPH water

Choose scale type 1 for water

Add build option T for PVC fittings

ELC-A

ELC-AH ELC-AH1

ELC-AH1-T

1.142"

SPECIAL ORDER CONSTRUCTION

Custom scales and scale markings are available. For custom flow meters use order code ELC-X. A unique manufacturing number will be assigned at the time of production (eg. ELC-E8845) Contact us for details.



2.488

(FULLY OPEN)

3.559



ECC FLOW METER

LPMH,0

E00-84



www.eskopacific.com ECC DATASHEET

Cost effective and reliable measuring and monitoring of medium sized flows.

For liquids and gases in process industries.

APPLICATIONS

- Process industry
- Chemical industry
- Water treatment plants
- General liquid and gas measurement

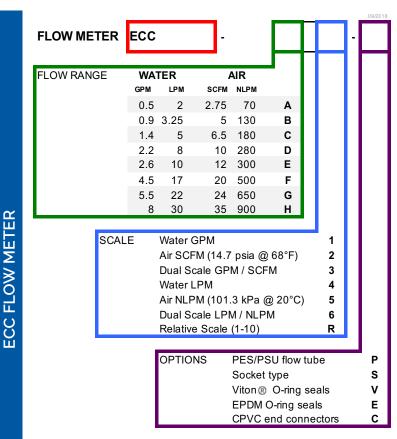
FEATURES

- Low cost
- Good corrosion resistance
- Easy maintenance and mounting
- Socket type or threaded

MODEL	ECC
METERING TUBE	GRILAMID® TR 55 or POLYSULPHONE PSU
Adapter	PVC (optional CPVC, steel)
Float material(s)	SS316 / Delrin®
O-ring seals	Nitrile (optional Viton® or EPDM)
Maximum pressure	145 psi 68°F (20°C)
Maximum temperature	122°F / 50°C @ 29 psi
Connections	1/2" NPT or socket
Weight	0.3 lb (0.12 kg)
Build options	Flow tube material, O-ring seals, threads, calibration for non-standard liquids and gases.



www.eskopacific.com **ECC DATASHEET**



HOW TO SPECIFY (For example ECC-D1-P)

- Select connection size (ECC for 1/2")
- Select flow range/scale (D1 for 2.2 GPM water)
- 3. Selection options (P for PES flow tube)

SPECIAL ORDER CONSTRUCTION

For custom flow meters use order code ECC-EXXXX.

A unique manufacturing number will be assigned at the time of production (eg. ECC-EAC34) Contact us for details.





EHC FLOW METER

www.eskopacific.com EHC DATASHEET



Reliable measuring and monitoring of high flows.

For liquids and gases in process industries.

APPLICATIONS

- Process industry
- Chemical industry
- Water treatment plants
- General liquid and gas measurement

FEATURES

- Low cost
- Good corrosion resistance
- Easy maintenance and mounting
- Socket type or threaded





MODEL	EHC
METERING TUBE	GRILAMID® TR 55 or POLYSULPHONE PSU
Adapter	PVC (Optional CPVC, Kynar® or steel)
Float	AISI 304 / 316
O-ring seals	Nitrile (optional Viton® or EPDM)
Maximum pressure	145 psi 68°F (20°C)
Maximum temperature	122°F / 50°C @ 30 psi
Connections	3/4 " NPT or socket
Weight	0.6 lb (0.28 kg)
Build options	Flow tube, O-ring seals, thread, calibration for non-standard liquids and gases

FLOW METER EHC FLOW RANGE WATER AIR GPM IPM SCFM NLPM 11 44 47.5 1200 Α 15 55 60 1700 В 16 60 65 1800 С 20 80 80 2200 D SCALE Water GPM Air SCFM (14.7 psia @ 68°F) 2 Dual Scale GPM / SCFM 3 Water LPM 4 Air NLPM (101.3 kPa @ 20°C) 5 Dual Scale LPM / NLPM 6 Relative Scale (1-10) R PES/PSU flow tube OPTIONS Ρ Socket type S Viton® O-ring seals ٧ **EPDM O-ring seals** Ε

HOW TO SPECIFY (For example EHC-A1-P)

- Select connection size (EHC for 1/2")
- Select flow range/scale (D1 for 2.2 GPM water)
- Selection options (P for PES flow tube)

SPECIAL ORDER CONSTRUCTION

For custom flow meters use order code EHC-EXXXX.

A unique manufacturing number will be assigned at the time of production (eg. EHC-EAC34) Contact us for details.

CPVC end connectors

С





EBC FLOW METER

www.eskopacific.com EBC DATASHEET



Reliable measuring and monitoring of large sized flows.

For liquids and gases in process industries.

APPLICATIONS

- Process industry
- Chemical industry
- Water treatment plants
- General liquid and gas measurement

FEATURES

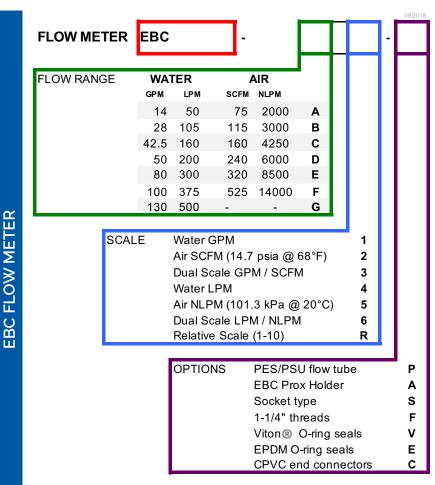
- Low cost
- Good corrosion resistance
- Easy maintenance and mounting
- Socket type or threaded





MODEL	EBC
METERING TUBE	GRILAMID® TR 55 or PES
Adapter	PVC (Optional CPVC, Kynar® or steel)
Float	AISI 304 / 316
O-ring seals	Nitrile (optional Viton® or EPDM)
Maximum pressure	145 psi 68°F (20°C)
Maximum temperature	122°F / 50°C @ 29 psi
Connections	1 1/2" NPT or socket (1 1/4" available)
Weight	2.2 lb (0.98 kg)
Build options	Flow tube, O-ring seals, threads, calibration for non-standard liquids and gases

www.eskopacific.com **EBC DATASHEET**



HOW TO SPECIFY (For example EBC-A1-P)

- Select connection size (EBC for 1/2")
- Select flow range/scale (D1 for 2.2 GPM water)
- Selection options (P for PES flow tube)

SPECIAL ORDER CONSTRUCTION

For custom flow meters use order code EBC-EXXXX.

A unique manufacturing number will be assigned at the time of production (eg. EBC-EAC34) Contact us for details.





EFR3 CONSTANT FLOW REGULATOR

www.eskopacific.com EFR3 DATASHEET



MAINTAINS FLOWS for liquid flows where supply or backpressure varies and for gas flows where backpressure varies.

For flows up to 3 liters/minute.

APPLICATIONS

- Liquid and gas purge applications
- Tank level measurement
- Designed for use with ELF and ESKO legacy L-meters

FEATURES

- Solid, heavy-duty construction
- Clearly labelled connection points
- Compatible with variable area flow meters of corresponding range
- North American part sizes

MODEL	EFR3
BODY MATERIAL	SS316
Membrane	EPDM
O-ring seals	Nitrile (optional Viton® or EPDM)
Nominal flow	36 GPH (2.3 LPM) H2O
Maximum flow	50 GPH (3 LPM) H2O
Maximum differential pressure	290 psi
Maximum static pressure	290 psi
Maximum temperature	167°F / 75°C
Connections	1/4" NPT
Weight	1.66 lb (0.75 kg)
Installation position	Vertical
Build options	Nitrile, Viton® or EPDM seals, connections
Optional accessories	Commonly paired with ELF purge flow meters

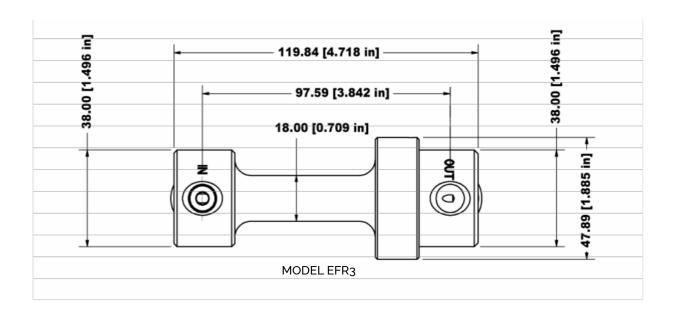


www.eskopacific.com **EFR3 DATASHEET**

CONSTANT FLOW REGULATOR

09/2018

EFR	- 🔲
EFR3 For ELF-Meters For ELF/L-Meters with back plates For L-Meters	3LF 3BP 3EK
EFR14 For EM and ESF meters, 3 mm valve For EM and ESF meters, 6 mm valve For EM and ESF meters, 9 mm valve	14/3 14/6 14/9









EFR14 CONSTANT FLOW REGULATOR

www.eskopacific.com EFR14 DATASHEET

A membrane type differential pressure controller with built-in control valve for flow rate adjustment.

