

# EXNER PROCESS EQUIPMENT



## EXTRACT M

Manual retractable process holder  
Technical information

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# 1 Product description

## 1.1 EXtract automatic retractable holder

### Components

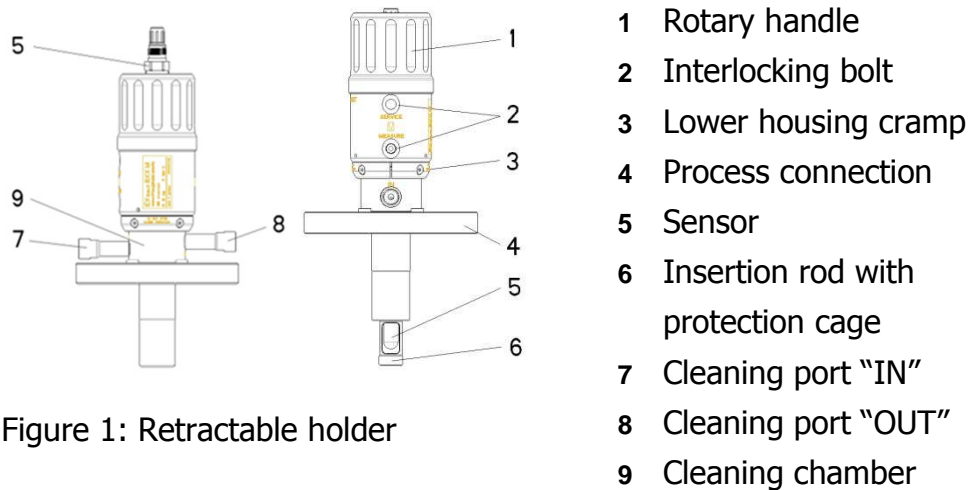


Figure 1: Retractable holder

### Variations

Retractable holders are attached to tanks or tubing by an applicable process connection. In order to comply with the various process properties the **EXtract M** retractable holder is fabricated of stainless steel or plastic. You can further choose between different process and cleaning ports, sealing materials, and sensors.

### EXtract 810M/ 820M

EXtract 810M / 820M is a manual retractable holder made of stainless steel (810M) or plastic (820M) for installation of Ø12mm sensors on tanks or pipelines, with an extended immersion length up to 107mm.

- For all kind of Ø12/225mm or Ø12/280mm sensors with thread PG13.5 (pH-glass- and ISFET sensors, conductivity- or temperature sensors, turbidity and other optical sensors)
- Chemicals
- Water treatment
- Rough processes

|                           |   |
|---------------------------|---|
| <b>EXtract 811M/ 821M</b> | EXtract 811M / 821M is a manual retractable holder made of stainless steel (811M) or plastic (821M) for installation of Ø12mm sensors on tanks or pipelines, with an extended immersion length up to 207mm.   |
| <b>Extract 815M</b>       | The EXtract 815M process holder is a manual operated retractable holder made of stainless steel for the installation of Ø12mm sensors at welding sockets DN25 (Ingold-type socket) with an integrated PTFE scraper.   |
| <b>EXtract 830M</b>       | <p>EXtract 830M is a manual retractable holder made of stainless steel for hygienic installation of Ø12 sensors on tanks or pipelines</p> <ul style="list-style-type: none"> <li>• For all kind of Ø12/225mm or Ø12/280mm sensors with thread PG13.5 (pH-glass- and ISFET sensors, conductivity- or temperature sensors, turbidity and other optical sensors)</li> <li>• Food</li> <li>• Pharmaceuticals</li> </ul> |
| <b>Drive</b>              | The manual drive of the holder is a mechanical rotary drive that dissipates rotating motion into a stroke of the insertion rod. So the sensor can be moved from the cleaning chamber into the process liquid and back again. Because of the smart construction of the drive the sensor can be moved against high process pressure easily.   |
| <b>Measuring</b>          | When reaching the final position of the "measuring" position, a bolt interlocks the position certainly. In this position the sensor head is immersed in the drive unit and cannot be removed. The sensor measures the chemical or physical properties of the process liquid.  |
| <b>Service</b>            | Cleaning and rinsing of the sensor is possible while the process is running. For this purpose the holder must be moved to the "service" position. When the final position is reached, a bolt interlocks the position certainly. In the "service" position the insertion rod seals the cleaning chamber against the process to prevent leakage of  |

process liquid. The cleaning liquid is introduced into the cleaning chamber via the cleaning port "IN" and subsequently drained via the cleaning port "OUT".

## 1.2 Process integration

**Transmitter** The retractable holder inserts a sensor into the process liquid transmitting its measuring results to a transmitter.

**Process control** The transmitter can be connected to a process control. According to the measuring signals a cleaning flag can be set. The cleaning has to be done manually.

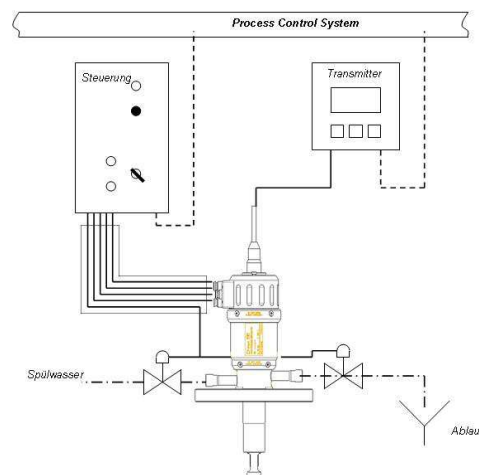


Figure 2: Process flow

**Pressure Temperature** The choice of the applicable holder is subject to the pressure and temperature conditions of the process. The retractable holder of stainless steel can be used for a pressure of up to 16 bar and the plastic model up to 10 bar according to the temperature. The process temperature should be between -10° and 140°C

!!!

