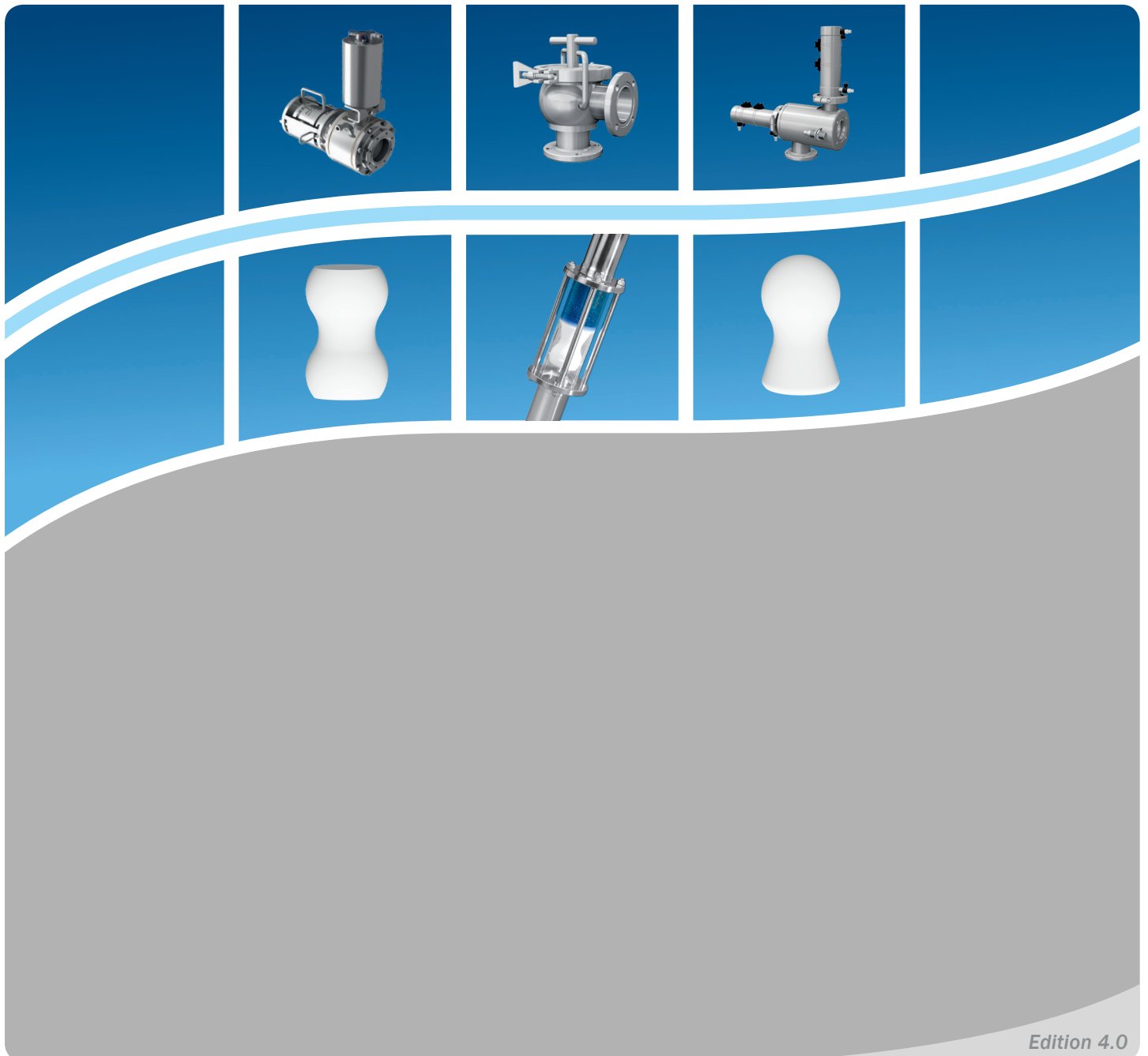


# Product Recovery Technology





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\* An asterisk in the pricing column means: on request

## Introduction

### AWH Product Recovery Technology

AWH production is always in accordance with state-of-the-art technology. The machine outfit stands for precision, innovation and cost optimization. This is reflected in our products. Product recovery technology is an example of this. After all this is the technology that stands for efficiency, optimization and flexibility like no other. Savings potentials of 30% and more often can be realized.

This can be seen directly in

- increased product yield
- shortest downtimes
- enhanced utilization and capacity
- high flexibility
- minimal cleaning requirements

The use of product recovery technology should therefore always be taken into consideration during facility planning. An investment pays for itself within a very short time. Existing facilities can be supplemented in many cases with product recovery technology.

AWH itself is not engaged in plant construction. This allows our partners, namely plant constructors, to discuss their projects openly with us at any time. The experience gained thereby is incorporated directly into the development. We are able to implement a wide variety of concepts with great flexibility, thanks to our custom manufacturing. As a partner you can rely on us. Achieving success together in our respective areas of expertise.

Simply get in touch! We would be happy to help you.

## Technology

### **Pigging is a displacement technology.**

An accurately fitted body, the pig, travels through the pipe and pushes the content in front of it. The necessary forward thrust is provided by external power. Gases (compressed air, nitrogen, etc.) or liquids (water, cleaning media, etc.) or even a subsequent product can be used as the drive medium. All pumpable media is also piggable.

Utilization is in the area of the

- food and beverage industry
- cosmetic industry
- chemical industry
- pharmaceutical industry

The main application of product recovery technology is to be found in the emptying of a pipe system. This yields a wide array of advantages. The product is practically 100% usable. Cleaning costs are considerably reduced as a direct result. This is because residual product need not first be rinsed out of the pipeline at great effort and expenditure of time.

As is the case with products, cleaning agents can rapidly removed again from the system. This reduces downtimes and the expulsion of wastewater to a minimum. The facility is again ready for operation in a very short time. In addition, the product recovery technology offers reliable media separation. Subsequent products can thus be transferred without mixing zones.

The process is a form of mechanical pipe cleaning. An overgrowth of pipe systems is reliably prevented. The efficiency of the plant is guaranteed on a continuous basis and the service life is extended. Direct emptying of systems makes it possible to dispense with trace heating and greater flexibility exists in terms of pipe geometry.

**The pig is an elastic, solid body that must provide reliable sealing in the pipe for functional purposes.**

### Pipe

As a basic rule, the pipeline must exhibit the same, circular diameter along the entire pigging section.

- internal diameter tolerance:  $\pm 0.5 \%$  nominal diameter
- ovality tolerance:  $\pm 0.5 \%$  nominal diameter

Pipes with longitudinal welds with seam smoothing and an internal roughness of  $R_a < 0.8$  ( $R_a < 1.6$  in the area of the weld seam) are to be used. Pipe in accordance with DIN EN 10357, DIN 11866, DIN 2430 is suitable.

### Pipe connections

All detachable and non-detachable pipe connections must be implemented without offsets along the entire pigging section.

- Tolerance offset:  $\pm 0.2 \text{ mm}$

Screw connections, flange connections or clamp connections in accordance with DIN 11864 or DIN 2430 are to be used.

Weld seams should be orbital-welded wherever possible. Manually welded seams are permissible and their performance should be professional and of high quality.

- Permissible sag of weld seams (reinforcement):  $0.5 \text{ mm}$

### Pipe bends

The pigging design and the bending radius of pipe bends have reciprocal effects on each other.

- AWH tangent pig: minimum bending radius  $R_{\min} = 1 \dots 1.5D$  (BA2/3, DIN 2605)
- AWH lip pig: minimum bending radius  $R_{\min} = 2.5D$  (BA5, DIN 2605)

### Branches

The pig sealing must be ensured when t-branches are passed through. The use of product recovery technology requires specially designed t-pieces. These are equipped with a guide on the branch. The pig is kept reliably on its path, does not fall into a downward-directed outlet and cannot become jammed.

- AWH tangent pig: Nominal width of outlet = nominal width of pipe
- AWH lip pig: Nominal width of outlet = one nominal width less than the nominal width of the pipe

## Project Questionnaire - Product Recovery Technology

return to: Armaturenwerk Hötensleben GmbH · Schulstr. 5 - 6 · 39393 Hötensleben, Germany · Fax: +49 39405 92-111, E-Mail: info@awh.eu

Date: \_\_\_\_\_

Project designation: \_\_\_\_\_

Contact person: \_\_\_\_\_

Company: \_\_\_\_\_

Street: \_\_\_\_\_

City / ZIP code: \_\_\_\_\_

Tel / Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Line of business: \_\_\_\_\_

- |                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Food/beverage     | <input type="checkbox"/> Cosmetics industry      |
| <input type="checkbox"/> Chemical industry | <input type="checkbox"/> Pharmaceutical industry |
| <input type="checkbox"/> other             |                                                  |

Pipe system: \_\_\_\_\_

- |                                     |      |                                        |      |                  |    |
|-------------------------------------|------|----------------------------------------|------|------------------|----|
| Pipeline length:                    | m    | Height difference:                     | m    |                  |    |
| Nominal width:                      |      | Pipe norm/standard:                    |      |                  |    |
| Outside diameter:                   | mm   | Wall thickness:                        | mm   | Inside diameter: | mm |
| Product inlets:                     | Item | Product outlets:                       | Item |                  |    |
| <input type="checkbox"/> new        |      | <input type="checkbox"/> existing      |      |                  |    |
| <input type="checkbox"/> insulation |      | <input type="checkbox"/> trace heating |      |                  |    |

Operating and process parameters: \_\_\_\_\_

- |                                     |                                    |                                                 |                                  |       |    |
|-------------------------------------|------------------------------------|-------------------------------------------------|----------------------------------|-------|----|
| Pressure:                           | bar to                             | bar                                             | Temperature:                     | °C to | °C |
| Capacity/turnover:                  | m <sup>3</sup> /h to               | m <sup>3</sup> /h                               |                                  |       |    |
| Hygiene standard:                   | <input type="checkbox"/> flushable | <input type="checkbox"/> completely CIP-capable | <input type="checkbox"/> aseptic |       |    |
| Ambient temperature:                |                                    |                                                 |                                  |       |    |
| Cleaning agent:                     |                                    |                                                 |                                  |       |    |
| Temperature of the cleaning medium: |                                    | °C                                              |                                  |       |    |
| Duration of the cleaning:           |                                    | min                                             |                                  |       |    |

## Project Questionnaire - Product Recovery Technology

### Product:

|                                                             |                                            |                                            |           |
|-------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-----------|
| Type/Division:                                              |                                            |                                            |           |
| Density:                                                    | kg/m <sup>3</sup>                          | Viscosity:                                 | mPas (cP) |
| <input type="checkbox"/> Containing particles/fibrous/lumpy | (Particle size:                            | mm x                                       | mm)       |
| Sliding properties:                                         | <input type="checkbox"/> supportive effect | <input type="checkbox"/> inhibiting effect |           |
| <input type="checkbox"/> toxic                              | <input type="checkbox"/> flammable         | <input type="checkbox"/> hazardous         |           |
| Special features/remarks:                                   |                                            |                                            |           |
|                                                             |                                            |                                            |           |
|                                                             |                                            |                                            |           |

### Requirements:

|                                                        |                                                                   |
|--------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> Product ejection              | <input type="checkbox"/> Product separation                       |
| <input type="checkbox"/> Manual actuation              | <input type="checkbox"/> Automatic actuation                      |
| <input type="checkbox"/> One-way operation             | <input type="checkbox"/> Shuttle operation                        |
| <input type="checkbox"/> Electronically controlled     | <input type="checkbox"/> Integration in process management system |
| Drive medium: <input type="checkbox"/> gaseous (.....) |                                                                   |
| <input type="checkbox"/> liquid (.....)                |                                                                   |

### ATEX:

|                          |             |       |
|--------------------------|-------------|-------|
| Area:                    | Atmosphere: | Zone: |
| inside                   | Gas         | ..... |
| outside                  | Gas         | ..... |
|                          | Dust        | ..... |
| Temperature class: ..... |             |       |

### Enhanced requirements/Certificates/Regulations:

|  |
|--|
|  |
|  |
|  |

### Comments:

|  |
|--|
|  |
|  |
|  |

### **A special distinction exists between liquid and gaseous drive media.**

Gases can be compressed. The pig run is influenced by this behavior. A constant pressure can lead to high pig accelerations and speeds. Similarly, different conditions in the pipe system will lead to non-harmonious pig movement. This could lead to temporary standstills and subsequent strong accelerations.

#### Prerequisites for constant pigging process with gaseous propellants:

- sufficient volumetric supply
- regulation of the volume flow rate

#### Dry running of the pig through the pipe system is not permitted.

The pig is subjected to severe strain from friction by the sealing and by its movement in and through the pipeline. During operation, media reduce the friction between pig and pipe and acts as a lubricating film. If this support is absent, the pig will be exposed to a greater amount of wear or will be destroyed by friction heat.

### Safety

The active principle of the pigging is in connection with energies in the form of pressing and the accelerated masses that result from it. This results in risks, not only for plants but also for personnel.

In order to minimize risks for plants or plant components, the following always applies:

- maximum permissible pig speed: 1.5 m/s
- maximum permissible pig acceleration: 1 m/s<sup>2</sup>

In order to minimize risks for personnel, the following always applies:

- open pipe ends from which the pig can freely exit are not permitted
- the pig can be manipulated only in a pressure-compensated state
- the necessary technical provisions for pig location and safeguarding must be present
- manual access to the pipe system or to fittings must be prevented during the pigging process by suitable measures

When used properly and in compliance with the operating and safety regulations, AWH pigs and (pig) fittings are safe. The fittings should be installed only in designated systems and operated only by qualified, specialist personnel.

For accelerated project processing, please fill out the questionnaire and send it back to us. Supplementary materials in the form of sketches and/or a product data sheet make it possible for us to propose a suitable concept in a short time.

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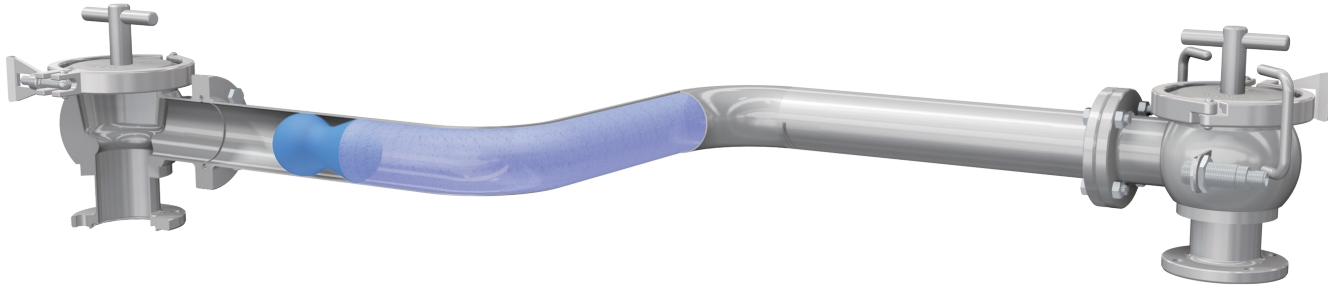
Date

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Signature

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

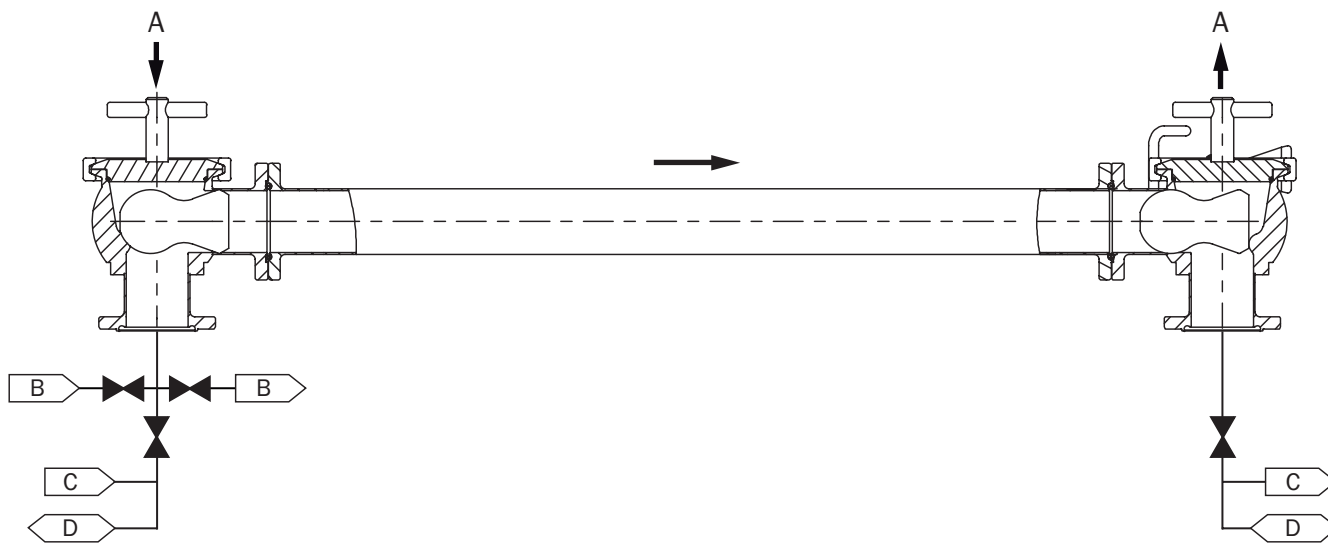
## Manual Product Recovery System



### Properties

- Components:** sending and receiving station
- Features:** safe, simple and inexpensive introduction to pushing out product  
hygienic design for simple cleaning capability  
including holders for pig sensors
- Actuation:** insertion and removal of the pig by hand
- Accessories:** supply fittings, driver controller, load removal cyclone, tangent pig, lip pig, sensors (not included in scope of delivery)

### Flow Chart

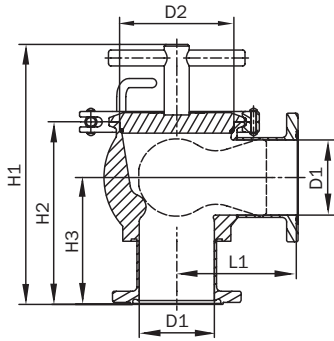


- A** Pig
- B** Drive medium
- C** Product
- D** Cleaning/CIP

### Technical Parameters

- Materials:** 1.4404 (316L) (contact with product), 1.4301 (304)
- Pressure stage:** PN 10, others on request
- Seals:** EPDM, others on request
- Installation orientation:** horizontal preferred
- Connections:** flange connection according to DIN 11864, others on request

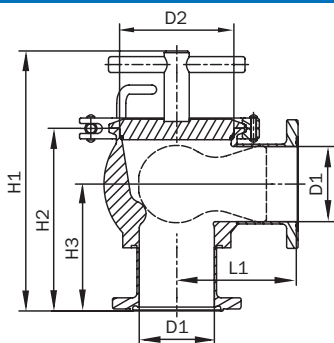
# Manual Product Recovery System



for pipe DIN EN 10357, Series A

## Sending/Receiving Station Series A

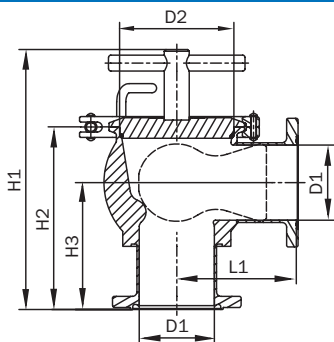
| DN DIN | D1  | D2    | H1  | H2  | H3    | L1  | Weight [kg] | Price/EUR | Article No.     |
|--------|-----|-------|-----|-----|-------|-----|-------------|-----------|-----------------|
| 25     | 26  | 44.5  | 145 | 100 | 66.5  | 64  | 2.0         | 546,70    | 6807 0005 002/1 |
| 40     | 38  | 66.5  | 172 | 114 | 78.5  | 80  | 3.5         | 611,60    | 6807 0007 002/1 |
| 50     | 50  | 81.5  | 190 | 132 | 89.5  | 88  | 5.5         | 684,80    | 6807 0008 002/1 |
| 65     | 66  | 100.5 | 229 | 161 | 111.5 | 105 | 8.0         | 831,40    | 6807 0009 002/1 |
| 80     | 81  | 125.5 | 256 | 182 | 116.5 | 126 | 15.0        | 981,10    | 6807 0010 002/1 |
| 100    | 100 | 150.5 | 282 | 208 | 127.5 | 141 | 24.5        | 1195,60   | 6807 0012 002/1 |
|        |     |       |     |     |       |     |             |           |                 |
|        |     |       |     |     |       |     |             |           |                 |
|        |     |       |     |     |       |     |             |           |                 |
|        |     |       |     |     |       |     |             |           |                 |



for pipe DIN EN 10357, Series D

## Sending/Receiving Station Series D

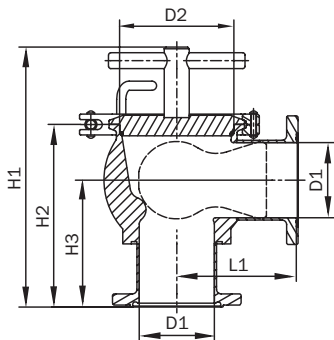
| DN Inch | D1    | D2    | H1  | H2  | H3    | L1    | Weight [kg] | Price/EUR | Article No.     |
|---------|-------|-------|-----|-----|-------|-------|-------------|-----------|-----------------|
| 1"      | 22.1  | 44.5  | 145 | 100 | 67.5  | 64.5  | 2.0         | 551,80    | 6807 0054 002/1 |
| 1 1/2"  | 34.8  | 66.5  | 172 | 114 | 78.5  | 80.5  | 3.5         | 619,40    | 6807 0057 002/1 |
| 2"      | 47.5  | 81.5  | 190 | 132 | 89.5  | 88.5  | 5.0         | 694,80    | 6807 0058 002/1 |
| 2 1/2"  | 60.2  | 100.5 | 229 | 161 | 111.5 | 107   | 8.0         | 849,30    | 6807 0059 002/1 |
| 3"      | 72.9  | 125.5 | 254 | 180 | 114.5 | 126.5 | 15.0        | 1001,60   | 6807 0060 002/1 |
| 4"      | 97.38 | 150.5 | 282 | 208 | 127.5 | 141.5 | 24.5        | 1215,70   | 6807 0062 002/1 |
|         |       |       |     |     |       |       |             |           |                 |
|         |       |       |     |     |       |       |             |           |                 |
|         |       |       |     |     |       |       |             |           |                 |
|         |       |       |     |     |       |       |             |           |                 |



for pipe DIN EN 10357, Series C

## Sending/Receiving Station Series C

| DN ISO | D1    | D2    | H1  | H2  | H3    | L1    | Weight [kg] | Price/EUR | Article No.     |
|--------|-------|-------|-----|-----|-------|-------|-------------|-----------|-----------------|
| 33.7   | 29.7  | 44.5  | 150 | 105 | 72.5  | 62.5  | 2.0         | 553,30    | 6807 0079 002/1 |
| 48.3   | 44.3  | 81.5  | 180 | 122 | 83.5  | 87.5  | 4.5         | 621,70    | 6807 0081 002/1 |
| 60.3   | 56.3  | 100.5 | 228 | 154 | 104.5 | 106   | 7.0         | 702,20    | 6807 0082 002/1 |
| 76.1   | 72.1  | 100.5 | 244 | 169 | 116.5 | 108.5 | 9.0         | 854,30    | 6807 0083 002/1 |
| 88.9   | 84.3  | 125.5 | 256 | 182 | 116.5 | 125   | 14.5        | 1011,90   | 6807 0084 002/1 |
| 114.3  | 109.7 | 150.5 | 285 | 211 | 130.5 | 137.5 | 22.0        | 1235,40   | 6807 0085 002/1 |
|        |       |       |     |     |       |       |             |           |                 |
|        |       |       |     |     |       |       |             |           |                 |
|        |       |       |     |     |       |       |             |           |                 |
|        |       |       |     |     |       |       |             |           |                 |



