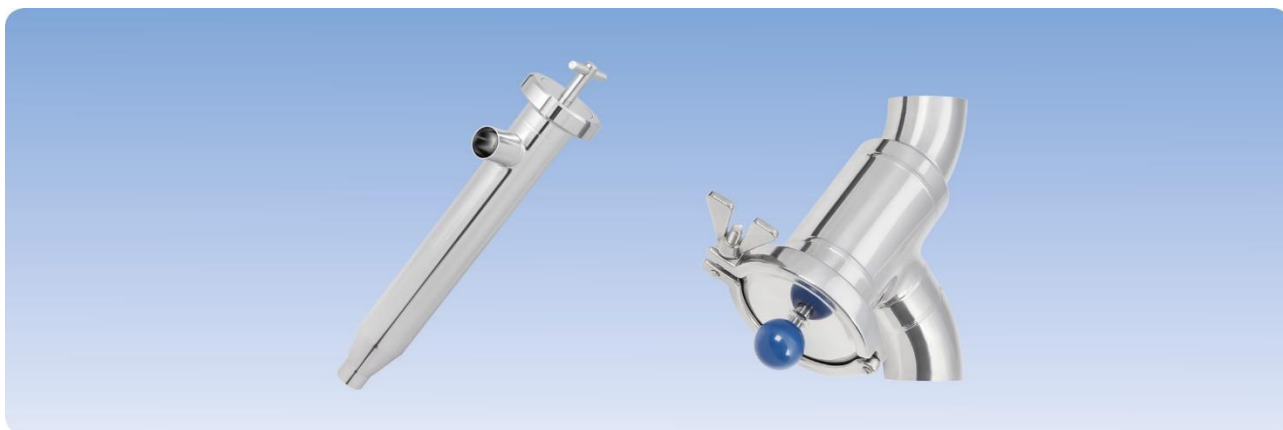


OPERATING/INSTALLATION INSTRUCTIONS

(Translation)



Angle type strainer
dirt trap

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ID No.: 61BA001EN2020/03 Rev. 1

Operating/Installation Instructions for

- Angle type strainer: Type: DN25 – DN100 / PN10
DN125 – DN150 / PN6
1" – 4" / PN10
1" – 4" / PN10 (SMS FR)
- Dirt trap Type: DN25 – DN100 / PN10

NOTE



These operating/installation instructions are part of the fitting and must be available to operating and maintenance personnel at all times. The safety precautions contained therein must be observed.

If the fitting is sold on, the operating/installation instructions must be included in the delivery or downloaded from the following Internet page: <http://www.awh.eu/de/downloads>.

Translation

The operating instructions must be written in an official European Community language acceptable to the manufacturer of the machinery in which the fitting will be assembled, or to his authorized representative. If any discrepancies arise in the translated text, the original operating instructions (German) are to be consulted for clarification, or the manufacturer is to be contacted.

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1 Introduction

The manual applies to the following fittings

- Angle type strainer and
- the dirt trap.

The manual provides you with all the information you need for untroubled operation of the fitting.

In principle, this manual applies to all designs. In the event of differences between the designs, this will be clearly pointed out.

The manual must be read, understood, and applied by all persons assigned with the assembly, maintenance, cleaning and troubleshooting of the fitting. This applies in particular to the listed safety notes.

After studying the manual, you will be able to

- Assemble and operate the fitting safely
- Clean and service the fitting correctly
- Take the correct measures if a fault occurs

In addition to this manual, generally valid, statutory and other binding regulations in regard of accident prevention and in regard of environmental protection in the country of use must also be observed.

The manual must always be kept or made available at the place of use of the fitting. Download the instructions if necessary from the <http://www.awh.eu/de/downloads> Internet page.

1.1 Means of Presentation

As an instruction and for directly warning against danger, statements where special attention needs to be paid are identified as follows in this manual:



DANGER

This warning notice describes a hazard with a high level of risk that will result in death or serious injury if not avoided.



WARNING

This warning notice describes a hazard with a medium level of risk that could result in death or serious injury if not avoided.



CAUTION

This warning notice describes a hazard with a low level of risk that could result in minor or moderate injury if not avoided.

NOTE

This warning notice describes a hazard with a low level of risk that could result in damage to property if not avoided.



The info symbol provides useful information.

Embedded Warnings

The embedded warnings apply to specific actions and are integrated directly into the action before the specific action step.

- **⚠ DANGER / WARNING / CAUTION**
- **NOTE**

The following means of presentation are also used:

- Texts which follow this mark, are bulleted lists.
- Texts following this mark describe activities that need to be carried out in the specified order.
- “ ” Texts in quotation marks are references to other chapters or sections.

Symbols Used



Crushing hazards are indicated by this symbol.



Burn hazards are indicated by this symbol.



“Observe manual” is indicated by this symbol.



“Isolate from voltage before work” is indicated by this symbol.



“Secure against power being switched back on” is indicated by this symbol.



Environmental measures are indicated by this symbol.



Warning about substances which are a water hazard

1.2 Abbreviations

ATEX	“ A tmosphère e xplosible”; includes measures to be taken for explosive atmospheres / explosion protection
AWH	Armaturenwerk Hötensleben GmbH
C/C	Clamp / Clamp (connection variant)
CIP	Cleaning in place
D	Diameter
DN	Nominal width
E	Thread diameter
EEA	European Economic Area
EEC	European Economic Community
EPDM	Ethylene propylene diene monomer rubber (sealing material)
FKM	Fluorinated rubber (sealing material)
FR	Version for France (with SMS)
G/G	Thread/thread (connection variant)
HNBR	Hydrogenated acrylonitrile butadiene rubber (sealing material)
Item	Item number

K/K	Cone/cone (connection variant)
L	Length
PN	Nominal pressure
PTFE	Polytetrafluoroethylene (sealing material)
Ra	Average roughness value (dimension for the surface roughness)
Rd	Round thread
SMS	Swedish Manufacturing Standard
TIG	Welding process with tungsten electrode and inert gas
VMQ	Silicone rubber (sealing material)
W/W	Weld/weld (weld-on ends; connection variant)

1.3 Guarantee, Warranty and Liability

Guarantee

If the fitting is used as intended, a guarantee is provided according to the statutory warranty obligation. Exceptions to this are wear parts.

Increased wear due to abrasive media is not a product defect. Any claims resulting from this cannot be taken into account as part of the warranty.

Warranty and Liability

The commitments agreed in the contract of supply and delivery, the general terms and conditions and the terms of delivery of the Armaturenwerk Hötensleben GmbH (referred to hereinafter as AWH) and the statutory regulations valid at the time the contract was concluded shall apply.

Warranty and liability claims in the case of personal injury and damage to property shall be excluded in particular if these can be attributed to one or more of the following causes:

- Improper or incorrect use of the fitting.
- Incorrect assembly, commissioning, operation and maintenance of the fitting.
- Failure to observe the instructions in the manual in terms of assembly, commissioning, operation and maintenance of the fitting.
- Structural modifications to the fitting (conversions or other modifications to the fitting must not be carried out without previous written approval from Armaturenwerk Hötensleben GmbH. In case of infringement, the fitting will lose its EC conformity and the operating license.),
- Use of spare parts that are not in accordance with the specified technical requirements,
- Improperly performed repairs,
- Disasters, the effects of foreign objects and force majeure.

Disclaimer

AWH reserves the right to make alterations to this document at any time and without prior notice. AWH provides no guarantee (neither expressed nor implied) with regard to all information in this document, including but not limited to the implied warranty of merchantability and suitability for a particular purpose.

2 Safety

The fitting has been built in accordance with state-of-the-art technology and the recognized rules of safety. Nevertheless, use of the fitting may represent a danger to the life and limb of the user and third parties or a risk of impairments to the device and other objects of material value as a result of its function.

The following basic safety notes are intended to prevent injury to personnel and material damage. The owner/operating company must ensure that the basic safety instructions are observed and adhered to.

These instructions contain basic notes on installation, operation, maintenance and servicing of the fitting which must be complied with.

Anyone involved in assembly, operation, maintenance and servicing must have read and understood these instructions.

The safety systems and safety notes described in these instructions must be adhered to.



WARNING



Failure to comply with these instructions, incorrectly performed installation and repair work or incorrect operation could lead to malfunctions on the device and to dangerous situations!

There is a risk of death or severe physical injuries.

- *Have all work performed on the fitting carried out only by an **expert** and in compliance with*
 - *the corresponding detailed operating and installation instruction(s),*
 - *the warning and safety signs on the device,*
 - *regulations and requirements specific to the facility and*
 - *national/regional regulations for safety and the prevention of accidents.*
- *Never install damaged fittings or components.*



The pictures in these instructions are for basic understanding and are primarily representations of the principles involved. They may differ from the actual design of the fitting.

2.1 Intended Use



WARNING

In the event of improper use, there is a risk of serious injury!

This fitting was designed exclusively for the purposes described below. Any other use beyond that described here or alteration of the fitting without written approval from AWH is considered contrary to the intended use. AWH accepts no liability for damages arising from this. The owner/operating company is solely responsible for the risk. The fitting may only be commissioned once it is certain that all the safety systems are fully functioning, and the system in which the fitting is installed meets the safety requirements of all relevant EC directives.

NOTE

*The fitting may only be installed by an **expert!***

*The work described in this manual is described in a way intended to be understood and carried out by experts **only** (see section “2.6 Qualification Requirements to Be Met by the Personnel”).*

The angle type strainers and dirt traps are intended for installation in pipes. They are used for the filtration of a flow of fluid in commercial and industrial operations (food, chemical and pharmaceutical industries and low-germ processes).

Suitable flow media include water, steam, mineral oil, food, and liquids from the chemical and pharmaceutical industry subject to a hygienic standard.

Depending on the use, slotted and perforated filters can be used in the angle type strainer housing.

Misuse, such as operation of a standard design fitting in a potentially explosive atmosphere or when potentially explosive media are used, shall be precluded.

The intended use also includes compliance with this manual, including the maintenance conditions.

2.2 Labeling the Fitting

The information in these operating instructions only applies to the fittings of the type and version specified on the title page (title page and rear side).

If you have any queries, specify the following correctly:

- The nominal width,
- The sealing material,
- The housing material,
- The connection types (DIN 11851, inch, weld, clamp, etc.).

This is the only way to ensure quick and efficient processing.

2.3 Danger Warnings

The safety systems and safety notes described in these instructions must be adhered to.

Operation is performed from the control room of the higher-level system or from the local control point.

2.3.1 Dangers



WARNING



Risk of burns due to hot media!

There is a risk of burning during operation or maintenance if flow media have temperatures over +60 °C / +140 °F.