Observe pressure and temperature charts in chapter 8!

**Installation position** The operation of the holder is generally possible in any position. The reliability of the measuring results depends on the properties of the selected sensor.



## 2 Special functions

### 2.1 Manual operation of the holder

Drive sensor into position „Measure“



Figure 3: position "measure"

Push interlocking bolt and turn rotary handle clockwise until interlocking bolt locks in position „Measure“

Drive sensor into position „Service“



Figure 4: position "service"

Push interlocking bolt and turn rotary handle counter - clockwise until interlocking bolt locks in position „Service“.



## 2.2 Adjusting the protection cage

A protection cage is fitted to the lower end of the insertion rod and can be adjusted with the flow direction. The symbol on the drive unit cylinder indicates the position of the opening in the insertion rod. If the symbol is parallel to the flow direction the insertion rod is fully flown through. If the symbols are vertical to the flow the sensor is fully protected from direct flow. The insertion rod can be adjusted in any intermediate position.



Figure 5: Protection cage

- A** Sensor maximally streamed
- B** Sensor minimally streamed



Figure 6: Symbol

## 2.3 Installing the sensor

Sensors with a diameter of 12mm and a connection thread PG 13.5 must be used in the EXTRACT M retractable holder.

The length of the sensor depends on the sensor type and the selected holder.



Figure 7: Sensor filled with gel (top), sensor filled with liquid (bottom)

## 2.4 Installing the cleaning pipes

Cleaning of the sensor is possible while the process is running. This requires supply and draining of cleaning liquid to the cleaning chamber. If cleaning of the sensor is not desired the cleaning ports must be sealed by pegs.



**A** Cleaning port "IN"  
**B** Cleaning port "OUT"

Figure 8: Cleaning ports



### How to install the cleaning pipes:

1. Install valve and dirt trap in the cleaning pipe for the cleaning liquid supply.
2. Attach supply cleaning pipe to the cleaning port "IN".
3. Install valve in cleaning pipe for drainage of the cleaning liquid.
4. Attach cleaning pipe to the cleaning port "OUT".
5. Check all connections for tightness.



To avoid premature contamination of the sensor the pressure of the cleaning liquid should be at least 1 bar!

## 2.5 Installing the sensor

Sensors with a diameter of 12mm and a connection thread PG 13.5 must be used in the EXTRACT M retractable holder.

The length of the sensor depends on the sensor type and the selected holder.

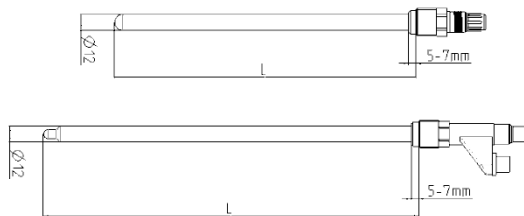


Figure 9: Sensor filled with gel (top), sensor filled with liquid (bottom)

## 2.6 Checking wetted seals

The retractable holder is fitted with an inspection window situated between the lower housing cramps.

**Check inspection window for leaking process liquid on a regular basis.**



Figure 10: Inspection window on lower housing clamp

## 3 Technical specifications

### 3.1 Standards

Pressure equipment directive

### 3.2 Material properties

| Wetted components |                 |                   |         |      |    |   |
|-------------------|-----------------|-------------------|---------|------|----|---|
| Holder            |                 |                   |         |      |    |   |
| EXTRACT           | stainless steel |                   | plastic |      |    | seals   |
| 810M              | 1.4404/316L     | Alloy C22, 2.4602 |         |      |    | <ul style="list-style-type: none"><li>• EPDM</li><li>• FPM</li><li>• FFKM</li></ul> |
| 811M              | 1.4404/316L     | Alloy C22, 2.4602 |         |      |    |   |
| 815M              | 1.4404/316L     | Alloy C22, 2.4602 |         |      |    |   |
| 820M              |                 |                   | PVDF    | PEEK | PP |   |
| 821M              |                 |                   | PVDF    | PEEK |    | <ul style="list-style-type: none"><li>• EPDM FDA</li><li>• FPM</li></ul>            |
| 830M              | 1.4404/316L     |                   |         |      |    |   |

| Drive unit |            |                    |       |
|------------|------------|--------------------|-------|
| EXTRACT    | cylinder   | cylinder extension | seals |
| All types  | 1.4404/316 | PA66 GF30          | EPDM  |

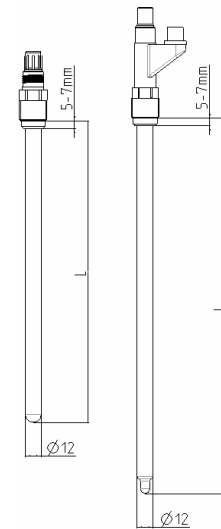
### 3.3 Cleaning ports

| Thread        |   |
|---------------|---|
| without gland | <ul style="list-style-type: none"><li>• G 1/8" (internal)</li></ul>   |
| with gland    | <ul style="list-style-type: none"><li>• G 1/4" (internal)</li></ul>   |
| with gland    | <ul style="list-style-type: none"><li>• NPT 1/4" (internal)</li></ul> |

| Cleaning pressure |           |
|-------------------|-----------|
|                   | 1 - 4 bar |