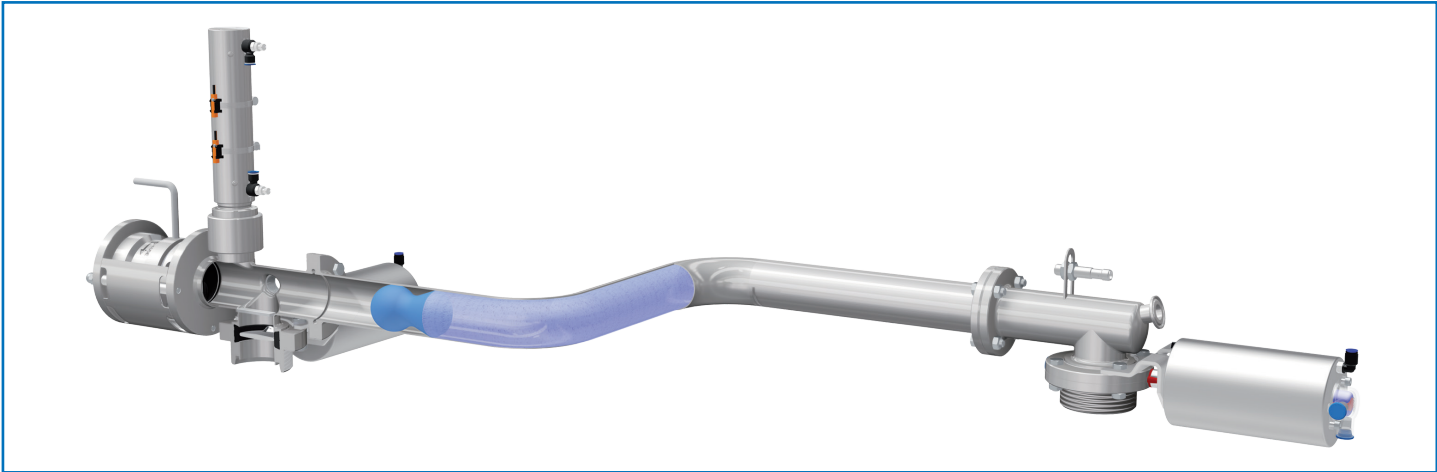
for pipe DIN EN 10357, Series D

## Sending/Receiving Station Series D

| DN SMS | D1   | D2    | H1  | H2  | H3    | L1    | Weight [kg] | Price/EUR | Article No.     |
|--------|------|-------|-----|-----|-------|-------|-------------|-----------|-----------------|
| 25     | 22.5 | 44.5  | 145 | 100 | 67.5  | 64.5  | 2.0         | 551,80    | 6807 0091 002/1 |
| 38     | 35.5 | 66.5  | 172 | 114 | 78.5  | 80.5  | 3.5         | 619,40    | 6807 0092 002/1 |
| 51     | 48.5 | 81.5  | 190 | 132 | 89.5  | 88.5  | 5.0         | 694,80    | 6807 0093 002/1 |
| 63.5   | 60.5 | 100.5 | 235 | 161 | 111.5 | 107   | 8.0         | 849,30    | 6807 0094 002/1 |
| 76.1   | 72.9 | 125.5 | 254 | 180 | 114.5 | 126.5 | 15.0        | 1001,60   | 6807 0095 002/1 |
|        |      |       |     |     |       |       |             |           |                 |
|        |      |       |     |     |       |       |             |           |                 |
|        |      |       |     |     |       |       |             |           |                 |
|        |      |       |     |     |       |       |             |           |                 |
|        |      |       |     |     |       |       |             |           |                 |

Also available in DIN 2430. Please inquire.

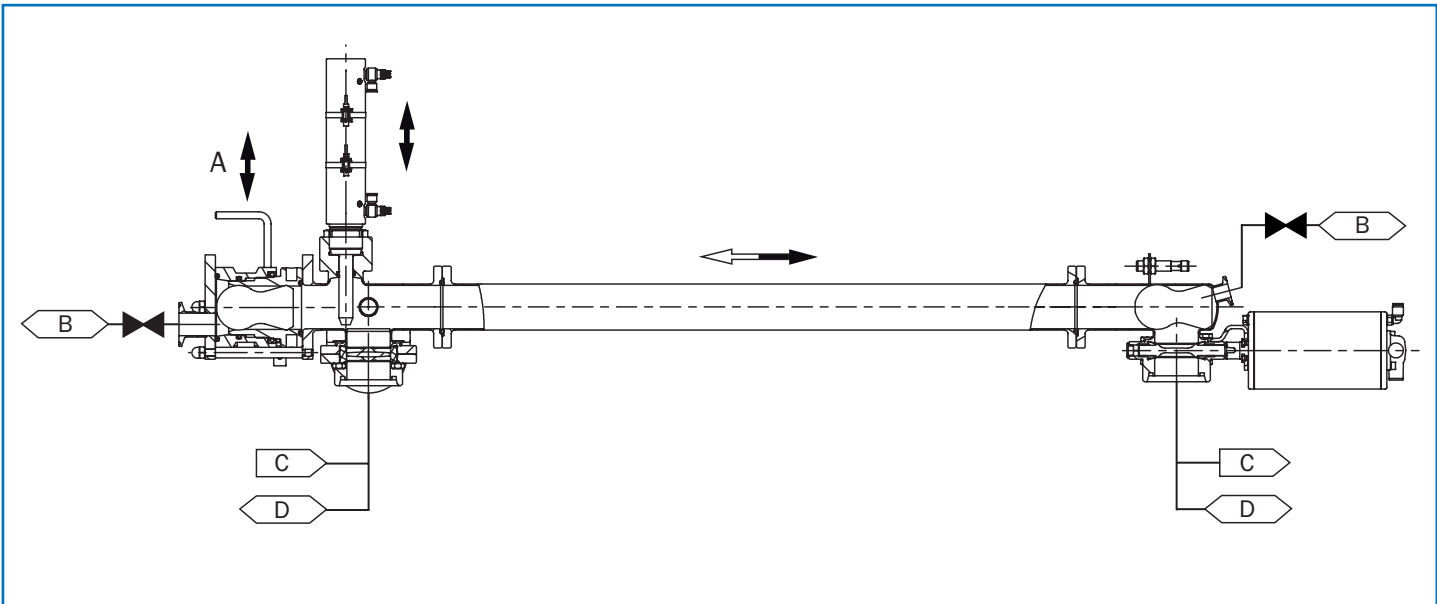
## Automated Product Recovery System



### Properties

|                     |                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>  | plug-in chamber and end chamber                                                                                            |
| <b>Features:</b>    | safe, automatic system for pushing out product<br>integrated pig lock or separation from product pipe                      |
| <b>Actuation:</b>   | automatic, shuttle operation                                                                                               |
| <b>Accessories:</b> | supply fittings, drive controller, load removal cyclone, tangent pig, lip pig, sensors (not included in scope of delivery) |

### Flow Chart

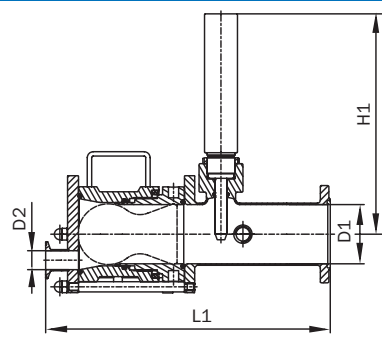


- A** Pig
- B** Drive medium
- C** Product
- D** Cleaning/CIP

### Technical Parameters

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| <b>Materials:</b>                | 1.4404 (316L) (contact with product), 1.4301 (304)          |
| <b>Pressure stage:</b>           | PN10, others on request                                     |
| <b>Seals:</b>                    | EPDM, others on request                                     |
| <b>Installation orientation:</b> | horizontal, vertical                                        |
| <b>Connections:</b>              | flange connection according to DIN 11864, others on request |

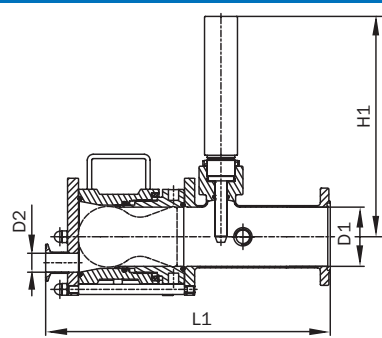
# Automated Product Recovery System



for pipe DIN EN 10357, Series A

## Plug-in Chamber with Stopper Series A

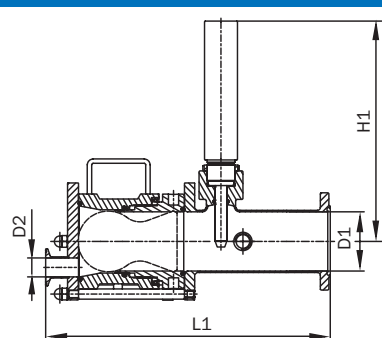
| DN DIN | D1  | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|----|-----|-----|-------------|--------------------|-----------------|
|        |     |    |     |     |             | Price/EUR          | Article No.     |
| 25     | 26  | 16 | 250 | 278 | 5.5         | 2049,40            | 6805 0005 002/1 |
| 40     | 38  | 16 | 280 | 281 | 7.0         | 2332,50            | 6805 0007 002/1 |
| 50     | 50  | 26 | 305 | 288 | 9.5         | 2646,00            | 6805 0008 002/1 |
| 65     | 66  | 26 | 340 | 290 | 14.0        | 2945,45            | 6805 0009 002/1 |
| 80     | 81  | 26 | 390 | 293 | 15.5        | 3322,90            | 6805 0010 002/1 |
| 100    | 100 | 26 | 460 | 295 | 21.0        | 3686,30            | 6805 0012 002/1 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |



for pipe DIN EN 10357, Series D

## Plug-in Chamber with Stopper Series D

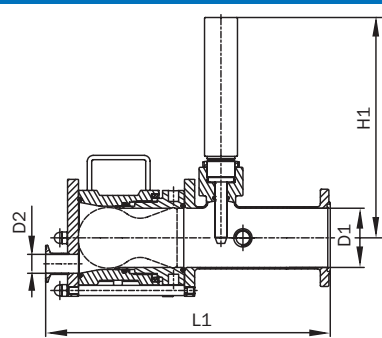
| DN Inch | D1    | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|----|-----|-----|-------------|--------------------|-----------------|
|         |       |    |     |     |             | Price/EUR          | Article No.     |
| 1"      | 22.1  | 16 | 245 | 276 | 5.4         | 2051,00            | 6805 0054 002/1 |
| 1 1/2"  | 34.8  | 16 | 275 | 280 | 7.0         | 2334,20            | 6805 0057 002/1 |
| 2"      | 47.5  | 26 | 305 | 287 | 9.5         | 2647,90            | 6805 0058 002/1 |
| 2 1/2"  | 60.2  | 26 | 330 | 288 | 14.0        | 2954,05            | 6805 0059 002/1 |
| 3"      | 72.9  | 26 | 380 | 289 | 15.5        | 3338,20            | 6805 0060 002/1 |
| 4"      | 97.38 | 26 | 460 | 294 | 21.0        | 3690,90            | 6805 0062 002/1 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |



for pipe DIN EN 10357, Series C

## Plug-in Chamber with Stopper Series C

| DN ISO | D1    | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-------|----|-----|-----|-------------|--------------------|-----------------|
|        |       |    |     |     |             | Price/EUR          | Article No.     |
| 33.7   | 29.7  | 16 | 260 | 280 | 6.5         | 2331,20            | 6805 0079 002/1 |
| 48.3   | 44.3  | 26 | 300 | 285 | 8.0         | 2648,50            | 6805 0081 002/1 |
| 60.3   | 56.3  | 26 | 325 | 292 | 12.0        | 2948,40            | 6805 0082 002/1 |
| 76.1   | 72.1  | 26 | 385 | 294 | 15.5        | 3325,75            | 6805 0083 002/1 |
| 88.9   | 84.3  | 26 | 400 | 295 | 18.0        | 3682,90            | 6805 0084 002/1 |
| 114.3  | 109.7 | 26 | 420 | 300 | 22.5        | 4055,00            | 6805 0085 002/1 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |

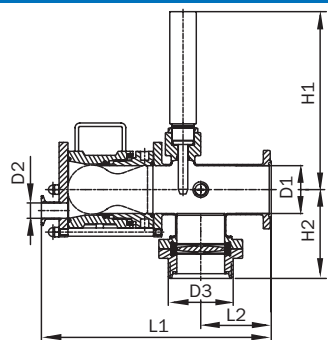


for pipe DIN EN 10357, Series D

## Plug-in Chamber with Stopper Series D

| DN SMS | D1   | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|------|----|-----|-----|-------------|--------------------|-----------------|
|        |      |    |     |     |             | Price/EUR          | Article No.     |
| 25     | 22.5 | 16 | 243 | 276 | 5.5         | 2061,00            | 6805 0091 002/1 |
| 38     | 35.5 | 16 | 274 | 280 | 7.0         | 2334,20            | 6805 0092 002/1 |
| 51     | 48.5 | 26 | 303 | 287 | 9.5         | 2647,90            | 6805 0093 002/1 |
| 63.5   | 60.5 | 26 | 328 | 288 | 14.0        | 2956,00            | 6805 0094 002/1 |
| 76.1   | 72.9 | 26 | 378 | 289 | 15.5        | 3340,80            | 6805 0095 002/1 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |

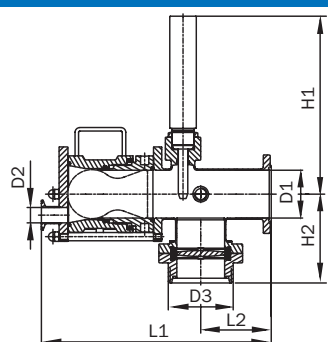
Also available in DIN 2430. Please inquire.



for pipe DIN EN 10357, Series A

## Plug-in Chamber with Stopper and Butterfly Valve Series A

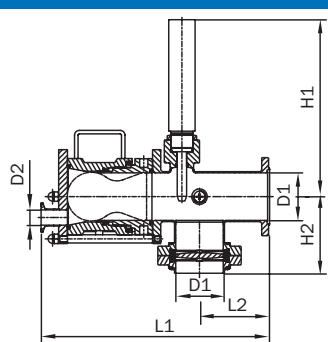
| DN DIN | D1  | D2 | D3            | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|----|---------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |     |    |               |     |     |     |     |             | Price/EUR          | Article No.     |
| 25     | 26  | 16 | Rd 52 x 1/6"  | 250 | 75  | 278 | 68  | 9.5         | 2465,22            | 6855 0005 002/1 |
| 40     | 38  | 16 | Rd 65 x 1/6"  | 280 | 85  | 281 | 83  | 11.0        | 2792,22            | 6855 0007 002/1 |
| 50     | 50  | 26 | Rd 78 x 1/6"  | 305 | 90  | 288 | 91  | 14.0        | 3142,40            | 6855 0008 002/1 |
| 65     | 66  | 26 | Rd 95 x 1/6"  | 340 | 100 | 290 | 126 | 19.0        | 3497,80            | 6855 0009 002/1 |
| 80     | 81  | 26 | Rd 110 x 1/4" | 390 | 120 | 293 | 149 | 22.0        | 3985,25            | 6855 0010 002/1 |
| 100    | 100 | 26 | Rd 130 x 1/4" | 460 | 155 | 295 | 165 | 28.5        | 4497,95            | 6855 0012 002/1 |



for pipe DIN EN 10357, Series D

## Plug-in Chamber with Stopper and Butterfly Valve Series D

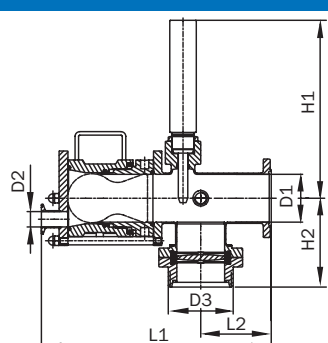
| DN Inch | D1    | D2 | D3            | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|----|---------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|         |       |    |               |     |     |     |     |             | Price/EUR          | Article No.     |
| 1"      | 22.1  | 16 | Rd 52 x 1/6"  | 245 | 70  | 276 | 66  | 9.5         | 2466,82            | 6855 0054 002/1 |
| 1 1/2"  | 34.8  | 16 | Rd 65 x 1/6"  | 275 | 85  | 280 | 82  | 11.0        | 2793,92            | 6855 0057 002/1 |
| 2"      | 47.5  | 26 | Rd 78 x 1/6"  | 305 | 90  | 287 | 94  | 13.5        | 3144,30            | 6855 0058 002/1 |
| 2 1/2"  | 60.2  | 26 | Rd 95 x 1/6"  | 335 | 105 | 288 | 123 | 19.0        | 3506,40            | 6855 0059 002/1 |
| 3"      | 72.9  | 26 | Rd 104 x 1/6" | 380 | 115 | 289 | 146 | 22.0        | 4005,55            | 6855 0060 002/1 |
| 4"      | 97.36 | 26 | Rd 130 x 1/4" | 460 | 155 | 294 | 164 | 28.5        | 4502,67            | 6855 0062 002/1 |



for pipe DIN EN 10357, Series C

## Plug-in Chamber with Stopper and Butterfly Valve Series C

| DN ISO | D1    | D2 | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-------|----|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |       |    |     |     |     |     |             | Price/EUR          | Article No.     |
| 33.7   | 29.7  | 16 | 260 | 70  | 280 | 70  | 10.0        | 2774,22            | 6855 0079 002/1 |
| 48.3   | 44.3  | 26 | 300 | 75  | 285 | 86  | 12.0        | 3157,40            | 6855 0081 002/1 |
| 60.3   | 56.3  | 26 | 325 | 85  | 292 | 95  | 16.0        | 3486,80            | 6855 0082 002/1 |
| 76.1   | 72.1  | 26 | 385 | 95  | 294 | 129 | 20.0        | 3947,25            | 6855 0083 002/1 |
| 88.9   | 84.3  | 26 | 400 | 120 | 295 | 150 | 24.5        | 4436,65            | 6855 0084 002/1 |
| 114.3  | 109.7 | 26 | 405 | 125 | 300 | 170 | 30.0        | 4556,95            | 6855 0085 002/1 |



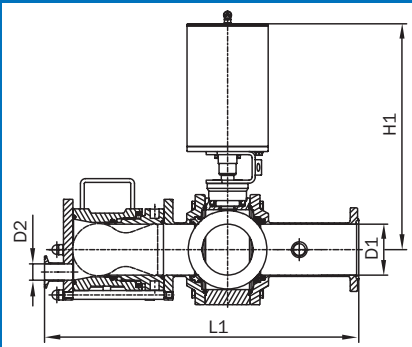
for pipe DIN EN 10357, Series D

## Plug-in Chamber with Stopper and Butterfly Valve Series D

| DN SMS | D1   | D2 | D3           | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|------|----|--------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |      |    |              |     |     |     |     |             | Price/EUR          | Article No.     |
| 25     | 22.5 | 16 | Rd 40 x 1/6" | 245 | 70  | 276 | 66  | 9.5         | 2468,10            | 6855 0091 002/1 |
| 38     | 35.5 | 16 | Rd 60 x 1/6" | 275 | 85  | 280 | 82  | 11.0        | 2795,65            | 6855 0092 002/1 |
| 51     | 48.5 | 26 | Rd 70 x 1/6" | 305 | 90  | 287 | 94  | 13.5        | 3147,58            | 6855 0093 002/1 |
| 63.5   | 60.5 | 26 | Rd 85 x 1/6" | 330 | 105 | 288 | 123 | 18.5        | 3503,38            | 6855 0094 002/1 |
| 76.1   | 72.9 | 26 | Rd 98 x 1/6" | 380 | 115 | 289 | 146 | 22.0        | 4003,25            | 6855 0095 002/1 |

Also available in DIN 2430. Please inquire.