- *Let the flow medium cool down prior to cleaning work.*
- *Empty the pipelines prior to assembly or disassembly work.*
- *Wear work protective clothing, protective gloves and protective goggles when carrying out work on the fitting (see section “2.7 Personal Protective Equipment”).*

NOTE

Risk of damage to the fitting!

- *The fitting and the length and quality of the lines must meet the requirements.*
- *The system shall be assembled by **specialist personnel**.*
- *Make sure that only the media specified in the manual are used.*
- *The parameters listed in the manual must always be complied with (see chapter “4 Technical Data”).*
- *Locking nut and heavy-duty clamp must remain fixed and closed during operation.*

2.3.2 Hazardous Area of the Fitting

The hazardous area during setup, maintenance and repair work extends to 1 m around the fitting. Take into consideration the swing range of any switch cabinet doors that can open. The operator shall ensure that persons are prevented from entering the hazard area during motion sequences.

The area around the fitting shall be kept accessible to the operator.

2.3.3 Installation of Replacement Parts and Wearing Parts

Replacement and accessory parts not supplied by AWH have not been checked or approved by AWH. Installing and/or using this type of product can therefore negatively alter the structural properties of your system, under certain circumstances. AWH is not liable for any damage arising from the use of non-original parts and non-original accessory parts. Standard parts can be obtained from specialist dealers.

2.3.4 Switch-off Procedure



WARNING



Risk due to escaping compressed air or media at high pressure!

Escaping compressed air or flow media at high pressure poses a risk of serious eye or skin injuries.



*Before cleaning, maintenance or repair work is carried out (by **specialist personnel** only), it is imperative that the following **switch-off procedure** be observed.*

- Disconnect the higher-level facility/machine from the power supply.
- Shut off the pneumatic system:
 - Close the shut-off valve.
 - Check that the facility is depressurized.
 - Secure the shut-off valve against reopening.
- Shut off the media supply:
 - Relieve the pressure in the pipelines.
 - Afterwards, drain the pipelines (take particular care with hazardous materials).
 - Check that a media supply is prevented (insert dummy discs if necessary).
- Observe a cooling down phase for media temperatures of over +60 °C / +140 °F.

2.4 Duties of the Owner/Operating Company

The fitting is used in the commercial sector. The owner/operating company is thus subject to the legal obligations of occupational safety.

In the EEA (European Economic Area), the national implementations of the framework directive (89/391/EEC) on carrying out measures for improving safety and protecting the health of employees during work, as well as the associated individual directives on the minimum specifications for safety and health protection of employees using work equipment, shall be observed and complied with in their current valid versions.

As a basic rule, the owner/operating company in Germany must observe the Industrial Safety Regulation (BetrSichV).

In other countries, the respective national guidelines, statutes and country-specific regulations regarding occupational safety and accident prevention are to be complied with. At the same time, the following, non-exhaustive instructions apply in particular:

- The owner/operating company must ensure that the fitting is only used as intended (see section “2.1 Intended Use”).
- The owner/operating company must find out about the locally applicable industrial safety regulations, and - in addition - use a risk assessment to determine the hazards resulting from the specific working conditions at the place of use of the fitting. This must then be implemented in the form of operating instructions for the operation of the fitting.
- When using hazardous materials, protective measures must be specified in accordance with the safety data sheets and operating instructions shall be compiled for hazardous materials. Personnel must be appropriately briefed about this.

This also applies to hazardous substances that may arise during work processes.

- A continuous risk assessment must be carried out for workplaces, including temperature conditions for the medium and the place of use (falling). The measures must be recorded in operating instructions and personnel must be instructed accordingly.
- Supervisors must monitor compliance with the measures specified in the operating instructions.
- Throughout the entire operating period of the fitting, the owner/operating company must keep checking whether the operating instructions that they have compiled actually correspond with the current status of the regulations, and adjust the instructions if necessary.
- The owner/operating company must clearly regulate and specify the responsibilities of personnel (e.g. for operation, maintenance and cleaning).
- The owner/operating company must only allow sufficiently qualified and authorized personnel to work on the fitting.
- The owner/operating company must ensure that all employees handling the fitting have read and understood the manual.
Furthermore, it must provide personnel with training at regular intervals with certification and inform them about the hazards.
- The owner/operating company must provide sufficient workplace lighting at the higher-level facility in accordance with the locally applicable regulations for occupational health and safety in order to prevent hazards occurring as a result of poor lighting.
- The owner/operating company must provide personnel with personal protective equipment and make sure that this is used (see section “2.7 Personal Protective Equipment”).

- The owner/operating company must make sure that no person works on the fitting whose ability to respond is impaired through drugs, alcohol, medication or similar.
- The owner/operating company must use appropriate measures to inform groups of persons who are not planned for direct contact with the fitting (e.g. visitor groups) about the potential dangers involved.
- The owner/operating company is obliged to operate the fitting in perfect condition at all times.
- Wherever high pneumatic pressures occur, there is a possibility of sudden failure of or damage to the lines and connections. This poses a hazard. The owner/operating company must instruct operating and maintenance personnel at least once a year on the possible hazards.
- The constructor of the overall plant must install the switching and safety devices required for setting up, inspection, shutting down (including emergency shutdown), operating, maintenance, cleaning and repair, and provide proof of their installation.
- The owner/operating company must provide fire safety devices, e.g. the appropriate quantity of suitable hand-held fire extinguishers of the appropriate size, in easily accessible places and provide employees with training on fire safety.
- Warnings in the documentation for externally supplied assembly groups must be adhered to and incorporated into the risk assessments for the specific workplace.
- Before operating the machine with the fitting, the owner/operating company shall ensure that the local specifications were followed during assembly and commissioning, if these were carried out by the owner/operating company.

NOTE

Due to deviating operating conditions at the owner/operating company's site, additional safety measures may be required. They are then to be accordingly supplemented by the owner/operating company.

2.5 Safety Measures (to Be Implemented by Owner/Operating Company)

- The owner/operating company must ensure that unauthorized persons (not operating or maintenance personnel) are prevented from entering the hazardous area of the system (in which the fitting is installed).
- The owner/operating company must empty the pipelines prior to assembly and maintenance work on the fitting.
- The disconnection of energy sources from the system shall be designed technically by the owner/operating company so as to enable compliance with the switch-off procedures described in section 2.3.4.
- This manual must be retained for future reference.
It must be available in the vicinity of the higher-level system in which the fitting is installed.
- The operating company must define and adhere to the intervals for inspections and control measures in accordance with the environment and media used.
- The work described in the chapters Installation, Disassembly/Assembly, Maintenance/Cleaning, Malfunctions and Decommissioning/Disposal must only be carried out by experts.

2.6 Qualification Requirements to Be Met by the Personnel

The fitting may only be operated, serviced and repaired by persons who are qualified to do so. These persons must be familiar with these instructions and act in accordance with them. The respective authorizations for personnel must be clearly defined.

The following qualifications are designated in the instructions for various fields of activity:

Expert/Specialist Personnel

A person with appropriate training, suitable apprenticeship and experience who is in a position to identify risks and avoid dangers.

An expert is a person whose professional training, knowledge and experience, and whose knowledge of the relevant standards and regulations, enables them to carry out work on the fitting, identify potential risks independently and to avoid them.

Only personnel with the following specific knowledge may be employed for work on the fitting:

- **Assembly/disassembly:** Industrial mechanic or similar training, practical experience in the assembly/disassembly of fittings
- **Welding work:** Welder qualification in pipeline engineering or similar apprenticeship.
- **Electrical work:** Electrician; person with appropriate specialized training, knowledge and experience, enabling them to identify and prevent risks which may be caused by electricity.

2.7 Personal Protective Equipment

In order to minimize health risks, personal protective equipment must be worn when working on the fitting.



Protective work clothing

Protective work clothing is tight-fitting work clothing with low resistance to tearing, with close-fitting sleeves and without protruding parts. It is mainly used for protection against getting entangled in moving components.

Do not wear any rings, necklaces or other jewelry.



Safety shoes

Wear slip-resistant safety shoes for protection against heavy, falling objects or against slipping on slippery surfaces.



Protective gloves

Wear protective gloves to protect your hands against friction, grazes, getting pricked or deep cuts and against coming into contact with hot surfaces or chemical substances.



Protective goggles

Wear protective goggles for protection against media escaping at high pressure and against flying objects.



Hard hat

Wear a hard hat for protection against falling or flying objects.

**Welding mask**

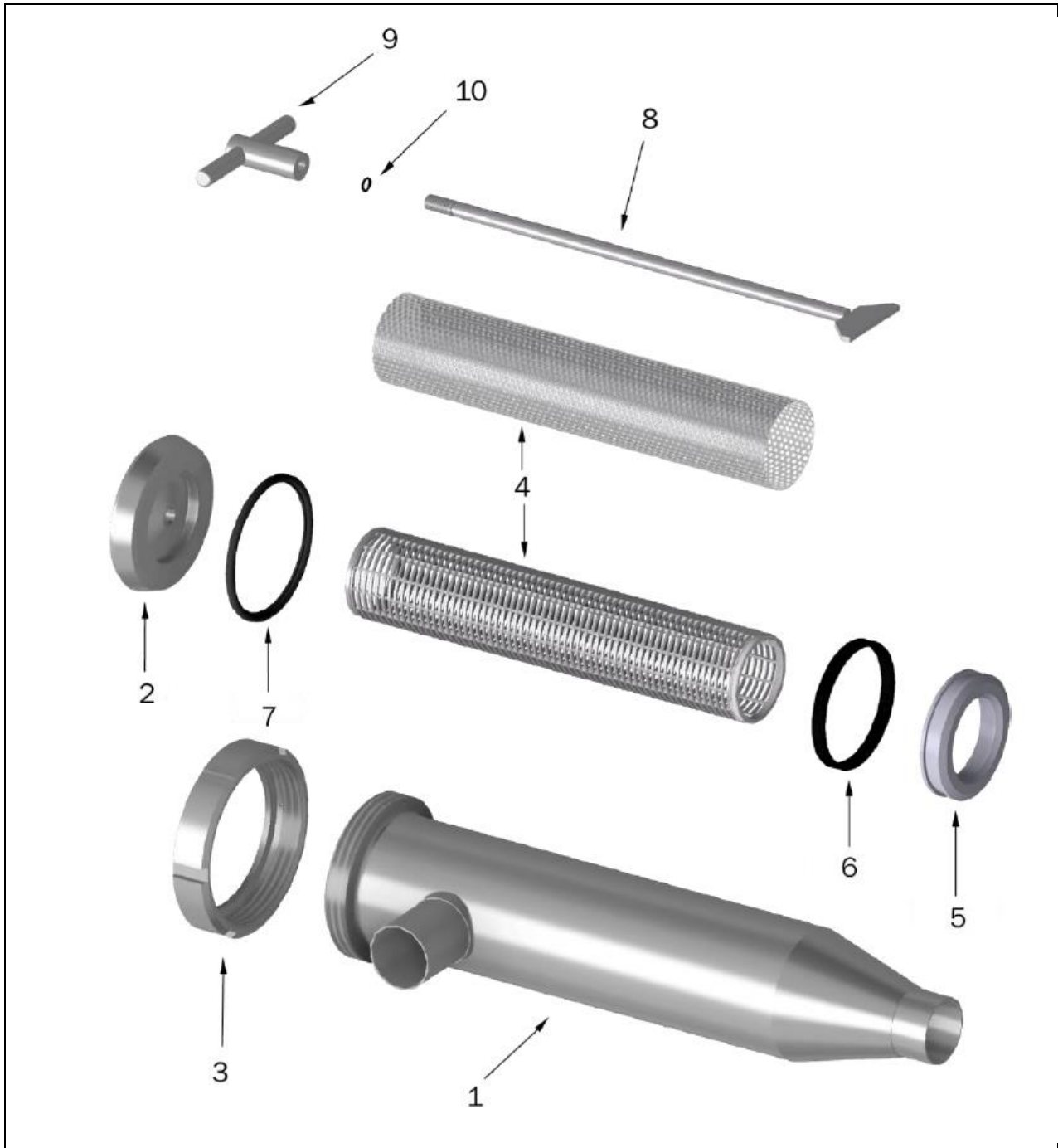
Wear a welding mask for protection from damage to the eyes or skin due to the welding arc and from burning caused by flying particles during welding.