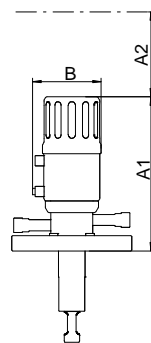
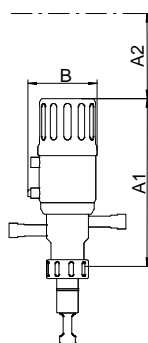
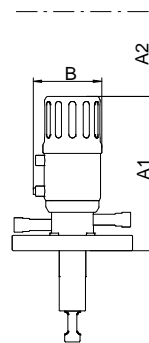
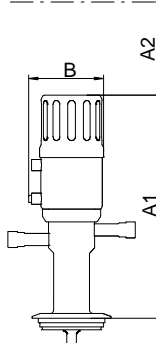
### 3.4 Sensors

| Gel filled sensor |        |        |      |
|-------------------|--------|--------|------|
| EXTRACT           | l [mm] | d [mm] | PG   |
| 810M / 820M       | 225    | 12     | 13.5 |
| 811M / 821M       | 325    | 12     | 13.5 |
| 815M              | 225    | 12     | 13,5 |
| 830M              | 225    | 12     | 13,5 |

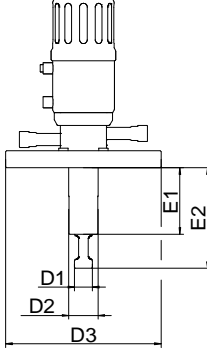
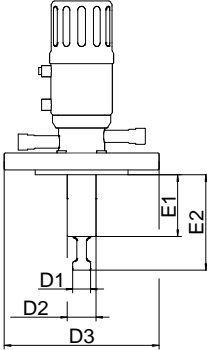
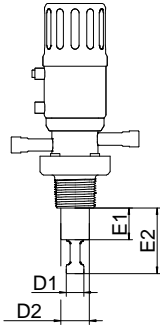
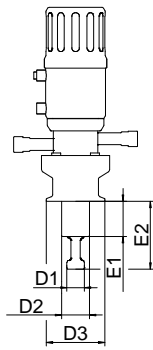


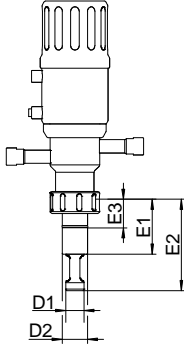
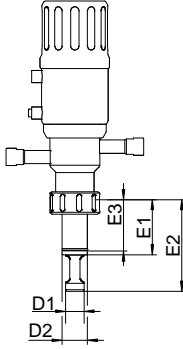
| Sensor filled with liquid with refill connection |        |        |      |
|--|--------|--------|------|
| EXTRACT  | l [mm] | d [mm] | PG   |
| 810M / 820M                                      | 280    | 12     | 13.5 |
| 811M / 821M                                      | 380    | 12     | 13.5 |
| 815M   | 280    | 12     | 13,5 |
| 830M   | 280    | 12     | 13,5 |

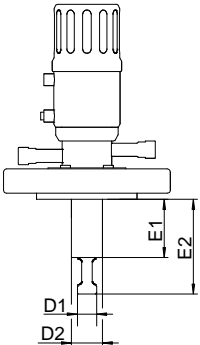
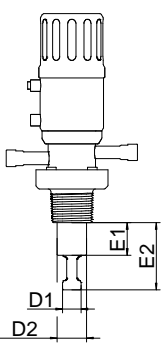
### 3.5 Dimensions

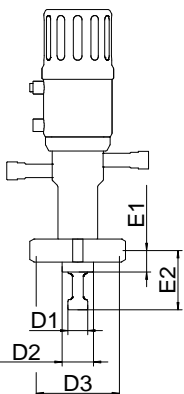
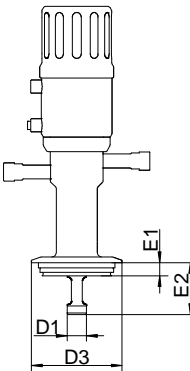
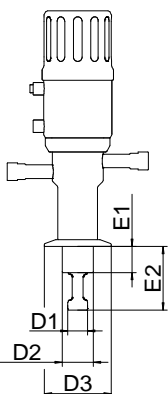
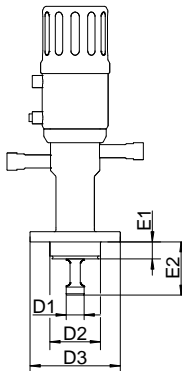
| Holder  |   |      |   |         |  |         |   |  |
|---------|---|------|---|---------|--|---------|---|--|
|         |  |      |  |         |  |         |  |  |
| Dimens. | EXTRACT   |      | EXTRACT   | EXTRACT |  | EXTRACT |   |  |
|         | 810M  | 811M | 815M  | 820M    | 821M   | 830M    |   |  |
| A1 [mm] | 180   | 180  | 196   | 180     | 180  | 238     |   |  |
| A2 [mm] | 350   | 480  | 350   | 350     | 480  | 350     |   |  |
| B [mm]  | 69  | 69   | 69  | 69      | 69   | 69      |   |  |