For applications where supply or backpressure varies.

APPLICATIONS

- Liquid and gas purge applications
- Tank level measurement
- Designed for use with EM and ESKO legacy V-meters

FEATURES

- Solid, heavy-duty construction
- Clearly labelled connection points
- Compatible with variable area flow meters of corresponding range
- North American part sizes



MODEL	EFR14
BODY MATERIAL	SS316
Membrane	EPDM
O-ring seals	Nitrile (optional Viton® or EPDM)
Nominal flow	3.7 GPM (14 LPM) H2O
Maximum flow	5.3 GPM (20 LPM) H2O
Maximum differential pressure	175 psi (optional 290 psi)
Maximum static pressure	360 psi
Maximum temperature	194°F / 90°C
Connections	1/2" NPT
Weight	3.97 lb (1.80 kg)
Build options	Nitrile, Viton® or EPDM seals, connections

Commonly paired with EM-flow meters

Optional accessories



www.eskopacific.com EFR14 DATASHEET

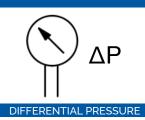
CONSTANT FLOW REGULATOR

09/2018

EFR -	
EFR3	
For ELF-Meters	3LF
For ELF/L-Meters with back plates	3BP
For L-Meters	3EK
EFR14	
For EM and ESF meters, 3 mm valve	14/3
For EM and ESF meters, 6 mm valve	14/6
For EM and ESF meters, 9 mm valve	14/9









SINGLE AND DUAL SEAL WATER METERS



FOR **DEMANDING APPLICATIONS**SUBSTITUTE **SS316 END BLOCKS**

- IDEAL FOR MECHANICAL SEAL FLOWS UP TO 8.5 GPM
- OPTIONAL PRESSURIZING VALVE FOR DUAL MECHANICAL SEAL APPLICATIONS
- ALARM READY





CONSERVE WATER

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SAVE ENERGY





SEAL PRESSURE

TO SEAL

ESF SEAL WATER MONITOR

CLEANER

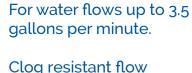
GPH

ESF

120

IN

www.eskopacific.com ESF DATASHEET



Clog resistant flow control valve and large flow channels.

APPLICATIONS

- Seal flush systems
- Single and double mechanical seals
- Gland packings
- Flow measurement

FEATURES

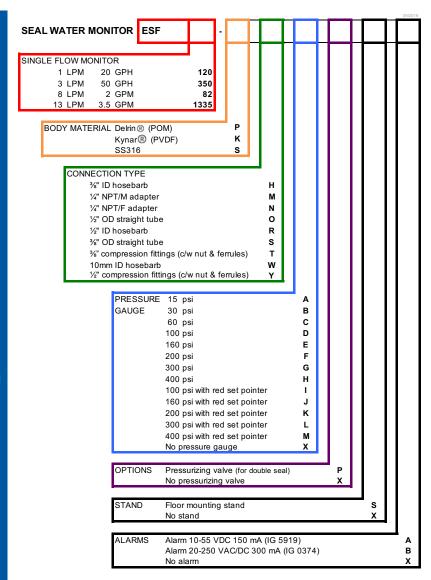
- Solid and reliable
- Extra large flow channels
- Clog resistant flow control valve
- Built-in tube cleaner
- Alarm ready
- Freeze resistant PSU tube available

MODEL	ESF-P	ESF-K	ESF-S
BODY MATERIAL	DELRIN® (POM)	KYNAR® (PVDF)	SS316
Metering tube	Polysulphone (PSU), Borosilicate glass or PES	PES, Polysulphone (PSU) or Borosilicate glass	Borosilicate glass
Metallic parts	SS316 or SS304	SS316 or SS304	SS316
O-ring seals	Viton® or EPDM	Viton® or EPDM	Viton® or EPDM
Maximum pressure	435 psi	435 psi	435 psi
Maximum temperature	212°F / 100°C (with PSU)	266°F / 130°C (with PSU)	266°F / 130°C
Connections	3/8" or 1/2" hose barbs 3/8 " OD straight tubes 3/8" compression fittings (wi 1/4" NPT male or female thre		
Weight (with pressure gauge, pressurizing valve and packaging)	3.5 lb (1.5 kg)	3.5 lb (1.5 kg)	7.0 lb (3.2 kg)

Build options	Body material, metering tube, metallic parts, O-ring seals, connections
Optional accessories	Inductive adjustable alarm sensor and holder, pressure gauge (with optional red set pointer), floor mounting stand, pressurizing valve.



www.eskopacific.com ESF DATASHEET



HOW TO SPECIFY MODEL NUMBER, an EXAMPLE: **ESF82-PHXPS**

ESF for 2 GPM with POM end blocks, 3/8" fittings and stand:

- 1. Specify flow rate up to 2 GPM
- 2. Select end block material P for Delrin® (POM)
- 3. Specify connection type **H** 3/8" ID hosebarb
- 4. No pressure gauge, insert **X** in model number
- 5. Pressurizing valve insert P
- 6. Add option **S** for floor mounting stand
- 7. No alarm, leave off trailing X at end

ESF82

ESF82-P

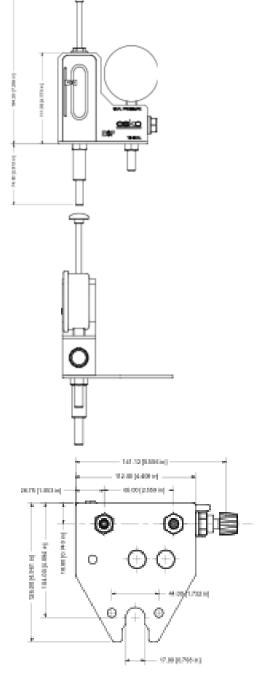
ESF82-PH

ESF82-PHX

ESF82-PHXP

ESF82-PHXPS

ESF82-PHXPS











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EDF DUAL SEAL WATER MONITOR

www.eskopacific.com EDF DATASHEET

For applications requiring uninterrupted seal water flow for cooling and lubrication.

Save resources, extend seal life.

APPLICATIONS

- Seal flush systems
- Single and double mechanical seals
- Gland packings
- Flow measurement

FEATURES

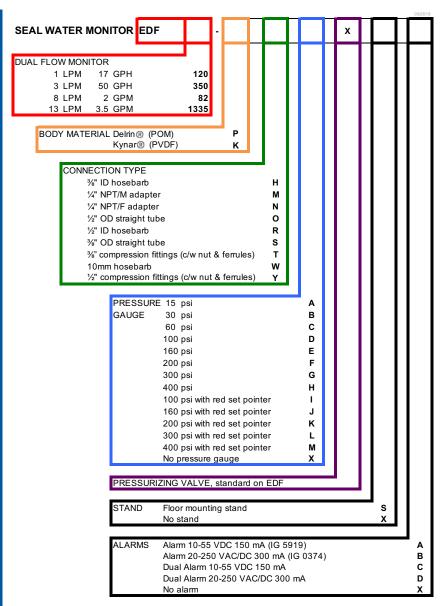
- Solid and reliable
- Extra large flow channels
- Clog resistant flow control valve
- Built-in tube cleaner
- Alarm ready
- Freeze resistant PSU tube available
- Excellent corrosion and heat resistance

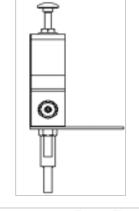


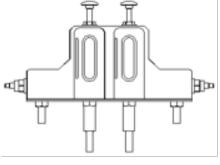
		100000000000000000000000000000000000000
MODEL	EDF-P	EDF-K
BODY MATERIAL	DELRIN® (POM)	KYNAR® (PVDF)
Metering tube	Polysulphone (PSU), Borosilicate glass or PES	PES, Polysulphone (PSU) or Borosilicate glass
Metallic parts	SS316 or SS304	SS316 or SS304
O-ring seals	Viton® or EPDM	Viton® or EPDM
Maximum pressure	435 psi	435 psi
Maximum temperature	212°F / 100°C (with PSU)	266°F / 130°C (with PSU)
Connections	3/8" or 1/2" hose barbs 3/8 " OD straight tubes 3/8" compression fittings (w 1/4" NPT male or female thre	,
Weight	5 lb (2.3 kg) (complete with	pressure gauge, pressurizing valve and packaging)
Build options	Body material, metering tub	e, metallic parts, O-ring seals, connections
Optional accessories	Inductive adjustable alarm s pointer), floor mounting stan	sensor and holder, pressure gauge (with optional red set and, pressurizing valve

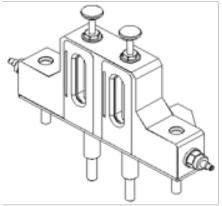


www.eskopacific.com **EDF DATASHEET**











HOW TO SPECIFY MODEL NUMBER, an EXAMPLE: EDF1335-PTXXS

EDF for 3.5 GPM with POM end blocks, 3/8" compression fittings and stand:

Specify flow rate up to 3.5 GPM Select end block material P for Delrin® (POM) 2.