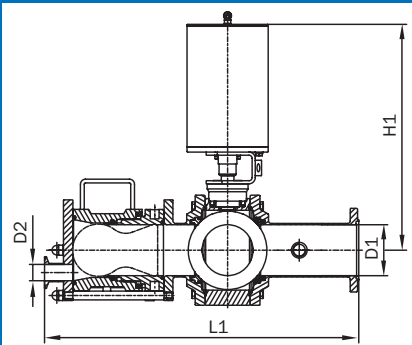
## Automated Product Recovery System



for pipe DIN EN 10357, Series A

### Plug-in Chamber with Stopper and Butterfly Valve Series A

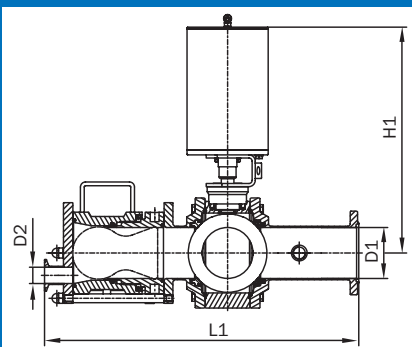
| DN DIN | D1  | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|----|-----|-----|-------------|--------------------|-----------------|
|        |     |    |     |     |             | Price/EUR          | Article No.     |
| 40     | 38  | 16 | 330 | 263 | 13.0        | 2591,50            | 6850 0007 002/1 |
| 50     | 50  | 26 | 365 | 271 | 18.0        | 2940,00            | 6850 0008 002/1 |
| 65     | 66  | 26 | 420 | 281 | 26.0        | 3330,45            | 6850 0009 002/1 |
| 80     | 81  | 26 | 500 | 359 | 38.0        | 4057,90            | 6850 0010 002/1 |
| 100    | 100 | 26 | 610 | 377 | 55.0        | 4806,30            | 6850 0012 002/1 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |
|        |     |    |     |     |             |                    |                 |



for pipe DIN EN 10357, Series D

### Plug-in Chamber with Ball Valve Series D

| DN Inch | D1    | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|----|-----|-----|-------------|--------------------|-----------------|
|         |       |    |     |     |             | Price/EUR          | Article No.     |
| 1 1/2"  | 34.8  | 16 | 325 | 266 | 11.5        | 2593,20            | 6850 0057 002/1 |
| 2"      | 47.5  | 26 | 365 | 268 | 18.0        | 2941,90            | 6850 0058 002/1 |
| 2 1/2"  | 60.2  | 26 | 415 | 284 | 26.0        | 3339,05            | 6850 0059 002/1 |
| 3"      | 72.9  | 26 | 510 | 359 | 37.5        | 4073,20            | 6850 0060 002/1 |
| 4"      | 37.38 | 26 | 605 | 377 | 55.0        | 4810,90            | 6850 0062 002/1 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |
|         |       |    |     |     |             |                    |                 |

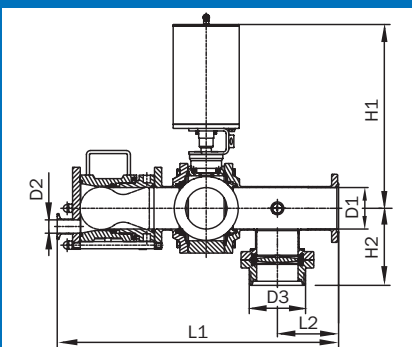


for pipe DIN EN 10357, Series D

### Plug-in Chamber with Ball Valve Series D

| DN SMS | D1   | D2 | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|------|----|-----|-----|-------------|--------------------|-----------------|
|        |      |    |     |     |             | Price/EUR          | Article No.     |
| 38     | 35.5 | 16 | 325 | 263 | 11.5        | 2593,20            | 6850 0092 002/1 |
| 51     | 48.5 | 26 | 365 | 268 | 18.0        | 2941,90            | 6850 0093 002/1 |
| 63.5   | 60.5 | 26 | 415 | 284 | 25.5        | 3339,00            | 6850 0093 002/1 |
| 76.1   | 72.9 | 26 | 510 | 359 | 37.5        | 4075,80            | 6850 0094 002/1 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |
|        |      |    |     |     |             |                    |                 |

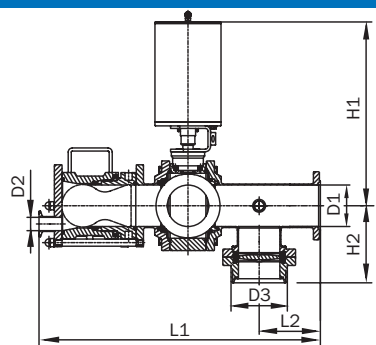
Also available in DIN 2430. Please inquire.



for pipe DIN EN 10357, Series A

### Plug-in Chamber with Ball Valve and Butterfly Valve Series A

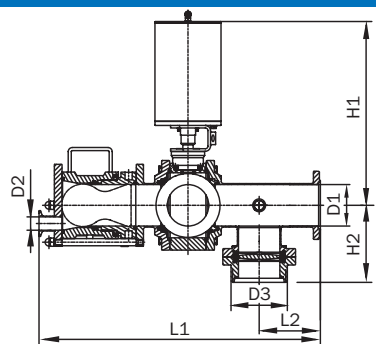
| DN DIN | D1  | D2 | D3            | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|----|---------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |     |    |               |     |     |     |     |             | Price/EUR          | Article No.     |
| 40     | 38  | 16 | Rd 65 x 1/6"  | 380 | 85  | 263 | 83  | 16.5        | 3051,22            | 6860 0007 002/1 |
| 50     | 50  | 26 | Rd 78 x 1/6"  | 420 | 90  | 271 | 91  | 22.5        | 3436,40            | 6860 0008 002/1 |
| 65     | 66  | 26 | Rd 95 x 1/6"  | 470 | 100 | 284 | 126 | 30.5        | 3882,80            | 6860 0009 002/1 |
| 80     | 81  | 26 | Rd 110 x 1/4" | 550 | 120 | 359 | 149 | 44.5        | 4720,25            | 6860 0010 002/1 |
| 100    | 100 | 26 | Rd 130 x 1/4" | 660 | 155 | 377 | 165 | 62.0        | 5617,50            | 6860 0012 002/1 |
|        |     |    |               |     |     |     |     |             |                    |                 |
|        |     |    |               |     |     |     |     |             |                    |                 |
|        |     |    |               |     |     |     |     |             |                    |                 |
|        |     |    |               |     |     |     |     |             |                    |                 |
|        |     |    |               |     |     |     |     |             |                    |                 |
|        |     |    |               |     |     |     |     |             |                    |                 |



for pipe DIN EN 10357, Series D

## Plug-in Chamber with Ball Valve and Butterfly Valve Series D

| DN Inch | D1    | D2 | D3            | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|----|---------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|         |       |    |               |     |     |     |     |             | Price/EUR          | Article No.     |
| 1 1/2"  | 34.8  | 16 | Rd 65 x 1/6"  | 385 | 85  | 266 | 82  | 16.5        | 3052,92            | 6860 0057 002/1 |
| 2"      | 47.5  | 26 | Rd 78 x 1/6"  | 425 | 90  | 268 | 94  | 22.0        | 3438,20            | 6860 0058 002/1 |
| 2 1/2"  | 60.2  | 26 | Rd 95 x 1/6"  | 475 | 105 | 284 | 123 | 30.0        | 3891,40            | 6860 0059 002/1 |
| 3"      | 72.9  | 26 | Rd 104 x 1/6" | 570 | 115 | 359 | 146 | 42.5        | 4740,55            | 6860 0060 002/1 |
| 4"      | 97.36 | 26 | Rd 130 x 1/4" | 675 | 155 | 377 | 164 | 62.0        | 5622,55            | 6860 0062 002/1 |
|         |       |    |               |     |     |     |     |             |                    |                 |
|         |       |    |               |     |     |     |     |             |                    |                 |
|         |       |    |               |     |     |     |     |             |                    |                 |
|         |       |    |               |     |     |     |     |             |                    |                 |
|         |       |    |               |     |     |     |     |             |                    |                 |



for pipe DIN EN 10357, Series D

## Plug-in Chamber with Ball Valve and Butterfly Valve Series D

| DN SMS | D1   | D2 | D3           | L1  | L2  | H1  | H2  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|------|----|--------------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |      |    |              |     |     |     |     |             | Price/EUR          | Article No.     |
| 38     | 35.5 | 16 | Rd 60 x 1/6" | 415 | 85  | 263 | 82  | 16.0        | 3054,65            | 6860 0092 002/1 |
| 51     | 48.5 | 26 | Rd 70 x 1/6" | 425 | 90  | 268 | 94  | 22.0        | 3441,58            | 6860 0093 002/1 |
| 63.5   | 60.5 | 26 | Rd 85 x 1/6" | 470 | 105 | 284 | 123 | 30.0        | 3888,38            | 6860 0094 002/1 |
| 76.1   | 72.9 | 26 | Rd 98 x 1/6" | 565 | 115 | 359 | 146 | 42.5        | 4738,25            | 6860 0095 002/1 |
|        |      |    |              |     |     |     |     |             |                    |                 |
|        |      |    |              |     |     |     |     |             |                    |                 |
|        |      |    |              |     |     |     |     |             |                    |                 |
|        |      |    |              |     |     |     |     |             |                    |                 |
|        |      |    |              |     |     |     |     |             |                    |                 |

Also available in DIN 2430. Please inquire.

## End Chamber Series A

| DN DIN | D1  | D2 | D3            | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|----|---------------|-----|-----|-------------|--------------------|-----------------|
|        |     |    |               |     |     |             | Price/EUR          | Article No.     |
| 25     | 26  | 16 | Rd 52 x 1/6"  | 85  | 90  | 5.5         | 608,11             | 6809 0005 002/1 |
| 40     | 38  | 16 | Rd 65 x 1/6"  | 100 | 105 | 5.5         | 639,75             | 6809 0007 002/1 |
| 50     | 50  | 26 | Rd 78 x 1/6"  | 105 | 115 | 6.5         | 681,70             | 6809 0008 002/1 |
| 65     | 66  | 26 | Rd 95 x 1/6"  | 115 | 135 | 7.5         | 768,28             | 6809 0009 002/1 |
| 80     | 81  | 26 | Rd 110 x 1/4" | 140 | 150 | 10.0        | 878,00             | 6809 0010 002/1 |
| 100    | 100 | 26 | Rd 130 x 1/4" | 155 | 160 | 12.5        | 963,87             | 6809 0012 002/1 |
|        |     |    |               |     |     |             |                    |                 |
|        |     |    |               |     |     |             |                    |                 |
|        |     |    |               |     |     |             |                    |                 |
|        |     |    |               |     |     |             |                    |                 |

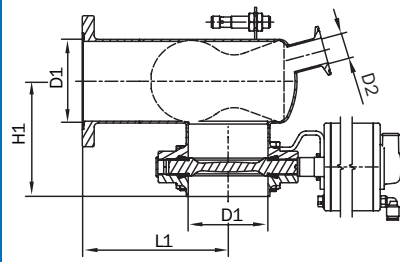
## End Chamber Series D

| DN Inch | D1    | D2 | D3            | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|----|---------------|-----|-----|-------------|--------------------|-----------------|
|         |       |    |               |     |     |             | Price/EUR          | Article No.     |
| 1"      | 22.1  | 16 | Rd 52 x 1/6"  | 80  | 100 | 5.5         | 611,60             | 6809 0054 002/1 |
| 1 1/2"  | 34.8  | 16 | Rd 65 x 1/6"  | 95  | 110 | 5.5         | 641,85             | 6809 0057 002/1 |
| 2"      | 47.5  | 26 | Rd 78 x 1/6"  | 105 | 115 | 6.0         | 683,70             | 6809 0057 002/1 |
| 2 1/2"  | 60.2  | 26 | Rd 95 x 1/6"  | 110 | 130 | 7.0         | 778,28             | 6809 0059 002/1 |
| 3"      | 72.9  | 26 | Rd 104 x 1/6" | 135 | 140 | 9.5         | 895,30             | 6809 0060 002/1 |
| 4"      | 97.38 | 26 | Rd 130 x 1/4" | 155 | 155 | 12.5        | 967,87             | 6809 0062 002/1 |
|         |       |    |               |     |     |             |                    |                 |
|         |       |    |               |     |     |             |                    |                 |
|         |       |    |               |     |     |             |                    |                 |
|         |       |    |               |     |     |             |                    |                 |

for pipe DIN EN 10357, Series A

for pipe DIN EN 10357, Series D

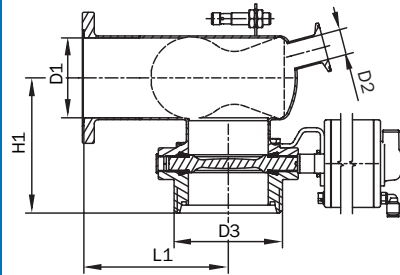
## Automated Product Recovery System



for pipe DIN EN 10357, Series C

### End Chamber Series C

| DN ISO | D1    | D2 | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-------|----|-----|-----|-------------|--------------------|-----------------|
|        |       |    |     |     |             | Price/EUR          | Article No.     |
| 33.7   | 29.7  | 16 | 85  | 100 | 5.5         | 610,40             | 6809 0079 002/1 |
| 48.3   | 44.3  | 16 | 100 | 115 | 6.5         | 645,35             | 6809 0081 002/1 |
| 60.3   | 56.3  | 16 | 110 | 120 | 7.5         | 687,80             | 6809 0082 002/1 |
| 76.1   | 72.1  | 26 | 135 | 140 | 9.5         | 772,28             | 6809 0083 002/1 |
| 88.9   | 84.3  | 26 | 145 | 150 | 10.5        | 890,70             | 6809 0084 002/1 |
| 114.3  | 109.7 | 26 | 150 | 160 | 13.5        | 1052,95            | 6809 0085 002/1 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |
|        |       |    |     |     |             |                    |                 |



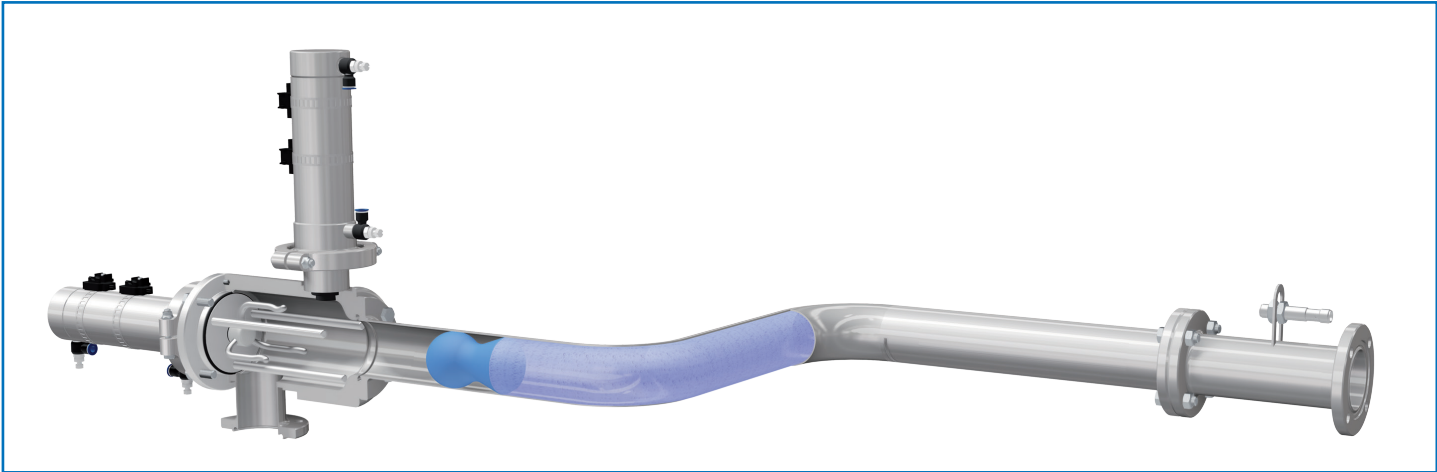
for pipe DIN EN 10357, Series D

### End Chamber Series D

| DN SMS | D1   | D2 | D3           | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|------|----|--------------|-----|-----|-------------|--------------------|-----------------|
|        |      |    |              |     |     |             | Price/EUR          | Article No.     |
| 25     | 22.5 | 16 | Rd 40 x 1/6" | 80  | 100 | 5.5         | 611,60             | 6809 0091 002/1 |
| 38     | 35.5 | 16 | Rd 60 x 1/6" | 95  | 110 | 5.5         | 641,85             | 6809 0092 002/1 |
| 51     | 48.5 | 26 | Rd 70 x 1/6" | 105 | 115 | 6.0         | 683,70             | 6809 0093 002/1 |
| 63.5   | 60.5 | 26 | Rd 85 x 1/6" | 110 | 130 | 7.0         | 778,28             | 6809 0094 002/1 |
| 76.1   | 72.9 | 26 | Rd 98 x 1/6" | 135 | 140 | 9.5         | 895,30             | 6809 0095 002/1 |
|        |      |    |              |     |     |             |                    |                 |
|        |      |    |              |     |     |             |                    |                 |
|        |      |    |              |     |     |             |                    |                 |
|        |      |    |              |     |     |             |                    |                 |

Also available in DIN 2430. Please inquire.

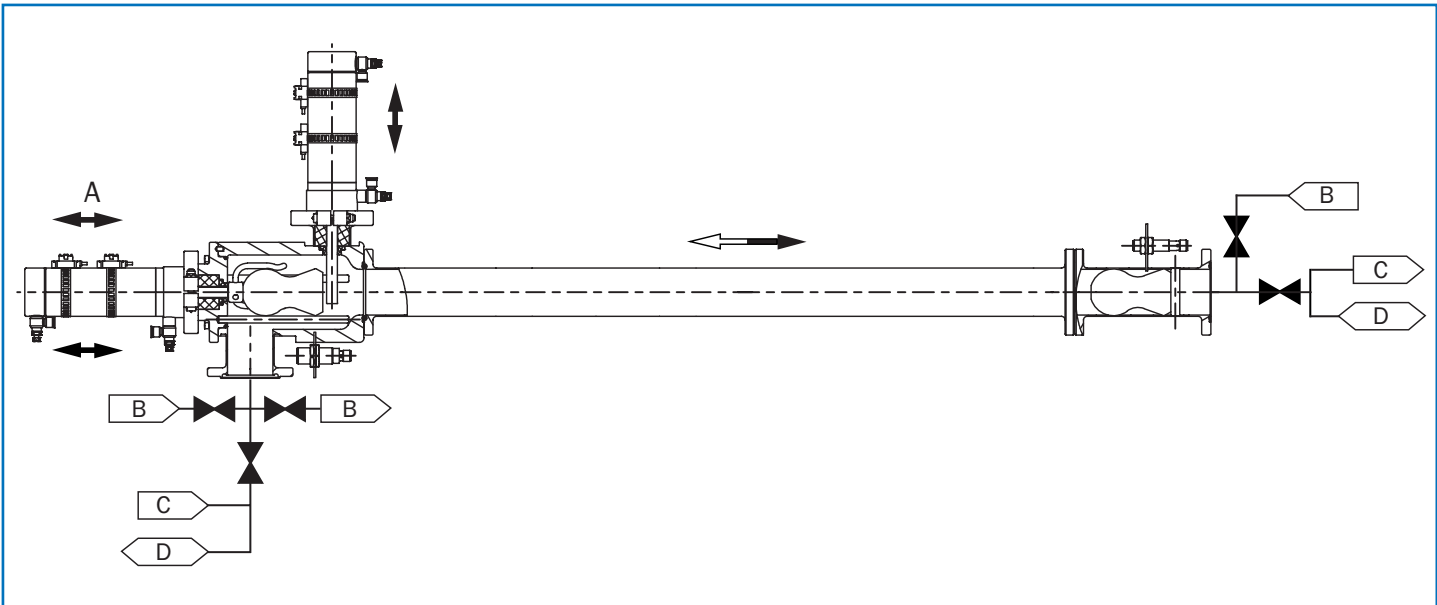
## Fully Automated Product Recovery System



### Properties

|                     |                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>  | hygienic inline station, receiving chamber                                                                                                       |
| <b>Features:</b>    | safe, automatic system for pushing out product<br>hygienic design for simple cleaning capability<br>integrated pig lock, integrated pig cleaning |
| <b>Actuation:</b>   | fully automatic, shuttle operation                                                                                                               |
| <b>Accessories:</b> | supply fittings, drive controller, load removal cyclone, tangent pig, lip pig, sensors (not included in scope of delivery)                       |

### Flow Chart

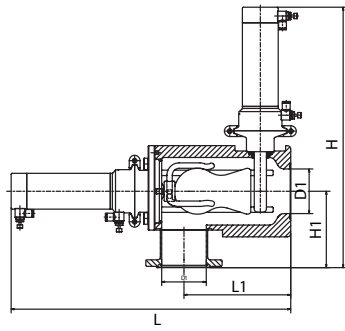


- A** Pig
- B** Drive medium
- C** Product
- D** Cleaning/CIP

### Technical Parameters

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| <b>Materials:</b>                | 1.4404 (316L) (contact with product), 1.4301 (304)          |
| <b>Pressure stage:</b>           | PN10, others on request                                     |
| <b>Seals:</b>                    | EPDM, others on request                                     |
| <b>Installation orientation:</b> | horizontal, vertical                                        |
| <b>Connections:</b>              | flange connection according to DIN 11864, others on request |

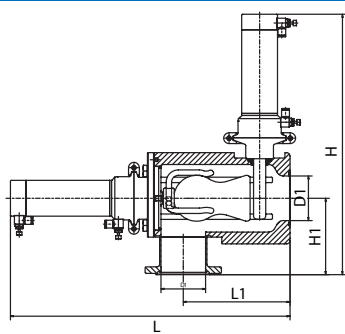
## Fully Automated Product Recovery System



for pipe DIN EN 10357, Series A

### Hygienic Inline Station Series A

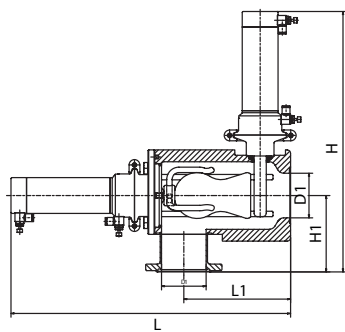
| DN DIN | D1  | H   | H1  | L   | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-----|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |     |     |     |     |     |             | Price/EUR          | Article No.     |
| 40     | 38  | 349 | 91  | 363 | 120 | 10,5        | 3048,70            | 6838 0007 002/1 |
| 50     | 50  | 359 | 95  | 371 | 124 | 12,0        | 3283,10            | 6838 0008 002/1 |
| 65     | 66  | 386 | 113 | 406 | 150 | 17,5        | 3641,50            | 6838 0009 002/1 |
| 80     | 81  | 403 | 124 | 418 | 155 | 22,0        | 4375,50            | 6838 0010 002/1 |
| 100    | 100 | 435 | 142 | 466 | 193 | 38,5        | 4896,25            | 6838 0012 002/1 |
| 100    | 100 | 293 | 142 | 456 | 184 | 38,5        | 4896,25            | 6836 0012 002/1 |
|        |     |     |     |     |     |             |                    |                 |
|        |     |     |     |     |     |             |                    |                 |
|        |     |     |     |     |     |             |                    |                 |
|        |     |     |     |     |     |             |                    |                 |



for pipe DIN EN 10357, Series D

### Hygienic Inline Station Series D

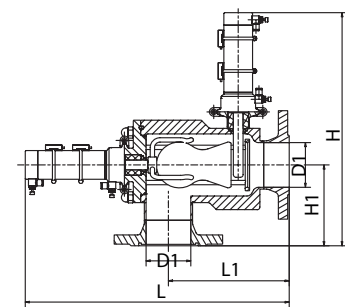
| DN Inch | D1    | H   | H1  | L   | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|---------|-------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|         |       |     |     |     |     |             | Price/EUR          | Article No.     |
| 1 1/2"  | 34,8  | 346 | 88  | 363 | 123 | 10,5        | 3052,70            | 6838 0057 002/1 |
| 2"      | 47,5  | 359 | 95  | 377 | 130 | 12,0        | 3286,10            | 6838 0058 002/1 |
| 2 1/2"  | 60,2  | 386 | 113 | 400 | 147 | 18,0        | 3650,10            | 6838 0059 002/1 |
| 3"      | 72,9  | 401 | 122 | 418 | 159 | 23,0        | 4391,10            | 6838 0060 002/1 |
| 4"      | 97,38 | 435 | 142 | 456 | 185 | 39,0        | 4889,85            | 6838 0062 002/1 |
|         |       |     |     |     |     |             |                    |                 |
|         |       |     |     |     |     |             |                    |                 |
|         |       |     |     |     |     |             |                    |                 |
|         |       |     |     |     |     |             |                    |                 |



for pipe DIN EN 10357, Series C

### Hygienic Inline Station Series C

| DN ISO | D1    | H   | H1  | L   | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|-------|-----|-----|-----|-----|-------------|--------------------|-----------------|
|        |       |     |     |     |     |             | Price/EUR          | Article No.     |
| 48,3   | 44,3  | 359 | 95  | 371 | 126 | 12,5        | 3294,20            | 6838 0081 002/1 |
| 60,3   | 56,3  | 386 | 113 | 396 | 145 | 18,0        | 3644,90            | 6838 0082 002/1 |
| 76,1   | 72,1  | 401 | 122 | 416 | 157 | 22,0        | 4379,25            | 6838 0083 002/1 |
| 88,9   | 84,3  | 435 | 142 | 444 | 179 | 37,5        | 4913,55            | 6838 0084 002/1 |
| 114,3  | 109,7 | 461 | 155 | 485 | 191 | 42,5        | 5336,65            | 6838 0085 002/1 |
|        |       |     |     |     |     |             |                    |                 |
|        |       |     |     |     |     |             |                    |                 |
|        |       |     |     |     |     |             |                    |                 |
|        |       |     |     |     |     |             |                    |                 |



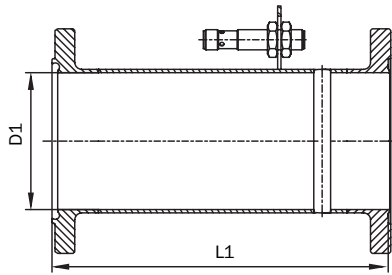
for pipe acc. DIN 2430

### Hygienic Inline Station for pipe acc. DIN 2430

| DIN 2430 | D1    | H | H1 | L   | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|----------|-------|---|----|-----|-----|-------------|--------------------|-----------------|
|          |       |   |    |     |     |             | Price/EUR          | Article No.     |
| 50       | 54,5  |   |    | 396 | 145 | 18,5        | 4009,39            | 6838 0026 002/1 |
| 80       | 82,5  |   |    | 444 | 179 | 38,0        | 5404,91            | 6838 0027 002/1 |
| 100      | 107,1 |   |    | 485 | 191 | 43,0        | 5870,32            | 6838 0028 002/1 |
|          |       |   |    |     |     |             |                    |                 |
|          |       |   |    |     |     |             |                    |                 |
|          |       |   |    |     |     |             |                    |                 |
|          |       |   |    |     |     |             |                    |                 |
|          |       |   |    |     |     |             |                    |                 |

Also available in DN SMS. Please inquire.