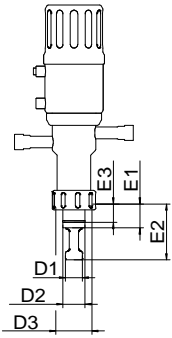
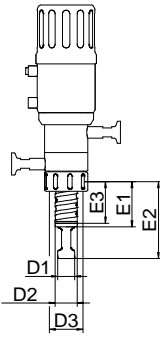
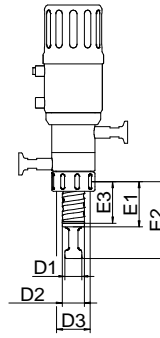
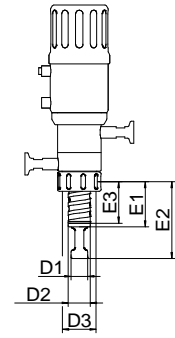


| Process connections EXTRACT 810M/811M |   |      |   |      |  |   |
|---------------------------------------|---|------|---|------|--|---|
|                                       | Flange 4404   |      | Flange HC22   |      | NPT  | TriClamp  |
|                                       |  |      |  |      |  |  |
| Dimens.                               | EXTRACT   |      | EXTRACT   |      | EXTRACT  | EXTRACT   |
|                                       | 810M  | 811M | 810M  | 811M | 810M   | 810M  |
| E1 [mm]                               | 71  | 171  | 66  | 166  | 34   | 39  |
| E2 [mm]                               | 107   | 207  | 102   | 202  | 70   | 75  |
| D1 [mm]                               | 19  | 19   | 19  | 19   | 19   | 19  |
| D2 [mm]                               | 31  | 36   | 31  | 36   | 31   | 31  |
| D3 [mm]                               | -   | -    | -   | -    | -  | 64  |

| Process connections EXTRACT 815M |   |   |
|----------------------------------|---|---|
|                                  | Ingold DN 25  | Ingold DN 25  |
|                                  |  |  |
|                                  | EXTRACT   | EXTRACT   |
| Dimens.                          | 815M  | 815M  |
| E1 [mm]                          | 54  | 54  |
| E2 [mm]                          | 90  | 90  |
| E3 [mm]                          | 28  | 50  |
| D1 [mm]                          | 18  | 18  |
| D2 [mm]                          | 25  | 25  |

| Process connections EXTRACT 820M/821M |   |      |   |      |
|---------------------------------------|---|------|---|------|
|                                       | Flange  |      | NPT   |      |
|                                       |  |      |  |      |
|                                       | EXTRACT   |      | EXTRACT   |      |
| Dimens.                               | 820M  | 821M | 820M  | 821M |
| E1 [mm]                               | 58  | 158  | 29  | -    |
| E2 [mm]                               | 94  | 194  | 65  | -    |
| D1 [mm]                               | 19  | 19   | 19  | -    |
| D2 [mm]                               | 31  | 36   | 30.5  | -    |

| Process connections EXTRACT 830M |   |   |  |    |   |
|----------------------------------|---|---|--|----|---|
|                                  | DIN 11851   | Varivent N  | TriClamp   |    | Neumo BioCon.   |
|                                  |  |  |  |    |  |
| Dimens.                          | DN50  | DN40 - 125  | 1,5"   | 2" | DN50  |
| E1 [mm]                          | 18  | 12,3  | 22   | 25 | 17  |
| E2 [mm]                          | 54  | 48,3  | 58   | 61 | 48  |
| D1 [mm]                          | 19  | 19  | 19   | 19 | 19  |
| D2 [mm]                          | 30  | -   | 30   | 30 | 50  |
| D3 [mm]                          | Rd78 x 1/6"   | 84  | 50,5   | 64 | 89,5  |

| Process connections EXTRACT 830M |   |   |  |   |
|----------------------------------|---|---|--|---|
|                                  | Ingold DN 25  | Ingold HyCIP25  | Ingold HyCIP50   | Ingold HyCIP55  |
|                                  |  |  |  |  |
| Dimens.                          | O-RINGPOS. 28MM   | O-RINGPOS. 25MM   | O-RINGPOS. 50MM  | O-RINGPOS. 25MM   |
| E1 [mm]                          | 34  | 29  | 54   | 59  |
| E2 [mm]                          | 70  | 65  | 90   | 95  |
| E3 [mm]                          | 28  | 25  | 50   | 55  |
| D1 [mm]                          | 19  | 19  | 19   | 19  |
| D2 [mm]                          | 25  | 25  | 25   | 25  |
| D3 [mm]                          | G 1 1/4"  | G 1 1/4"  | G 1 1/4"   | G 1 1/4"  |