Personal protective equipment must be provided by the user and must be in accordance with the valid requirements.

Furthermore, both the national regulations and, if necessary, the internal instructions from the owner/operating company, must be observed.

3 Overview and Structure

3.1 Angle type strainer



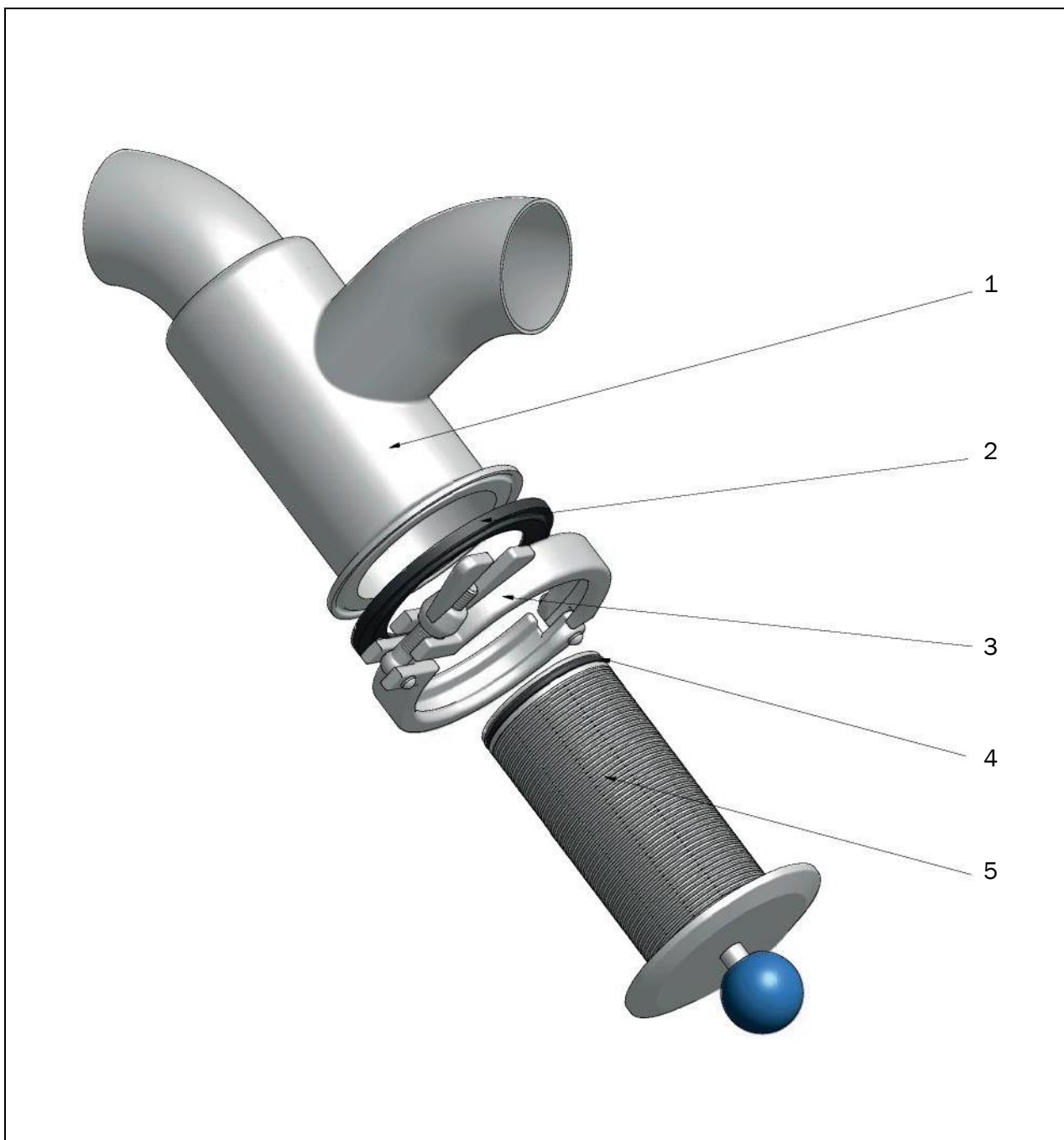
Picture 3-1: Overview of angle type strainer

- | | |
|---------------------------------------|-------------------------|
| 1 Housing | 6 Slotted ring |
| 2 Cone closure piece | 7 Seal ring with collar |
| 3 Locknut with pressure relief bore | 8 Tension anchor |
| 4 Slotted pipe or perforated strainer | 9 Locking nut |

5 Scraper

10 Seal ring

3.2 Dirt trap



Picture 3-2: Overview of dirt trap

1 Housing

2 Seal ring

3 Heavy-duty clamp

4 O-ring (included only in variant 0.25 mm gap width)

5 Filter insert

3.3 Function

NOTE

Damage to system and filters caused by turbulent flows, pressure shocks and blockage of the filter!

- Avoid flow rates in excess of 2.5 m/s.
- Monitor the differential pressure between inlet and outlet. A high differential pressure indicates a blockage of the filter.
- Clean the filter.
- Avoid back-flushing the filter against the direction of filtration.

Angle type strainer

The angle type strainer is for filtering fluids. These flow through the angle type strainer from outside to the inside in the direction of the arrow (see “Picture 5-1: Installation position of angle type strainer”). Solid material is held back by the slotted pipe or perforated strainer. When fluid flows correctly, the special profile in the slotted pipe or perforated strainer prevents the openings from becoming clogged due to unfiltered material. The narrowest diameter is on the inlet side.

Dirt trap

The dirt trap protects the product and the process system, pumps and heat exchangers against damage from foreign objects. Our dirt traps are Y-shaped (Y filter). The direction of flow is always from the inside to the outside.

4 Technical Data



The fitting's area of application shall always be adjusted to the relevant operating conditions and the materials in contact with the product.

The maximum continuous temperature is dependent on the media.

4.1 General Data

Ambient temperature range

Lower limit temperature:

+5 °C / +41 °F

Upper limit temperature:

+90 °C / +194 °F

Max. permissible operating pressure:

DN25 – DN150 / 1" – 4"
(for fluids from Group 1)

10 bar / 145 psi

DN125 – DN150
(for water vapor 145 °C)

6 bar / 87 psi

In the heating jacket

2,5 bar / 36 psi

Max. permissible operating temperature:

90 °C

(depending on sealing material in connection with operating medium or cleaning medium, respectively)

4.2 Materials in Contact with the Product

Position	Angle type strainer (see Picture 3-1)	Dirt trap (see Picture 3-2)
Housing (item 1)	1.4301 / 1.4404 / 1.4307	1.4301 / 1.4307 / 1.4404 / 1.4435
Lid (item 2)	1.4301 / 1.4404	
Slotted pipe/perforated strainer (item 4)	1.4404	
Filter insert (item 5)		1.4404 / 1.4435
Scraper (item 5)	1.4301 / 1.4404	
Tension anchor (item 8)	1.4404	
Seal rings	Selected according to operating conditions	

Sealing Materials

	Angle type strainer	Dirt trap
EPDM	x	x
FKM	x	x
HNBR	x	
VMQ		x

Surfaces

Exterior surface: metal bright/polished
Inner surfaces in contact with the product: Ra < 0.8 (1.6) µm
(except welded seams and slotted pipe)

The service life of the fitting is about ten years when used as intended and when chlorine-free drinking water is used.

If used with caustic media, the service life is correspondingly shorter.