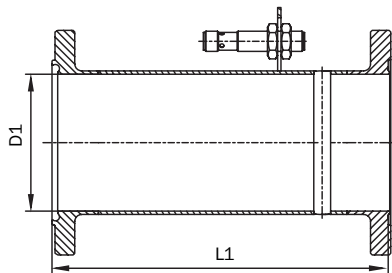
## Fully Automated Product Recovery System



for pipe DIN EN 10357, Series A

### Receiving Chamber Series A

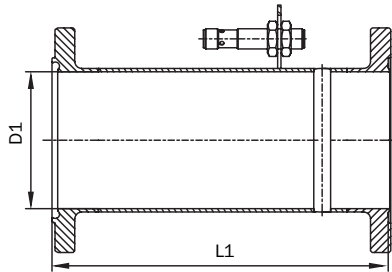
| DN DIN | D1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |               |
|--------|-----|-----|-------------|--------------------|---------------|
|        |     |     |             | Price/EUR          | Article No.   |
| 25     | 26  | 125 | 1.0         | 326,61             | 6833 0005 002 |
| 40     | 38  | 135 | 1.0         | 338,11             | 6833 0007 002 |
| 50     | 50  | 150 | 1.5         | 352,79             | 6833 0008 002 |
| 65     | 66  | 175 | 1.5         | 392,90             | 6833 0009 002 |
| 80     | 81  | 200 | 2.0         | 495,76             | 6833 0010 002 |
| 100    | 100 | 220 | 3.5         | 548,64             | 6833 0012 002 |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |



for pipe DIN EN 10357, Series D

### Receiving Chamber Series D

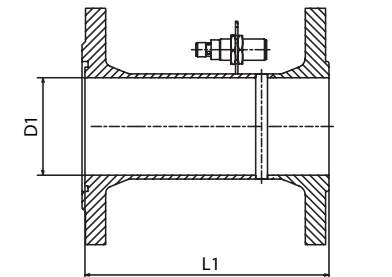
| DN Inch | D1    | L1  | Weight [kg] | 1.4404 (316L)/EPDM |               |
|---------|-------|-----|-------------|--------------------|---------------|
|         |       |     |             | Price/EUR          | Article No.   |
| 1"      | 22.1  | 120 | 1.0         | 330,41             | 6833 0054 002 |
| 1 1/2"  | 34.8  | 125 | 1.0         | 341,91             | 6833 0057 002 |
| 2"      | 47.5  | 130 | 1.0         | 356,69             | 6833 0058 002 |
| 2 1/2"  | 60.2  | 150 | 1.5         | 408,60             | 6833 0059 002 |
| 3"      | 72.9  | 170 | 2.0         | 528,36             | 6833 0060 002 |
| 4"      | 97.38 | 210 | 3.5         | 556,34             | 6833 0062 002 |
|         |       |     |             |                    |               |
|         |       |     |             |                    |               |
|         |       |     |             |                    |               |
|         |       |     |             |                    |               |



for pipe DIN EN 10357, Series C

### Receiving Chamber Series C

| DN ISO | D1    | L1  | Weight [kg] | 1.4404 (316L)/EPDM |               |
|--------|-------|-----|-------------|--------------------|---------------|
|        |       |     |             | Price/EUR          | Article No.   |
| 33.7   | 29.7  | 115 | 1.0         | 333,46             | 6833 0079 002 |
| 48.3   | 44.3  | 125 | 1.0         | 344,96             | 6833 0081 002 |
| 60.3   | 56.3  | 140 | 1.5         | 378,59             | 6833 0082 002 |
| 76.1   | 72.1  | 170 | 1.5         | 425,25             | 6833 0083 002 |
| 88.9   | 84.3  | 185 | 2.5         | 522,86             | 6833 0084 002 |
| 114.3  | 109.7 | 195 | 3.5         | 622,03             | 6833 0085 002 |
|        |       |     |             |                    |               |
|        |       |     |             |                    |               |
|        |       |     |             |                    |               |
|        |       |     |             |                    |               |



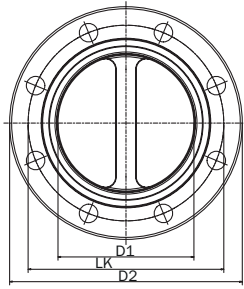
for pipe acc. DIN 2430

### Reception Chamber DIN 2430

| DIN 2430 | D1    | L1    | Weight [kg] | 1.4404 (316L)/EPDM |               |
|----------|-------|-------|-------------|--------------------|---------------|
|          |       |       |             | Price/EUR          | Article No.   |
| 50       | 54,5  | 201,5 | 5,5         | 468,60             | 6833 0026 002 |
| 80       | 82,5  | 206,5 | 8,5         | 637,85             | 6833 0027 002 |
| 100      | 107,1 | 256   | 10,6        | 767,05             | 6833 0028 002 |
|          |       |       |             |                    |               |
|          |       |       |             |                    |               |
|          |       |       |             |                    |               |
|          |       |       |             |                    |               |
|          |       |       |             |                    |               |
|          |       |       |             |                    |               |

Also available in DN SMS. Please inquire.

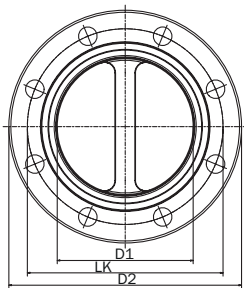
## Stop Flange



for pipe DIN EN 10357, Series A

### Stop Flange Series A

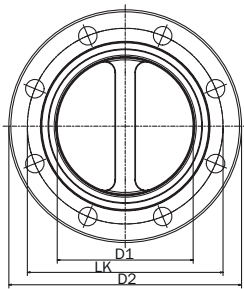
| DN DIN | D1  | LK        | D2  | L1 | Weight [kg] | 1.4404 (316L)/EPDM |               |
|--------|-----|-----------|-----|----|-------------|--------------------|---------------|
|        |     |           |     |    |             | Price/EUR          | Article No.   |
| 40     | 38  | 65 4xØ9   | 82  | 6  | 0,5         | 55,25              | 6854 0007 002 |
| 50     | 50  | 77 4xØ9   | 94  | 8  | 0,6         | 69,45              | 6854 0008 002 |
| 65     | 66  | 95 8xØ9   | 113 | 10 | 0,8         | 82,85              | 6854 0009 002 |
| 80     | 81  | 112 8xØ11 | 133 | 10 | 0,9         | 104,30             | 6854 0010 002 |
| 100    | 100 | 137 8xØ11 | 159 | 12 | 1,4         | 173,10             | 6854 0012 002 |
|        |     |           |     |    |             |                    |               |
|        |     |           |     |    |             |                    |               |
|        |     |           |     |    |             |                    |               |
|        |     |           |     |    |             |                    |               |
|        |     |           |     |    |             |                    |               |
|        |     |           |     |    |             |                    |               |



for pipe DIN EN 10357, Series D

### Stop Flange Series D

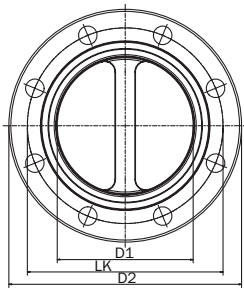
| DN Inch | D1    | LK        | D2  | L1 | Weight [kg] | 1.4404 (316L)/EPDM |               |
|---------|-------|-----------|-----|----|-------------|--------------------|---------------|
|         |       |           |     |    |             | Price/EUR          | Article No.   |
| 1 1/2"  | 34,8  | 62 4xØ9   | 79  | 6  | 0,5         | 58,65              | 6854 0057 002 |
| 2"      | 47,5  | 75 4xØ9   | 92  | 8  | 0,5         | 73,25              | 6854 0058 002 |
| 2 1/2"  | 60,2  | 89 8xØ9   | 107 | 10 | 0,6         | 100,05             | 6854 0059 002 |
| 3"      | 72,9  | 104 8xØ11 | 125 | 10 | 0,8         | 134,90             | 6854 0060 002 |
| 4"      | 97,38 | 135 8xØ11 | 157 | 10 | 1,4         | 182,30             | 6854 0062 002 |
|         |       |           |     |    |             |                    |               |
|         |       |           |     |    |             |                    |               |
|         |       |           |     |    |             |                    |               |
|         |       |           |     |    |             |                    |               |
|         |       |           |     |    |             |                    |               |
|         |       |           |     |    |             |                    |               |



for pipe DIN EN 10357, Series C

### Stop Flange Series C

| DN ISO | D1    | LK        | D2  | L1 | Weight [kg] | 1.4404 (316L)/EPDM |               |
|--------|-------|-----------|-----|----|-------------|--------------------|---------------|
|        |       |           |     |    |             | Price/EUR          | Article No.   |
| 48,3   | 44,3  | 71 4xØ9   | 88  | 6  | 0,5         | 62,45              | 6854 0081 002 |
| 60,3   | 56,3  | 85 4xØ9   | 103 | 8  | 0,7         | 91,65              | 6854 0082 002 |
| 76,1   | 72,1  | 104 8xØ11 | 125 | 10 | 0,9         | 114,80             | 6854 0083 002 |
| 88,9   | 84,3  | 116 8xØ11 | 137 | 10 | 1,1         | 133,10             | 6854 0084 002 |
| 114,3  | 109,7 | 146 8xØ11 | 168 | 10 | 1,6         | 207,60             | 6854 0085 002 |
|        |       |           |     |    |             |                    |               |
|        |       |           |     |    |             |                    |               |
|        |       |           |     |    |             |                    |               |
|        |       |           |     |    |             |                    |               |
|        |       |           |     |    |             |                    |               |
|        |       |           |     |    |             |                    |               |



for pipe acc. DIN 2430

### Stop Flange DIN 2430

| DIN 2430 | D1    | LK  | D2  | L1 | Weight [kg] | 1.4404 (316L)/EPDM |               |
|----------|-------|-----|-----|----|-------------|--------------------|---------------|
|          |       |     |     |    |             | Price/EUR          | Article No.   |
| 50       | 54,5  | 125 | 165 | 8  | 2,5         | 152,00             | 6854 0026 002 |
| 80       | 82,5  | 160 | 200 | 10 | 3,4         | 178,00             | 6854 0027 002 |
| 100      | 107,1 | 180 | 220 | 12 | 4,2         | 216,50             | 6854 0028 002 |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |
|          |       |     |     |    |             |                    |               |

Also available in DN SMS. Please inquire.

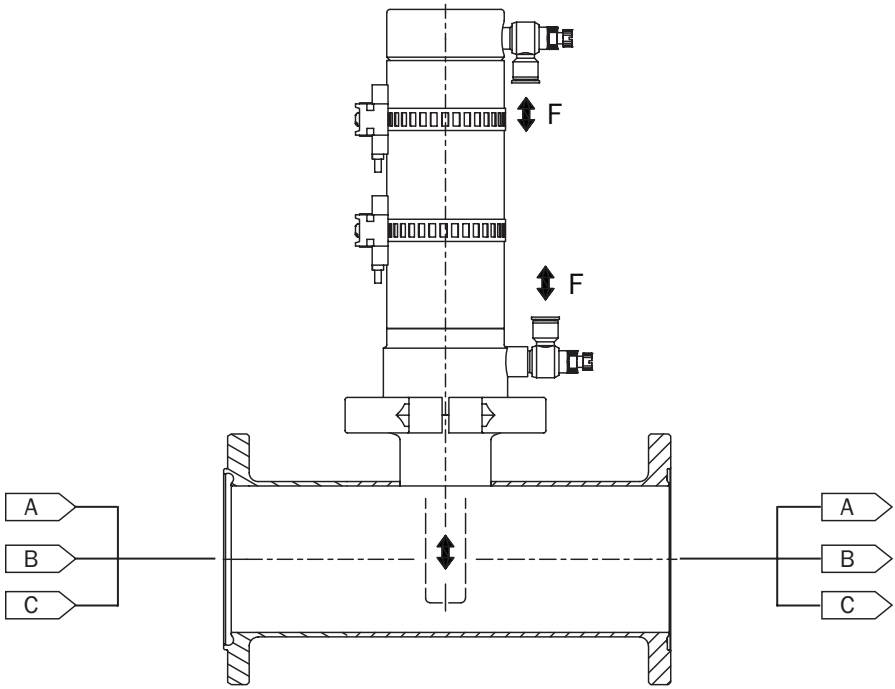
# Pig Stopper

## Properties

**Function:** blocking the pig  
**Features:** stopping and releasing the pig  
hygienic

**Actuation:** pneumatic air/air  
**Accessories:** sensors (not included in the scope of delivery)

## Technical Description

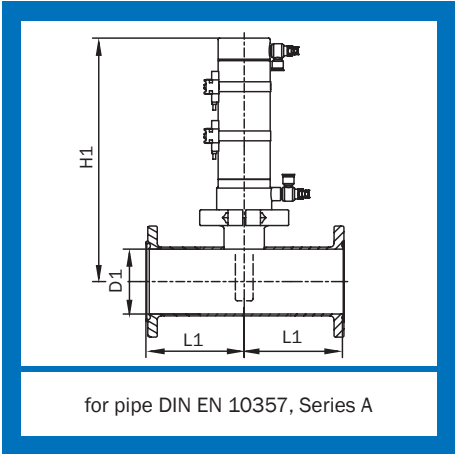


- A** Pig
- B** Drive medium
- C** Product
- F** Compressed air

## Technical Parameters

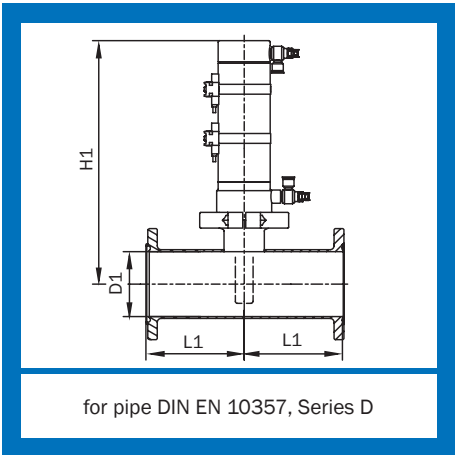
**Materials:** housing: 1.4404 (316L) (contact with product), 1.4301 (304)  
**Pressure stage:** PN 10  
**Seals:** EPDM, others on request  
**Installation orientation:** horizontal with pneumatic actuation upwards preferred  
**Connections:** flange connection in accordance with DIN 11864

## Pig Stopper



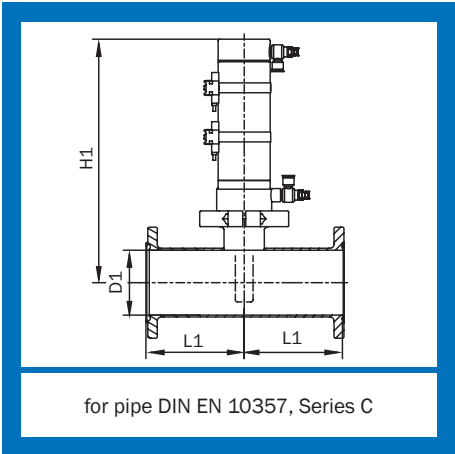
for pipe DIN EN 10357, Series A

| Pig Stopper Series A |     |     |     |             |                    |                 |
|----------------------|-----|-----|-----|-------------|--------------------|-----------------|
| DN DIN               | D1  | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|                      |     |     |     |             | Price/EUR          | Article No.     |
| 25                   | 26  | 230 | 90  | 1.15        | 560,30             | 6819 0005 002/1 |
| 40                   | 38  | 235 | 95  | 2.0         | 587,90             | 6819 0007 002/1 |
| 50                   | 50  | 240 | 95  | 2.5         | 608,40             | 6819 0008 002/1 |
| 65                   | 66  | 250 | 100 | 3.5         | 653,60             | 6819 0009 002/1 |
| 80                   | 81  | 260 | 105 | 5.0         | 699,85             | 6819 0010 002/1 |
| 100                  | 100 | 265 | 105 | 6.5         | 748,10             | 6819 0012 002/1 |
|                      |     |     |     |             |                    |                 |
|                      |     |     |     |             |                    |                 |
|                      |     |     |     |             |                    |                 |
|                      |     |     |     |             |                    |                 |
|                      |     |     |     |             |                    |                 |



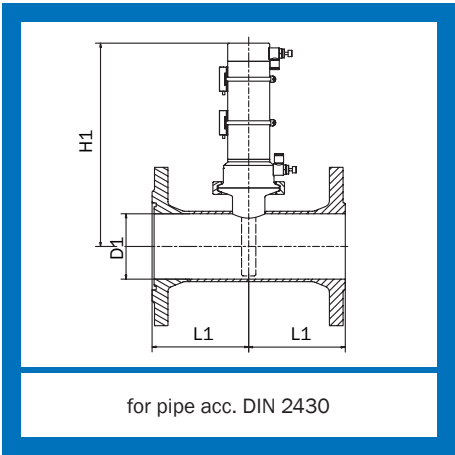
for pipe DIN EN 10357, Series D

| Pig Stopper Series D |       |     |     |             |                    |                 |
|----------------------|-------|-----|-----|-------------|--------------------|-----------------|
| DN Inch              | D1    | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|                      |       |     |     |             | Price/EUR          | Article No.     |
| 1"                   | 22.1  | 230 | 90  | 1.5         | 565,40             | 6819 0054 002/1 |
| 1 1/2"               | 34.8  | 235 | 95  | 1.5         | 591,70             | 6819 0057 002/1 |
| 2"                   | 47.5  | 240 | 95  | 2.0         | 612,30             | 6819 0058 002/1 |
| 2 1/2"               | 60.2  | 245 | 100 | 3.5         | 669,30             | 6819 0059 002/1 |
| 3"                   | 72.9  | 255 | 105 | 4.5         | 732,45             | 6819 0060 002/1 |
| 4"                   | 97.38 | 265 | 105 | 6.0         | 755,80             | 6819 0062 002/1 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |



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| Pig Stopper Series C |       |     |     |             |                    |                 |
|----------------------|-------|-----|-----|-------------|--------------------|-----------------|
| DN ISO               | D1    | H1  | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|                      |       |     |     |             | Price/EUR          | Article No.     |
| 33.7                 | 29.7  | 230 | 95  | 1.5         | 566,20             | 6819 0079 002/1 |
| 48.3                 | 44.3  | 240 | 95  | 2.0         | 594,75             | 6819 0081 002/1 |
| 60.3                 | 56.3  | 245 | 100 | 3.0         | 630,30             | 6819 0082 002/1 |
| 76.1                 | 72.1  | 255 | 105 | 4.5         | 686,30             | 6819 0083 002/1 |
| 88.9                 | 84.3  | 260 | 105 | 5.5         | 726,95             | 6819 0084 002/1 |
| 114.3                | 109.7 | 265 | 110 | 6.5         | 777,60             | 6819 0085 002/1 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |
|                      |       |     |     |             |                    |                 |