### 3.6 Ambient conditions

Ambient temperature - 10 - 70 °C

Transport and storage temperature - 20 - 80 °C

### 3.7 Process conditions EXTRACT 810M/811M/ 815M/ 830M

max. allowed pressure PS: 16 bar

max. allowed temperature TS: 140 °C

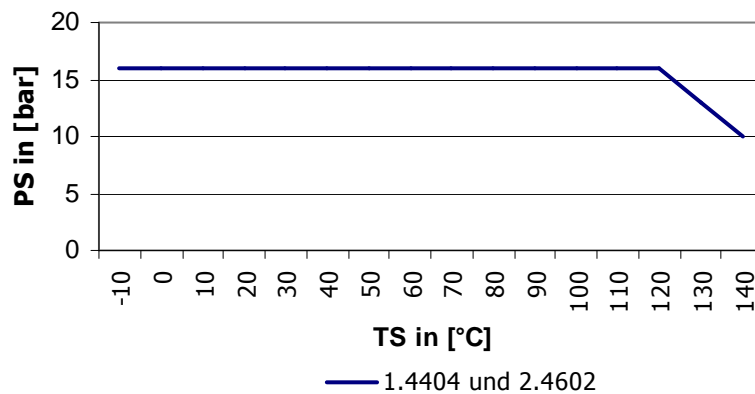


Fig. 1: Pressure temperature diagram EXTRACT 810M/811M 815M/ 830M

### 3.8 Process conditions EXTRACT 820M/821M

max. allowed pressure PS 10 bar

max. allowed temperature TS 140 °C

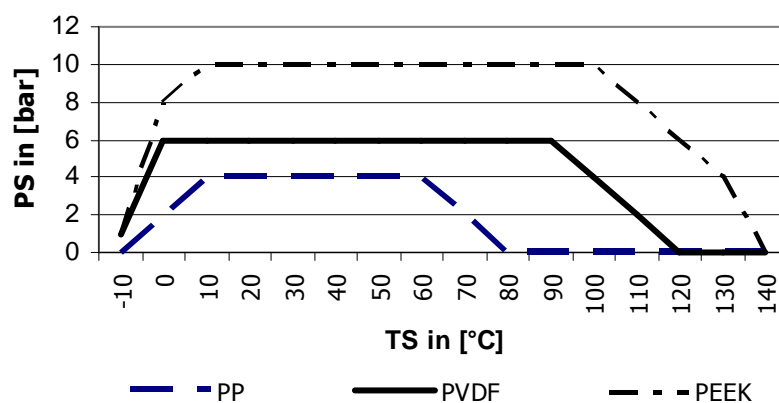


Fig. 2: Pressure temperature diagram EXTRACT 820M/821M

### 3.9 Ordering structure EXTRACT 810M

| Retractable holder EXtract 810M |                   |                                  |   |   |   |   |   |   |             |  |
|---------------------------------|-------------------|----------------------------------|---|---|---|---|---|---|-------------|--|
|                                 | Descr.            | Holder, wetted material          |   |   |   |   |   |   |             |  |
|                                 | 4404              | stainless steel, 1.4404 / 316L   |   |   |   |   |   |   |             |  |
|                                 | HC22              | Alloy C22, 2.4602                |   |   |   |   |   |   |             |  |
|                                 | XXXX              | special design                   |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
|                                 | Descr.            | Seals, wetted material           |   |   |   |   |   |   |             |  |
|                                 | EPD               | EPDM                             |   |   |   |   |   |   |             |  |
|                                 | FPM               | FPM                              |   |   |   |   |   |   |             |  |
|                                 | FKM               | FFKM                             |   |   |   |   |   |   |             |  |
|                                 | XXX               | special design                   |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
|                                 | Descr.            | sensor                           |   |   |   |   |   |   |             |  |
|                                 | 225               | 225mm PG 13.5 filled with gel    |   |   |   |   |   |   |             |  |
|                                 | 280               | 280mm PG 13.5 filled with liquid |   |   |   |   |   |   |             |  |
|                                 | XXX               | special design                   |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
|                                 | Descr.            | Process connection               |   |   |   |   |   |   |             |  |
|                                 | D32               | flange DN32                      |   |   |   |   |   |   |             |  |
|                                 | D40               | flange DN40                      |   |   |   |   |   |   |             |  |
|                                 | D50               | flange DN50                      |   |   |   |   |   |   |             |  |
|                                 | A14               | flange ANSI 1 1/4"               |   |   |   |   |   |   |             |  |
|                                 | A12               | flange ANSI 1 1/2"               |   |   |   |   |   |   |             |  |
|                                 | A20               | flange ANSI 2"                   |   |   |   |   |   |   |             |  |
|                                 | XXX               | special design                   |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
| Descr.                          | Cleaning port     |                                  |   |   |   |   |   |   |             |  |
| G18                             | G 1/8" (female)   |                                  |   |   |   |   |   |   |             |  |
| G14                             | G 1/4" (female)   |                                  |   |   |   |   |   |   |             |  |
| N14                             | NPT 1/4" (female) |                                  |   |   |   |   |   |   |             |  |
| XXX                             | special design    |                                  |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
| Descr.                          | Position reply    |                                  |   |   |   |   |   |   |             |  |
| 00                              | without           |                                  |   |   |   |   |   |   |             |  |
| XX                              | special design    |                                  |   |   |   |   |   |   |             |  |
|                                 |                   |                                  |   |   |   |   |   |   |             |  |
| EXTRACT 810M                    | -                 | -                                | - | - | - | - | - | - | Item number |  |