Specify connection type T 3/8" compression fittings 3. No pressure gauge, insert **X** in model number

Pressurizing valve standard, insert **X** in model number **EDF1335-PTXX**

Add option **S** for floor mounting stand

No alarm, leave off trailing X at end



MOUNTING STAND

EDF1335

EDF1335-P

EDF1335-PT

EDF1335-PTX

EDF1335-PTXXS

EDF1335-PTXXS



www.eskopacific.com

BODY MATERIAL 1-800-665-3756

ESKO PACIFIC SALES



EMI SINGLE FLOW SEAL WATER METER

www.eskopacific.com EMI DATASHEET



Ideal for medium seal flush flow rates up to 8.5 GPM.

Easy installation with mounting plates and floor stands.

APPLICATIONS

 Sealing and cooling water measurement for single and double mechanical seal applications.

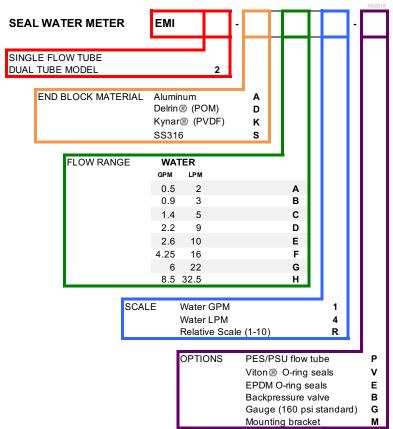
FEATURES

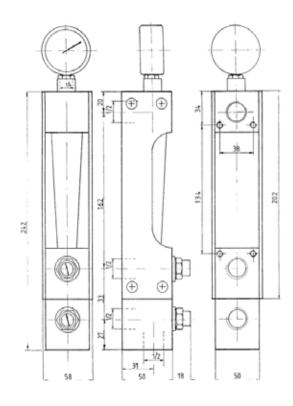
- Solid, reliable construction
- Large selection of flow ranges
- Easy to install and maintain
- Impact resistant flow tube
- Low flow alarm available

EMI-D	EMI-K	EMI-S
DELRIN® (POM)	KYNAR® (PVDF)	SS316
Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)
SS316	SS316	SS316
Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
290 psi	290 psi	440 psi
176°F / 80°C 248°F /120°C	176°F / 80°C 248°F /120°C	176°F / 80°C 248°F /120°C
1/2" NPT female threads	1/2" NPT female threads	1/2" NPT female threads
2.1 lb (0.95 kg)	2.1 lb (0.95 kg)	4.4 lb (2.0 kg)
	DELRIN® (POM) Grilamid® TR55 or Polysulphone (PSU) SS316 Nitrile (optional Viton® or EPDM) 290 psi 176°F / 80°C 248°F /120°C 1/2" NPT female threads	DELRIN® (POM) Grilamid® TR55 or Polysulphone (PSU) SS316 Nitrile (optional Viton® or EPDM) 290 psi 176°F / 80°C 248°F /120°C 1/2" NPT female threads Grilamid® TR55 or Polysulphone (PSU) SS316 Nitrile (optional Viton® or EPDM) 290 psi 176°F / 80°C 248°F /120°C 1/2" NPT female threads

Build options	Body material, metering tube, O-ring seals
Optional accessories	Inductive adjustable alarm, pressure gauge (with optional red set pointer), mounting stand, flow marker for optimal flow rate or range, pair with constant flow regulator Model EFR

www.eskopacific.com







1-800-665-3756







www.eskopacific.com



EMI2 DUAL SEAL WATER METER

www.eskopacific.com EMI2 DATASHEET





Ideal for medium seal flush flow rates up to 8.5 GPM.

Monitors both flow rate into the seal and the return (drain) flow out.

APPLICATIONS

 Sealing and cooling water measurement for single and double mechanical seal application

FEATURES

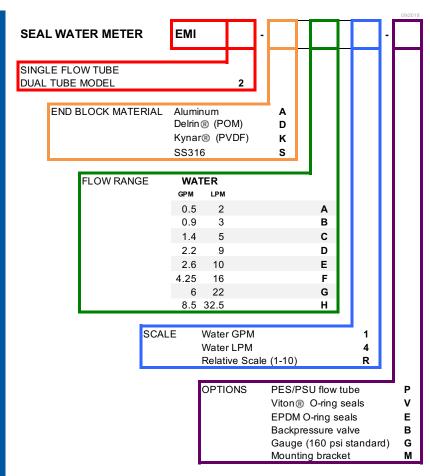
- Solid, reliable construction
- Large selection of flow ranges
- Easy to install and maintain
- Impact resistant flow tube
- Low flow alarm available

MODEL	EMI2-D	EMI2-K	EMI2-S
BODY MATERIAL	DELRIN®	KYNAR®	SS316
Metering tube	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)
Side plate	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	290 psi	290 psi	440 psi
Maximum temperature Grilamid® tube Polysulphone PSU tube	176°F / 80°C 248°F /120°C	176°F / 80°C 248°F /120°C	176°F / 80°C 248°F /120°C
Connections	1/2" NPT female threads	1/2" NPT female threads	1/2" NPT female threads
Weight	2.1 lb (0.95 kg)	2.1 lb (0.95 kg)	4.4 lb (2.0 kg)

Build options	Body material, metering tube, O-ring seals
Optional accessories	Inductive adjustable alarm, pressure gauge (with optional red set pointer), mounting stand, flow marker for optimal flow rate or range, pair with constant flow regulator Model EFR



www.eskopacific.com EMI2 DATASHEET







EHI FLOW METER



www.eskopacific.com EHI DATASHEET

Ideal for medium seal flush flow rates.

Easy installation with mounting plates and floor stands.

APPLICATIONS

- Sealing and cooling water measurement
- Lubrication oil measurement
- Mixing of gases

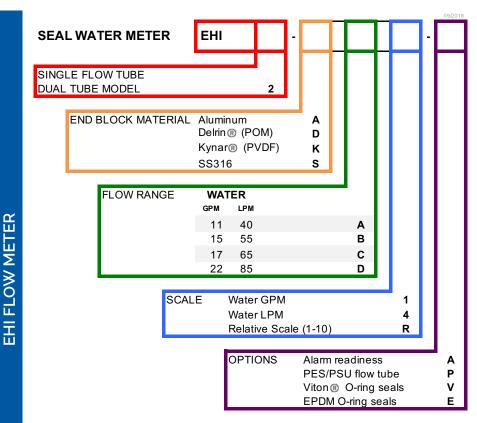
FEATURES

- Large clear scale for quick and accurate reading
- Solid, reliable construction
- Built-in flow control valve
- Large selection of flow ranges and materials
- Easy to install and maintain
- Impact resistant tube

MODEL	EHI-D	EHI-K	EHI-S
BODY MATERIAL	DELRIN®	KYNAR®	SS316
Metering tube	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)
Side plate	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	290 psi	290 psi	440 psi
Maximum temperature	176°F / 80°C	176°F / 80°C	176°F / 80°C
Connections	1" NPT	1" NPT	1" NPT
Weight	3.1 lb (1.4 kg)	3.1 lb (1.4 kg)	4.2 lb (1.9 kg)

Build options	Body material, metering tube, O-ring seals, calibration for non-standard liquids and
	gases
Optional accessories	Inductive adjustable alarm, pressure gauge (with optional red set pointer)

www.eskopacific.com **EHI DATASHEET**



HOW TO SPECIFY MODEL NUMBER, an EXAMPLE: EHI-DB1

EHI meter for water flow, no alarm option

Select meter type **EHI** (valve on inlet)

2. Specify end block material D for Delrin® (POM)

3. Specify flow range **B** up to 15 GPM water

4. Choose scale type 1 for GPM

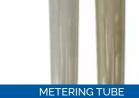
EHI-

EHI-D

EHI-DB

EHI-DB1









www.eskopacific.com



EHI2 DUAL FLOW METER

www.eskopacific.com EHI2 DATASHEET





Ideal for flows up to 30 GPM (120 liters/minute)

Substitute SS316 end blocks for demanding applications.