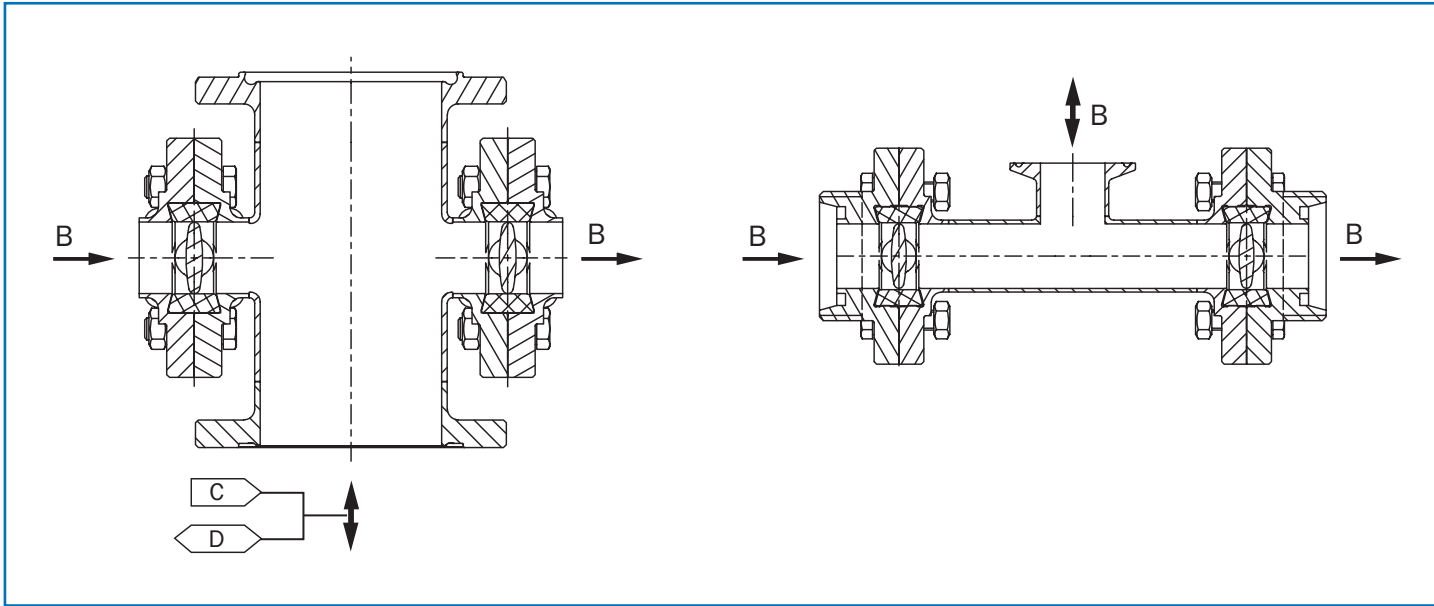
| Pig Stopper DIN 2430                      |       |        |     |             |                    |                 |
|-------------------------------------------|-------|--------|-----|-------------|--------------------|-----------------|
| DIN 2430                                  | D1    | H1     | L1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|                                           |       |        |     |             | Price/EUR          | Article No.     |
| 50                                        | 54,5  | 242,45 | 110 | 8,2         | 725,20             | 6819 0026 002/1 |
| 80                                        | 82,5  | 256,8  | 122 | 11,4        | 841,95             | 6819 0027 002/1 |
| 100                                       | 107,1 | 269,5  | 132 | 13,5        | 912,60             | 6819 0028 002/1 |
|                                           |       |        |     |             |                    |                 |
|                                           |       |        |     |             |                    |                 |
|                                           |       |        |     |             |                    |                 |
|                                           |       |        |     |             |                    |                 |
|                                           |       |        |     |             |                    |                 |
| Also available in DN SMS. Please inquire. |       |        |     |             |                    |                 |

## Supply Fittings

### Properties

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| <b>Function:</b>    | supply and load removal with drive medium                                              |
| <b>Features:</b>    | modular units for channeling drive medium in and out in different versions<br>hygienic |
| <b>Actuation:</b>   | manual or pneumatic                                                                    |
| <b>Accessories:</b> | sensors (not included in the scope of delivery)                                        |

### Technical Description

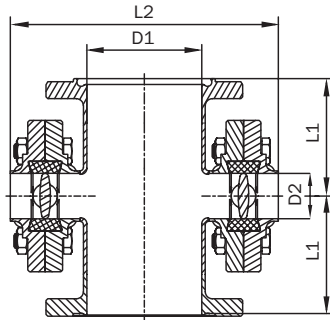


- B** Drive medium
- C** Product
- D** Cleaning/CIP

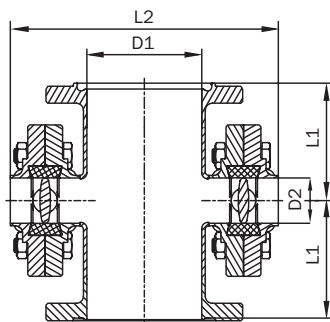
### Technical Parameters

|                                  |                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials:</b>                | 1.4404 (316L) (contact with product), 1.4301 (304)                                                                                                     |
| <b>Pressure stage:</b>           | PN 10                                                                                                                                                  |
| <b>Seals:</b>                    | EPDM, others on request                                                                                                                                |
| <b>Installation orientation:</b> | horizontal, vertical                                                                                                                                   |
| <b>Connections:</b>              | flange connection according to DIN 11864<br>threaded connection according to DIN 11851<br>clamp connection according to DIN 32676<br>others on request |

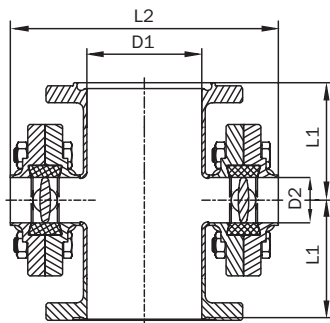
## Supply Fittings



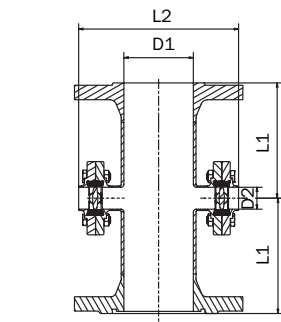
for pipe DIN EN 10357, Series A



for pipe DIN EN 10357, Series D



for pipe DIN EN 10357, Series C



for pipe acc. DIN 2430

### Medium Supply Series A

| DN DIN | D1  | D2 | L1 | L2  | Weight [kg] | 1.4404 (316L)/EPDM manually actuated |                 | 1.4404 (316L)/EPDM pneumatic |                 |
|--------|-----|----|----|-----|-------------|--------------------------------------|-----------------|------------------------------|-----------------|
|        |     |    |    |     |             | Price/EUR                            | Article No.     | Price/EUR                    | Article No.     |
| 25     | 26  | 16 | 65 | 112 | 7.0         | 508,65                               | 6834 1705 002/1 | 915,85                       | 6834 0005 002/1 |
| 40     | 38  | 16 | 65 | 124 | 7.5         | 572,46                               | 6834 1707 002/1 | 979,70                       | 6834 0007 002/1 |
| 50     | 50  | 26 | 70 | 140 | 9.0         | 690,78                               | 6834 1708 002/1 | 1096,56                      | 6834 0008 002/1 |
| 65     | 66  | 26 | 70 | 154 | 10.0        | 741,43                               | 6834 1709 002/1 | 1148,24                      | 6834 0009 002/1 |
| 80     | 81  | 26 | 75 | 170 | 10.5        | 802,53                               | 6834 1710 002/1 | 1190,27                      | 6834 0010 002/1 |
| 100    | 100 | 26 | 85 | 191 | 11.0        | 841,45                               | 6834 1712 002/1 | 1228,49                      | 6834 0012 002/1 |
|        |     |    |    |     |             |                                      |                 |                              |                 |
|        |     |    |    |     |             |                                      |                 |                              |                 |
|        |     |    |    |     |             |                                      |                 |                              |                 |
|        |     |    |    |     |             |                                      |                 |                              |                 |
|        |     |    |    |     |             |                                      |                 |                              |                 |

### Medium Supply Series D

| DN Inch | D1    | D2 | L1 | L2  | Weight [kg] | 1.4404 (316L)/EPDM manually actuated |                 | 1.4404 (316L)/EPDM pneumatic |                 |
|---------|-------|----|----|-----|-------------|--------------------------------------|-----------------|------------------------------|-----------------|
|         |       |    |    |     |             | Price/EUR                            | Article No.     | Price/EUR                    | Article No.     |
| 1"      | 22.1  | 16 | 65 | 111 | 7.0         | 513,71                               | 6834 1754 002/1 | 920,95                       | 6834 0054 002/1 |
| 1 1/2"  | 34.8  | 16 | 65 | 124 | 7.5         | 576,26                               | 6834 1757 002/1 | 983,50                       | 6834 0057 002/1 |
| 2"      | 47.5  | 26 | 70 | 137 | 9.0         | 692,44                               | 6834 1758 002/1 | 1100,50                      | 6834 0057 002/1 |
| 2 1/2"  | 60.2  | 26 | 70 | 149 | 10.0        | 756,70                               | 6834 1759 002/1 | 1163,94                      | 6834 0059 002/1 |
| 3"      | 72.9  | 26 | 75 | 162 | 10.0        | 835,83                               | 6834 1760 002/1 | 1222,87                      | 6834 0060 002/1 |
| 4"      | 97.38 | 26 | 85 | 187 | 10.5        | 918,45                               | 6834 1762 002/1 | 1305,49                      | 6834 0062 002/1 |
|         |       |    |    |     |             |                                      |                 |                              |                 |
|         |       |    |    |     |             |                                      |                 |                              |                 |
|         |       |    |    |     |             |                                      |                 |                              |                 |
|         |       |    |    |     |             |                                      |                 |                              |                 |
|         |       |    |    |     |             |                                      |                 |                              |                 |

### Medium Supply Series C

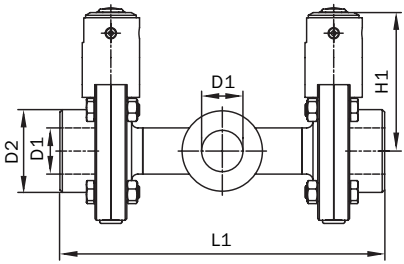
| DN ISO | D1    | D2 | L1 | L2  | Weight [kg] | 1.4404 (316L)/EPDM manually actuated |                 | 1.4404 (316L)/EPDM pneumatic |                 |
|--------|-------|----|----|-----|-------------|--------------------------------------|-----------------|------------------------------|-----------------|
|        |       |    |    |     |             | Price/EUR                            | Article No.     | Price/EUR                    | Article No.     |
| 33.7   | 29.7  | 16 | 65 | 116 | 7.0         | 514,51                               | 6834 1779 002/1 | 921,75                       | 6834 0079 002/1 |
| 48.3   | 44.3  | 16 | 70 | 134 | 8.5         | 579,31                               | 6834 1781 002/1 | 986,55                       | 6834 0081 002/1 |
| 60.3   | 56.3  | 26 | 70 | 146 | 10.0        | 710,90                               | 6834 1782 002/1 | 1118,50                      | 6834 0082 002/1 |
| 76.1   | 72.1  | 26 | 75 | 162 | 10.0        | 773,35                               | 6834 1783 002/1 | 1180,59                      | 6834 0083 002/1 |
| 88.9   | 84.3  | 26 | 80 | 175 | 10.5        | 830,33                               | 6834 1784 002/1 | 1217,37                      | 6834 0084 002/1 |
| 114.3  | 109.7 | 26 | 95 | 200 | 11.0        | 939,72                               | 6834 1785 002/1 | 1326,76                      | 6834 0085 002/1 |
|        |       |    |    |     |             |                                      |                 |                              |                 |
|        |       |    |    |     |             |                                      |                 |                              |                 |
|        |       |    |    |     |             |                                      |                 |                              |                 |
|        |       |    |    |     |             |                                      |                 |                              |                 |
|        |       |    |    |     |             |                                      |                 |                              |                 |

### Medium Supply DIN 2430

| DIN 2430 | D1    | D2 | L1  | L2  | Weight [kg] | 1.4404 (316L)/EPDM manually actuated |                 | 1.4404 (316L)/EPDM pneumatic |                 |
|----------|-------|----|-----|-----|-------------|--------------------------------------|-----------------|------------------------------|-----------------|
|          |       |    |     |     |             | Price/EUR                            | Article No.     | Price/EUR                    | Article No.     |
| 50       | 54,5  | 26 | 157 | 162 | 8,5         | 805,90                               | 6834 1726 002/1 | 1213,50                      | 6834 0026 002/1 |
| 80       | 82,5  | 26 | 157 | 190 | 11,5        | 945,35                               | 6834 1727 002/1 | 1332,35                      | 6834 0027 002/1 |
| 100      | 107,1 | 26 | 157 | 215 | 13,5        | 1074,75                              | 6834 1728 002/1 | 1461,75                      | 6834 0028 002/1 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |
|          |       |    |     |     |             |                                      |                 |                              |                 |

Also available in DN SMS. Please inquire.

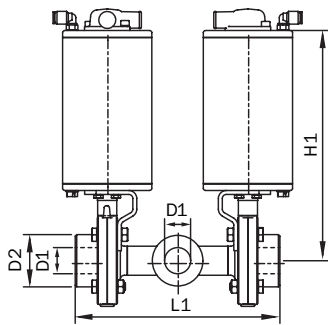
## Supply Fittings



for pipe DIN EN 10357, Series A

### Connection Fitting Series A, manually actuated

| DN DIN | D1 | D2           | L1  | H1 | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|----|--------------|-----|----|-------------|--------------------|-----------------|
|        |    |              |     |    |             | Price/EUR          | Article No.     |
| 15     | 16 | Rd 34 x 1/8" | 174 | 85 | 6.0         | 668,10             | 6817 1703 002/1 |
| 25     | 26 | Rd 52 x 1/6" | 184 | 90 | 6.5         | 708,85             | 6817 1705 002/1 |
|        |    |              |     |    |             |                    |                 |
|        |    |              |     |    |             |                    |                 |
|        |    |              |     |    |             |                    |                 |
|        |    |              |     |    |             |                    |                 |
|        |    |              |     |    |             |                    |                 |
|        |    |              |     |    |             |                    |                 |



for pipe DIN EN 10357, Series A

### Connection Fitting Series A, pneumatic

| DN DIN | D1 | D2           | L1  | H1  | Weight [kg] | 1.4404 (316L)/EPDM |                 |
|--------|----|--------------|-----|-----|-------------|--------------------|-----------------|
|        |    |              |     |     |             | Price/EUR          | Article No.     |
| 15     | 16 | Rd 34 x 1/8" | 174 | 225 | 9.0         | 870,65             | 6817 0003 002/1 |
| 25     | 26 | Rd 52 x 1/6" | 184 | 230 | 9.0         | 910,35             | 6817 0005 002/1 |
|        |    |              |     |     |             |                    |                 |
|        |    |              |     |     |             |                    |                 |
|        |    |              |     |     |             |                    |                 |
|        |    |              |     |     |             |                    |                 |
|        |    |              |     |     |             |                    |                 |
|        |    |              |     |     |             |                    |                 |

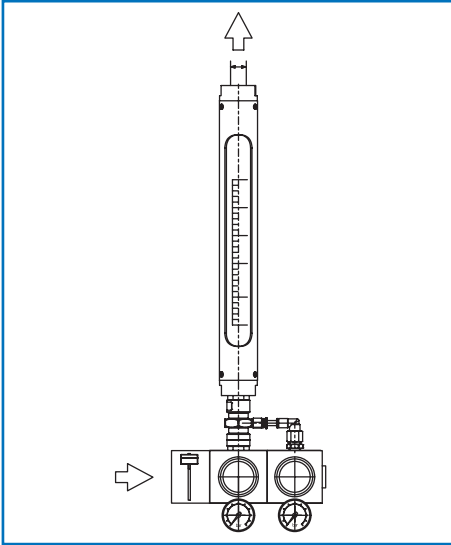
[illegible]

## Drive Controller

### Properties

**Function:** pig speed control through volume flow control  
**Features:** adjustment of pig speed over the entire pipeline length  
independent of pressure conditions and the length of the pipeline  
display of flow and pressure  
**Mode of operation:** self-actuating mechanical, automatic, no electric or electronic support required  
**Accessories:** lockable securing mechanism  
**Actuation:** manual

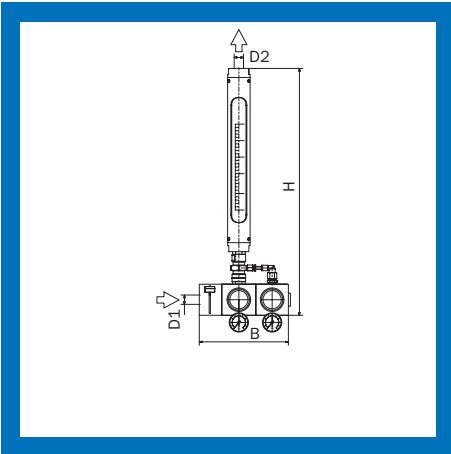
### Technical Description



**Materials:** housing: cast zinc, plastic, pinch valve: stainless steel/EPDM, flow indicator: stainless steel/glass (contact with medium)  
**Pressure stage:** PN 10  
**Seals:** EPDM  
**Installation orientation:** horizontal  
**Connections:** screw connection in accordance with ISO 228-1

➡ Drive medium

### Technical Parameters



### "Gas" Drive Controller

| Control Range l/min | B   | H   | D1    | D2      | Weight [kg] | Price/EUR | Article No.  |
|---------------------|-----|-----|-------|---------|-------------|-----------|--------------|
| 25-250              | 175 | 495 | G1/2" | G1/2"   | 3,7         | 1046,20   | 6820 0032 20 |
| 50-500              | 175 | 510 | G1/2" | G1"     | 4,7         | 1104,55   | 6820 0032 22 |
| 75-750              | 175 | 505 | G1/2" | G1 1/4" | 6,0         | 1352,85   | 6820 0032 24 |
| 110-1100            | 175 | 475 | G1/2" | G1 1/2" | 7,0         | 1840,00   | 6820 0032 26 |
|                     |     |     |       |         |             |           |              |
|                     |     |     |       |         |             |           |              |
|                     |     |     |       |         |             |           |              |
|                     |     |     |       |         |             |           |              |
|                     |     |     |       |         |             |           |              |

### Accessories Drive Controller

| Description                                                  | Weight [kg] | Price/EUR | Article No.  |
|--------------------------------------------------------------|-------------|-----------|--------------|
| Set lockable                                                 | 0,1         | 45,00     | 6820 0012 00 |
| Non-Return Valve 1/2 Inch, PN16                              |             | 57,50     | 6820 0032 60 |
| Non-Return Valve 1 Inch, PN16                                |             | 59,50     | 6820 0032 50 |
| Adapter Drive Controller Thread.1/2" - DN15 Clamp DIN32676   | 0,1         | 51,80     | 6820 0033 02 |
| Adapter Drive Controller Thread.1" - DN25 Clamp DIN32676     | 0,2         | 52,40     | 6820 0033 10 |
| Adapter Drive Controller Thread.1 1/4" - DN25 Clamp DIN32676 | 0,2         | 54,30     | 6820 0033 12 |
| Adapter Drive Controller Thread.1 1/2" - DN25 Clamp DIN32676 | 0,2         | 55,90     | 6820 0033 13 |
|                                                              |             |           |              |
|                                                              |             |           |              |

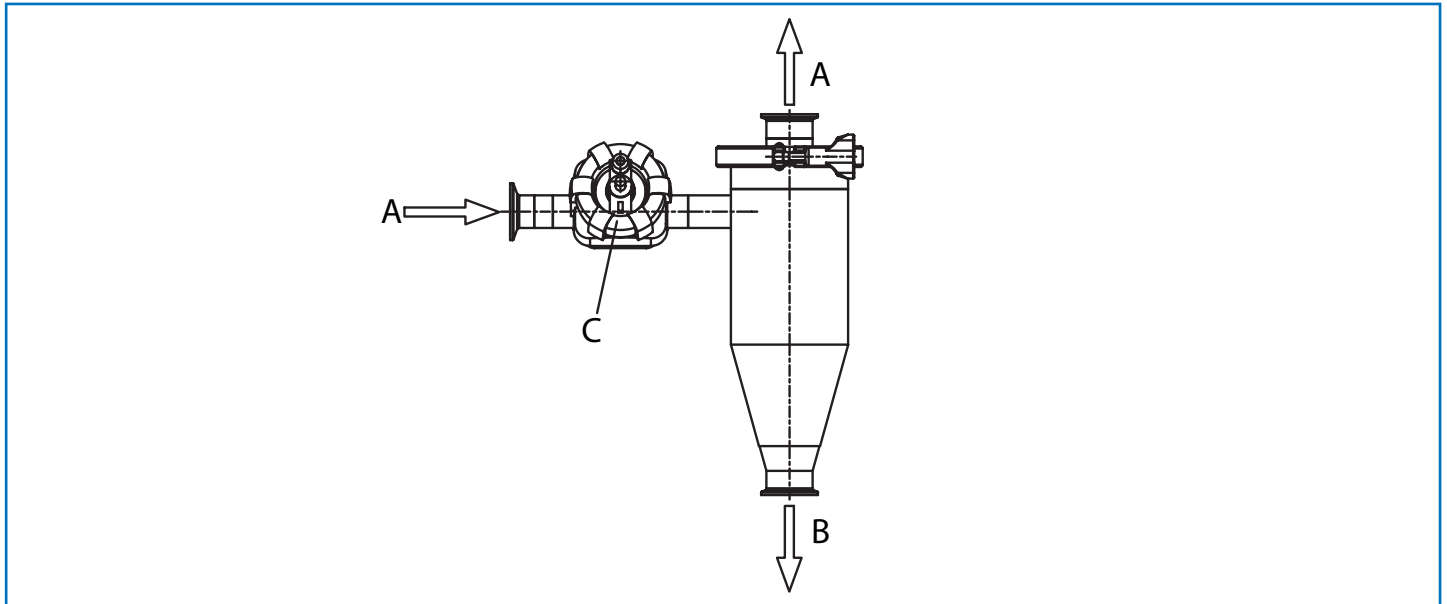
## Cyclone

### Properties

**Function:** pressure compensation when using gaseous drive media  
**Features:** gradual, controlled pressure relief after the pigging process  
 non-pressurized dispersion of propellant gas  
 centrifugal separation of liquid components  
 integrated throttle valve for fine adjustment of the pigging process