### 3.10 Ordering structure EXTRACT 811M

| Retractable holder EXtract 811M |                       |                                  |   |   |   |             |
|---------------------------------|-----------------------|----------------------------------|---|---|---|-------------|
|                                 | <b>Descr.</b>         | <b>Holder, wetted material</b>   |   |   |   |             |
|                                 | 4404                  | stainless steel, 1.4404 / 316L   |   |   |   |             |
|                                 | HC22                  | Alloy C22, 2.4602                |   |   |   |             |
|                                 | XXXX                  | special design                   |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
|                                 | <b>Descr</b>          | <b>Seals, wetted material</b>    |   |   |   |             |
|                                 | EPD                   | EPDM                             |   |   |   |             |
|                                 | FPM                   | FPM                              |   |   |   |             |
|                                 | FKM                   | FFKM                             |   |   |   |             |
|                                 | XXX                   | special design                   |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
|                                 | <b>Descr.</b>         | <b>Sensor</b>                    |   |   |   |             |
|                                 | 325                   | 325mm PG 13.5 filled with gel    |   |   |   |             |
|                                 | 380                   | 380mm PG 13.5 filled with liquid |   |   |   |             |
|                                 | XXX                   | special design                   |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
|                                 | <b>Descr.</b>         | <b>Process connection</b>        |   |   |   |             |
|                                 | D40                   | flange DN40                      |   |   |   |             |
|                                 | D50                   | flange DN50                      |   |   |   |             |
|                                 | A12                   | flange ANSI 1 1/2"               |   |   |   |             |
|                                 | A20                   | flange ANSI 2"                   |   |   |   |             |
|                                 | N14                   | NPT M 1 1/4"                     |   |   |   |             |
|                                 | T20                   | Tri Clamp 2"                     |   |   |   |             |
|                                 | XXX                   | special design                   |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
| <b>Descr.</b>                   | <b>Cleaning port</b>  |                                  |   |   |   |             |
| G18                             | G 1/8" (female)       |                                  |   |   |   |             |
| G14                             | G 1/4" (female)       |                                  |   |   |   |             |
| N14                             | NPT 1/4" (female)     |                                  |   |   |   |             |
| XXX                             | special design        |                                  |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
| <b>Descr.</b>                   | <b>Position reply</b> |                                  |   |   |   |             |
| 00                              | without               |                                  |   |   |   |             |
| XX                              | special design        |                                  |   |   |   |             |
|                                 |                       |                                  |   |   |   |             |
| EXTRACT 811M                    |                       | -                                | - | - | - | -           |
|                                 |                       |                                  |   |   |   | Item number |

### 3.11 Ordering structure EXTRACT 815M

| Retractable holder EXtract 815M |              |                                |   |   |   |                    |
|---------------------------------|--------------|--------------------------------|---|---|---|--------------------|
|                                 | <b>Desc.</b> | <b>Holder, wetted material</b> |   |   |   |                    |
|                                 | 4404         | stainless steel, 1.4404 / 316L |   |   |   |                    |
|                                 | HC22         | Alloy C22, 2.4602              |   |   |   |                    |
|                                 | XXXX         | special design                 |   |   |   |                    |
|                                 |              |                                |   |   |   |                    |
|                                 |              | <b>Descr.</b>                  | <b>Seals, wetted material</b>           |   |   |                    |
|                                 |              | EPD                            | EPDM                                    |   |   |                    |
|                                 |              | FPM                            | FPM                                     |   |   |                    |
|                                 |              | FKM                            | FFKM                                    |   |   |                    |
|                                 |              | XXX                            | special design                          |   |   |                    |
|                                 |              |                                |   |   |   |                    |
|                                 |              | <b>Descr.</b>                  | <b>Sensor</b>                           |   |   |                    |
|                                 |              | 225                            | 225mm PG 13,5 filled with gel           |   |   |                    |
|                                 |              | 280                            | 280mm PG 13,5 filled with liquid        |   |   |                    |
|                                 |              | XXX                            | special design                          |   |   |                    |
|                                 |              |                                |   |   |   |                    |
|                                 |              | <b>Descr.</b>                  | <b>Process connection</b>               |   |   |                    |
|                                 |              | IN28                           | Ingold DN25 G1 1/4"<br>O-Ring Pos. 28mm |   |   |                    |
|                                 |              | IN50                           | Ingold DN25 G1 1/4"<br>O-Ring Pos. 50mm |   |   |                    |
|                                 |              | XXX                            | special design                          |   |   |                    |
|                                 |              |                                |   |   |   |                    |
|                                 |              | <b>Descr.</b>                  | <b>Cleaning port</b>                    |   |   |                    |
|                                 |              | G18                            | G 1/8" (female)                         |   |   |                    |
|                                 |              | G14                            | G 1/4" (female)                         |   |   |                    |
|                                 |              | N14                            | NPT 1/4" (female)                       |   |   |                    |
|                                 |              | XXX                            | special design                          |   |   |                    |
|                                 |              |                                |   |   |   |                    |
|                                 |              | <b>Descr.</b>                  | <b>Position reply</b>                   |   |   |                    |
|                                 |              | 00                             | without                                 |   |   |                    |
|                                 |              | XX                             | special design                          |   |   |                    |
|                                 |              |                                |   |   |   |                    |
| <b>EXTRACT 815 M</b>            |              | -                              | -                                       | - | - | <b>Item number</b> |

