

Lumiglas Light/Weld Neck Sight Glass Unit with Luminaires Type MV-ME

Butt-weld sight glass fitting with a threaded cover nut with special version of Lumiglas luminaire installed. Units available in stainless steel or aluminium allowing the combination of sight glass and light port, sizes DN 65 to DN 125.

Application:

For illuminating bio-reactors, mixing vessels and filters, as well as the interiors of tanks, agitators, silos, separators, pipelines, and other - usually closed - vessels in potentially non-explosive operating environments, especially in the pharmaceutical, food and beverage processing industries, e. g. breweries and dairies.

Protection:

When correctly fitted, dust and waterjet proof to IP 65, EN 60 529/ DIN VDE 0470 Part 1.

Operating Conditions:

Pressure: max, 6 bar (higher pressure ratings on request), vacuum



Complete unit of a Lumiglas light/screwed sight glass unit with luminaires type Lumistar ME

Items	Parts name	Material options
1	Luminaire luminaire	
1.1	luminaire housing	options: 304 stainless steel 1.4301, polished
1.2	luminaire cover	
1.3	flat seal with bridge	Silicon (max 200°C)
2	screwed sight glass fitting	
2.1	threaded cover nut	stainless steel type 304
2.3	sightglass disc	soda lime glass: toughened (tempered) to DIN 8902, max. temperature 150°C borosilicate glass: toughened (tempered) to DIN 7080, max. temperature 280°C
2.4	D-ring seal	Viton, PTFE, Perbunan, Silicon
2.5	weld neck nozzle	stainless steel type 316L. ASME Material available upon request
3	vessel wall	

Temperature: Fitting: max. 200°C

Temperature at the cable gland: 80°C.

Where ambient temperature lies above 40°C heat resistant cable, e. g. Sinotherm 110 H05GG-F 3G 1,5 mm² must be fitted.

Lumistar luminaire type ME is equipped with 3 m cable (factory-made), temperature resistant up to 90°C.

Electrical Data:

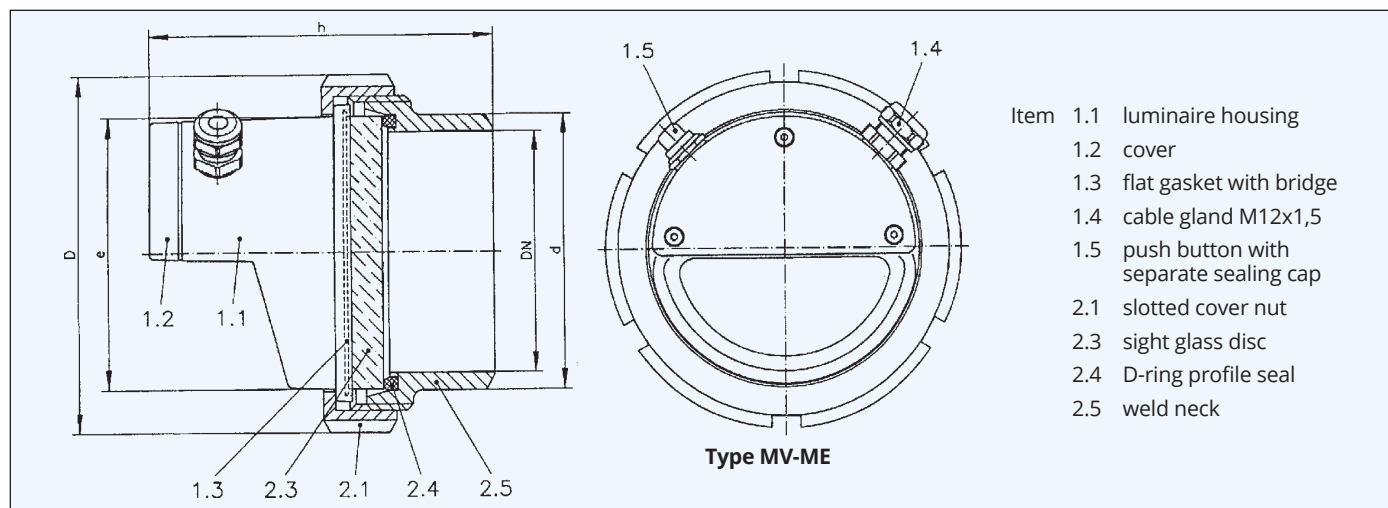
- Power supply 24 V (12 V available)
- Lamp LED 1.5 or 2 watt

Pushbutton: The luminaires are supplied with built-in pushbutton.

Transformers: Can be supplied optionally.

Parts & alternately materials, drawing on the right:

Dimensions and electrical data of Lumiglas light/weld-neck sight glass unit with luminaires type MV-ME



Parts, Construction and Materials:

- Stainless steel type 304
- Luminaire cover (1.2) is screwed to luminaire housing (1.1) with inserted flat flexible gasket to form the connector box.
- A built-in push button with separate sealing cap (1.5) for intermittent use is standard.
- Lumiglas luminaire ME is inclusive 3 m cable tail to 90 °C.

Size		1	2	3	4*	
Lumiglas luminaire	Type	MV 65 / ME 65	MV 80 / ME 80	MV 100 / ME 100	MV 125 / ME 125	luminaire 304 Stainless
compatible	DN	65	80	100	125	* can be combined with Lumiglas sight glass wiper type SW I The dimension h of version MV/ME (stainless steel) is less.
voltage	V	24	24	24	24	
wattage	W	1.5	1.5	2	2	
dimensions	D	112	127	148	178	
	d	79	93	114	136	
	e	78	92	113	136	
	h	110	125	143	140	

Mechanical Installation of Assembly:

Please note: Electrical connection should be carried out only after the mechanical fitting! Lumiglas luminaire and flat seal (1.3) are bonded together at the factory. After welding nozzle (2.5) into the vessel wall (3), fit D-ring seal (2.4), glass disc (2.3) and luminaire (1.1) as shown in the drawing overleaf. Tighten all these parts down against the nozzle by cover nut (2.1). Always use the special 'C-Spanner'. Make certain sight glass disc seats correctly in the fitting. Please refer also to Data Sheet 02-0040 (Weld-neck sight glass fittings series MV).

Ordering Information:

Please state: Lumiglas light/screwed sight glass unit MV 80/ME 80, 24 V - 1.5 W

Details:

Please refer to separate data sheets or installation and operating instructions:

- 06.02.02 Stainless steel Lumiglas luminaires, Lumistar ME
- 01.06 Screwed sight glass fittings series MV