APPLICATIONS

- Sealing and cooling water measurement
- Lubrication oil measurement
- Mixing of gases

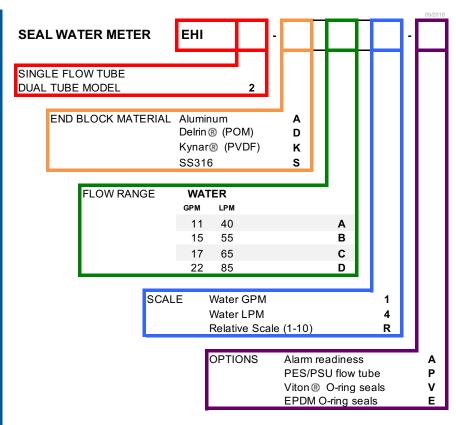
FEATURES

- Solid, reliable construction
- Built-in flow control valve
- Large selection of flow ranges and materials
- Easy to install and maintain
- Impact resistant flow tube
- Alarm ready

MODEL	EHI2-D	EHI2-K	EHI2-S
BODY MATERIAL	DELRIN® (POM)	KYNAR® (PVDF)	SS316
Metering tube	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)	Grilamid® TR55 or Polysulphone (PSU)
Side plate	SS316	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	290 psi	290 psi	440 psi
Maximum temperature with Grilamid® flow tube	176°F / 80°C	176°F / 80°C	176°F / 80°C
Connections	1" NPT	1" NPT	1" NPT
Build options	Body material, metering tube, O-ring seals, calibration for non-standard liquids and gases		
Optional accessories	Inductive adjustable alarm, pressure gauge (with optional red set pointer)		



www.eskopacific.com EHI2 DATASHEET



HOW TO SPECIFY MODEL NUMBER, an EXAMPLE: EHI2-DB1

EHI2 dual meter for water flow, no alarm option

1. Select meter type **EHI2** (valve on inlet)

2. Specify end block material D for Delrin® (POM)

3. Specify flow range **B** up to 15 GPM water

4. Choose scale type 1 for GPM

EHI2-

EHI2-D

EHI2-DB

EHI2-DB1









www.eskopacific.com



SEAL WATER PARTS & ACCESSORIES

www.eskopacific.com SEAL WATER PARTS & ACCESSORIES



A full range of parts for all seal water meters sold by ESKO, past and present.

REPLACEMENT PARTS

- O-ring kits
- Floats
- Valves
- Pressure gauges

ACCESSORIES

- Mounting brackets
- Floor stands
- Check valves
- Proximity switches

CONTACT US FOR REPLACEMENT KITS, PARTS AND ACCESSORIES

O-ring kits Viton® or EPDM

Floats Specify flow meter model number when ordering

Pressure gauges With optional red set pointer

Floor mount stand for ESF/

EDF meter

SS316 construction

Check valves construction SS316 body, POM internals

Check valves fittings: 1/2" NPT x 1/2" hosebarb

1/2" NPT x 3/8" compression fitting

3/8" NPT x 3/8" hosebarb 1/2" NPT x 3/8"hosebarb

3/8" NPT x 3/8" compression fitting

1/4" NPT x 1/4" NPT

Proximity switches:

PROX/12-18-2-DC-NO/NC 10-55 VDC, 150 ma PROX/12-18-2-AC/DC-NO 20-250 VAC/DC, 300 ma www.eskopacific.com SEAL WATER ACCESSORIES

SEAL WATER METER ACCESSORIES

STAND

09/201

STAND/ESF Floor mount stand for ESF/EDF meter

CHECK VALVES TYPE

ES-2044	1/2" NPT x 1/2" hosebarb
ES-2004	1/2" NPT x 3/8" hosebarb
ES-2074	1/2" NPT x 3/8" compression fitting
ES-2029	3/8" NPT x 3/8" hosebarb
ES-2075	3/8" NPT x 3/8" compression fitting
CMM20552	1/4" NPT x 1/4" NPT

PROXIMITY SWITCHES

MODEL

SEAL WATER ACCESSORIES

PROX/12-18-2-DC-NO/NC 10-55 VDC, 150 mA PROX/12-18-2-AC/DC-NO 20-250 VAC/DC, 300 mA











OIL LUBRICATION PRODUCTS

VARIABLE AREA FLOW METERS

- MULTI-TUBE UNITS AVAILABLE WITH MIXED FLOW RATES
- RELIABLE MEASURING AND MONITORING OF OIL FLOWS
- FOR APPLICATIONS IN:
 - > CIRCULATING OIL LUBRICATION SYSTEMS
 - INDUSTRIAL PROCESS CONTROL
- MONITORING SYSTEMS FEATURE:
 - > ALARM AMPLIFIERS
 - LARGE SELECTION OF FLOW RANGES





ELO6



MULTI-TUBE METERS

MODULAR DESIGN

LOW FLOW ALARM READY

CONTROL

ALARM

NK-2 ALARM AMPLIFIER

esko NK-2

NK ALARM AMPLIFIER MONITORS UP TO 30 FLOWS

- CREATE A MONITORING SYSTEM USING **EM-**SERIES MULTI-TUBE FLOW METERS
- LED INDICATORS ON FRONT COVER
- FOR APPLICATIONS IN:
 - LUBRICATION OIL MONITORING
 - > INDUSTRIAL FLUID FLOW MONITORING
 - PROCESS CONTROL



NK-30 ALARM AMPLIFIER MAINBOARD



ELO VARIABLE AREA MULTI-TUBE

www.eskopacific.com ELO MULTI-TUBE DATASHEET



Reliable measuring for oil flows.

Modular design allows for 1-10 tubes in a bank.

A superior flow meter at a competitive price.

APPLICATIONS

- Lubrication of bearing
- Flow measurement

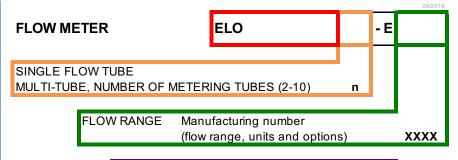
FEATURES

- Solid construction, reliable operation
- North American standard size parts
- Single inlet for easy installation
- Individual tubes can be replaced as necessary

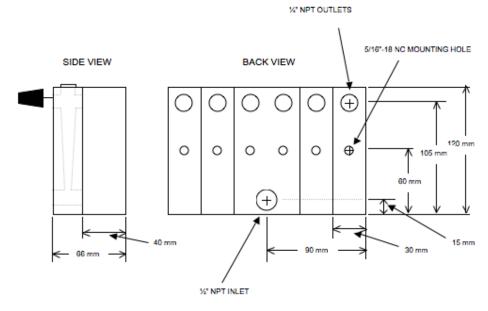
51 2011 10/1110115		
MODEL	ELO-E	ELO-E
BODY MATERIAL	ACRYLIC	TROGAMID®
Base material	Aluminum or POM	Aluminum or POM
Metallic parts	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	290 psi @ 85°F (30°C)	290 psi @ 85°F (30°C)
Maximum temperature	167°F / 75°C	158°F / 70°C
Connections inlet	1/2" NPT or 3/4" NPT	1/2" NPT or 3/4" NPT
Connections outlet	1/4" NPT or 1/2" NPT	1/4" NPT or 1/2" NPT
Build options	Flow tube material, base m	aterial, number of tubes 1-10, O-ring seals
Optional accessories	Handknob	



www.eskopacific.com ELO VARIABLE AREA MULTI-TUBE DATASHEET



OPTIONS Hand adjusting knob
Nitrile O-ring seals (standard)
Viton® O-ring seals
EPDM O-ring seals
Aluminum base blocks
POM base blocks
1/2" NPT inlet / 1/4" NPT outlets
3/4" NPT inlet / 1/2" NPT outlets
Acrylic flow tube
Trogamid® flow tube