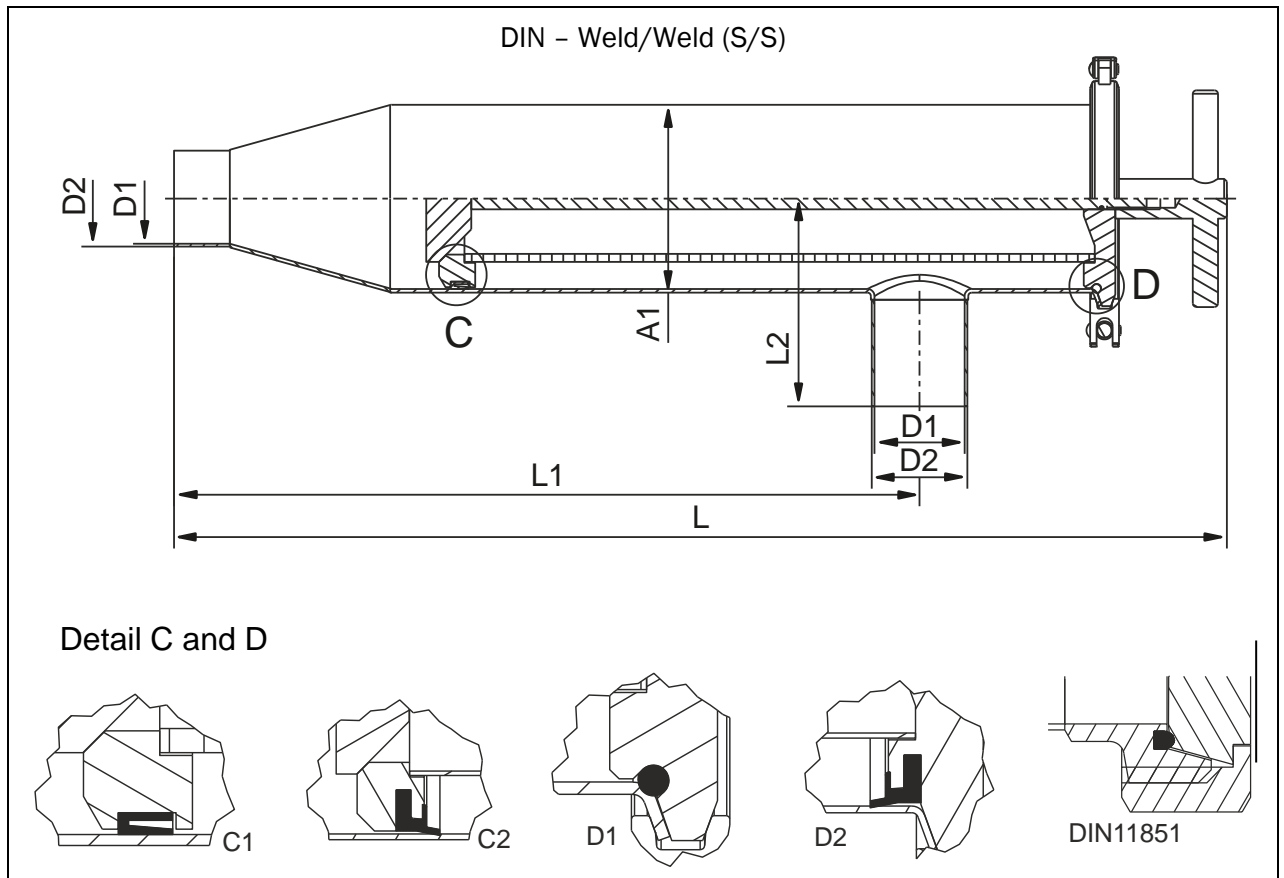
4.3 Connection Variants, Type Series, Dimensions



The dimensions in the table are in mm, except for the thread dimension, which is in inches, e.g. Rd 65 x 1/6".

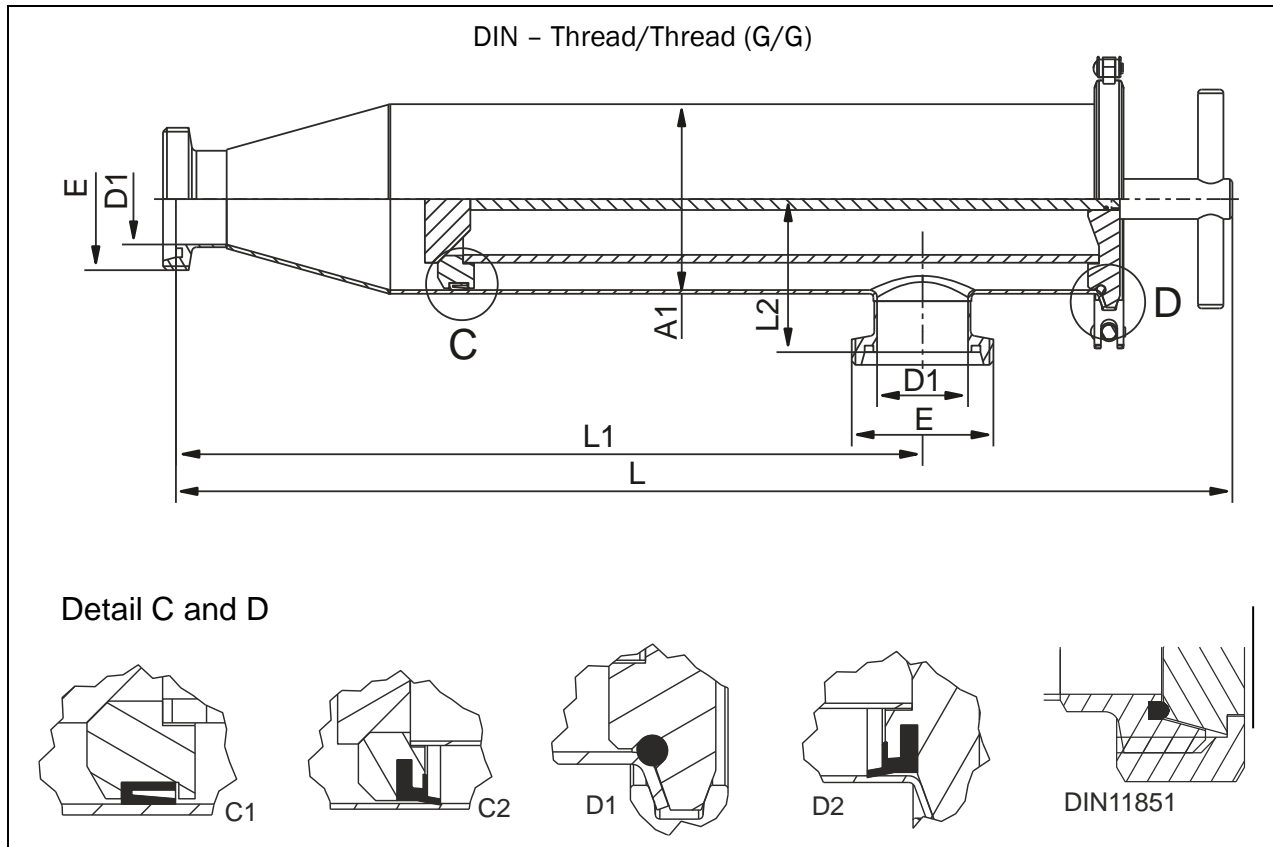
4.3.1 Angle type strainer

DIN Connection Variants



Picture 4-1: Angle type strainer: Connection variant DIN S/S

DN	D1	D2	A1	L	L1	L2	Seals	
25	26	29	70	554	406	82	C1	D1
32	32	35	70	549	401	77	C1	D1
40	38	41	70	534	386	85	C1	D1
50	50	53	104	585	413	115	C1	D1
65	66	70	104	558	386	113	C1	D1
80	81	85	154	771	563	150	C2	D2
100	100	104	154	726	517	167	C2	D2
125	125	129	204	923	650	160	C1	DIN 11851
150	150	154	204	923	650	165	C1	DIN 11851

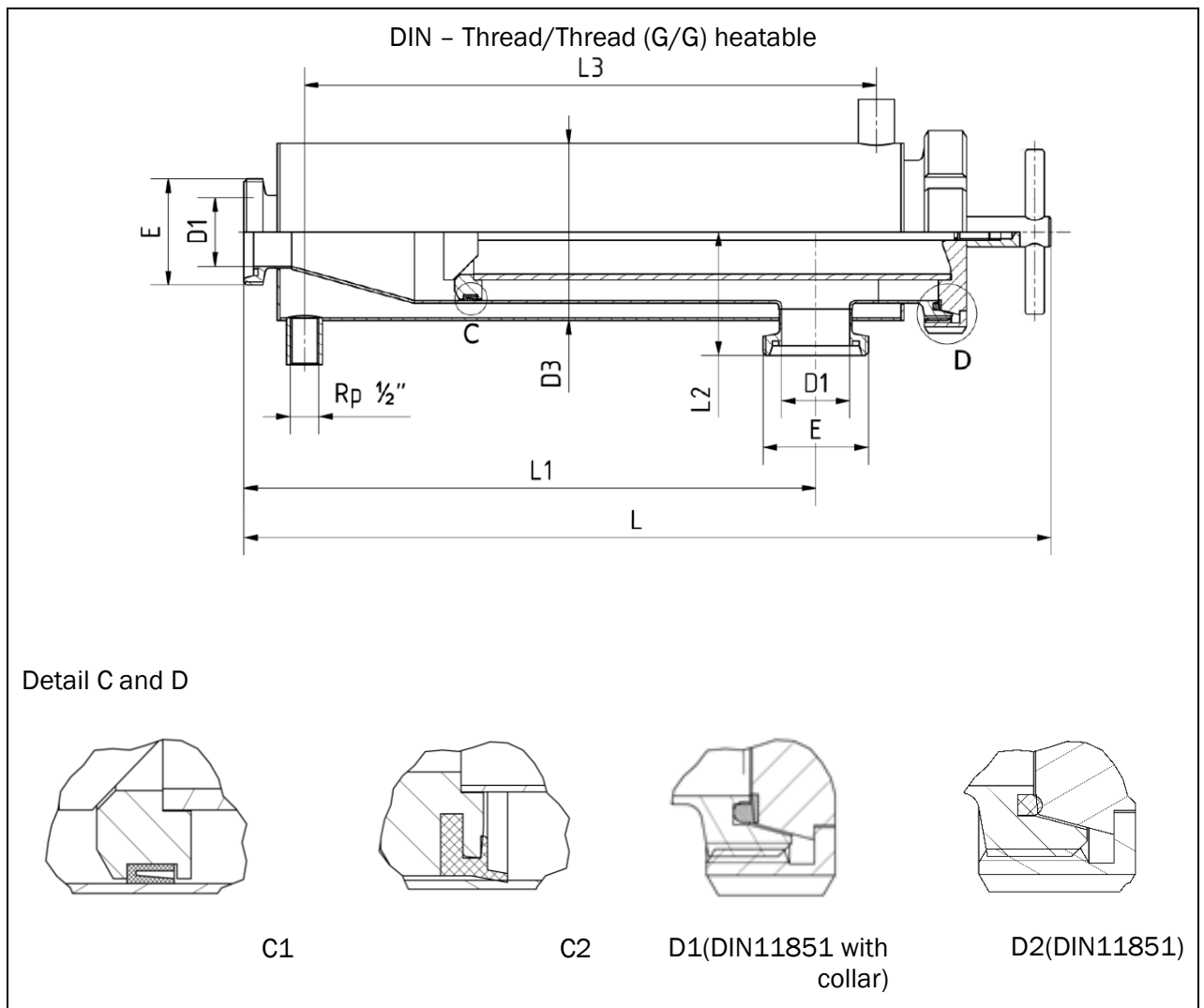


Picture 4-2: Angle type strainer: Connection variant DIN G/G

DN	D1	E	A1	L	L1	L2	Seals	
25	26	Rd 52 x 1/6"	70	561	413	67	C1	D1
32	32	Rd 58 x 1/6"	70	552	404	70	C1	D1
40	38	Rd 65 x 1/6"	70	543	395	70	C1	D1
50	50	Rd 78 x 1/6"	104	589	417	90	C1	D1
65	66	Rd 95 x 1/6"	104	565	393	95	C1	D1
80	81	Rd 110 x 1/4"	154	777	573	125	C2	D2
100	100	Rd 130 x 1/4"	154	750	546	134	C2	D2
125	125	Rd 160 x 1/4"	204	927	654	161	C1	DIN 11851
150	150	Rd 190 x 1/4"	204	931	658	160	C1	DIN 11851