### 3.12 Ordering structure EXTRACT 820M

| Retractable holder EXTRACT 820M |                |                                  |  |  |  |  |
|---------------------------------|----------------|----------------------------------|--|--|--|--|
|                                 | <b>Descr.</b>  | <b>Holder, wetted material</b>   |  |  |  |  |
|                                 | PP             | PP                               |  |  |  |  |
|                                 | PVDF           | PVDF                             |  |  |  |  |
|                                 | PEEK           | PEEK                             |  |  |  |  |
|                                 | XXXX           | special design                   |  |  |  |  |
|                                 |                |                                  |  |  |  |  |
|                                 | <b>Descr.</b>  | <b>Seals, wetted material</b>    |  |  |  |  |
|                                 | EPD            | EPDM                             |  |  |  |  |
|                                 | FPM            | FPM                              |  |  |  |  |
|                                 | FKM            | FFKM                             |  |  |  |  |
|                                 | XXX            | special design                   |  |  |  |  |
|                                 |                |                                  |  |  |  |  |
|                                 | <b>Descr.</b>  | <b>sensor</b>                    |  |  |  |  |
|                                 | 225            | 225mm PG 13.5 filled with gel    |  |  |  |  |
|                                 | 280            | 280mm PG 13.5 filled with liquid |  |  |  |  |
|                                 | XXX            | special design                   |  |  |  |  |
|                                 |                |                                  |  |  |  |  |
|                                 | <b>Descr.</b>  | <b>process connection</b>        |  |  |  |  |
|                                 | D50            | flange DN50                      |  |  |  |  |
|                                 | A20            | flange ANSI 2"                   |  |  |  |  |
|                                 | N14            | NPT M 1 1/4"                     |  |  |  |  |
|                                 | XXX            | special design                   |  |  |  |  |
|                                 |                |                                  |  |  |  |  |
|                                 | <b>Descr.</b>  | <b>cleaning port</b>             |  |  |  |  |
|                                 | G18            | G 1/8" (female)                  |  |  |  |  |
|                                 | G14            | G 1/4" (female)                  |  |  |  |  |
|                                 | N14            | NPT 1/4" (female)                |  |  |  |  |
| XXX                             | special design |                                  |  |  |  |  |
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### 3.13 Ordering structure EXTRACT 821M

| Retractable holder EXTRACT 821M    |                   |                                  |  |  |  |  |
|------------------------------------|-------------------|----------------------------------|--|--|--|--|
|                                    | Descr.            | Holder, wetted material          |  |  |  |  |
|                                    | PVDF              | PVDF                             |  |  |  |  |
|                                    | PEEK              | PEEK                             |  |  |  |  |
|                                    | XXXX              | special design                   |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
|                                    | Descr             | Seals, wetted material           |  |  |  |  |
|                                    | EPD               | EPDM                             |  |  |  |  |
|                                    | FPM               | FPM                              |  |  |  |  |
|                                    | FKM               | FFKM                             |  |  |  |  |
|                                    | XXX               | special design                   |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
|                                    | Descr.            | Sensor                           |  |  |  |  |
|                                    | 325               | 325mm PG 13.5 filled with gel    |  |  |  |  |
|                                    | 380               | 380mm PG 13.5 filled with liquid |  |  |  |  |
|                                    | XXX               | special design                   |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
|                                    | Descr.            | Process connection               |  |  |  |  |
|                                    | D50               | flange DN50                      |  |  |  |  |
|                                    | A20               | flange ANSI 2"                   |  |  |  |  |
|                                    | N14               | NPT M 1 1/4"                     |  |  |  |  |
|                                    | XXX               | special design                   |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
|                                    | Descr.            | Cleaning port                    |  |  |  |  |
| G18                                | G 1/8" (female)   |                                  |  |  |  |  |
| G14                                | G 1/4" (female)   |                                  |  |  |  |  |
| N14                                | NPT 1/4" (female) |                                  |  |  |  |  |
| XXX                                | special design    |                                  |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
| Descr.                             | Position reply    |                                  |  |  |  |  |
| 00                                 | without           |                                  |  |  |  |  |
| XX                                 | special design    |                                  |  |  |  |  |
|                                    |                   |                                  |  |  |  |  |
| EXTRACT 821M - - - - - Item number |                   |                                  |  |  |  |  |