SPECIAL ORDER CONSTRUCTION

A unique manufacturing number will be assigned at the time of production. Contact us for details and ordering information.









www.eskopacific.com



EMO MULTI-TUBE FLOW METER

www.eskopacific.com EMO MULTI-TUBE DATASHEET

For medium flows up to 2.5 GPM / 10 LPM

For standard lubricating oils

APPLICATIONS

- Circulating lubrication oil systems
- Also for water and air applications

FEATURES

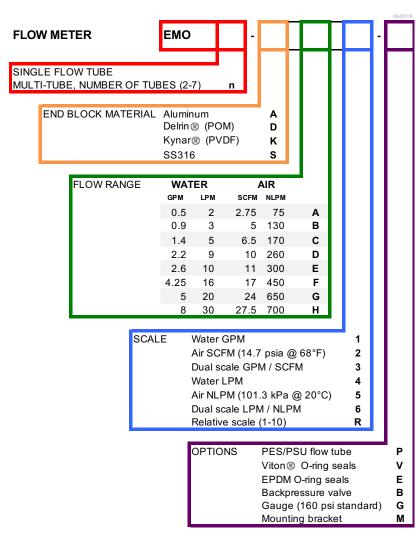
- Solid construction, reliable operation
- Single inlet reduces piping
- Large selection of flow ranges
- Easy to install, clean and maintain
- Can be fitted with low flow alarm
- Impact resistant flow tube
- Custom calibration for all operating conditions



MODEL	EMO-E	
METERING TUBE	GRILAMID® TR55	POLYSULPHONE (PSU)
Body material	Aluminum	Aluminum
Metallic parts	SS316	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)	Nitrile (optional Viton® or EPDM)
Maximum pressure	440 psi	440 psi
Maximum temperature	176°F / 80°C	248°F / 120°C
Connections inlet	3/4" NPT	3/4" NPT
Connections outlet	1/2" NPT	1/2" NPT
Weight	1.7 lbs / 0.75 kg per tube	1.7 lbs / 0.75 kg per tube
Build options	Flow tube material, custom calibration for all operating conditions, O-ring seals	
Optional accessories	Can be fitted with inductive low flow alarm, pressure gauge (with optional red set pointer), flow marker (Model EMP)	



www.eskopacific.com EMO MULTI-TUBE DATASHEET



EMO multi-tube meters can be used for standard lubricating oils and also for water and air applications.

CONSTRUCTED FOR OIL APPLICATIONS:

1-7 tubes, built with aluminum end blocks

CONSTRUCTED FOR WATER AND AIR **APPLICATIONS:**

1-3 tubes, built with SS end blocks 1-2 tubes, built with Delrin® end blocks

Contact us to discuss your monitoring needs.

HOW TO SPECIFY Model EMO, with valve on outlet, an example: EMO2-SG1-V

1. Select number of flow tubes 2 EMO2-2. Select S for SS316 end blocks EMO2-S 3. Specify flow range G for up to 5 GPM EMO2-SG 4. Choose scale type 1 for water EMO2-SG1 Add build option **V** for Viton® O-rings EMO2-SG1-V

SPECIAL ORDER CONSTRUCTION

Use code EM-EXXXX. A unique manufacturing number will be assigned at the time of production (eg. EMO-E7345) Contact us for details.



OVAL GEAR METERS

POSITIVE DISPLACEMENT METERS

- OIL LUBRICATION MONITORING
- INDUSTRIAL PROCESS CONTROL
- MAINTAINS ACCURACY REGARDLESS OF VISCOSITY OF FLOW MEDIUM



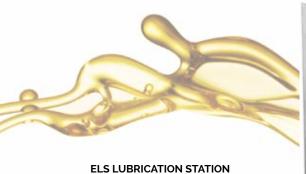
EGL MULTI-BANK OVAL GEAR METER



EGM OVAL GEAR METER

LUBRICATION MONITORING SYSTEMS

ELP LUBE PANEL







CUSTOM PANELS WITH TOUCH SCREEN INTERFACE

- OIL LUBRICATION MONITORING
- COMBINE AN ELS MONITORING SYSTEM WITH EGL OVAL GEAR METERS ON A STAINLESS STEEL PANEL OR ENCLOSURE
- USER-FRIENDLY TOUCH SCREEN INTERFACE



EGL OVAL GEAR METER

www.eskopacific.com EGL OVAL GEAR METER DATASHEET



Maintains accuracy regardless of viscosity of flow medium

Up to 12 meters on manifold

APPLICATIONS

- Lubrication oil monitoring
- Industrial fluid flow monitoring
- Process control

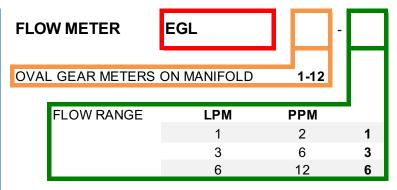
FEATURES

- High visibility of oil flow indication through robust transparent cover
- 1-12 meters on manifold
- Insensitive to viscosity variation
- Large viscosity range (30-1000 cSt)
- Pulse output
- Solid construction

MODEL	EGL CONTRACTOR OF THE CONTRACT
FLOW RATE	1,3 or 6 liters/minute (2, 6 or 12 pints/minute)
Base and metering blocks	Alumimum
Oval gears	Grilamid®
Gear covers	Trogamid®
Valve spindles	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)
Oil filtering	10-15 micron recommended
Maximum pressure	10 bar @ 80°C / 145 psi @ 176°F
Connections	Inlet 1" NPTF Outlets 1/2" NPT female threads
Build options	O-ring seals, connections, number of meters on manifold



www.eskopacific.com EGL DATASHEET



Lubrication systems incorporating custom numbers of meters, various combinations of sizes, and configurations are available.

Pair with **ELP** Lube Panel Systems and **ELS** Lubrication Station:





Contact us to discuss your monitoring needs.











EGM LARGE FLOW OVAL GEAR METER

www.eskopacific.com EGM DATASHEET



Maintains accuracy regardless of viscosity of flow medium

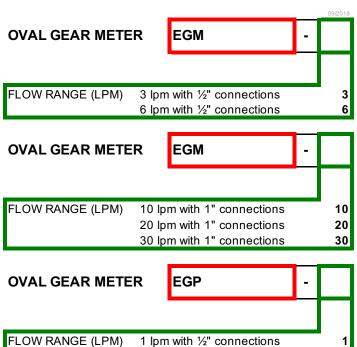
APPLICATIONS

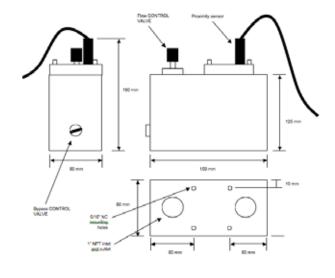
- Lubrication oil monitoring
- Industrial fluid flow monitoring
- Process control

FEATURES

- High visibility of oil flow indication through robust transparent cover
- Insensitive to viscosity variation
- Large viscosity range (30-1000 cSt)
- Pulse output
- Solid construction

MODEL	EGM
FLOW RATE	10, 20, 30, 60 or 100 liters / minute (20, 40, 60, 120 or 200 pints / minute)
Base & metering blocks	Aluminum
Oval gears	Brass
Gear covers	Trogamid®
Valve spindles	SS316
O-ring seals	Nitrile (optional Viton® or EPDM)
Maximum pressure	10 bar @ 80°C / 145 psi @ 176°F
Maximum temperature	80°C / 176°F
Connections	1" NPTF
Build options	O-ring seals, connections
Optional accessories	By-pass valve





Lubrication systems incorporating custom numbers of meters, various combinations of sizes, and configurations are available.

Pair with **ELP** Lube Panel Systems and **ELS** Lubrication Station:

3 lpm with ½" connections 6 lpm with ½" connections





Contact us to discuss your monitoring needs.











NK ALARM AMPLIFIER

www.eskopacific.com NK DATASHEET



- Create a monitoring system using Model EM multi-tube flow meters
- Lubrication oil monitoring
- Industrial fluid flow monitoring
- Process control

FEATURES

- Connections for up to 30 sensors
- Alarm indicator LED on front cover
- SPDT potential free contact
- Single output





MODEL	NK ALARM AMPLIFIER
SUPPLY	110 VAC or 220 VAC
Inputs	Inductive proximity sensors
Outputs	10A 250 VAC 10A @ 24 VDC 1/4 HP @ 120 VAC
Protection	IP 54
Local indicators	Green: Power ON Red: ALARM
Build options	Supply voltage, number of inputs
Optional accessories	Connect up to 30 alarm sensors, custom enclosure, stand-alone or interlock operation

NK ALARM AMPLIFIER

NK		-		I	
INPUTS	1 - 2 inputs 1 - 6 inputs 1 - 12 inputs 1 - 20 inputs 1 - 30 inputs		2 6 12 20 30		
SUPPLY VOLTAGE	110 VAC 220 VAC				110 220





ELS OIL FLOW MONITORING

www.eskopacific.com ELS DATASHEET

LUBRICATION STATION

For remote monitoring in demanding paper industry applications.