**Mode of operation:** automatic  
**Actuation:** manual

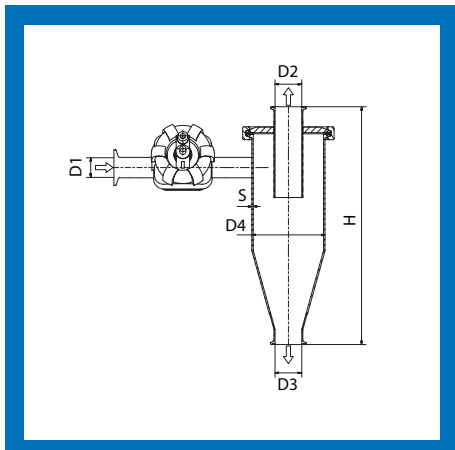
### Technical Description



**A** Drive medium  
**B** Product  
**C** Throttle valve

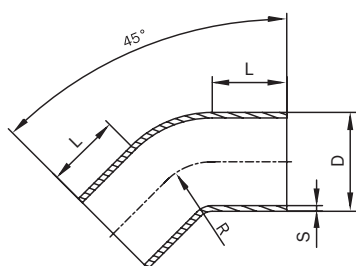
### Technical Parameters

**Materials:** 1.4404 (316L) (contact with product), 1.4301 (304)  
**Pressure stage:** PN 10  
**Seals:** EPDM, others on request  
**Installation orientation:** horizontal  
**Connections:** clamp connection according to DIN 32676



| Cyclone |    |    |    |     |     |   |             |                                              |
|---------|----|----|----|-----|-----|---|-------------|----------------------------------------------|
| Size    | D1 | D2 | D3 | D4  | H   | S | Weight [kg] | 1.4404 (316L)/EPDM                           |
| A       | 16 | 26 | 16 | 85  | 321 | 2 | 3,0         | Price/EUR 903,40 Article No. 6814 0010 002/1 |
| B       | 26 | 38 | 26 | 104 | 360 | 2 | 4,0         | 1143,45 6814 0012 002/1                      |
| C       | 50 | 50 | 66 | 204 | 640 | 2 | 10,0        | 1696,26 6814 0014 002/1                      |
|         |    |    |    |     |     |   |             |                                              |
|         |    |    |    |     |     |   |             |                                              |
|         |    |    |    |     |     |   |             |                                              |
|         |    |    |    |     |     |   |             |                                              |
|         |    |    |    |     |     |   |             |                                              |
|         |    |    |    |     |     |   |             |                                              |

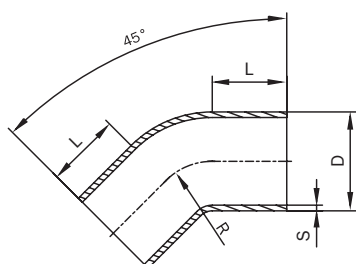
## Pipeline Components



for pipe DIN EN 10357, Series A

**Piggable Bend 45° 1 - 1,5D (BA2/3) Series A**

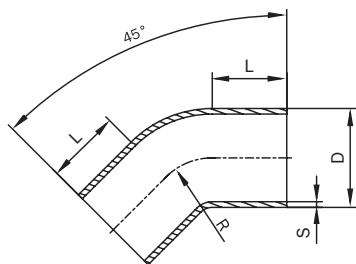
| DN DIN | D   | L  | R   | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|----|-----|-----|-------------|---------------|---------------|
|        |     |    |     |     |             | Price/EUR     | Article No.   |
| 25     | 29  | 40 | 50  | 1.5 | 0.12        | *             | 6802 1205 002 |
| 40     | 41  | 40 | 60  | 1.5 | 0.19        | *             | 6802 1207 002 |
| 50     | 53  | 40 | 70  | 1.5 | 0.26        | *             | 6802 1208 002 |
| 65     | 70  | 40 | 80  | 2   | 0.49        | *             | 6802 1209 002 |
| 80     | 85  | 55 | 90  | 2   | 0.76        | *             | 6802 1210 002 |
| 100    | 104 | 55 | 100 | 2   | 0.97        | *             | 6802 1212 002 |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |



for pipe DIN EN 10357, Series D

**Piggable Bend 45° 1 - 1,5D (BA2/3) Series D**

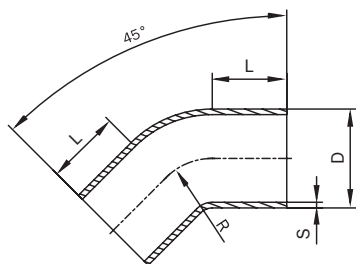
| DN Inch | D     | L  | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|----|-------|------|-------------|---------------|---------------|
|         |       |    |       |      |             | Price/EUR     | Article No.   |
| 1"      | 25.4  | 40 | 38.1  | 1.65 | 0.11        | *             | 6802 1254 002 |
| 1 1/2"  | 38.1  | 40 | 57.2  | 1.65 | 0.19        | *             | 6802 1257 002 |
| 2"      | 50.8  | 40 | 76.2  | 1.65 | 0.29        | *             | 6802 1258 002 |
| 2 1/2"  | 63.5  | 40 | 95.3  | 1.65 | 0.48        | *             | 6802 1259 002 |
| 3"      | 76.2  | 55 | 114.3 | 1.65 | 0.68        | *             | 6802 1260 002 |
| 4"      | 101.6 | 55 | 152.4 | 2.11 | 1.22        | *             | 6802 1262 002 |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |



for pipe DIN EN 10357, Series C

**Piggable Bend 45° 1 - 1,5D (BA2/3) Series C**

| DN ISO | D     | L  | R     | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|----|-------|-----|-------------|---------------|---------------|
|        |       |    |       |     |             | Price/EUR     | Article No.   |
| 33.7   | 33.7  | 40 | 38    | 2   | 0.18        | *             | 6802 1279 002 |
| 48.3   | 48.3  | 40 | 57    | 2   | 0.28        | *             | 6802 1281 002 |
| 60.3   | 60.3  | 40 | 76    | 2   | 0.45        | *             | 6802 1282 002 |
| 76.1   | 76.1  | 55 | 95    | 2   | 0.69        | *             | 6802 1283 002 |
| 88.9   | 88.9  | 55 | 114.5 | 2.3 | 1.25        | *             | 6802 1284 002 |
| 114.3  | 114.3 | 55 | 152.5 | 2.3 | 2.18        | *             | 6802 1285 002 |
|        |       |    |       |     |             |               |               |
|        |       |    |       |     |             |               |               |
|        |       |    |       |     |             |               |               |
|        |       |    |       |     |             |               |               |



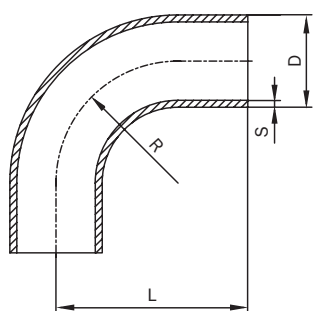
for pipe DIN EN 10357, Series D

**Piggable Bend 45° 1 - 1,5D (BA2/3) Series D**

| DN SMS | D    | L  | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|--------|------|----|-------|------|-------------|---------------|---------------|
|        |      |    |       |      |             | Price/EUR     | Article No.   |
| 25     | 25   | 40 | 37.5  | 1.25 | 0.08        | *             | 6802 1291 002 |
| 38     | 38   | 40 | 57    | 1.25 | 0.15        | *             | 6802 1292 002 |
| 51     | 51   | 40 | 76.5  | 1.25 | 0.22        | *             | 6802 1293 002 |
| 63     | 63.5 | 55 | 95.3  | 1.5  | 0.43        | *             | 6802 1294 002 |
| 76     | 76.1 | 65 | 112.2 | 1.6  | 0.66        | *             | 6802 1295 002 |
|        |      |    |       |      |             |               |               |
|        |      |    |       |      |             |               |               |
|        |      |    |       |      |             |               |               |
|        |      |    |       |      |             |               |               |

Also available in DIN 2430. Please inquire.

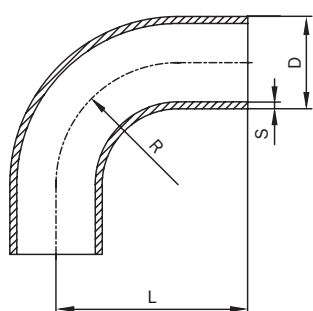
## Pipeline Components



for pipe DIN EN 10357, Series A

### Piggable Bend 90° 1 - 1,5D (BA2/3) Series A

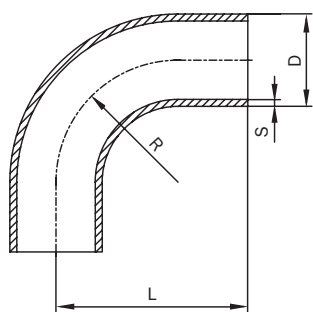
| DN DIN | D   | L   | R   | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|-----|-----|-----|-------------|---------------|---------------|
|        |     |     |     |     |             | Price/EUR     | Article No.   |
| 25     | 29  | 90  | 50  | 1.5 | 0.17        | *             | 6802 1005 002 |
| 40     | 41  | 100 | 60  | 1.5 | 0.26        | *             | 6802 1007 002 |
| 50     | 53  | 110 | 70  | 1.5 | 0.37        | *             | 6802 1008 002 |
| 65     | 70  | 120 | 80  | 2   | 0.71        | *             | 6802 1009 002 |
| 80     | 85  | 145 | 90  | 2   | 1.05        | *             | 6802 1010 002 |
| 100    | 104 | 155 | 100 | 2   | 1.37        | *             | 6802 1012 002 |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |



for pipe DIN EN 10357, Series D

### Piggable Bend 90° 1 - 1,5D (BA2/3) Series D

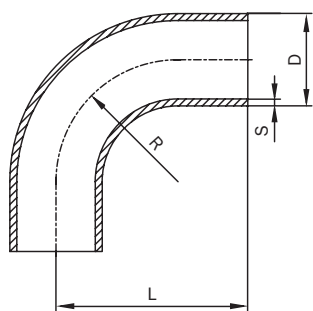
| DN Inch | D     | L   | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|-----|-------|------|-------------|---------------|---------------|
|         |       |     |       |      |             | Price/EUR     | Article No.   |
| 25.4    | 25.4  | 80  | 38.1  | 1.65 | 0.14        | *             | 6802 1054 002 |
| 38.1    | 38.1  | 100 | 57.2  | 1.65 | 0.26        | *             | 6802 1057 002 |
| 50.8    | 50.8  | 120 | 76.2  | 1.65 | 0.47        | *             | 6802 1058 002 |
| 63.5    | 63.5  | 135 | 95.3  | 1.65 | 0.69        | *             | 6802 1059 002 |
| 76.2    | 76.2  | 170 | 114.3 | 1.65 | 0.93        | *             | 6802 1060 002 |
| 101.6   | 101.6 | 210 | 152.4 | 2.11 | 1.90        | *             | 6802 1062 002 |
|         |       |     |       |      |             |               |               |
|         |       |     |       |      |             |               |               |
|         |       |     |       |      |             |               |               |
|         |       |     |       |      |             |               |               |



for pipe DIN EN 10357, Series C

### Piggable Bend 90° 1 - 1,5D (BA2/3) Series C

| DN ISO | D     | L   | R     | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|-----|-------|-----|-------------|---------------|---------------|
|        |       |     |       |     |             | Price/EUR     | Article No.   |
| 33.7   | 33.7  | 80  | 38    | 2   | 0.26        | *             | 6802 1079 002 |
| 48.3   | 48.3  | 100 | 57    | 2   | 0.41        | *             | 6802 1081 002 |
| 60.3   | 60.3  | 115 | 76    | 2   | 0.61        | *             | 6802 1082 002 |
| 76.1   | 76.1  | 150 | 95    | 2   | 0.86        | *             | 6802 1083 002 |
| 88.9   | 88.9  | 170 | 114.5 | 2.3 | 1.46        | *             | 6802 1084 002 |
| 114.3  | 114.3 | 210 | 152.5 | 2.3 | 2.27        | *             | 6802 1085 002 |
|        |       |     |       |     |             |               |               |
|        |       |     |       |     |             |               |               |
|        |       |     |       |     |             |               |               |
|        |       |     |       |     |             |               |               |



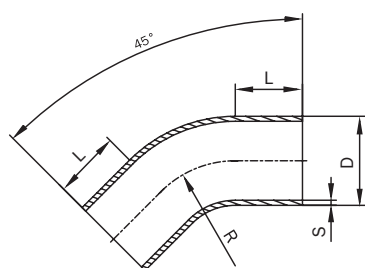
for pipe DIN EN 10357, Series D

### Piggable Bend 90° 1 - 1,5D (BA2/3) Series D

| DN SMS | D    | L   | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|--------|------|-----|-------|------|-------------|---------------|---------------|
|        |      |     |       |      |             | Price/EUR     | Article No.   |
| 25     | 25   | 80  | 37.5  | 1.25 | 0.10        | *             | 6802 1091 002 |
| 38     | 38   | 100 | 57    | 1.25 | 0.20        | *             | 6802 1092 002 |
| 51     | 51   | 115 | 76.5  | 1.25 | 0.31        | *             | 6802 1093 002 |
| 63     | 63.5 | 150 | 95.3  | 1.5  | 0.61        | *             | 6802 1094 002 |
| 76     | 76.1 | 170 | 112.2 | 1.6  | 0.88        | *             | 6802 1095 002 |
|        |      |     |       |      |             |               |               |
|        |      |     |       |      |             |               |               |
|        |      |     |       |      |             |               |               |
|        |      |     |       |      |             |               |               |

Also available in DIN 2430. Please inquire.

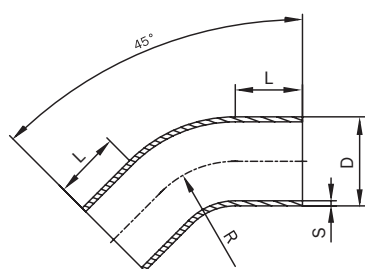
## Pipeline Components



for pipe DIN EN 10357, Series A

### Piggable Bend 45° 2,5D (BA5) Series A

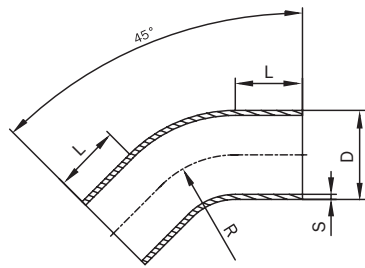
| DN DIN | D   | L  | R   | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|----|-----|-----|-------------|---------------|---------------|
|        |     |    |     |     |             | Price/EUR     | Article No.   |
| 25     | 29  | 40 | 65  | 1.5 | 0.17        | *             | 6802 1305 002 |
| 40     | 41  | 40 | 95  | 1.5 | 0.23        | *             | 6802 1307 002 |
| 50     | 53  | 40 | 125 | 1.5 | 0.35        | *             | 6802 1308 002 |
| 65     | 70  | 40 | 160 | 2   | 0.71        | *             | 6802 1309 002 |
| 80     | 85  | 55 | 200 | 2   | 1.12        | *             | 6802 1310 002 |
| 100    | 104 | 55 | 250 | 2   | 1.58        | *             | 6802 1312 002 |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |
|        |     |    |     |     |             |               |               |



for pipe DIN EN 10357, Series D

### Piggable Bend 45° 2,5D (BA5) Series D

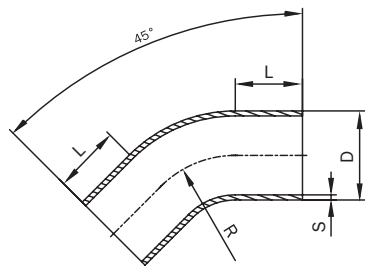
| DN Inch | D     | L  | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|----|-------|------|-------------|---------------|---------------|
|         |       |    |       |      |             | Price/EUR     | Article No.   |
| 1"      | 25.4  | 40 | 52.5  | 1.65 | 0.12        | *             | 6802 1354 002 |
| 1 1/2"  | 38.1  | 40 | 82.5  | 1.65 | 0.22        | *             | 6802 1357 002 |
| 2"      | 50.8  | 40 | 115   | 1.65 | 0.39        | *             | 6802 1358 002 |
| 2 1/2"  | 63.5  | 40 | 142.5 | 1.65 | 0.49        | *             | 6802 1359 002 |
| 3"      | 76.2  | 55 | 175   | 1.65 | 0.77        | *             | 6802 1360 002 |
| 4"      | 101.6 | 55 | 237.5 | 2.11 | 1.57        | *             | 6802 1362 002 |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |
|         |       |    |       |      |             |               |               |



for pipe DIN EN 10357, Series C

### Piggable Bend 45° 2,5D (BA5) Series C

| DN ISO | D     | L  | R    | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|----|------|-----|-------------|---------------|---------------|
|        |       |    |      |     |             | Price/EUR     | Article No.   |
| 33.7   | 33.7  | 40 | 72.5 | 2   | 0.24        | *             | 6802 1379 002 |
| 48.3   | 48.3  | 40 | 110  | 2   | 0.46        | *             | 6802 1381 002 |
| 60.3   | 60.3  | 40 | 135  | 2   | 0.61        | *             | 6802 1382 002 |
| 76.1   | 76.1  | 55 | 175  | 2   | 0.93        | *             | 6802 1383 002 |
| 88.9   | 88.9  | 55 | 205  | 2.3 | 1.41        | *             | 6802 1384 002 |
| 114.3  | 114.3 | 55 | 270  | 2.3 | 2.29        | *             | 6802 1385 002 |
|        |       |    |      |     |             |               |               |
|        |       |    |      |     |             |               |               |
|        |       |    |      |     |             |               |               |
|        |       |    |      |     |             |               |               |



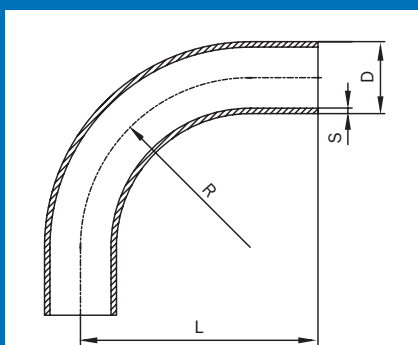
for pipe DIN EN 10357, Series D

### Piggable Bend 45° 2,5D (BA5) Series D

| DN SMS | D    | L  | R   | S    | Weight [kg] | 1.4404 (316L) |               |
|--------|------|----|-----|------|-------------|---------------|---------------|
|        |      |    |     |      |             | Price/EUR     | Article No.   |
| 25     | 25   | 40 | 75  | 1.25 | 0.10        | *             | 6802 1391 002 |
| 38     | 38   | 40 | 115 | 1.25 | 0.20        | *             | 6802 1392 002 |
| 51     | 51   | 40 | 150 | 1.25 | 0.31        | *             | 6802 1393 002 |
| 63     | 63.5 | 55 | 185 | 1.5  | 0.53        | *             | 6802 1394 002 |
| 76     | 76.1 | 65 | 215 | 1.6  | 0.84        | *             | 6802 1395 002 |
|        |      |    |     |      |             |               |               |
|        |      |    |     |      |             |               |               |
|        |      |    |     |      |             |               |               |
|        |      |    |     |      |             |               |               |
|        |      |    |     |      |             |               |               |

Also available in DIN 2430. Please inquire.

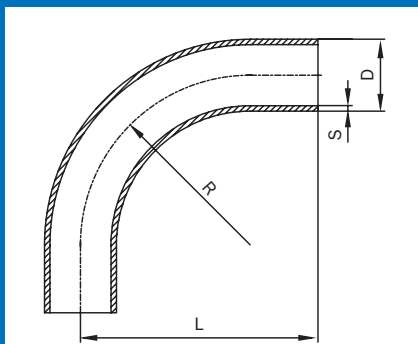
## Pipeline Components



for pipe DIN EN 10357, Series A

### Piggable Bend 90° 2,5D (BA5) Series A

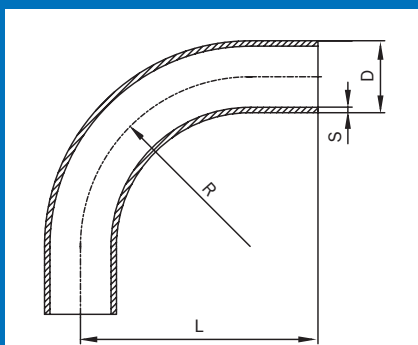
| DN DIN | D   | L   | R   | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|-----|-----|-----|-------------|---------------|---------------|
|        |     |     |     |     |             | Price/EUR     | Article No.   |
| 25     | 29  | 165 | 65  | 1.5 | 0.31        | *             | 6802 1105 002 |
| 40     | 41  | 245 | 95  | 1.5 | 0.67        | *             | 6802 1107 002 |
| 50     | 53  | 275 | 125 | 1.5 | 0.97        | *             | 6802 1108 002 |
| 65     | 70  | 310 | 160 | 2   | 1.89        | *             | 6802 1109 002 |
| 80     | 85  | 350 | 200 | 2   | 2.57        | *             | 6802 1110 002 |
| 100    | 104 | 400 | 250 | 2   | 3.57        | *             | 6802 1112 002 |



for pipe DIN EN 10357, Series D

### Piggable Bend 90° 2,5D (BA5) Series D

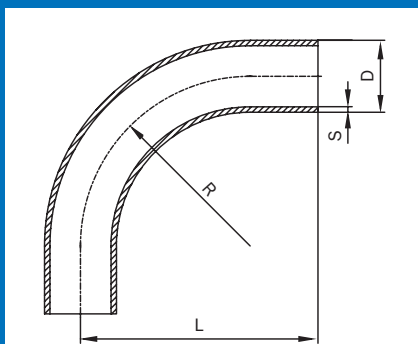
| DN Inch | D     | L   | R     | S    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|-----|-------|------|-------------|---------------|---------------|
|         |       |     |       |      |             | Price/EUR     | Article No.   |
| 1"      | 25.4  | 175 | 52.5  | 1.65 | 0.32        | *             | 6802 1154 002 |
| 1 1/2"  | 38.1  | 230 | 82.5  | 1.65 | 0.65        | *             | 6802 1157 002 |
| 2"      | 50.8  | 265 | 115   | 1.65 | 0.57        | *             | 6802 1158 002 |
| 2 1/2"  | 63.5  | 290 | 142.5 | 1.65 | 1.57        | *             | 6802 1159 002 |
| 3"      | 76.2  | 325 | 175   | 1.65 | 1.78        | *             | 6802 1160 002 |
| 4"      | 101.6 | 350 | 237.5 | 2.11 | 3.17        | *             | 6802 1162 002 |



for pipe DIN EN 10357, Series C

### Piggable Bend 90° 2,5D (BA5) Series C

| DN ISO | D     | L     | R    | S   | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|-------|------|-----|-------------|---------------|---------------|
|        |       |       |      |     |             | Price/EUR     | Article No.   |
| 33.7   | 33.7  | 172.5 | 72.5 | 2   | 0.50        | *             | 6802 1179 002 |
| 48.3   | 48.3  | 220   | 110  | 2   | 0.92        | *             | 6802 1181 002 |
| 60.3   | 60.3  | 245   | 135  | 2   | 1.27        | *             | 6802 1182 002 |
| 76.1   | 76.1  | 295   | 175  | 2   | 1.93        | *             | 6802 1183 002 |
| 88.9   | 88.9  | 355   | 205  | 2.3 | 3.13        | *             | 6802 1184 002 |
| 114.3  | 114.3 | 400   | 270  | 2.3 | 4.45        | *             | 6802 1185 002 |



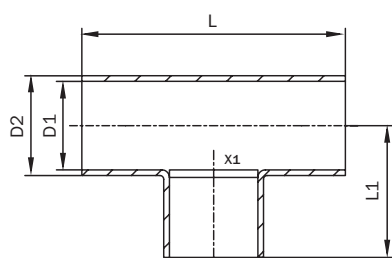
for pipe DIN EN 10357, Series D

### Piggable Bend 90° 2,5D (BA5) Series D

| DN SMS | D    | L   | R   | S    | Weight [kg] | 1.4404 (316L) |               |
|--------|------|-----|-----|------|-------------|---------------|---------------|
|        |      |     |     |      |             | Price/EUR     | Article No.   |
| 25     | 25   | 175 | 75  | 1.25 | 0.24        | *             | 6802 1191 002 |
| 38     | 38   | 265 | 115 | 1.25 | 0.56        | *             | 6802 1192 002 |
| 51     | 51   | 300 | 150 | 1.25 | 0.84        | *             | 6802 1193 002 |
| 63     | 63.5 | 335 | 185 | 1.5  | 1.34        | *             | 6802 1194 002 |
| 76     | 76.1 | 365 | 215 | 1.6  | 1.92        | *             | 6802 1195 002 |

Also available in DIN 2430. Please inquire.