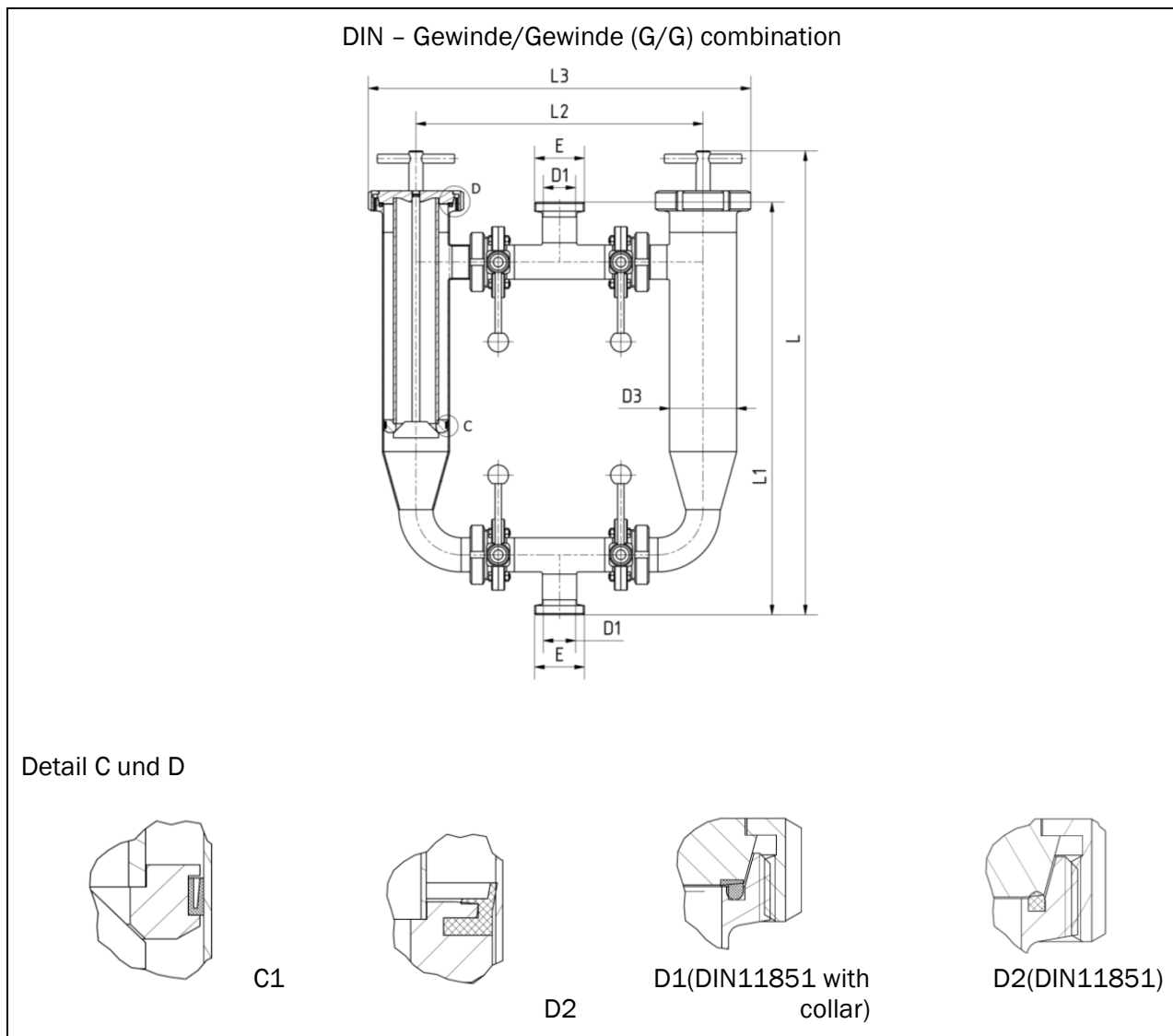


For additional connection variants, please refer to the product pages of the current AWH "Strainers and Sight Glasses" catalog.



Picture 4-3: Angle type strainer: Connection variant DIN G/G heatable

DN	D1	E	D3	L	L1	L2	L3	Seals	
25	26	Rd 52 x 1/6"	70	549	408	82	399	C1	D1
40	38	Rd 65 x 1/6"	70	529	388	85	381	C1	D1
50	50	Rd 78 x 1/6"	104	587	414	113	419	C1	D1
65	66	Rd 95 x 1/6"	104	558	385	113	393	C1	D1
80	81	Rd 110 x 1/4"	154	774	565	150	588	C2	D1
100	100	Rd 130 x 1/4"	154	728	519	167	563	C2	D1



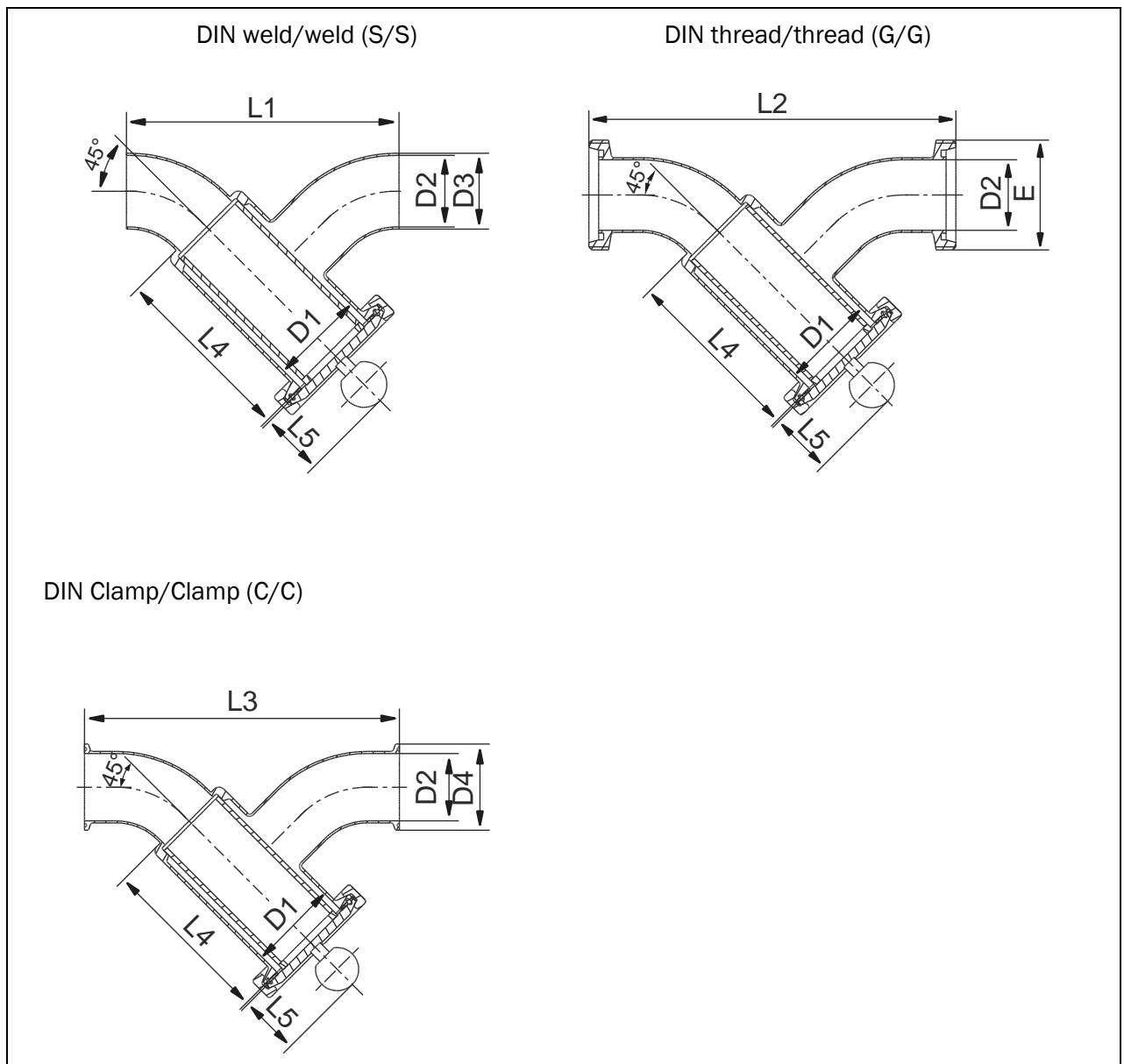
Picture 4-4: Angle type strainer: Connection variant DIN G/G combination

DN	D1	E	D3	L	L1	L2	L3	Seals	
25	26	Rd 52 x 1/6"	70	549	408	82	446	C1	D1
32	32	Rd 58 x 1/6"	70	544	403	77	454	C1	D1
40	38	Rd 65 x 1/6"	70	529	388	85	490	C1	D1
50	50	Rd 78 x 1/6"	104	587	414	113	592	C1	D1
65	66	Rd 95 x 1/6"	104	558	385	113	612	C1	D1
80	81	Rd 110 x 1/4"	154	774	565	150	748	C2	D1
100	100	Rd 130 x 1/4"	154	728	519	167	798	C2	D1
125	125	Rd 160 x 1/4"	204	1332	1280	997	1257	C1	D2
150	150	Rd 190 x 1/4"	204	1369	1360	927	1187	C1	D2



Further connection variants can be found on the product pages of the current AWH catalogue "Strainers and Sight Glasses".