APPLICATIONS

- Lubrication oil monitoring
- Industrial fluid flow monitoring
- Process control

FEATURES

- Monitors up to 64 oval gear meters
- Highly visible color touch screen display
- Easy to use touch screen for selecting user limits
- Robust stainless steel cabinet
- Designed for demanding paper industry applications
- Remote monitoring available to PC, DCS or PLC



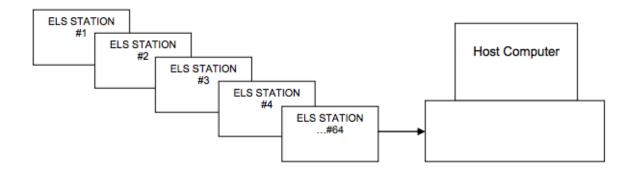


MODEL	ELS
PULSE INPUTS	64 max; open collector proximity sensors
Serial port	Selectable RS-422/495 or RS-232
Alarm outputs	8 potential free gold-plated dry contacts
Supply voltage	110 VAC
Display	5.5" color touchscreen (320 x 240 resolution)
Operating temperature	+50 +120°F (+10 50°C)
Maximum temperature	80°C / 176°F
Relative humidity	2080%
Maximum vibration	$< \pm 20 \text{ m/s}^2 < 2 \text{ g}$
Protection	IP 65
Dimensions/weight	18" width x 15" height x 5" depth, approx 11 lbs (5 kg)
Build options	Analog input, serial port, alarm outputs, supply voltage



www.eskopacific.com ELS DATASHEET

- Up to 64 stations can be connected to the host computer, making the maximum system capacity over 4000 flow monitoring points.
- The ESKO LUBE MONITORING software in the HOST COMPUTER stores the flow values for all points for all time.
- Historical trending of ALL flow points set limits is available.







1-800-665-3756



ELP LUBE PANEL SYSTEMS

www.eskopacific.com ELP DATASHEET

Complete monitoring system custom built to meet your requirements.

APPLICATIONS

- Combines an ELS monitoring system with EGL oval gears on a SS panel or enclosure
- Lubrication oil monitoring
- Industrial fluid flow monitoring
- Process control

FEATURES

- Color touchscreen for setting alarm points
- Single inlet manifold for easy installation
- Allows for up to 64 points to be monitored
- Robust transparent meter covers provide highly visible oil flow indication





SPECIFICATIONS

MODEL ELP

Build options Custom built to meet your requirements

Optional accessories Pair with ELS monitoring system and EGL oval gear meters



CUSTOM BUILT



WITH ELS ELECTRONICS



EGL OVAL GEAR METER



EGM OVAL GEAR METER

SHEET BREAK & FELT GUIDE SYSTEMS

ESTRAC 1000 SHEET BREAK DETECTOR





- OPTICAL NON-CONTACT SHEET BREAK SYSTEMS FOR RELIABLE BREAK DETECTION
- RUGGED INDUSTRIAL DESIGN
- BASED ON MODULATED INFRARED LIGHT
- CONTINUOUS AND PRECISE MONITORING



FELT GUIDE SYSTEMS

ESTRAC 2000 NON-CONTACT GUIDE SYSTEM



- INCREASES FABRIC LIFE
- ELIMINATES WEAR AND TEAR OF EDGE
- IMPROVES RUN-TIME, REDUCES
 UNSCHEDULED DOWNTIME
- OUTPUT CAN BE MONITORED IN CONTROL ROOM





ESTRAC 1000

INFRARED SHEET BREAK DETECTOR



www.eskopacific.com ESTRAC 1000 DATASHEET

COMPLETE TURN-KEY SOLUTION

No missed breaks

APPLICATIONS

- The detector can be installed as a stand-alone system or it can be connected to a machine control system to give continuous trending of break data and possible head contamination.
- The control device is equipped with a mA output along with alarm relay contacts.

FEATURES

- One-sided detection with a short detection distance of 4-6"
- Small sensor head for tight installations,
- No electrical components in process area.
- Fast measuring frequency 5kHz based on IR reflection.

MODEL	ESTRAC 1000	
MATERIAL	SS316	
Measurement type	Modulated infrared light, frequency 5 Hz	
Detector distance	4 inches to 6 inches from sheet surface	
Maximum cable length	31 feet	
Power supply	24 VDC	
Output signal	4 20 mA DC / 1-10 VDC, discrete relay outputs of 120 VAC, 24 VDC, dry contact	
Maximum operating temperature	Measuring head: 320°F (160°C) Control cabinet: 122°F (50°C)	
Components	System includes: sensor, shielded glass fiber-optic cable and control device.	
BENEFITS	 Easy to install and use. Continuous and precise monitoring of web through analog output to your control room ensures no missed breaks Can be installed below and above felts, rolls and open draws. Does not require daily cleaning and maintenance. 	



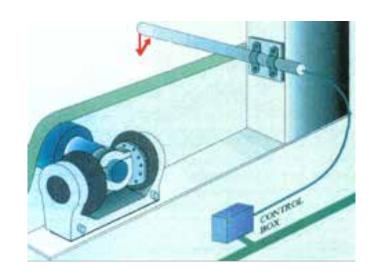
www.eskopacific.com ESTRAC 1000 DATASHEET

SYSTEM COMPONENTS

The detection system consists of a measuring head and extension pipe connected by a pair of identical fibre-optic cables to an infrared amplifier housed in a Nema-4X stainless steel enclosure.

The control cabinet is located outside of the machine hood so that no electronic components reside in the heat of the machine. The measuring sensor head is clamped to the machine frame by a specially designed clamp.

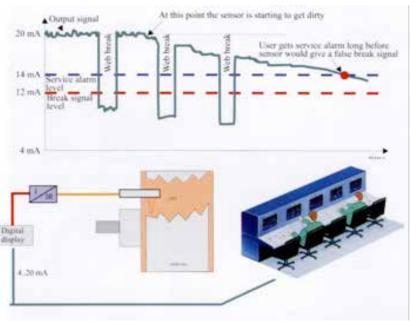
The fibre cables are protected by a 1" SS316 clad Teflon flex hose. This hose is air purged from the control cabinet to the two eyes on the sensor pipe to keep them clean. Three cable lengths are available: 10 feet, 23 feet, and 31 feet.



OPERATING PRINCIPLE

The basic principle of operation is quite simple. Light generated by the infrared amplifier is directed by one cable to the sheet surface. Due to the difference between sheet surface texture and the felt, roll surface or open air, the return light scatter from the second eye and cable determines the output. A 4..20 mA DC signal is developed proportional to the light scatter.

An isolated signal to a PLC and or DCS is supplied as well as discrete relay outputs of 120 VAC, 24 VDC or dry contact. Signal output is viewed on a local panel meter and a sensor alarm and break alarm light are also provided.





The two fiber-optic cables are protected by a Teflon flex hose encased in a 1" braided stainless steel sheath. The hose and two sensor eyes on the sensor head are kept clean with purge air from the control cabinet.



ESTRAC 2000 NON-CONTACT **FELT GUIDE SYSTEM**

www.eskopacific.com **ESTRAC 2000 DATASHEET**

INFRARED EDGE TRACKING SYSTEM

APPLICATIONS

- Originally developed for pulp & paper and converting plants, these systems can be used for any device requiring edge tracking control.
- Advanced non-contact measuring and guiding for felts and fabrics, can be placed into any part of the machine.