### 3.14 Ordering structure EXTRACT 830M

| EXTRACT 830M retractable holder |               |   |  |   |   |   |   |   |                    |
|---------------------------------|---------------|---|--|---|---|---|---|---|--------------------|
|                                 | <b>Descr.</b> |   | <b>Holder, wetted material</b>           |   |   |   |   |   |                    |
|                                 | 4404          |   | stainless steel, 1.4404 / 316L           |   |   |   |   |   |                    |
|                                 | XXXX          |   | special design                           |   |   |   |   |   |                    |
|                                 | <b>Descr.</b> |   | <b>Seals, wetted material</b>            |   |   |   |   |   |                    |
|                                 | EPD           |   | EPDM FDA                                 |   |   |   |   |   |                    |
|                                 | FPM           |   | FPM                                      |   |   |   |   |   |                    |
|                                 | XXX           |   | special design                           |   |   |   |   |   |                    |
|                                 | <b>Descr.</b> |   | <b>sensor</b>                            |   |   |   |   |   |                    |
|                                 | 225           |   | 225mm PG 13.5 filled with gel            |   |   |   |   |   |                    |
|                                 | 280           |   | 280mm PG 13.5 filled with liquid         |   |   |   |   |   |                    |
|                                 | XXX           |   | special design                           |   |   |   |   |   |                    |
|                                 | <b>Descr.</b> |   | <b>Process connection</b>                |   |   |   |   |   |                    |
|                                 | IN28          |   | Ingold DN25 (G1 1/4") O-Ring-Pos. 28mm   |   |   |   |   |   |                    |
|                                 | IH25          |   | HyCIP® Ingold (G1 1/4") O-Ring Pos. 25mm |   |   |   |   |   |                    |
|                                 | IH50          |   | HyCIP® Ingold (G1 1/4") O-Ring Pos. 50mm |   |   |   |   |   |                    |
|                                 | IH55          |   | HyCIP® Ingold (G1 1/4") O-Ring Pos. 55mm |   |   |   |   |   |                    |
|                                 | VARN          |   | Varivent N DN40-125                      |   |   |   |   |   |                    |
|                                 | TC15          |   | TriClamp 1,5" (OD Ø50,5mm)               |   |   |   |   |   |                    |
|                                 | TC20          |   | TriClamp 2" (OD Ø64mm)                   |   |   |   |   |   |                    |
|                                 | BCT5          |   | NEUMO BioControl 50                      |   |   |   |   |   |                    |
|                                 | MV50          |   | DIN 11851 DN50 (milk tube)               |   |   |   |   |   |                    |
|                                 | XXXX          |   | Spezial design                           |   |   |   |   |   |                    |
|                                 | <b>Descr.</b> |   | <b>Cleaning port</b>                     |   |   |   |   |   |                    |
|                                 | G18           |   | G 1/8" (female)                          |   |   |   |   |   |                    |
|                                 | G14           |   | G 1/4" (female)                          |   |   |   |   |   |                    |
|                                 | N14           |   | NPT 1/4" (female)                        |   |   |   |   |   |                    |
|                                 | XXX           |   | special design                           |   |   |   |   |   |                    |
|                                 | <b>Descr.</b> |   | <b>Position reply</b>                    |   |   |   |   |   |                    |
|                                 | 00            |   | without                                  |   |   |   |   |   |                    |
|                                 | XX            |   | special design                           |   |   |   |   |   |                    |
| <b>EXTRACT 830M</b>             |               | - | -  | - | - | - | - | - | <b>Item number</b> |

## 4 Parts and accessories

| Seal kits                            |                   |              |
|--------------------------------------|-------------------|--------------|
| EXTRACT                              | Part              | Item number  |
| 810M / 820M                          | Seal kit EPDM     | 2-123-40-001 |
|                                      | Seal kit FPM      | 2-123-41-001 |
|                                      | Seal kit FFKM     | 2-123-42-001 |
| 811M / 821M                          | Seal kit EPDM     | 2-123-40-002 |
|                                      | Seal kit FPM      | 2-123-41-002 |
|                                      | Seal kit FFKM     | 2-123-42-002 |
| 815M                                 | Seal kit EPDM     | 2-123-40-012 |
|                                      | Seal kit FPM      | 2-123-41-012 |
|                                      | Seal kit FFKM     | 2-123-42-012 |
| 830M IN28                            | Seal kit EPDM FDA | 2-123-40-003 |
|                                      | Seal kit FPM      | 2-123-41-003 |
| 830M HyCiP®                          | Seal kit EPDM FDA | 2-123-40-004 |
|                                      | Seal kit FPM      | 2-123-41-004 |
| 830M TC15/TC20 + MV50<br>VARN / BCT5 | Seal kit EPDM FDA | 2-123-40-005 |
|                                      | Seal kit FPM      | 2-123-41-005 |



Please state serial number of your holder when ordering parts and accessories.

| Drive unit with pneumatic position reply |                                      |              |
|--|--------------------------------------|--------------|
| EXTRACT                                  | Part                                 | Item number  |
| 810M/811M / 815M<br>820M/821M / 830M     | Drive unit for sensor L = 225/325 mm | 2-075-03-005 |
| 810M/811M / 815M<br>820M/821M / 830M     | Drive unit for sensor L = 280/380 mm | 2-075-03-006 |



Drive units are available for order only in conjunction with an insertion rod!

| Insertion rods |                                  |              |
|----------------|----------------------------------|--------------|
| EXTRACT        | Part                             | Item number  |
| 810M           | Insertion rod 1.4404 / 316L      | 2-061-33-004 |
|                | Insertion rod 2.4602 / Alloy C22 | 2-061-34-004 |
| 811M           | Insertion rod 1.4404 / 316L      | 2-061-33-005 |
|                | Insertion rod 2.4602 / Alloy C22 | 2-061-34-005 |
| 815M           | Insertion rod 1.4404 / 316L      | 2-061-33-006 |
|                | Insertion rod 2.4602 / Alloy C22 | 2-061-34-006 |
| 820M           | Insertion rod PP                 | 2-061-22-004 |
|                | Insertion rod PVDF / Alloy C22   | 2-061-23-004 |
|                | Insertion rod PEEK               | 2-061-29-004 |
| 821M           | Insertion rod PVDF / Alloy C22   | 2-061-23-005 |
|                | Insertion rod PEEK               | 2-061-29-005 |
| 830M           | Insertion rod 1.4404 / 316L      | 2-061-33-004 |

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Please state serial number of your holder when ordering parts and accessories.







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