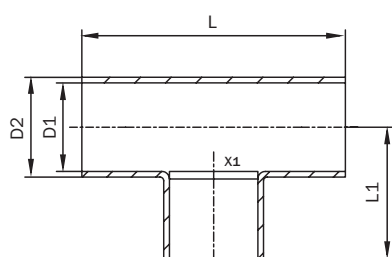
## Pipeline Components



for pipe DIN EN 10357, Series A  
x<sub>1</sub> - bar

**Piggable T-piece, long, Series A**

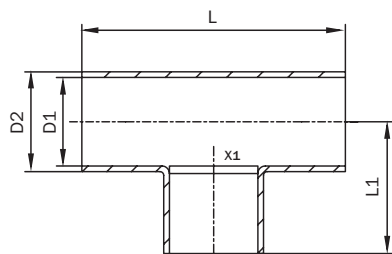
| DN DIN | D1  | D2  | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|-----|-----|-----|-------------|---------------|---------------|
|        |     |     |     |     |             | Price/EUR     | Article No.   |
| 25     | 26  | 29  | 100 | 50  | 0.14        | *             | 6822 0005 002 |
| 40     | 38  | 41  | 120 | 60  | 0.24        | *             | 6822 0007 002 |
| 50     | 50  | 53  | 140 | 70  | 0.36        | *             | 6822 0008 002 |
| 65     | 66  | 70  | 160 | 80  | 0.69        | *             | 6822 0009 002 |
| 80     | 81  | 85  | 180 | 90  | 0.93        | *             | 6822 0010 002 |
| 100    | 100 | 104 | 200 | 100 | 1.23        | *             | 6822 0012 002 |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |
|        |     |     |     |     |             |               |               |



for pipe DIN EN 10357, Series D  
x<sub>1</sub> - bar

**Piggable T-piece, long, Series D**

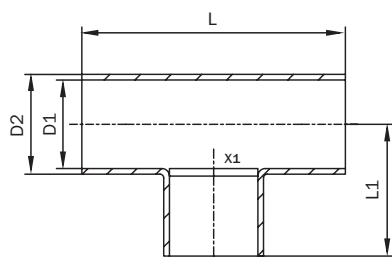
| DN Inch | D1    | D2    | L     | L1    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|-------|-------|-------|-------------|---------------|---------------|
|         |       |       |       |       |             | Price/EUR     | Article No.   |
| 1"      | 22.1  | 25.4  | 108   | 54    | 0.15        | *             | 6822 0054 002 |
| 1 1/2"  | 34.8  | 38.1  | 120.6 | 60.3  | 0.25        | *             | 6822 0057 002 |
| 2"      | 47.5  | 50.8  | 146   | 73    | 0.40        | *             | 6822 0058 002 |
| 2 1/2"  | 60.2  | 63.5  | 158.8 | 79.4  | 0.51        | *             | 6822 0059 002 |
| 3"      | 72.9  | 76.2  | 171.4 | 85.7  | 0.65        | *             | 6822 0060 002 |
| 4"      | 97.38 | 101.6 | 209.6 | 104.8 | 1.32        | *             | 6822 0062 002 |
|         |       |       |       |       |             |               |               |
|         |       |       |       |       |             |               |               |
|         |       |       |       |       |             |               |               |
|         |       |       |       |       |             |               |               |
|         |       |       |       |       |             |               |               |



for pipe DIN EN 10357, Series C  
x<sub>1</sub> - bar

**Piggable T-piece, long, Series C**

| DN ISO | D1    | D2    | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|-------|-----|-----|-------------|---------------|---------------|
|        |       |       |     |     |             | Price/EUR     | Article No.   |
| 33.7   | 29.7  | 33.7  | 120 | 50  | 0.26        | *             | 6822 0079 002 |
| 48.3   | 44.3  | 48.3  | 130 | 60  | 0.40        | *             | 6822 0081 002 |
| 60.3   | 56.3  | 60.3  | 180 | 70  | 0.70        | *             | 6822 0082 002 |
| 78.1   | 72.2  | 76.2  | 220 | 80  | 1.07        | *             | 6822 0083 002 |
| 88.9   | 84.3  | 88.9  | 260 | 90  | 1.70        | *             | 6822 0084 002 |
| 114.3  | 109.7 | 114.3 | 320 | 100 | 2.69        | *             | 6822 0085 002 |
|        |       |       |     |     |             |               |               |
|        |       |       |     |     |             |               |               |
|        |       |       |     |     |             |               |               |
|        |       |       |     |     |             |               |               |
|        |       |       |     |     |             |               |               |



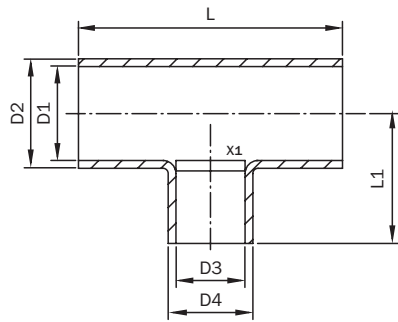
for pipe DIN EN 10357, Series D  
x<sub>1</sub> - bar

**Piggable T-piece, long, Series D**

| DN SMS | D1   | D2   | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|------|------|-----|-----|-------------|---------------|---------------|
|        |      |      |     |     |             | Price/EUR     | Article No.   |
| 25     | 22.6 | 25   | 110 | 55  | 0.11        | *             | 6822 0091 002 |
| 38     | 35.6 | 38   | 140 | 70  | 0.22        | *             | 6822 0092 002 |
| 51     | 48.6 | 51   | 164 | 82  | 0.33        | *             | 6822 0093 002 |
| 63.5   | 60.3 | 63.5 | 210 | 105 | 0.69        | *             | 6822 0094 002 |
| 76.1   | 72.9 | 76.1 | 220 | 110 | 0.87        | *             | 6822 0095 002 |
|        |      |      |     |     |             |               |               |
|        |      |      |     |     |             |               |               |
|        |      |      |     |     |             |               |               |
|        |      |      |     |     |             |               |               |
|        |      |      |     |     |             |               |               |

Also available in DIN 2430. Please inquire.

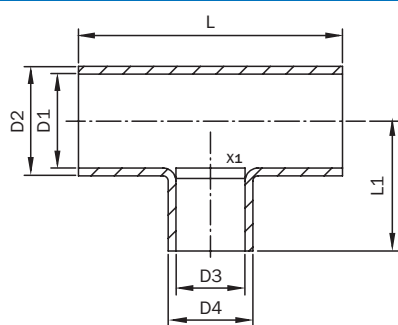
## Pipeline Components



for pipe DIN EN 10357, Series A  
x<sub>1</sub> - bar

**Piggable T-piece, long, reduced Series A**

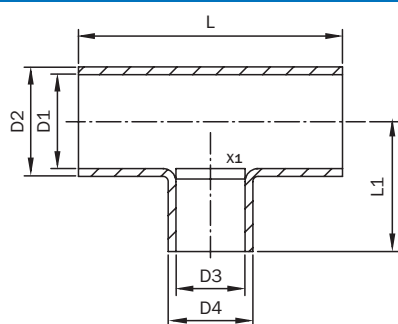
| DN DIN | D1  | D2  | D3 | D4 | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|-----|-----|----|----|-----|-----|-------------|---------------|---------------|
|        |     |     |    |    |     |     |             | Price/EUR     | Article No.   |
| 25     | 26  | 29  | 20 | 23 | 100 | 50  | 0.13        | *             | 6824 0005 002 |
| 40     | 38  | 41  | 26 | 29 | 120 | 60  | 0.22        | *             | 6824 0007 002 |
| 50     | 50  | 53  | 38 | 41 | 140 | 70  | 0.33        | *             | 6824 0008 002 |
| 65     | 66  | 70  | 50 | 53 | 160 | 80  | 0.65        | *             | 6824 0009 002 |
| 80     | 81  | 85  | 66 | 70 | 180 | 90  | 0.88        | *             | 6824 0010 002 |
| 100    | 100 | 104 | 81 | 85 | 200 | 100 | 1.18        | *             | 6824 0012 002 |



for pipe DIN EN 10357, Series D  
x<sub>1</sub> - bar

**Piggable T-piece, long, reduced Series D**

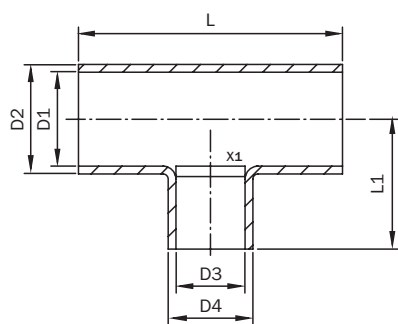
| DN Inch | D1    | D2    | D3    | D4    | L     | L1    | Weight [kg] | 1.4404 (316L) |               |
|---------|-------|-------|-------|-------|-------|-------|-------------|---------------|---------------|
|         |       |       |       |       |       |       |             | Price/EUR     | Article No.   |
| 1"      | 22.1  | 25.4  | 15.75 | 19.05 | 108   | 54    | 0.14        | *             | 6824 0054 002 |
| 1 1/2"  | 34.8  | 38.1  | 22.1  | 25.4  | 120.6 | 60.3  | 0.22        | *             | 6824 0057 002 |
| 2"      | 47.5  | 50.8  | 34.8  | 38.1  | 146   | 73    | 0.36        | *             | 6824 0058 002 |
| 2 1/2"  | 60.2  | 63.5  | 47.5  | 50.8  | 158.8 | 79.4  | 0.49        | *             | 6824 0059 002 |
| 3"      | 72.9  | 76.2  | 60.2  | 63.5  | 171.4 | 85.7  | 0.63        | *             | 6824 0060 002 |
| 4"      | 97.38 | 101.6 | 72.9  | 76.2  | 209.6 | 104.8 | 1.28        | *             | 6824 0062 002 |



for pipe DIN EN 10357, Series C  
x<sub>1</sub> - bar

**Piggable T-piece, long, reduced Series C**

| DN ISO | D1    | D2    | D3   | D4   | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|-------|-------|------|------|-----|-----|-------------|---------------|---------------|
|        |       |       |      |      |     |     |             | Price/EUR     | Article No.   |
| 33.7   | 29.7  | 33.7  | 23.7 | 26.9 | 120 | 60  | 0.24        | *             | 6824 0079 002 |
| 48.3   | 44.3  | 48.3  | 29.7 | 33.7 | 130 | 65  | 0.38        | *             | 6824 0081 002 |
| 60.3   | 56.3  | 60.3  | 44.3 | 48.3 | 180 | 90  | 0.65        | *             | 6824 0082 002 |
| 78.1   | 72.2  | 76.2  | 56.3 | 60.3 | 220 | 110 | 1.01        | *             | 6824 0083 002 |
| 88.9   | 84.3  | 88.9  | 72.2 | 76.2 | 260 | 130 | 1.63        | *             | 6824 0084 002 |
| 114.3  | 109.7 | 114.3 | 84.3 | 88.9 | 320 | 160 | 2.53        | *             | 6824 0085 002 |



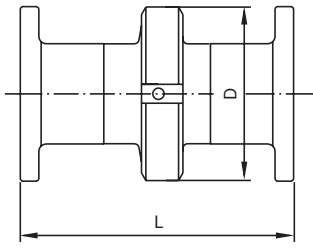
for pipe DIN EN 10357, Series D  
x<sub>1</sub> - bar

**Piggable T-piece, long, reduced Series D**

| DN SMS | D1   | D2   | D3   | D4   | L   | L1  | Weight [kg] | 1.4404 (316L) |               |
|--------|------|------|------|------|-----|-----|-------------|---------------|---------------|
|        |      |      |      |      |     |     |             | Price/EUR     | Article No.   |
| 25     | 22.6 | 25   | 15.6 | 18   | 110 | 55  | 0.10        | *             | 6824 0091 002 |
| 38     | 35.6 | 38   | 22.6 | 25   | 140 | 70  | 0.19        | *             | 6824 0092 002 |
| 51     | 48.6 | 51   | 35.6 | 38   | 164 | 82  | 0.30        | *             | 6824 0093 002 |
| 63.5   | 60.3 | 63.5 | 48.6 | 51   | 210 | 105 | 0.66        | *             | 6824 0094 002 |
| 76.1   | 72.9 | 76.1 | 60.3 | 63.5 | 220 | 110 | 0.82        | *             | 6824 0095 002 |

Also available in DIN 2430. Please inquire.

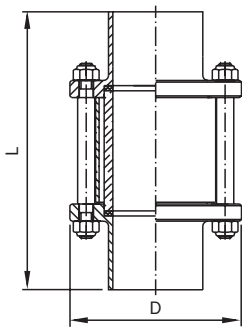
## Pipeline Components



for pipe DIN EN 10357, Series A  
Other variants on request.

### Swivel Joint Series A

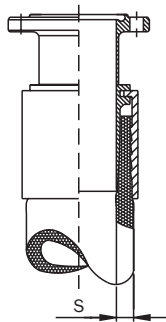
| DN DIN | D   | L   | Weight [kg] | 1.4404 (316L)/EPDM |               |
|--------|-----|-----|-------------|--------------------|---------------|
|        |     |     |             | Price/EUR          | Article No.   |
| 25     | 63  | 124 | 0.95        | 224,07             | 6829 0105 002 |
| 40     | 78  | 142 | 1.25        | 249,96             | 6829 0107 002 |
| 50     | 92  | 146 | 1.65        | 291,89             | 6829 0108 002 |
| 65     | 112 | 172 | 2.50        | 360,64             | 6829 0109 002 |
| 80     | 127 | 190 | 3.60        | 431,55             | 6829 0110 002 |
| 100    | 148 | 204 | 5.30        | 499,05             | 6829 0112 002 |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |
|        |     |     |             |                    |               |



for pipe DIN EN 10357, Series A  
Other variants on request.

### Inline Sight Glass Series A

| DN DIN | D   | L   | Weight [kg] | 1.4404 (316L)/EPDM/<br>borosilicate glass |               |
|--------|-----|-----|-------------|-------------------------------------------|---------------|
|        |     |     |             | Price/EUR                                 | Article No.   |
| 25     | 70  | 148 | 0.82        | 100,60                                    | 6830 0105 002 |
| 40     | 90  | 162 | 1.25        | 125,50                                    | 6830 0107 002 |
| 50     | 100 | 162 | 1.50        | 138,85                                    | 6830 0108 002 |
| 65     | 118 | 177 | 1.99        | 167,20                                    | 6830 0109 002 |
| 80     | 130 | 185 | 2.60        | 189,90                                    | 6830 0110 002 |
| 100    | 162 | 219 | 3.12        | 353,30                                    | 6830 0112 002 |
|        |     |     |             |                                           |               |
|        |     |     |             |                                           |               |
|        |     |     |             |                                           |               |
|        |     |     |             |                                           |               |



for pipe DIN EN 10357, Series A  
Other variants on request.

### Hose Series A

| DN DIN | V | Bending<br>radius | Length according to<br>requirements | Weight [kg] | 1.4404 (316L)/Silicone |             |
|--------|---|-------------------|-------------------------------------|-------------|------------------------|-------------|
|        |   |                   |                                     |             | Price/EUR              | Article No. |
| 25     | 3 | 150               | *                                   | 0.93        | *                      |             |
| 40     | 3 | 265               | *                                   | 2.14        | *                      |             |
| 50     | 3 | 300               | *                                   | 2.70        | *                      |             |
| 65     | 3 | 390               | *                                   | 3.38        | *                      |             |
| 80     | 3 | 480               | *                                   | 3.95        | *                      |             |
| 100    | 3 | 600               | *                                   | 5.67        | *                      |             |
|        |   |                   |                                     |             |                        |             |
|        |   |                   |                                     |             |                        |             |
|        |   |                   |                                     |             |                        |             |
|        |   |                   |                                     |             |                        |             |

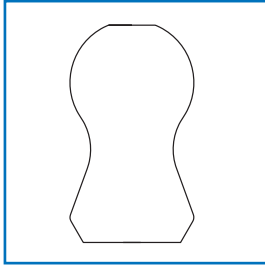
This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Pigs

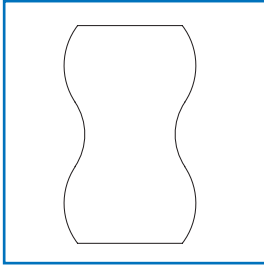
### Properties

AWH offers a variety of pigs, depending on the requirement.

#### Tangent pig and



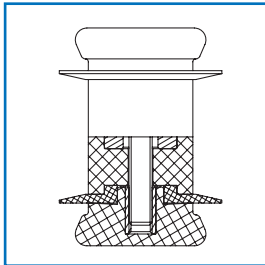
#### Tangent pig double ball



**Features:** single-piece, hygienic full bodies made of low-wear elastomer  
suitable for bends 1,5D (BA3) or larger  
suitable for t-branches with guide  
integrated permanent magnet for detection  
conformance with RL EG1935 and FDA

**Mode of operation:** bidirectional (forwards and backwards)

#### Lip pig



**Features:** multi-part displacers made of resistant plastic  
tough sealing lips made of low-wear elastomer  
replaceable sealing lips  
suitable for bends 2,5D (BA5) or larger  
suitable for reduced t-branches with guide  
integrated permanent magnet for detection  
conformance with RL EG1935 and FDA

**Mode of operation:** bidirectional (forwards and backwards)

### Technical Parameters

#### Tangent pig

**Materials:** silicone, others on request

**Operation temperature:** max. 100°C

#### Lip pig

**Materials:** PVDF / silicone, others on request

**Operation temperature:** max. 100°C

### Color of Pig Elastomer (order instruction)

Please take the respective article number of the desired pig and replace 000 (white) with:

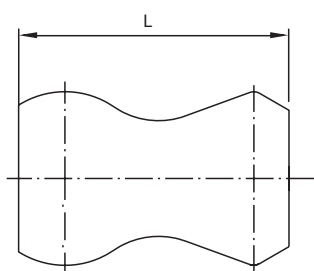
Blue: 100  
Orange: 200  
Red: 300  
Yellow: 400  
Green: 500

Example of tangent pig, short, Series A:

White: 6801 0505 000/0  
Blue: 6801 0505 100/0  
Orange: 6801 0505 200/0

\*only for silicone, without difference in price

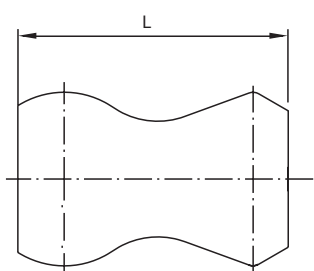
## Pigs



for pipe DIN EN 10357, Series A

### Tangent pig, short, Series A

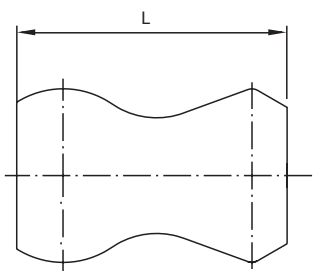
| DN DIN | Pipe-Ø   | L    | Weight [kg] | Silicone (white) |                 |
|--------|----------|------|-------------|------------------|-----------------|
|        |          |      |             | Price/EUR        | Article No.     |
| 25     | 29 x 1.5 | 45   | 0.02        | 111,00           | 6801 0505 000/0 |
| 40     | 41 x 1.5 | 61   | 0.07        | 127,00           | 6801 0507 000/0 |
| 50     | 53 x 1.5 | 76.5 | 0.15        | 174,00           | 6801 0508 000/0 |
| 65     | 70 x 2   | 95   | 0.31        | 216,00           | 6801 0509 000/0 |
| 80     | 85 x 2   | 109  | 0.50        | 304,00           | 6801 0510 000/0 |
| 100    | 104 x 2  | 145  | 0.96        | 437,00           | 6801 0512 000/0 |
|        |          |      |             |                  |                 |
|        |          |      |             |                  |                 |
|        |          |      |             |                  |                 |
|        |          |      |             |                  |                 |



for pipe DIN EN 10357, Series D

### Tangent pig, short, Series D

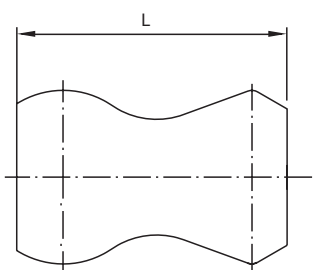
| DN Inch | Pipe-Ø       | L     | Weight [kg] | Silicone (white) |                 |
|---------|--------------|-------|-------------|------------------|-----------------|
|         |              |       |             | Price/EUR        | Article No.     |
| 1"      | 25.4 x 1.65  | 41    | 0.02        | 103,00           | 6801 0554 000/0 |
| 1 1/2"  | 38.1 x 1.65  | 55    | 0.05        | 119,00           | 6801 0557 000/0 |
| 2"      | 50.8 x 1.65  | 73.25 | 0.13        | 169,00           | 6801 0558 000/0 |
| 2 1/2"  | 63.5 x 1.65  | 91    | 0.25        | 205,00           | 6801 0559 000/0 |
| 3"      | 76.2 x 1.65  | 102.5 | 0.40        | 285,00           | 6801 0560 000/0 |
| 4"      | 101.6 x 2.11 | 130.5 | 0.83        | 438,00           | 6801 0562 000/0 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |



for pipe DIN EN 10357, Series C

### Tangent pig, short, Series C

| DN ISO | Pipe-Ø      | L     | Weight [kg] | Silicone (white) |                 |
|--------|-------------|-------|-------------|------------------|-----------------|
|        |             |       |             | Price/EUR        | Article No.     |
| 33.7   | 33.7 x 2    | 52    | 0.03        | 105,00           | 6801 0579 000/0 |
| 48.3   | 48.3 x 2    | 71    | 0.11        | 165,00           | 6801 0581 000/0 |
| 60.3   | 60.3 x 2    | 83.5  | 0.20        | 185,00           | 6801 0582 000/0 |
| 78.1   | 76.1 x 2    | 107.5 | 0.39        | 264,00           | 6801 0583 000/0 |
| 88.9   | 88.9 x 2.3  | 115   | 0.56        | 350,00           | 6801 0584 000/0 |
| 114.3  | 114.3 x 2.3 | 147.5 | 1.26        | 439,00           | 6801 0585 000/0 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |



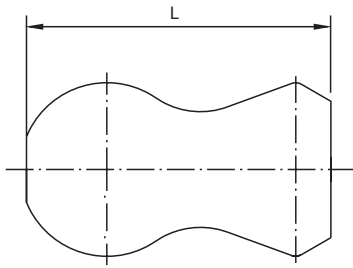
for pipe acc. DIN 2430

### Tangent Pig, short, DIN 2430

| DIN 2430 | Pipe-Ø    | L    | Weight [kg] | Silicone (white) |                 |
|----------|-----------|------|-------------|------------------|-----------------|
|          |           |      |             | Price/EUR        | Article No.     |
| 25       | 33,7x2,0  | 58,4 | 0,03        | 125,00           | 6801 0525 000/0 |
| 50       | 60,3x2,9  | 100  | 0,19        | 282,00           | 6801 0526 000/0 |
| 80       | 88,9x3,2  | 137  | 0,67        | 370,00           | 6801 0527 000/0 |
| 100      | 114,3x3,6 | 176  | 1,41        | 468,00           | 6801 0528 000/0 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |

Also available in DN SMS. Please inquire.

