

# SEM-Fast

## 90° Bogen

### Prüfzeichen/Zulassungen:

IP 65  
IP 68 mit montierter O-Ring Dichtung  
Gewindeabdichtung über Dichtstege  
in Vorbereitung: VDE, UL/CUL

passend für folgende Wellenschlauch-Profile:  
Normal, UFW

### Material:

Polyamid PA 6

### Farbe(n)/Ausführungen:

- Schwarz, grau
- Außengewinde:  
Metrisch/PG

### Eigenschaften:

- Brandverhalten nach FMVSS 302  
< 100 mm/min.
- UL 94 V.2
- Halogenfrei

# SEM-Fast

## 90° Bend

### Approbations:

IP 65  
IP 68 with O-Ring sealing  
Thread sealing through sealing-bars  
in preparation: VDE, UL/CUL

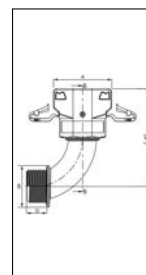
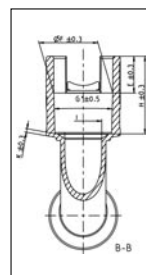
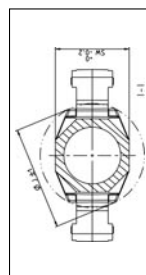
Suitable for the following corrugated tube  
profiles: Normal, UFW

### • Schlauch wird in die „geschlossene“

- SEM-Fast Verschraubung eingesteckt.
- Einfache und schnelle Einhandmontage
- Spezielle Verrastungstechnik
- Hohe Auszugskräfte
- Wellenschlauch in der Verschraubung drehbar

### Anwendungsbereiche:

- Maschinen- und Apparatebau
- Schiffs-, Bahn- und Fahrzeugbau
- Schaltschränke und bewegliche  
Maschinenteile



### Material:

Polyamide PA 6

### Colour(s)/Designs:

- Black, grey
- External Thread:  
Metric/PG

### Features:

- Burning behaviour acc. to  
FMVSS 302, < 100 mm/min.
- UL 94 V.2
- Free of halogene

### • Insert tube in the „closed“

- SEM-Fast Gland
- Easy and tight singlehand assembly
- Special click-in system
- High tensile strength
- Tube is rotatable within the gland

### Applications:

- Machine- und apparatus engineering
- ship-, trainbuilding, automotive industries
- switch cabinets and moveable machine  
parts



Programm im Aufbau – Lieferzeiten und weitere Ausführungen auf Anfrage.  
Die jeweils aktuelle SEM-Fast Programmübersicht finden Sie auf unserer Homepage: [www.schlemmer.com/Produkte/Neuheiten](http://www.schlemmer.com/Produkte/Neuheiten).

Product line in progress – Delivery times and further products on request.  
The latest program information can be found on our homepage: [www.schlemmer.com/Products/News](http://www.schlemmer.com/Products/News).