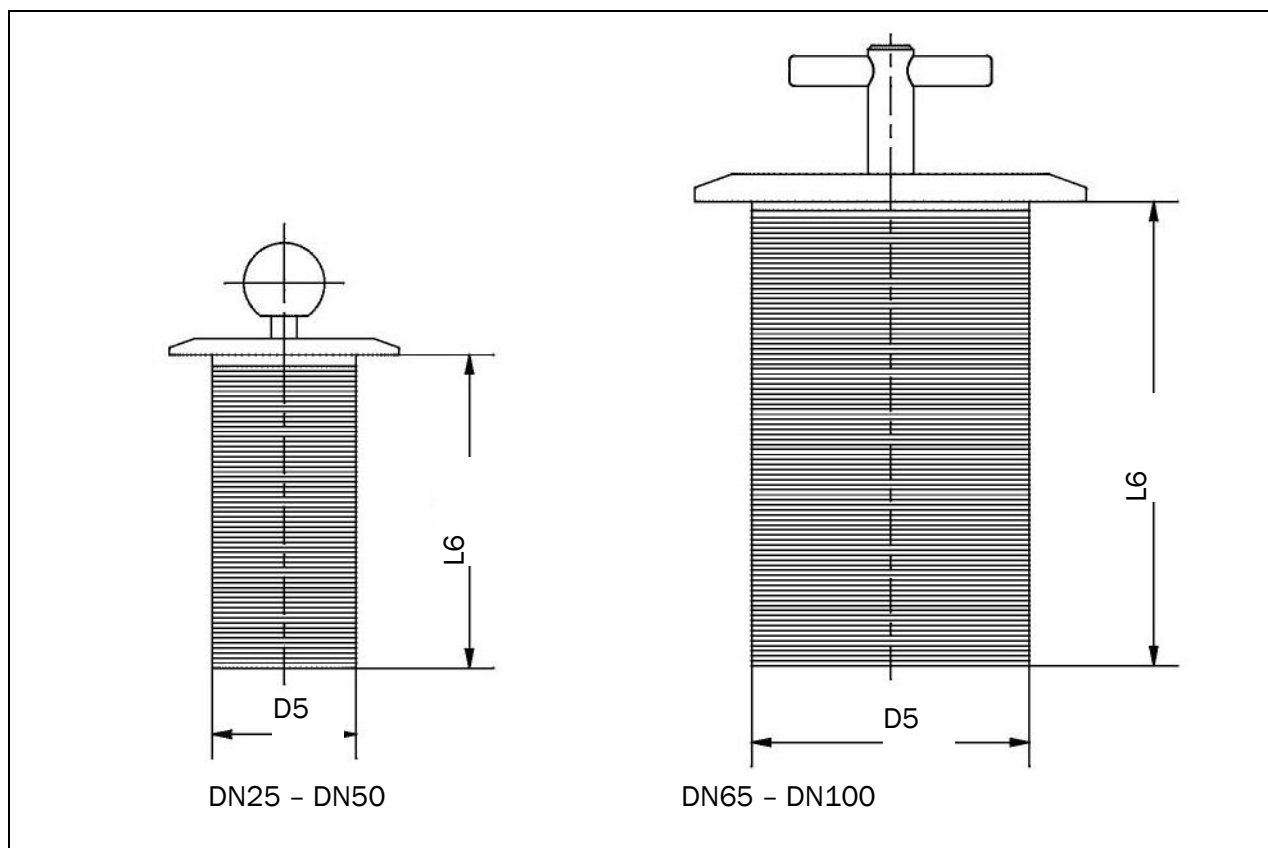
4.3.2 Dirt trap



Picture 4-5: Dirt trap: Connection variants DIN S/S, G/G, C/C

DN	L1	L2	L3	L4	L5	D1	D2	D3	D4	E
25	147	204	189	103.5	45	53	26	29	50.5	Rd 52 x 1/6"
40	172.5	237.5	214.5	129	45	70	38	41	50.5	Rd 65 x 1/6"
50	187	256	229	129	45	70	50	53	64	Rd 78 x 1/6"
65	215.5	294.5	270.5	149	58	85	66	70	91	Rd 95 x 1/6"
80	239	329	295	164	59	104	81	85	106	Rd 110 x 1/4"
100	269.5	377.5	325.5	189	62	129	100	104	119	Rd 130 x 1/4"

Filter inserts



Picture 4-6: Filter insert variants

DN	D5	L6	Handle
25	38	100	Spherical shape
40	57	125	Spherical shape
50	57	125	Spherical shape
65	73	145	Handle shape
80	85	160	Handle shape
100	110	185	Handle shape

5 Installation

5.1 Scope of Delivery



The detailed scope of delivery can also be consulted in the order confirmation.

5.2 Transport and Packaging

Products from AWH are carefully checked and packed before shipping. However it is still possible the product may become damaged during transport.



CAUTION



When setting down the packaging, there is a risk of minor injury being caused by crushing!

- When transporting the packaging, proceed with particular care.
- Wear safety shoes and protective gloves (see section “2.7 Personal Protective Equipment”).

5.2.1 Delivery (including Spare and Replacement Parts)

Incoming Goods Inspection

- Check that the product was delivered in complete form against the delivery note.
- Check for visible damage to the packaging.

Unpacking

- Remove the protective caps from the pipe connections (if present).
- Remove the packaging remains.

Damage

- Check the delivery for damage (visual inspection).

Complaints

If the delivery was damaged during transport:

- Contact the last shipping agent immediately.
- Retain the packaging (for possible inspection by the shipment agent or for return delivery).

Packaging for Return Delivery

If possible, use the original packaging and the original packaging material. If neither is available any more, request a packaging company with specialist personnel. Consult AWH if you have any questions regarding packaging and transport security.

5.2.2 Temporary Storage

Storage in a Closed Room

Storage conditions:

- Temperature: +10 °C to +45 °C / +50 °F to +113 °F
- Humidity: < 60% (non-condensing)

5.3 Installation



WARNING

Risk of serious injury due to leaking flange connections and pipe connections!

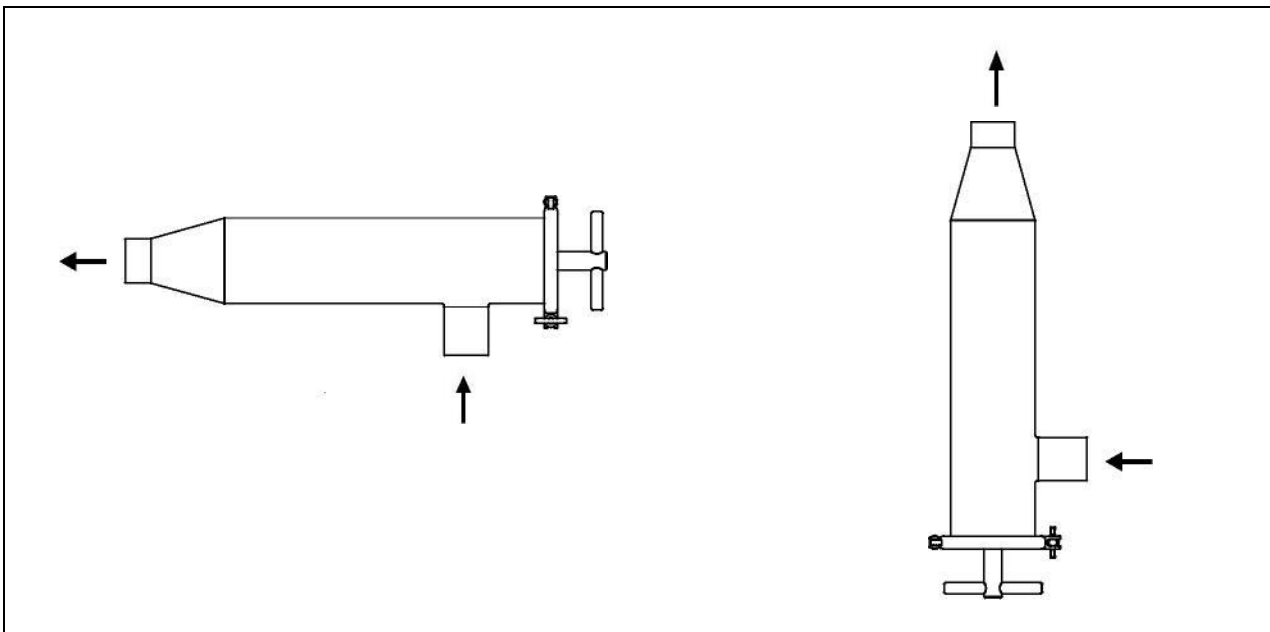
- The installation of the fitting may only be carried out by an **expert**.
- Make sure that the flange connections and pipe connections are leak-proof.
- After installation, tensile and compressive stress must be ruled out.

The fitting is installed in accordance with the structural layout of the pipe system and the technical data for the connection variants (see section 4.3). See the dimensional drawings for the installation dimensions. Make sure sufficient space is available for operation and maintenance (1 m around the fitting).

5.3.1 Installation position

Angle type strainer

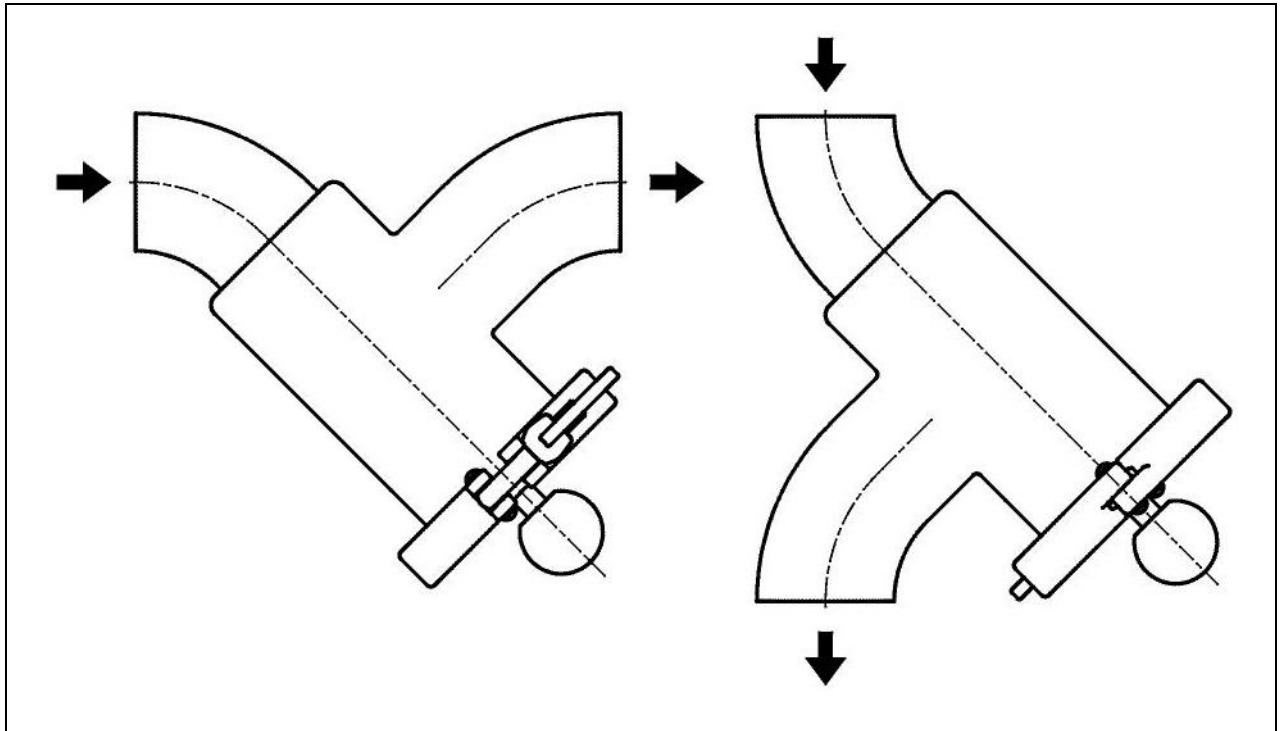
- Installation position: preferably horizontal
- Supply: from below
- For vertical installation position: Align locking nut below



Picture 5-1: Installation position of angle type strainer

Dirt trap

In order to ensure the correct function of the dirt trap, select the installation position displayed (see Picture 5-2).