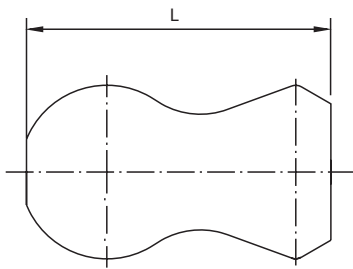
## Pigs



for pipe DIN EN 10357, Series A

### Tangent Pig, long, Series A

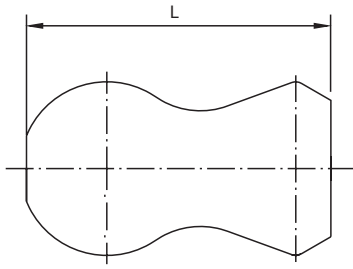
| DN DIN | Pipe-Ø   | L     | Weight [kg] | Silicone (white) |                 |
|--------|----------|-------|-------------|------------------|-----------------|
|        |          |       |             | Price/EUR        | Article No.     |
| 25     | 29 x 1.5 | 49.22 | 0.03        | 121,00           | 6801 0605 000/0 |
| 40     | 41 x 1.5 | 69.27 | 0.08        | 137,00           | 6801 0607 000/0 |
| 50     | 53 x 1.5 | 87.63 | 0.16        | 184,00           | 6801 0608 000/0 |
| 65     | 70 x 2   | 112.2 | 0.34        | 226,00           | 6801 0609 000/0 |
| 80     | 85 x 2   | 134.8 | 0.58        | 314,00           | 6801 0610 000/0 |
| 100    | 104 x 2  | 165.5 | 1.03        | 447,00           | 6801 0612 000/0 |
|        |          |       |             |                  |                 |
|        |          |       |             |                  |                 |
|        |          |       |             |                  |                 |
|        |          |       |             |                  |                 |



for pipe DIN EN 10357, Series D

### Tangent Pig, long, Series D

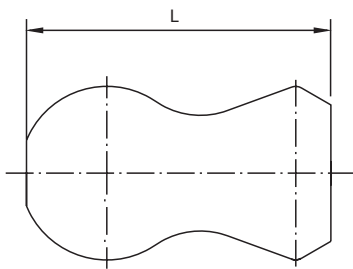
| DN Inch | Pipe-Ø       | L     | Weight [kg] | Silicone (white) |                 |
|---------|--------------|-------|-------------|------------------|-----------------|
|         |              |       |             | Price/EUR        | Article No.     |
| 1"      | 25.4 x 1.65  | 43.05 | 0.02        | 113,00           | 6801 0654 000/0 |
| 1 1/2"  | 38.1 x 1.65  | 64.5  | 0.06        | 129,00           | 6801 0657 000/0 |
| 2"      | 50.8 x 1.65  | 84.8  | 0.15        | 179,00           | 6801 0658 000/0 |
| 2 1/2"  | 63.5 x 1.65  | 103.1 | 0.26        | 215,00           | 6801 0659 000/0 |
| 3"      | 76.2 x 1.65  | 122.7 | 0.45        | 295,00           | 6801 0660 000/0 |
| 4"      | 101.6 x 2.11 | 161.7 | 0.96        | 448,00           | 6801 0662 000/0 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |
|         |              |       |             |                  |                 |



for pipe DIN EN 10357, Series C

### Tangent Pig, long, Series C

| DN ISO | Pipe-Ø      | L     | Weight [kg] | Silicone (white) |                 |
|--------|-------------|-------|-------------|------------------|-----------------|
|        |             |       |             | Price/EUR        | Article No.     |
| 33.7   | 33.7 x 2    | 58.39 | 0.04        | 115,00           | 6801 0679 000/0 |
| 48.3   | 48.3 x 2    | 79.14 | 0.12        | 165,00           | 6801 0681 000/0 |
| 60.3   | 60.3 x 2    | 97.91 | 0.22        | 195,00           | 6801 0682 000/0 |
| 78.1   | 76.1 x 2    | 130.3 | 0.44        | 274,00           | 6801 0683 000/0 |
| 88.9   | 88.9 x 2.3  | 142.5 | 0.66        | 360,00           | 6801 0684 000/0 |
| 114.3  | 114.3 x 2.3 | 185.9 | 1.49        | 449,00           | 6801 0685 000/0 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |
|        |             |       |             |                  |                 |



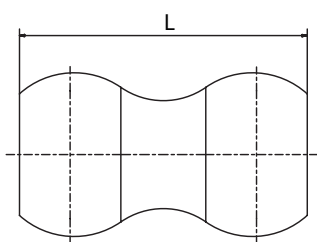
for pipe acc. 2430

### Tangent Pig, long, DIN 2430

| DIN 2430 | Pipe-Ø    | L    | Weight [kg] | Silicone (white) |                 |
|----------|-----------|------|-------------|------------------|-----------------|
|          |           |      |             | Price/EUR        | Article No.     |
| 25       | 33,7x2,0  | 58,4 | 0,04        | 135,00           | 6801 0625 000/0 |
| 50       | 60,3x2,9  | 100  | 0,2         | 290,00           | 6801 0626 000/0 |
| 80       | 88,9x3,2  | 137  | 0,7         | 378,00           | 6801 0627 000/0 |
| 100      | 114,3x3,6 | 176  | 1,45        | 471,50           | 6801 0628 000/0 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |
|          |           |      |             |                  |                 |

Also available in DN SMS. Please inquire.

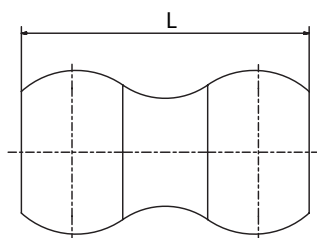
## Pigs



for pipe DIN EN 10357, Series A

### Tangent Pig, Double Ball, Series A

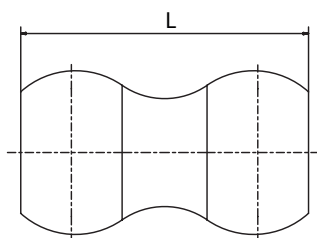
| DN DIN | Pipe-Ø | L     | Weight [kg] | PVDF/Silicone (white) |                 |
|--------|--------|-------|-------------|-----------------------|-----------------|
|        |        |       |             | Price/EUR             | Article No.     |
| 25     | 29x1,5 | 49,2  | 0,03        | 135,52                | 6801 0705 000/0 |
| 40     | 41x1,5 | 69,5  | 0,08        | 153,44                | 6801 0707 000/0 |
| 50     | 53x1,5 | 87,5  | 0,17        | 206,08                | 6801 0708 000/0 |
| 65     | 70x2   | 112   | 0,44        | 253,12                | 6801 0709 000/0 |
| 80     | 85x2   | 135   | 0,75        | 351,68                | 6801 0710 000/0 |
| 100    | 104x2  | 165,5 | 1,23        | 500,64                | 6801 0712 000/0 |
|        |        |       |             |                       |                 |
|        |        |       |             |                       |                 |
|        |        |       |             |                       |                 |
|        |        |       |             |                       |                 |
|        |        |       |             |                       |                 |



for pipe DIN EN 10357, Series D

### Tangent Pig, Double Ball, Series D

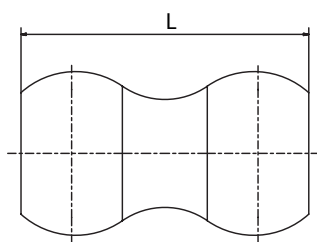
| DN Inch | Pipe-Ø     | L     | Weight [kg] | PVDF/Silicone (white) |                 |
|---------|------------|-------|-------------|-----------------------|-----------------|
|         |            |       |             | Price/EUR             | Article No.     |
| 1"      | 25,4x1,65  | 43,05 | 0,04        | 126,56                | 6801 0754 000/0 |
| 1 1/2"  | 38,1x1,65  | 64,5  | 0,07        | 144,48                | 6801 0757 000/0 |
| 2"      | 50,8x1,65  | 84,8  | 0,17        | 200,48                | 6801 0758 000/0 |
| 2 1/2"  | 63,5x1,65  | 103,1 | 0,30        | 240,80                | 6801 0759 000/0 |
| 3"      | 76,2x1,65  | 122,7 | 0,48        | 330,40                | 6801 0760 000/0 |
| 4"      | 101,6x2,11 | 161,7 | 1,10        | 501,76                | 6801 0762 000/0 |
|         |            |       |             |                       |                 |
|         |            |       |             |                       |                 |
|         |            |       |             |                       |                 |
|         |            |       |             |                       |                 |
|         |            |       |             |                       |                 |



for pipe DIN EN 10357, Series C

### Tangent Pig, Double Ball, Series C

| DN ISO | Pipe-Ø    | L     | Weight [kg] | PVDF/Silicone (white) |                 |
|--------|-----------|-------|-------------|-----------------------|-----------------|
|        |           |       |             | Price/EUR             | Article No.     |
| 33,7   | 33,7x2    | 58,39 | 0,05        | 128,80                | 6801 0779 000/0 |
| 48,3   | 48,3x2    | 79,14 | 0,15        | 184,80                | 6801 0781 000/0 |
| 60,3   | 60,3x2    | 97,91 | 0,25        | 218,40                | 6801 0782 000/0 |
| 78,1   | 76,1x2    | 130,3 | 0,47        | 306,88                | 6801 0783 000/0 |
| 88,9   | 88,9x2,3  | 142,5 | 0,70        | 403,20                | 6801 0784 000/0 |
| 114,3  | 114,3x2,3 | 185,9 | 1,52        | 502,88                | 6801 0785 000/0 |
|        |           |       |             |                       |                 |
|        |           |       |             |                       |                 |
|        |           |       |             |                       |                 |
|        |           |       |             |                       |                 |
|        |           |       |             |                       |                 |



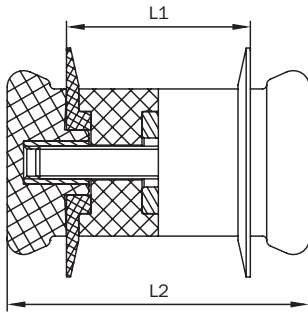
for pipe acc. 2430

### Tangent Pig, Double Ball, DIN 2430

| DIN 2430 | Pipe-Ø    | L    | Weight [kg] | PVDF/Silicone (white) |                 |
|----------|-----------|------|-------------|-----------------------|-----------------|
|          |           |      |             | Price/EUR             | Article No.     |
| 25       | 33,7x2,0  | 58,4 | 0,05        | 128,80                | 6801 0725 000/0 |
| 50       | 60,3x2,9  | 100  | 0,24        | 238,65                | 6801 0726 000/0 |
| 80       | 88,9x3,2  | 137  | 0,72        | 423,35                | 6801 0727 000/0 |
| 100      | 114,3x3,6 | 176  | 1,51        | 512,90                | 6801 0728 000/0 |
|          |           |      |             |                       |                 |
|          |           |      |             |                       |                 |
|          |           |      |             |                       |                 |
|          |           |      |             |                       |                 |
|          |           |      |             |                       |                 |
|          |           |      |             |                       |                 |

Also available in DN SMS. Please inquire.

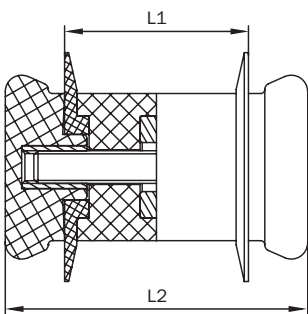
## Pigs



for pipe DIN EN 10357, Series A

### Lip Pig Series A

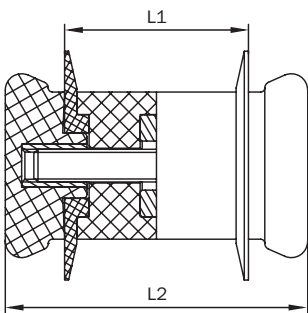
| DN DIN | Pipe-Ø   | L1 | L2  | Weight [kg] | PVDF/Silicone (white) |                 |
|--------|----------|----|-----|-------------|-----------------------|-----------------|
|        |          |    |     |             | Price/EUR             | Article No.     |
| 25     | 29 x 1.5 | 26 | 39  | 0.02        | 309,00                | 6801 0405 000/0 |
| 40     | 41 x 1.5 | 38 | 57  | 0.10        | 319,00                | 6801 0407 000/0 |
| 50     | 53 x 1.5 | 46 | 74  | 0.19        | 343,00                | 6801 0408 000/0 |
| 65     | 70 x 2   | 56 | 88  | 0.33        | 357,00                | 6801 0409 000/0 |
| 80     | 85 x 2   | 74 | 110 | 0.69        | 376,00                | 6801 0410 000/0 |
| 100    | 104 x 2  | 88 | 130 | 1.22        | 606,00                | 6801 0412 000/0 |
|        |          |    |     |             |                       |                 |
|        |          |    |     |             |                       |                 |
|        |          |    |     |             |                       |                 |
|        |          |    |     |             |                       |                 |



for pipe DIN EN 10357, Series D

### Lip Pig Series D

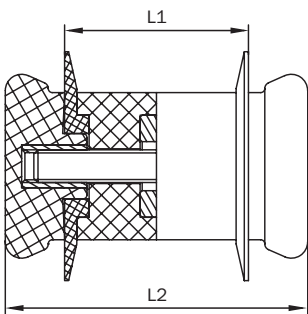
| DN Inch | Pipe-Ø       | L1   | L2  | Weight [kg] | PVDF/Silicone (white) |                 |
|---------|--------------|------|-----|-------------|-----------------------|-----------------|
|         |              |      |     |             | Price/EUR             | Article No.     |
| 1"      | 25.4 x 1.65  | 23   | 36  | 0.02        | 305,00                | 6801 0454 000/0 |
| 1 1/2"  | 38.1 x 1.65  | 35   | 54  | 0.09        | 315,00                | 6801 0457 000/0 |
| 2"      | 50.8 x 1.65  | 44   | 72  | 0.18        | 340,00                | 6801 0458 000/0 |
| 2 1/2"  | 63.5 x 1.65  | 51   | 82  | 0.30        | 356,00                | 6801 0459 000/0 |
| 3"      | 76.2 x 1.65  | 66   | 102 | 0.65        | 372,00                | 6801 0460 000/0 |
| 4"      | 101.6 x 2.11 | 85.5 | 128 | 1.10        | 598,00                | 6801 0462 000/0 |
|         |              |      |     |             |                       |                 |
|         |              |      |     |             |                       |                 |
|         |              |      |     |             |                       |                 |
|         |              |      |     |             |                       |                 |



for pipe DIN EN 10357, Series C

### Lip Pig Series C

| DN ISO | Pipe-Ø      | L1   | L2  | Weight [kg] | PVDF/Silicone (white) |                 |
|--------|-------------|------|-----|-------------|-----------------------|-----------------|
|        |             |      |     |             | Price/EUR             | Article No.     |
| 33.7   | 33.7 x 2    | 30   | 46  | 0.03        | 313,00                | 6801 0479 000/0 |
| 48.3   | 48.3 x 2    | 44.5 | 73  | 0.18        | 338,00                | 6801 0481 000/0 |
| 60.3   | 60.3 x 2    | 52   | 82  | 0.30        | 356,00                | 6801 0482 000/0 |
| 78.1   | 76.1 x 2    | 61.5 | 94  | 0.36        | 372,00                | 6801 0483 000/0 |
| 88.9   | 88.9 x 2.3  | 77   | 116 | 0.73        | 490,00                | 6801 0484 000/0 |
| 114.3  | 114.3 x 2.3 | 95   | 145 | 1.45        | 645,00                | 6801 0485 000/0 |
|        |             |      |     |             |                       |                 |
|        |             |      |     |             |                       |                 |
|        |             |      |     |             |                       |                 |
|        |             |      |     |             |                       |                 |



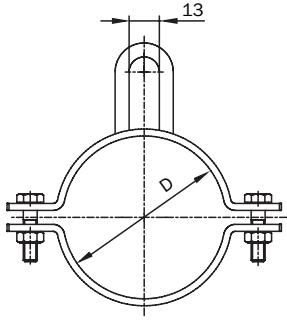
for pipe DIN EN 10357, Series D

### Lip Pig Series D

| DN SMS | Pipe-Ø     | L1 | L2  | Weight [kg] | PVDF/Silicone (white) |                 |
|--------|------------|----|-----|-------------|-----------------------|-----------------|
|        |            |    |     |             | Price/EUR             | Article No.     |
| 25     | 25 x 1.25  | 23 | 36  | 0.02        | 306,00                | 6801 0491 000/0 |
| 38     | 38 x 1.25  | 36 | 55  | 0.09        | 316,00                | 6801 0492 000/0 |
| 51     | 51 x 1.25  | 45 | 73  | 0.19        | 342,00                | 6801 0493 000/0 |
| 63.5   | 63.5 x 1.5 | 51 | 82  | 0.30        | 358,00                | 6801 0494 000/0 |
| 76.1   | 76.1 x 1.6 | 66 | 102 | 0.65        | 375,00                | 6801 0495 000/0 |
|        |            |    |     |             |                       |                 |
|        |            |    |     |             |                       |                 |
|        |            |    |     |             |                       |                 |
|        |            |    |     |             |                       |                 |

## Notes

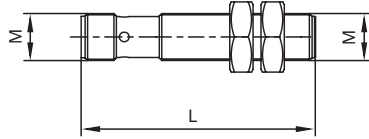
## Pig Accessories



Other variants on request.

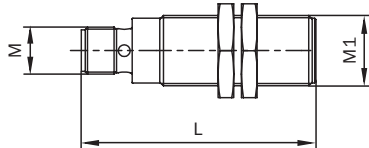
### Pipe Clamp with Sensor Bracket

| DN  | D   | Weight [kg] | Price/EUR | Article No.    |
|-----|-----|-------------|-----------|----------------|
| 25  | 28  | 0.11        | 41,10     | 6831 00 05 001 |
| 40  | 40  | 0.13        | 41,80     | 6831 00 07 001 |
| 50  | 52  | 0.15        | 42,30     | 6831 00 08 001 |
| 65  | 70  | 0.18        | 42,50     | 6831 00 09 001 |
| 80  | 85  | 0.24        | 43,93     | 6831 00 10 001 |
| 100 | 104 | 0.28        | 44,64     | 6831 00 12 001 |
|     |     |             |           |                |
|     |     |             |           |                |
|     |     |             |           |                |



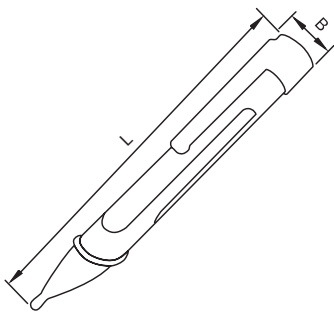
### Sensor for Pig Location MFS211

| L  | M       | M1 | Typ    | Weight [kg] | Price/EUR | Article No. |
|----|---------|----|--------|-------------|-----------|-------------|
| 60 | M12 x 1 | -  | MFS211 | 0,013       | 76,45     | 390110      |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |
|    |         |    |        |             |           |             |



### Sensor for Pig Location MGT201

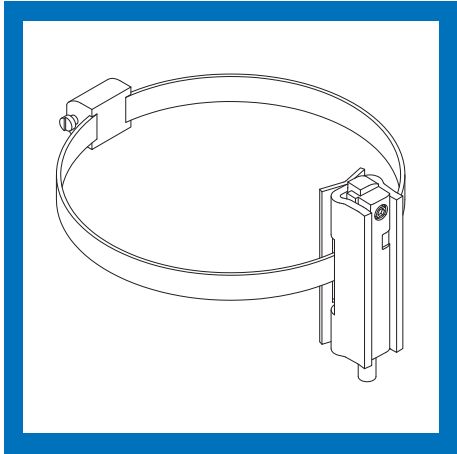
| L  | M     | M1    | Weight [kg] |       |  |
|----|-------|-------|-------------|-------|--|
| 60 | M12x1 | M18x1 | MGT201      | 0,026 |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |
|    |       |       |             |       |  |



### Manual Sensor for Pig Location

| L   | B  | Weight [kg] | Price/EUR | Article No.  |
|-----|----|-------------|-----------|--------------|
| 158 | 25 | 0.05        | 34,70     | 6820 0007 01 |
|     |    |             |           |              |
|     |    |             |           |              |
|     |    |             |           |              |
|     |    |             |           |              |
|     |    |             |           |              |
|     |    |             |           |              |
|     |    |             |           |              |

Pig Accessories



| End Position Sensor for Pneumatic Cylinder |      |           |             |
|--------------------------------------------|------|-----------|-------------|
| Weight [kg]                                |      |           |             |
|                                            |      | Price/EUR | Article No. |
| 2 sensors with adaptation (Ø 50mm)         | 0,05 | 108,00    | 3901 28     |
|                                            |      |           |             |
|                                            |      |           |             |
|                                            |      |           |             |
|                                            |      |           |             |
|                                            |      |           |             |
|                                            |      |           |             |
|                                            |      |           |             |

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