

## Sightglass Wiper type SW I

- for circular sightports to DIN 28120, ANSI Bolt-On or similar

### Application:

For manual cleaning of inside glass surface of sightports.

### Installation

Sightglass disc with central bore hole 10.5 mm (.413") dia. (similar to DIN 7080/8902), suitable for sightglass assemblies from a nominal bore DN 50, 2" and greater.

### Operating Conditions:

The wiper operates vacuum tight, and pressure tight to min. 15 psi, and, depending on the size of the sightglass disc, up to 90 psi. The max permissible operating temperature is 220°C, depending on the type of glass used.

### Possible Combinations:

Combination is possible with LUMIGLAS luminaires installed on the sightglass fittings. Depending on the luminaire type, wiper SW I can be combined with:

- Lumistar from viewing diameter 5" (size DN 100 Model DIN 28120)
- USL 01 from viewing diameter 3" (size DN 50)
- USL 13 from viewing diameter 4" (size DN 80)

(see table on reverse side for other combinations).

### Certificates/Testing:

Certificates of the state material testing authority of Nordrhein-Westfalen, Dortmund, are available.

### Assembly

|      |    |                                   |
|------|----|-----------------------------------|
| Item | 1  | T-Grip (optional: ratchet handle) |
| Item | 2  | locating pins                     |
| Item | 3  | spacer collar                     |
| Item | 4  | spacer collar                     |
| Item | 5  | compression spring                |
| Item | 6  | bush                              |
| Item | 7  | glass disc                        |
| Item | 8  | gasket                            |
| Item | 9  | O-ring seal                       |
| Item | 10 | flanged bushing                   |
| Item | 11 | wiper spindle                     |
| Item | 12 | O-ring seals                      |
| Item | 13 | bearing sleeve                    |
| Item | 14 | wiper blade inserts               |
| Item | 15 | wiper blade holder                |
| Item | 16 | locating pin                      |

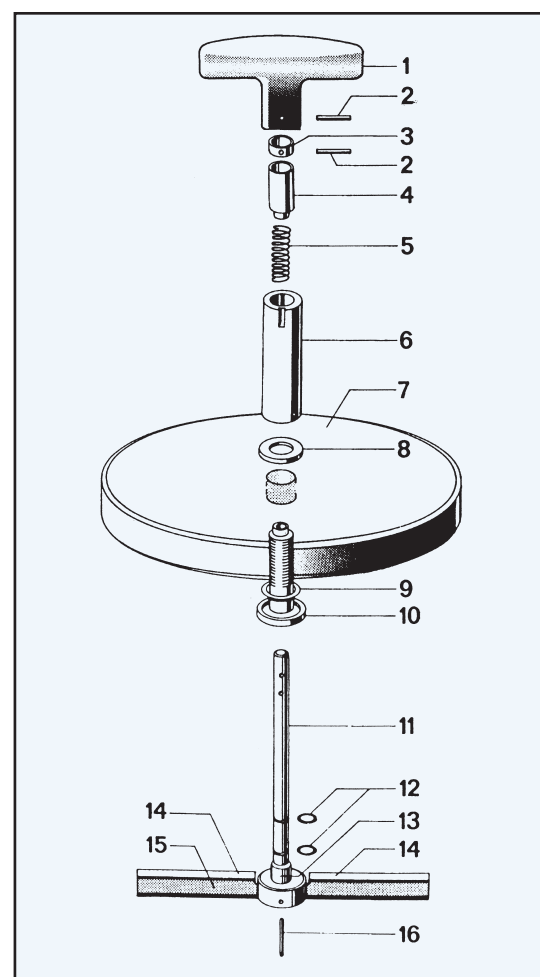
All wetted metal parts of the wiper are stainless steel.

### Fitting and Assembly Instructions:

If the wiper is ordered separately, i.e. not installed into a sightglass disc by the manufacturer, it comes with assembly and fitting instructions.