FEATURES

- No moving or wearing parts
- No electrical components in process area
- Non-contact measurement using pulsed infrared light
- All SS construction
- Simple to install, easy to clean and maintain







SPECIFICATIONS	
MODEL	ESTRAC 200
MATERIAL	Stainless steel SS304
Measurement	Modulated infrared light, frequency 5 kHz
Accuracy	< 1 mm
Output signal	4-20 mA, pneumatic signal 852 psi
Operating voltage	24 VDC, 100240 VAC
Maximum temperature	Measuring fork: 320°F (160°C) Control box: 122°F (50°C)
BENEFITS	 Improves run time Increases lifetime of fabric

- Increases lifetime of fabric
- Eliminates wear and tear of edge
- Minimizes cross machine movement of fabric. Through the 4-20 mA output, the system can be adapted directly to any roll guiding system as well as to the machine control room to provide continuous information on the fabric's cross machine position.
- Requires minimal cleaning as the continuous air purge and water spray keep the fiber optic lenses clean for proper operation.
- Specifically designed for harsh industrial environments. Includes a minimal amount of components resulting in extremely low system maintenance.



www.eskopacific.com **ES-TRAC 2000 DATASHEET**

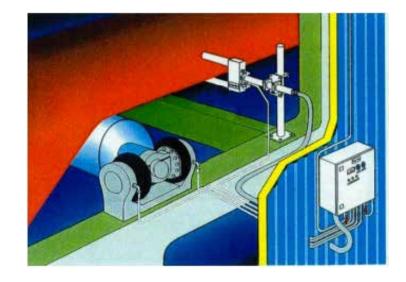
OPERATING PRINCIPLE

The ESTRAC 2000 infra-red guiding system consists of a SS316 measuring fork mounted on the machine frame and connected to a control cabinet outside of the machine hood.

A pair of protected fibre-optic cables connects the measuring fork to the control cabinet.

Control of the existing guide roll actuator is achieved through a 4-20 mA DC signal developed by the infra-red amplifier in the cabinet.

Adapting to a pneumatic, hydraulic or electrical actuator is then made quite simple.





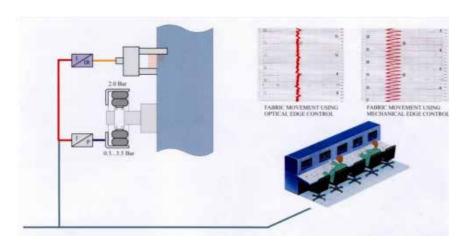
TRENDING

The fabric position may be trended on a DCS or strip chart recorder via an isolated signal.

A standard feature also allows the use of the existing pneumatic guide paddle as a backup unit.

CLEANING

Cleanliness of the fork sensors is maintained by a continuous air purge internally through the fork from the control cabinet.





The two fiber-optic cables are protected by a Teflon flex hose encased in a 1" braided stainless steel sheath.

GREASE LUBRICATION



MANUAL & AUTOMATIC GREASE HANDLING PRODUCTS

- STOCKING DISTRIBUTOR OF ASSALUB IN NORTH AMERICA
- FULL RANGE OF PRODUCTS:
 - > DIGITAL GREASE METERS
 - > PNEUMATIC 1:65 GREASE PUMP
 - > LUBERIGHT MANUAL DIGITAL METER
 - > LUBEMON AUTOMATED MONITORING SYSTEM







AUTOMATED SYSTEMS

PUMP CORRECT AMOUNT INTO BEARINGS EVERY TIME

WELL-EMPTIED GREASE PAILS, KEGS & DRUMS



LEVEL & PRESSURE



LEVEL TRANSMITTERS
 FEATURING 0.1%
 ACCURACY WITH
 HART PROTOCOL AND
 PROFIBUS PA

- SUPERIOR INSTRUMENTATION TECHNOLOGY
- PRESSURE AND TEMPERATURE GAUGES WITH MODULAR DESIGNS

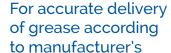








Mk III DIGITAL GREASE METER



recommendations.

www.eskopacific.com

Mk III DATASHEET

Longer bearing life, save over 30% grease usage.

APPLICATIONS

In line design for installation into almost any automatic system for dispensing lubricant or monitoring grease flow.

FEATURES

- Large, easy to read display with programmable universal units: cm³, grams, oz or fl oz.
- Resettable LCD counter
- Advanced oval gear technology electronic meter.





MODEL Mk III	PART # 0102525-2
HOUSING MATERIAL	Aluminum, anodized
Seal material	Neoprene rubber
Maximum Flow	1,000 cm ³ / min
Measuring Accuracy	± 3% up to 30 MPa (4,400 psi)
Working Pressure	Max 70 MPa (10,000 psi)
Number of digits/height	4 digits, 9 mm display
Grease medium	Grease up to NLGI 2
Battery	1 piece AA (1.5 V)
Connections	1/8 - 27 NPTF female
Weight	0.3 kg (.7 lb)
Optional accessories	Pair with grease meter gun, quick couplings, swivel fittings



www.eskopacific.com Mk III DATASHEET

ASSALUB GREASE HANDLING - Mk III GREASE METER

DESCRIPTION	PART NUMBER
Mk III Grease meter Ext. hose; 1/8" NPT male; 800 mm length	0102525-2 0904902
Ext. hose; 1/8" NPT male; 500 mm length	0904984
Grease meter with gun	0102410-2
Air gun	902947
Quick coupling (1/8" NPT female)	906408
Quick coupling (1/8" NPT male)	906409
Grease Control Valve	0043750-3
Z-swivel	0053515
L-swivel	0053520
Straight swivel	0053525







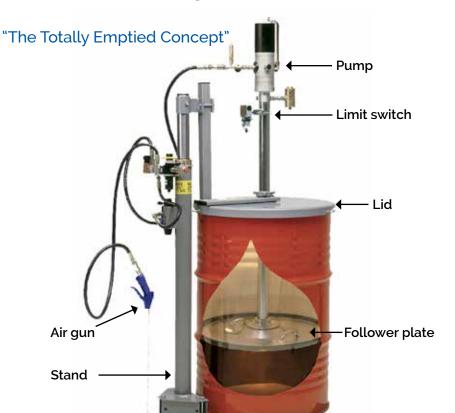






PNEUMATIC 1:65 GREASE PUMP

www.eskopacific.com 1:65 GREASE PUMP DATASHEET





Environmentally friendly and economic pump system.

APPLICATIONS

Pumping innovation with a floating follower plate designed as a completely closed grease handling system

FEATURES

- Minimal grease is wasted
- Easy to see grease level in the drum from a distance
- Waste disposal costs are reduced
- Reliable operation

MODEL 1:65 PUMP	PART #0102095	PART #0102094	PART #0102093
MATERIALS	Anodized aluminum, tem	pered and stainless stee	el, brass and plastic
Overall height for pump and a filled drum:		1.8 m (71")	2.2 m (87")
Size	16-20 kg pail	1/4 - drum	1/1 - drum
Capacity approx.	2.65 lb / min (1,200 grams/min)		
Grease outlet pressure	7,450 psi (520 bar) with 116 psi air supply		
Grease outlet connection	1/4" NPT		
Grease return inlet	Plugged tube fitting (12 mm)		
Air supply pressure, min- max	43.5 - 145 psi (3-10 bar)		
Air supply connection	1/4 " NPT		
Pump tube diameter	2" (50 mm)		
Optional accessories	Limit switch, limit switch ho	lder for automatic or semi-	automatic operation



www.eskopacific.com PNEUMATIC 1:65 GREASE PUMP DATASHEET

ASSALUB GREASE PUMP

DESCRIPTION PART NUMBER Grease pump kits Kit; 1:65 grease pump; 1/4 drum lid & follower 200048-3 Kit; 1:65 grease pump; 1/1 drum lid & follower 200049-3 Kit; 1:6 grease pump; 1/1 drum lid & follower 200069-3 Grease pump kit components Grease pump; 1:65; 1/1 drum with return 0102093 Grease pump; 1:65; 1/4 drum with return 0102094 Grease pump; 1:65; 20 kg pail with return 0102095 Grease pump; 1:6; 1/4 drum with return 0102100 Grease pump; 1:6; 1/1 drum with return 0102100 Lid for 20 kg pail 0102019 Lid for (180 kg) 1/1 drum 0102110 Lid for (50 kg) 1/4 drum 0102111 Follower plate for (180 kg) 1/1 drum 0102116 Follower plate for (50 kg) 1/4 drum 0102142 Follower plate for 20 kg pail 0102202 **Grease pump accessories** Level switch for 1:6 & 1:65 grease pumps 1117069 Level switch holder (50 mm dia tube) 0102206 Drum bung fitting (32 mm dia) - zinc 0102074 Drum bung fitting (35 mm dia) - zinc 0102085 Drum bung fitting (50 mm dia) - zinc 0102086 Drum bung fitting (2") - steel 0122136

QUICK REFERENCE PART NUMBERS FOR KITS:

PUMPING INNOVATION

ASSALUB pumping innovation challenges conventional construction because the pump is supported on a floating follower plate.