Picture 5-2: Installation position of dirt trap

5.3.2 Installation Welding

Welding Instructions

Welding shall be carried out in pipes acc. to DIN EN 10357 series A, DIN 11866 series A and C; also in accordance with SMS standard for angle type strainer (France).

Welding method: TIG or orbital welding

Seam type: Butt weld joint acc. to DIN EN 29692

Installed condition



The fitting must be removed before welding (see chapter “6 Disassembly/Assembly”).

Weld Seam Preparation



The weld-on ends must fit flush and be welded without a gap.

- Cut the ends of the pipes level and right-angled.
- Remove burrs from the interfaces.
- Align the housing weld-on ends with the pipeline so they are level radially and axially.

Filler Materials

Base Material	Suitable Filler Material
1.4301/1.4307	1.4302 / 1.4316 / 1.4551
1.4404	1.4430 / 1.4455 / 1.4576
1.4435	1.4430 / 1.4440

Welding

- Connect forming gas before welding.
- Affix 3 to 4 tack welds before welding.

Welding Post-Treatment

No treatment is necessary on the interior after welding.

Accessible points can be improved by grinding.

Finishing can be applied to the exterior afterwards by staining, brushing, grinding and polishing.

Cleaning

- Clean all welded parts before assembly.

5.3.3 Installation with Connection Thread/Thread, Cone/Cone

NOTE

Risk of damage to the thread during installation!

The thread could become damaged when using the nut to fasten the fitting.

Use a nut wrench.

When installing the fitting, ensure that the connection fittings and nut conform to the same standard (e.g. DIN 11851).

Before installation, check the seal ring on the male for damage and to ensure that it is installed in the correct position. Replace if necessary.

The tightening torque should be strong enough to ensure sufficient impermeability.

5.3.4 Installing with Clamp/Clamp Connection

When installing the fitting, ensure that the connection flanges conform to the same standard (e.g. DIN 32676).

Before assembly, check the seal ring for damage and ensure that it is installed in the correct position. Replace if necessary.

The seal ring must be guided by the respective lip at the time of assembly and must be located in the correct installation position.

The fastening is accomplished using a heavy-duty clamp.

The tightening torque should be strong enough to ensure sufficient impermeability.

6 Disassembly/Assembly



WARNING

Risk of serious injury due to incorrect disassembly/assembly!

When using harmful or toxic media or media which are hazardous in any other way, there is a risk of intoxication or chemical burns!

- Work must be performed only by an **expert**.
- Always adhere to the **switch-off procedure** without fail before all assembly, maintenance and repair work (see section 2.3.4).
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).
- If in doubt, contact a specialist company or AWH.



WARNING



Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Empty the pipelines prior to assembly or disassembly work.

NOTE

Risk of damage to the fitting during disassembly/assembly!

- Work must be performed only by an **expert**.
- Proceed carefully and meticulously.
- Do not use sharp-edged objects.

6.1 Angle type strainer

6.1.1 Disassembly from the Facility

- Perform the switch-off procedure (see section 2.3.4).
- Depressurize the pipe system.

⚠ WARNING Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.

- Drain the pipe system.
- Put a suitable catch basin under the angle type strainer.
- Loose the nut (Picture 3-1, item 3).
- Open the heavy-duty clamp (Picture 3-1, item 3) or loosen the nut (DN125 - DN150).
- Pull the entire strainer assembly group carefully in the direction of the axis out of the housing (Picture 3-1, item 1), using the locking nut (Picture 3-1, item 9).

NOTE This will result in irreparable damage to the slotted pipes.

- Do not use hard objects to clean the slotted pipe.
- Do not attempt to remove stubborn residue by hitting the outside surface or the end face of the slotted pipe.
- Clean the strainer assembly and in particular the slotted pipe (Picture 3-1, item 4).
- Clean the installation space and check for any damage.

6.1.2 Assembly and replacement of seals and the slotted pipe

- Perform the switch-off procedure (see section 2.3.4).
- Depressurize the pipe system.

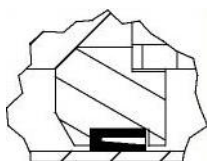
⚠ WARNING Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

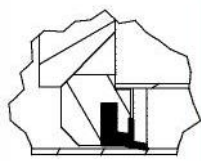
- Let the flow medium cool down prior to work.
- Drain the pipe system.
- Undo the locking nut (Picture 3-1, item 9).
- Pull the tension anchor (Picture 3-1, item 8) out of the lid (Picture 3-1, item 2).
- Replace the slotted pipe (Picture 3-1, item 4) and the seals (Picture 3-1, items 6 and 7).
- Check the seals for possible damage.
- Clean the installation space and check for any damage.
- Mount the seal ring (Picture 3-1, item 10) on the tension anchor (Picture 3-1, item 8)
- Attach the seal ring (Picture 3-1, item 10) to the tension anchor (Picture 3-1, item 8).
- Push the scraper (Picture 3-1, item 5) with the attached slotted ring (Picture 3-1, item 6) over the tension anchor (Picture 3-1, item 8).



We recommend coating the slotted ring (Picture 3-1, item 6) with a suitable H1 food-grade lubricant to facilitate disassembly and assembly.



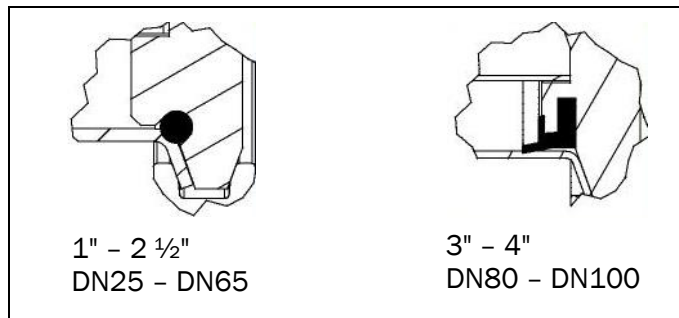
1" - 2 1/2"
DN25 - DN65
DN125 - DN150



3" - 4"
DN80 - DN100

- Observe the correct installation position of the slotted ring (Picture 3-1, item 6) in the scraper (Picture 3-1, item 5).

- Push the lid (Picture 3-1, item 2) over the tension anchor (Picture 3-1, item 8).
- Screw the lid (Picture 3-1, item 2) to the locking nut (Picture 3-1, item 9)
- Insert the seal ring (Picture 3-1, item 7) into the housing (Picture 3-1, item 1)



- Observe the correct installation position of O-ring/slotted ring (Picture 3-1, item 7).

- Rotate the entire strainer insert assembly group while pushing it into the housing.
- Screw the strainer insert assembly together with the nut (Picture 3-1, item 3)
- Perform a leak test under operating conditions.

6.2 Dirt trap

6.2.1 Disassembly from the Facility

- Perform the switch-off procedure (see section 2.3.4).
- Depressurize the pipe system.

⚠ WARNING Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Drain the pipe system.
- Put a suitable catch basin under the dirt trap.
- Undo the heavy-duty clamp (Picture 3-2, item 3).
- Allow any residual medium to drain off.
- Pull the filter insert (Picture 3-2, item 4) carefully out of the housing (Picture 3-2, item 1) with the aid of the ball knob or of the handle in axial direction.
- Remove the filter insert (Picture 3-2, item 5).
- Clean the installation space and check for any damage.

6.2.2 Assembly with Replacement of Seals and of the Filter Insert

- Perform the switch-off procedure (see section 2.3.4).
- Depressurize the pipe system.

⚠ WARNING Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Drain the pipe system.
- Check all seals for possible damage.
- Clean the installation space and check for any damage.
- Attach the O-ring (Picture 3-2, item 4) to the filter insert. The O-ring is present only for the version with gap width 0.25 mm.
- Position the seal ring (Picture 3-2, item 2) on the lid of the filter insert (Picture 3-2, item 5).
- Carefully guide the filter insert (Picture 3-2, item 5) into the housing (Picture 3-2, item 1).
- Attach the heavy-duty clamp (Picture 3-2, item 3). The tightening torque should be strong enough to ensure sufficient impermeability.
- Perform a leak test under operating conditions.

7 Maintenance/Cleaning



WARNING

Risk of serious injury due to incorrect maintenance!

When using harmful or toxic media or media which are hazardous in any other way, there is a risk of intoxication or chemical burns!

- Work must be performed only by an **expert**.
- Adhere to the **switch-off procedure** without fail before all cleaning, maintenance and repair work (see section 2.3.4).
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).
- If in doubt, contact AWH.



WARNING



Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Empty the pipelines prior to cleaning, maintenance or repair work.
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).

7.1 Cleaning/Maintenance Intervals

To ensure proper operation of the fitting, it must be cleaned and maintained at regular intervals.

- Define the cleaning intervals depending on the operating environment and the type of flow medium used.
- Define the inspection intervals for seals depending on the operating environment and the type of flow medium used.
- The fitting is subject to vibrations during operation, which can loosen the screwed and clamp connections. To prevent damage, check the fitting for loose connections at regular intervals (recommended interval for single-shift operation: 3 months).



Refer to the relevant manufacturer's instructions for details on cleaning and maintenance work for supplier components.

7.2 Notes on Cleaning



WARNING



Risk of injury due to incorrect handling of cleaning agents!

- Store the cleaning agents in accordance with the relevant safety guidelines.
- When handling cleaning agents, follow the safety instructions on the cleaning agent manufacturer's data sheet.
- Always wear rubber gloves and protective goggles when cleaning (see section "2.7 Personal Protective Equipment").
- Take care not to touch the fitting or pipeline when processing hot media or during the sterilization process.

To clean the product when installed, simply wash the surfaces that come into contact with the media (CIP cleaning).

Cleaning agents:	3% nitric acid	max. +60 °C / +140 °F
	3% caustic soda	max. +80 °C / +176 °F

Please observe the following:

- Use only clean and chlorine-free water.
- Measure the quantities carefully to avoid overly strong concentrations of cleaning agent.
- Rinse with plenty of clean water after cleaning.

Sterilization

Sealing Material

EPDM	Sterilization temperature: short-term max. +140 °C / +284 °F
FKM	Sterilization temperature: short-term max. +130 °C / +266 °F
HNBR	Sterilization temperature: short-term max. +130 °C / +266 °F
VMQ	Sterilization temperature: short-term max. +140 °C / +284 °F

*The sterilization time should not exceed 30 seconds.