*Sightglass wiper type SW I built into a sightglass disc*



*Exploded view of components*

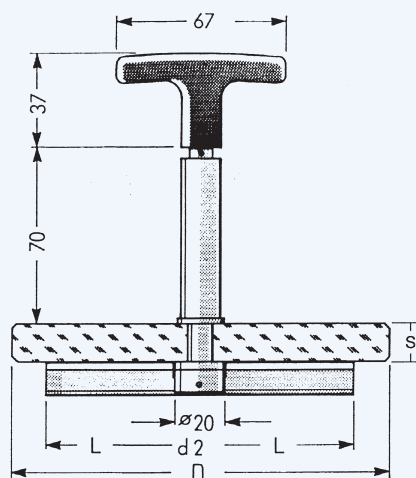
ISO 9001 QA CERTIFICATE

GERMAN MANUFACTURER:

F.H. PAPENMEIER AWARDED QA APPROVAL CERTIFICATE



## Dimensions for Port Wipers type SW I:



Lumiglas wiper SW 1, fitted into sight glass assembly DIN 28120



Wiper SW 1 into a DIN 28120 sight port, combined with a Lumistar luminaire

| Size             |              | 3           | 4           | 5*          | 6*          | 7*          | 8*          | 9                                                           | specials sizes |     |     |
|------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------------------------------------------|----------------|-----|-----|
| Nominal diameter | D N          | 50          | 80          | 100         | 125         | 150         | 200         | 250                                                         | 300            | 350 | 400 |
| Viewing diameter | d 1          | 80          | 100         | 125         | 150         | 175         | 225         | on request                                                  |                |     |     |
| Sightglass disc  | D**          | 100 (3.94") | 125 (4.92") | 150 (5.91") | 175 (6.89") | 200 (7.87") | 250 (9.84") |                                                             |                |     |     |
|                  | s            | 15          | 15          | 15/19       | 15/19       | 15/19       | 15/25       |                                                             |                |     |     |
|                  | PN max...bar | 6           | 6           | 5/6         | 4/6         | 4/4         | 2/4         |                                                             |                |     |     |
| Wiper blade      | d 2          | 77          | 97          | 122         | 147         | 172         | 222         | depending on wiper blade and inside diameter of the fitting |                |     |     |
|                  |              | L1033       | L1033 1     | L1033 2     | L1033 3     | L1033 4     | L1033 5     |                                                             |                |     |     |

All dimensions in mm unless stated otherwise.

Subject to change without prior notice

\* Combination with Lumiglas luminaire possible; Combination with Lumistar 225, SLK and USL styles only with ratchet drive/lever version

\*\* Use mm dimensions for accuracy

## Spares

| Wiperblades                         | for sizes | L                                                               | Silicone rubber<br>Part number | PTFE<br>Part number |
|-------------------------------------|-----------|-----------------------------------------------------------------|--------------------------------|---------------------|
|                                     | 3         | 28.5                                                            | L1040 S                        | L1040 T             |
|                                     | 4         | 38.5                                                            | L1040 1 S                      | L1040 1 T           |
|                                     | 5         | 51                                                              | L1040 2 S                      | L1040 2 T           |
|                                     | 6         | 63.5                                                            | L1040 3 S                      | L1040 3 T           |
|                                     | 7         | 76                                                              | L1040 4 S                      | L1040 4 T           |
|                                     | 8         | 101                                                             | L1040 5 S                      | L1040 5 T           |
|                                     | 9 to 12   | depending on glass diameter and inside diameter of the fittings |                                |                     |
|                                     |           |                                                                 |                                |                     |
| Seals                               | for sizes | diam. x s                                                       | part number                    |                     |
| Viton O-ring seal (no. 12 overleaf) | 1 to 6    | 4 x 1                                                           | L1112 12                       |                     |
| Viton O-ring seal (no. 9 overleaf)  | 1 to 6    | 12.37 x 2.62                                                    | L1112 9                        |                     |

## Ordering Information:

e.g. LUMIGLAS - Sightglass wiper type SW I, size 3, wiperblade PTFE

If a sightglass disc is needed as well, please specify the following data:

- Borosilicate or soda lime glass
- Sightglass disc size (diameter x s)
- nominal fittings diameter DN or ANSI Flange size
- effective operating pressure for the vessel
- for wiper blades sizes 9 and larger, please specify the inside diameter of the fitting

## Note:

A sightglass disc is not automatically included in the supply. Please order sightglass discs separately.