| Außen-<br>gewinde  | für<br>NW | SW<br>mm  | A<br>mm   | B Ø<br>mm | C<br>mm | D<br>mm | I Ø<br>mm | J Ø<br>mm | O-Ring für IP 68<br>separat bestellen!       |           |             |           | Art.-Nr.<br>schwarz<br>RAL 9005 | Art.-Nr.<br>grau<br>RAL 7031 | VE<br>Stück | VE pro<br>Umkarton<br>(=9er Krt.) |
|--------------------|-----------|-----------|-----------|-----------|---------|---------|-----------|-----------|----------------------------------------------|-----------|-------------|-----------|---------------------------------|------------------------------|-------------|-----------------------------------|
|                    |           |           |           |           |         |         |           |           | Normalprofil                                 |           | UFW-Profil  |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           | L Ø<br>mm                                    | M Ø<br>mm | L Ø<br>mm   | M Ø<br>mm |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           | O-Ring für IP 68<br>please order separately! |           |             |           |                                 |                              |             |                                   |
| External<br>Thread | for<br>NW | SW<br>mm  | A<br>mm   | B Ø<br>mm | C<br>mm | D<br>mm | I Ø<br>mm | J Ø<br>mm | Normal Profile                               |           | UFW-Profile |           | Art.-No.<br>black<br>RAL 9005   | Art.-No.<br>grey<br>RAL 7031 | PU<br>pcs.  | PU per<br>covering<br>box pcs.    |
| L Ø<br>mm          | M Ø<br>mm | L Ø<br>mm | M Ø<br>mm |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
| Metrisch/Metric    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
| 16 x 1,5           | 10        | 17,0      | 21,6      | 20,0      | 49,3    | 12,0    | 9,5       | 24,5      | 7,0                                          | 1,50      | 8,0         | 1,50      | 3805200                         | 3805300                      | 50          | 1800                              |
| 16 x 1,5           | 12+13     | 20,0      | 25,5      | 20,0      | 51,8    | 12,0    | 9,5       | 29,0      | 9,0                                          | 1,50      | 8,8         | 1,90      | 3805205                         | 3805305                      | 50          | 1200                              |
| 20 x 1,5           | 12+13     | 20,0      | 25,5      | 25,0      | 59,3    | 12,0    | 13,5      | 29,0      | 9,0                                          | 1,50      | 8,8         | 1,90      | 3805206                         | 3805306                      | 50          | 1200                              |
| 20 x 1,5           | 17        | 27,0      | 34,5      | 25,0      | 58,3    | 12,0    | 13,5      | 38,5      | 14,0                                         | 1,78      | 13,0        | 2,50      | 3805211                         | 3805311                      | 25          | 600                               |
| 25 x 1,5           | 17        | 27,0      | 34,5      | 31,0      | 64,5    | 13,0    | 17,0      | 38,5      | 14,0                                         | 1,78      | 13,0        | 2,50      | 3805212                         | 3805312                      | 25          | 600                               |
| 25 x 1,5           | 23        | 34,0      | 42,5      | 31,0      | 69,4    | 13,0    | 17,0      | 48,5      | 18,0                                         | 2,00      | 20,0        | 2,50      | 3805217                         | 3805317                      | 20          | 320                               |
| 32 x 1,5           | 23        | 34,0      | 42,5      | 38,0      | 72,2    | 13,0    | 23,0      | 48,5      | 18,0                                         | 2,00      | 20,0        | 2,50      | 3805218                         | 3805318                      | 20          | 320                               |
| 32 x 1,5           | 29        | 41,0      | 49,5      | 38,0      | 74,6    | 13,0    | 23,0      | 55,5      | 21,8                                         | 2,40      | 25,0        | 2,50      | 3805223                         | 3805323                      | 10          | 120                               |
| 40 x 1,5           | 29        | 41,0      | 49,5      | 48,0      | 84,5    | 15,0    | 31,0      | 55,5      | 21,8                                         | 2,40      | 25,0        | 2,50      | 3805224                         | 3805324                      | 10          | 120                               |
| 40 x 1,5           | 37        | 50,0      | 59,0      | 48,0      | 92,5    | 15,0    | 31,0      | 66,5      |                                              |           |             |           | 3805229                         | 3805329                      | 10          | 80                                |
| 50 x 1,5           | 37        | 50,0      | 59,0      | 56,0      | 102,0   | 17,0    | 39,5      | 66,5      |                                              |           |             |           | 3805230                         | 3805330                      | 10          | 80                                |
| 50 x 1,5           | 50        | 64,0      | 72,0      | 56,0      | 106,7   | 17,0    | 39,5      | 80,0      |                                              |           |             |           | 3805235                         | 3805335                      | 5           | 40                                |
| 63 x 1,5           | 50        | 64,0      | 72,0      | 72,0      | 125,1   | 19,0    | 51,5      | 80,0      |                                              |           |             |           | 3805236                         | 3805336                      | 5           | 40                                |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
| PG/PG              |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
| 9                  | 10        | 17,0      | 21,6      | 20,0      | 49,3    | 12,0    | 9,5       | 24,5      | 7,0                                          | 1,50      | 8,0         | 1,50      | 3805201                         | 3805301                      | 50          | 1800                              |
| 11                 | 12+13     | 20,0      | 25,5      | 25,0      | 59,3    | 12,0    | 13,5      | 29,0      | 9,0                                          | 1,50      | 8,8         | 1,90      | 3805207                         | 3805307                      | 50          | 1200                              |
| 13,5               | 17        | 27,0      | 34,5      | 31,0      | 43,0    | 13,0    | -         | -         | -                                            | -         | -           | -         | 3805214                         | 3805314                      | 50          | 800                               |
| 16                 | 17        | 27,0      | 34,5      | 31,0      | 64,5    | 13,0    | 17,0      | 38,5      | 14,0                                         | 1,78      | 13,0        | 2,50      | 3805213                         | 3805313                      | 25          | 600                               |
| 21                 | 23        | 34,0      | 42,5      | 38,0      | 72,2    | 13,0    | 23,0      | 48,5      | 18,0                                         | 2,00      | 20,0        | 2,50      | 3805219                         | 3805319                      | 20          | 320                               |
| 29                 | 29        | 41,0      | 49,5      | 48,0      | 84,5    | 15,0    | 31,0      | 55,5      | 21,8                                         | 2,40      | 25,0        | 2,50      | 3805225                         | 3805325                      | 10          | 120                               |
| 36                 | 37        | 50,0      | 59,0      | 56,0      | 102,0   | 17,0    | 39,5      | 66,5      |                                              |           |             |           | 3805231                         | 3805331                      | 10          | 80                                |
| 48                 | 50        | 64,0      | 72,0      | 72,0      | 125,1   | 19,0    | 51,5      | 80,0      |                                              |           |             |           | 3805237                         | 3805337                      | 5           | 40                                |
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|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |
|                    |           |           |           |           |         |         |           |           |                                              |           |             |           |                                 |                              |             |                                   |