7.3 Spare Parts Stock

When requesting spare parts, the type of fitting must always be specified.

Important for all spare part requests or questions are the following details:

- Nominal width
- Sealing Material
- Housing material
- Connection type (DIN 11851, welding, etc.)
- Accessories

NOTE

Only use genuine spare parts since only these will guarantee perfect functioning. Replacement and accessory parts not supplied by AWH have not been checked or approved by AWH. The installation and/or the use of such products could therefore under certain circumstances result in changes with negative results to the properties of the fitting specified by its design and the higher-level facility. AWH is not liable for any damage arising from the use of non-original parts and non-original accessory parts. Standard parts can be obtained from specialist dealers.

Spare parts and the associated spare part numbers can be found in the Valve technology catalog (available on Internet page <http://www.awh.eu>).

8 Faults

8.1 Safety Notes



WARNING

Risk of serious injury due to incorrectly performed repair work!

When using harmful or toxic media or media which are hazardous in any other way, there is a risk of intoxication or chemical burns!

- Troubleshooting work should only be carried out by **specialist personnel**.
- Always adhere to the **switch-off procedure** prior to repair work (see section 2.3.4).
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).
- If in doubt, contact AWH.



WARNING



Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Empty the pipelines prior to repair work.
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).

8.2 Malfunctions and Remedial Action

Angle type strainer

Fault	Cause	Remedy
Strong pressure increase	Slotted pipe/perforated strainer clogged	Remove and clean the slotted pipe/perforated strainer
Fitting is leaking	Seal faulty, worn or dirty	Remove seal and replace and clean it if necessary
	Locking nut is loose	Tighten the locking nut
Product not filtered	Slotted ring installed incorrectly	Reinstall the slotted ring
	The locking nut is loose	Tighten the locking nut

Dirt trap

Fault	Cause	Remedy
Strong pressure increase	Filter insert clogged	Clean or replace the filter insert, respectively
Fitting is leaking	Seal faulty, worn or dirty	Remove seal and replace and clean it if necessary
	The heavy-duty clamp is loose	Tighten the heavy-duty clamp
Product not filtered	O-ring installed incorrectly (The O-ring is present only for the version with gap width 0.25 mm.)	Reinstall the O-ring

8.3 How to Act in Case of an Emergency

- Activate the emergency stop function on the higher-level facility (e.g. by pressing the emergency stop switch).
- Shut off the media supply.

9 Decommissioning/Disposal

9.1 Decommissioning and Disassembly

- Perform the switch-off procedures for the higher-level facility (see section 2.3.4).
- Observe the steps listed in chapter “6 Disassembly/Assembly”.



WARNING

Risk of serious injury due to incorrect disassembly!

When using harmful or toxic media or media which are hazardous in any other way, there is a risk of intoxication or chemical burns!

- Disassembly work should be carried out only by **specialist personnel**.
- Always adhere to the **switch-off procedure** prior to disassembly work (see section 2.3.4).
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).
- If in doubt, contact AWH.



WARNING



Risk of burns due to hot media!

There is a risk of burning if flow media have temperatures over +60 °C / +140 °F.

- Let the flow medium cool down prior to work.
- Empty the pipelines prior to disassembly work.
- Wear work protective clothing, protective gloves and protective goggles when carrying out the work (see section “2.7 Personal Protective Equipment”).

9.2 Disposal



CAUTION

Danger of injuries from harmful liquids which are a health hazard!

When performing disposal, there is a risk of injury from contact with harmful liquids.

- Wear appropriate personal protective equipment (e.g. protective goggles, protective gloves, see section “2.7 Personal Protective Equipment”).

NOTE***Risk of environmental damage as a result of improper disposal!***

- *The fitting is mainly made of stainless steel (except for sealing material) and should be disposed of in accordance with the applicable local environmental regulations.*
- *Oils and cleaning agents are NOT permitted to flow into ground water, bodies of waters or in the sewer system and must be disposed of in accordance with local regulations and in compliance with the information contained in the cleaning agent manufacturer's safety data sheets.*
- *Contaminated cleaning tools (such as brushes, cloths etc.) must be disposed of in accordance with the manufacturer's specifications.*
- *Packaging material must be disposed of in accordance with the environmental regulations and supplied for recycling.*

10 Declarations

On the following pages, declarations can be found for the following variants:

- Angle type strainer and
- Dirt traps.

Declarations for Fittings within the Meaning of the Pressure Equipment Directive 2014/68/EU

Fittings that come under the application area of Directive 2014/68/EC receive an EC Declaration of Conformity and a CE mark pursuant to that directive (see sections 10.2).

Fittings that come under article 4 section 3 receive no EU Declaration of Conformity and no CE mark pursuant to that directive (see sections 10.1 and 10.3).

Declarations for Fittings within the Meaning of the Machinery Directive 2006/42/EC

Fittings that come under the application area of Directive 2006/42/EC are incomplete machines, and receive a declaration for incorporation but no CE mark pursuant to that directive (see section 10.3).

10.1 Angle type strainer DN25 – DN65, 1" – 2 1/2", 1" – 2 1/2" (SMS FR)

Armaturenwerk Hötensleben GmbH
Schulstraße 5-6
39393 Hötensleben, Germany

Declaration (Translation)

Manufacturer's declaration within the meaning of the EU Pressure Equipment Directive 2014/68/EU

We hereby declare that the design of

Name: Angle type strainer
Type: DN25 – DN65 / PN10
1" – 2 1/2" / PN10
1" – 2 1/2" / PN10 (SMS FR)

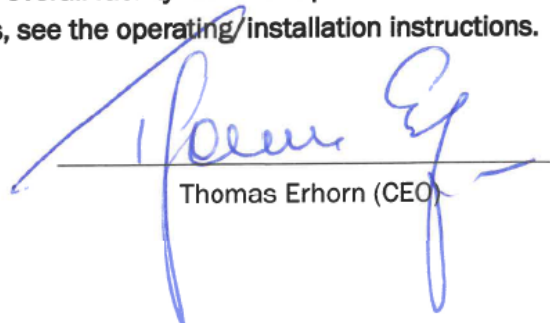
is consistent with the following directives and standards in its delivered version:

Guideline/Standard	Title	Version	Comments
2014/68/EU	EU Pressure Equipment Directive	05/2014	
DIN EN 12516-2	Industrial valves - Housing design strength - Part 2: Calculation method for steel fitting shells	10/2004	
AD 2000 information sheets	Regulations for pressure equipment (national standards)		
The fittings are designed for fluids in fluid group 1 and for gases in fluid group 2. Nominal widths DN25 – DN65, 1" – 2 1/2", 1" – 2 1/2" (SMS FR) are thereby classified in accordance with article 4, section 3.			

If any modifications are made to the fitting without our agreement, this declaration is void.

Commissioning is prohibited until it is determined that the overall facility fulfills the provisions of the guidelines. For information about proper use of the fittings, see the operating/installation instructions.

Hötensleben, Germany, 11. August 2020



Thomas Erhorn (CEO)

Person authorized to compile the technical documentation:
Armaturenwerk Hötensleben GmbH
Mr. Guth, Schulstr. 5/6, 39393 Hötensleben, Germany

10.2 Angle type strainer DN80 – DN100, DN125 – DN150, 3" – 4", 3" – 4" (SMS FR)

Armaturenwerk Höstensleben GmbH
Schulstraße 5-6
39393 Höstensleben, Germany

Declaration (Translation)

EU Declaration of Conformity pursuant to the EU Pressure Equipment Directive 2014/68/EU

We hereby declare that the design of

Name: Angle type strainer
Type: DN80 – DN100 / PN10
DN125 – DN150 / PN6
3" – 4" / PN10
3" – 4" / PN10 (SMS FR)

is consistent with the following directives and standards in its delivered version:

Guideline/Standard	Title	Version	Comments
2014/68/EU	EU Pressure Equipment Directive	05/2014	Module A
DIN EN 12516-2	Industrial valves - shell design strength – Part 2: Calculation method for steel fitting shells	10/2004	
AD 2000 information sheets	Regulations for pressure equipment (national standards)		
The fittings are designed for fluids in fluid group 1 and for gases in fluid group 2. Nominal widths DN80 – DN100, DN125 – DN150, 3" – 4", 3" – 4" (SMS FR) are thereby categorized in accordance with Category I.			

If any modifications are made to the fitting without our agreement, this declaration is void.

Commissioning is prohibited until it is determined that the overall facility fulfills the provisions of the guidelines. For information about proper use of the fittings, see the operating/installation instructions.

Höstensleben, Germany, 11. August 2020



Thomas Erhorn (CEO)

Person authorized to compile the technical documentation:

Armaturenwerk Höstensleben GmbH

Mr. Guth, Schulstr. 5/6, 39393 Höstensleben, Germany

10.3 Dirt trap DN25 - DN100

Armaturenwerk Hötensleben GmbH
Schulstraße 5-6
39393 Hötensleben, Germany

Declaration (Translation)

- Declaration for incorporation within the meaning of the EC Machinery Directive 2006/42/EC, Annex II B
- Manufacturer's declaration within the meaning of the EU Pressure Equipment Directive 2014/68/EU

We hereby declare that the design of

Name: Dirt trap

Type: DN25 – DN100 / PN10

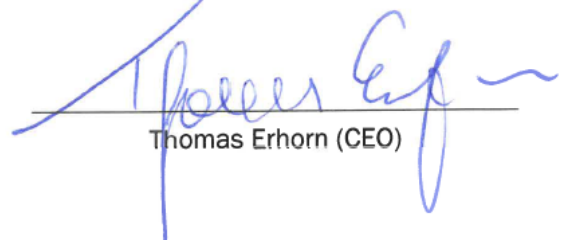
is consistent with the following directives and standards in its delivered version:

Guideline/Standard	Title	Version	Comments
2014/68/EU	EU Pressure Equipment Directive	05/2014	
DIN EN 12516-2	Industrial valves - shell design strength – Part 2: Calculation method for steel fitting shells	10/2004	
AD 2000 information sheets	Regulations for pressure equipment (national standards)		
The fittings are designed for fluids in fluid group 1 and for gases in fluid group 2. Nominal widths DN10 - DN100 are thereby classified in accordance with article 4, section 3.			
2006/42/EC	EC Machinery Directive	05/2006	
DIN EN ISO 12100	Safety of machinery – General principles for design – Risk assessment and risk reduction	2010	

If any modifications are made to the fitting without our agreement, this declaration is void.

Commissioning is prohibited until it is determined that the overall facility fulfills the provisions of the guidelines. For information about proper use of the fittings, see the operating/installation instructions.

Hötensleben, Germany, 11. August 2020



Thomas Erhorn (CEO)

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