This follower plate/pump construction is designed as a completely closed grease handling system to empty a grease barrel.

Only the grease remaining under the curved follower plate (about 2 kg in a 200 kg drum) is left in the barrel. The pump and follower plate fall with the grease level due to the weight and vibration caused by the pump, in combination with the vacuum that arises under the follower plate, preventing the plate from sticking in the drum.

When the drum is empty, the follower plate rests hard against the bottom of the drum and is released by means of compressed air using an airgun (included).

NOTE WHEN ORDERING:

The pail or drum size is important to ensure components fit correctly.

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KIT FOR:	16-20 kg pail	1/4-drum	1/1-drum
1:65 Used for dual line		200048-3	200049-3
greasing systems.			

200069-3



1:6 Available for transfer of grease between containers.









LUBEMON AUTOMATED MONITORING

www.eskopacific.com LUBEMON DATASHEET



Measures the flow of lubricant and ambient temperature and transmits it to a control unit.

APPLICATIONS

 Suitable for continuous monitoring of lubrication in lubricating systems.

FEATURES

- Available in Aluminum or Stainless Steel
- Connects to a CCMon Control unit or other mill systems with pulse inputs.





SPECIFICATIONS

SI ESII ISI III III		
LUBEMON	PART # 101919-2	PART # 101918-2
BODY MATERIAL	SS316	Aluminum
Gear material	PEEK	POM
Dimensions (W x H x D)	46 x 40 x 50 mm 1.8" x 1.6" x 2.0"	46 x 40 x 50 mm 1.8" x 1.6" x 2.0"
Range	up to 75 m from control unit	up to 75 m from control unit
Accuracy	Grease NLGI 2: 0.655 cm ³ / pu Oil ISO-VG 150: 0.610 cm ³ / pu	
Connection	1/8" NPT female	1/8" NPT female
Flow range	0 - 1,500 cm ³ / min	0 - 1,500 cm ³ / min
Temperature	-20° C to 80° C -4° F to 176° F	-20° C to 80° C -4° F to 176° F
Maximum pressure	10,000 psi / 700 bar	10,000 psi / 700 bar
Media	Grease NLGI 000 to NLGI 2 Oil ISO VG > 42	Grease NLGI 000 to NLGI 2 Oil ISO VG > 42
Protection	IP 67	IP 67
Life	1,000,000,000 pulses (655 m³)	
Weight	0.49 kg / 1.08 lb	0.19 kg / 0.42 lb
LUBEMON HV	PART # 102030-2	PART # 102028-2

LUBEMON HV	PART # 102030-2	PART # 102028-2

Flow range $0 - 2,500 \text{ cm}^3 / \text{min}$ $0 - 2,500 \text{ cm}^3 / \text{min}$



www.eskopacific.com LUBEMON DATASHEET

ASSALUB GREASE HANDLING - LUBEMON

DESCRIPTION	PART NUMBER
LubeMon AL (Aluminum)	101918-2
LubeMon SS (Stainless steel)	101919-2
LubeMon HV AL (Aluminum)	102030-2
LubeMon HV SS (Stainless steel)	102028-2
Elbow connector, female, 5M, w/o LED	907134
Elbow connector, female, 5M, c/w LED	907133
Elbow connector, female, 25M, w/o LED	907134-25
Elbow connector, female, 25M, c/w LED	907133-25

HOW IT WORKS

The measuring unit is an accurate oval gear mechanism with a magnet integrated into one of the gears.

The body of the unit incorporates a reed switch element which senses the magnet as it passes.

Each single revolution of the oval gears has a displacement of 0.655 cm³

There are two versions: the standard and a high volume (HV) model.













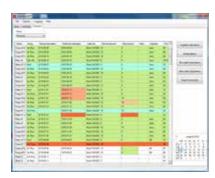


LUBERIGHT FOR MANUAL GREASING

DIGITAL GREASE METER FOR COMMUNICATION WITH TRANSPONDERS







www.eskopacific.com LUBERIGHT DATASHEET



Displays how much grease is planned for the lubrication point.

APPLICATIONS

 Reduces over-lubrication and missed lubrications.

FEATURES

- Displays planned lubrication amount for each point
- Measures and records grease dispensed at each point
- Built-in transmitter to identify transponders
- Can be used on grease nipples without transponders
- Selectable metric or imperial units (cm³, gram, oz or fluid oz)

SPECIFICATIONS

LUBERIGHT

PART # 0102510

COMPUTER ASSISTED MANUAL LUBRICATION SYSTEM

Grants full control over important manual lubrication.

Identifies each lubrication point and displays the correct amount of grease to use.

Confirms each lubrication point and prevents that lubrication point from getting overlooked.

Makes it possible to verify lubrication history for each lubrication point.

Planned and verified in a PC program (requires LubeRight.NET program license).

Maximum working pressure	10,000 psi / 70 MPa
Output range	0 - 1,000 cm ³ / min
Temperature range	-20° C to +40° C -4° F to 104° F
Connections	ISO - G 1/8 female
Options to complete your system	Grease nipple with transponder, grease nipple with transponder with button head nipple, digital grease meter with transmitter for communication with transponders, USB-cable, parts for an extended nipple system, number labels, mounting tool for transponders. LubeRight.NET program license is necessary.
Available as a full kit	LubeRight Mk II full kit (with grease meter, USB-cable, case, number labels and mounting tool for transponders)



www.eskopacific.com LUBERIGHT DATASHEET

ASSALUB GREASE HANDLING PRODUCTS - LUBERIGHT

DESCRIPTION	PART NUMBER
LubeRight kits	
LubeRight Mk II full kit	0102533
Luberight Mk II full kit for button head nipples	0102533-3
LubeRight grease meter	
Digital grease meter with transmitter for communication with transponders	0102510
Digital grease meter with transmitter for communication with transponders with button head nipple	0102510-3

COMPLETE YOUR SYSTEM WITH COMPONENTS

This product is typically utilized in a system that consists of: a reader, a grease nipple with transponder for each greasing point to be tracked, a USB cable to connect the grease meter to your PC, and the LubeRight. NET program license (necessary) to track and report on your activity.



The transponder is the lubrication point identity tag. It is mounted on a nipple by a support washer and a retaining ring (right).



Transponder is made of glass fiber-laminated epoxy.

FULL KIT OPTIONS



PART # 0102533

With digital grease meter with transmitter for communicating with transponders.

Kit also includes: USB-cable Case Number labels (1-540) Mounting tool for transponders

PART # 0102533-3

With digital grease meter for communicating with transponders with <u>button</u> <u>head nipple.</u>

Kit also includes: USB-cable Case Number labels (1-540) Mounting tool for transponders









Esko Pacific Sales Ltd.

PRODUCT WARRANTY AND RETURNS

Original proof of purchase and delivery and written notification within the warranty period are required for all warranty claims. ESKO reserves the right to apply reasonable service charges for equipment deemed to be returned without proper justification.

This warranty applies only to the original purchase of ESKO products from ESKO directly or through an authorized ESKO distributor and is not assignable. Equipment manufactured by other vendors carries the vendor's or manufacturer's standard warranty.

LIMITATIONS

This warranty is limited to the above and does not apply to defects resulting from any Customer actions or inactions such as normal wear and tear in industrial operating conditions, abnormal operating conditions, inadequate maintenance, improper use or installation, operation outside of technical specifications, improper repair or modifications not expressly approved by ESKO. No other warranties are expressed or implied. ESKO specifically disclaims any implied warranties of merchantability or fitness for a specific purpose. ESKO's liability shall be limited to the actual purchase price of any defective unit or units of equipment to which a claim is made, and shall in no event include the Customer's manufacturing costs, lost profits or goodwill, or any other direct, indirect, special, incidental or consequential damages whether based on contract, tort or other legal theory. ESKO shall not be liable for manufacturing defects or customary variances from specifications that are within industry norms.

SPECIAL CONDITIONS

In the event that the Customer purchases or uses any ESKO products for an unintended use (such as applications intended to sustain or support life, in nuclear facilities, or any other application where the failure of the product could create a situation where catastrophic property damage, personal injury or death may occur), the Customer shall indemnify and hold harmless ESKO and its officers, directors, employees, agents, affiliates, successors and assigns against all claims, costs, damages and expenses arising out of or in connection with, directly or indirectly, any claim for property damage, personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ESKO was negligent regarding the design and manufacturing of the subject product.

This information was last updated October 2017