### Materialdaten für O-Ring Dichtungen (für IP 68) - Nitril Gummi

### Material data for O-Ring Sealings (for IP 68) - Nitrile Rubber

| Spezifikation/Specification      | Einheit<br>Unit | Werte<br>Values | Grenzbereiche<br>Limits | Testmethode<br>Test method |
|----------------------------------|-----------------|-----------------|-------------------------|----------------------------|
| Polymer Type/Polymer type        | -               | NBR             | -                       | -                          |
| Farbe/ Colour                    | -               | black           | -                       | -                          |
| Dichte/Density                   | kg/m³           | 1210            | 1190-1230               | SS-ISO 2781                |
| Härte/Hardness                   | IRH             | 72              | 69-76                   | SS-ISO 48                  |
| Zugfestigkeit/Tensile strength   | Mpa             | 16              | >15                     | SS-ISO 37                  |
| Bruchdehnung/Elongation at break | %               | 300             | >200                    | SS-ISO 37                  |
| Druckverformung/Compression set  | %               | 16              | <25                     | SS-ISO 815                 |
| O-Ring: D=3.0 mm 24h 100°C       |                 |                 |                         |                            |
| Größenänderung/Volume change     | %               | +25             | +20/+30                 | SS-ISO 1817                |
| in IRM 903 70h/100°C             |                 |                 |                         |                            |

Weitere Informationen auf Anfrage / Further Information on request

### Montage/Assembly



Der Schlauch wird in die „geschlossene“ SEM-Fast Verschraubung eingesteckt. Zur sicheren Verrastung, den Schlauch in der Verschraubung leicht zurückziehen.

### O-Ring Dichtung für IP 68:

Montieren Sie die O-Ring Dichtung im ersten Wellental nach dem Abschnitt des Wellenschlauchs. Passende O-Ring Dichtungen auf Anfrage.

### Insert tube in the „closed“ SEM-Fast Gland.

Slightly pulling back the corrugated tube within the gland locks it safely.

### O-Ring Sealing for IP 68:

Mount the O-Ring sealing into the first groove after the first section (=cut of the corrugated tube). Suitable O-Ring Sealings on request.