bürkert
FLUID CONTROL SYSTEMS

Platinum-cured peroxide-free silicone hose

- No cross-sectional narrowing between screw connection and hose transition
- All wetted materials can be tracked
- Suitable for CIP and SIP

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type BBS-4S
Hose fittings

Type BBS-03
Fitting with welded connection according to DIN 11864-1 and accoding to BBS sterile contour

Type BBS-05
Clamp connection with welded connection according to DIN 11864-3 and according to BBS-Sterile contour

Type BBS-06
Flange connection with welded connection according to DIN 11864-2 and according to BBS-Sterile contour

Type 2707
Pinch valve with pneumatic actuator

Type description

The platinum-cured silicone hoses are available with or without reinforcing fabric. We deliver the silicone hoses pre-assembled with the corresponding reusable hose screw connections BBS-4S or sold per meter without hose screw connection.

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Materials	
Wetted	Platinum-cured silicone Phtalate-free, latex-free, ADI-free
Performance data	
Operating pressure	Further information can be found in chapter "4. Dimensions" on page 4.
Medium data	
Operating medium	Gases or liquids
Medium temperature	Max. + 160 °C
Product connections	
Port connection	See **datasheet Type BBS-4S** ▶
Approvals and conformities	
Certificate	REACH
Foods and beverages/Hygiene	
FDA	Further information can be found in chapter "2.4. Foods and beverages/Hygiene" on page 3.
USP	Further information can be found in chapter "2.4. Foods and beverages/Hygiene" on page 3.
EC Regulation 1935/2004	Further information can be found in chapter "2.4. Foods and beverages/Hygiene" on page 3.

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Foods and beverages/Hygiene

Conformity	Description
FDA	**FDA – Code of Federal Regulations (valid for variable code PL02, P03)** All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
USP	**United States Pharmacopeial Convention (USP) (valid for variable code PL04)** All wetted materials are biocompatible according to the manufacturer's declaration.
	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for variable code PL01, P02) All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

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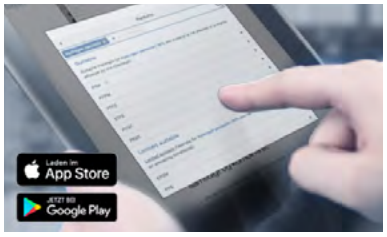
3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

4. Dimensions

4.1. Hose Type HH, without reinforcement

Note:

- Please note the information regarding steam sterilisation in chapter "5. Product installation" on page 9.
- A proper gap-free connection feature can only be guaranteed in combination with a BBS- 4S hose union.
- The available roll length has a tolerence of ± 10 %.
- Please note the minimum order quantity. A smaller quantity can also be ordered after checking stock.

Nominal diameter	Inner Ø	Wall thickness	Minimum bend radius	Max. operating pressure (at 20 °C)	Minimum burst pressure	Packaging unit	Minimum order quantity	Article no.
	[mm]	[mm]	[mm]	[bar]	[bar]	[m]	[m]	
DIN								
DN 04	5	2.5	30	2	4	50	100	730131
DN 06	6	3.0	50	2	4	50	100	730137
DN 08	8	3.2	60	1.5	3	50	100	730143
DN 10	10	4.75	70	1	3	25	100	730148
DN 15	12.7	4.75	80	1	2	25	25	730156
ISO								
DN 08	10	4.75	70	1	3	25	100	730148
DN 10	12.7	4.75	80	1	2	25	25	730156
ASME								
DN ¼"	5	2.5	30	2	4	50	100	730131
DN ⅜"	8	3.2	60	1.5	3	50	100	730143
DN ½"	12.7	4.75	80	1	2	25	100	730156

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4.2. Hose Type HI, glass silk-reinforced

Note:

- Please note the information regarding steam sterilisation in chapter "5. Product installation" on page 9.
- A proper gap-free connection feature can only be guaranteed in combination with a BBS- 4S hose union.
- The available roll length has a tolerence of ± 10 %.
- Please note the minimum order quantity. A smaller quantity can also be ordered after checking stock.

Nominal diameter	Inner Ø	Wall thickness	Minimum bend radius	Max. operating pressure (at 20 °C)	Minimum burst pressure	Packaging unit	Minimum order quantity	Article no.
	[mm]	[mm]	[mm]	[bar]	[bar]	[m]	[m]	
DIN								
DN 04	5	2	30	16	32	50	50	730133
DN 06	6	3	50	16	28	50	50	730139
DN 08	8	3.2	60	14	26	50	50	730145
DN 10	10	4.75	70	12	24	50	50	730152
DN 15	12.7	4.75	80	10	20	25	25	730160
DN 20	19	5.8	150	8	18	25	25	730168
DN 25	25.4	6.35	180	6	15	10	10	730174
DN 32	32	7	220	4	12	10	10	730180
ISO								
DN 08	10	4.75	70	12	24	50	50	730152
DN 10	12.7	4.75	80	10	20	25	25	730160
DN 15	19	5.8	150	8	18	25	25	730168
DN 20	25.4	6.35	180	6	15	10	10	730174
DN 25	32	7	220	4	12	10	10	730180
ASME								
DN ¼"	5	2.5	30	16	32	50	50	730133
DN ⅜"	8	3.2	60	14	26	50	50	730145
DN ½"	12.7	4.75	80	10	20	25	25	730160
DN ¾"	19	5.8	150	8	18	25	25	730168
DN 1"	25.4	6.35	180	6	15	10	10	730174

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4.3. Hose Type HJ, aramid-reinforced

Note:

- Please note the information regarding steam sterilisation in chapter "5. Product installation" on page 9.
- A proper gap-free connection feature can only be guaranteed in combination with a BBS- 4S hose union.
- The available roll length has a tolerence of ± 10 %.
- Please note the minimum order quantity. A smaller quantity can also be ordered after checking stock.

Nominal diameter	Inner Ø	Wall thickness	Minimum bend radius	Max. operating pressure (at 20 °C)	Minimum burst pressure	Packaging unit	Minimum order quantity	Article no.
	[mm]	[mm]	[mm]	[bar]	[bar]	[m]	[m]	
DIN								
DN 10	10	4.75	70	16	30	50	50	730150
DN 15	12.7	4.75	80	16	30	25	25	730158
DN 20	19	5.8	150	12	24	25	25	730164
DN 25	25.4	6.35	180	10	20	10	10	730172
DN 32	32	7	220	8	18	10	10	730178
DN 40	38	7	260	5	12	10	10	730186
DN 50	55	7	450	5	12	10	10	730199
ISO								
DN 08	10	4.75	70	16	36	50	50	730150
DN 10	12.7	4.75	80	16	30	25	25	730158
DN 15	19	5.8	150	12	24	25	25	730164
DN 20	25.4	6.35	180	10	20	10	10	730172
DN 25	32	7	220	8	18	10	10	730178
DN 32	38	7	260	5	12	10	10	730186
DN 40	45	7	350	5	12	10	10	730193
DN 50	55	7	450	5	12	10	10	730199
ASME								
DN ½"	12.7	4.75	80	16	30	25	25	730158
DN ¾"	19	5.8	150	12	24	25	25	730164
DN 1"	25.4	6.35	180	10	20	10	10	730172
DN 1½"	38	7	260	5	12	10	10	730186
DN 2"	45	7	350	5	12	10	10	730193

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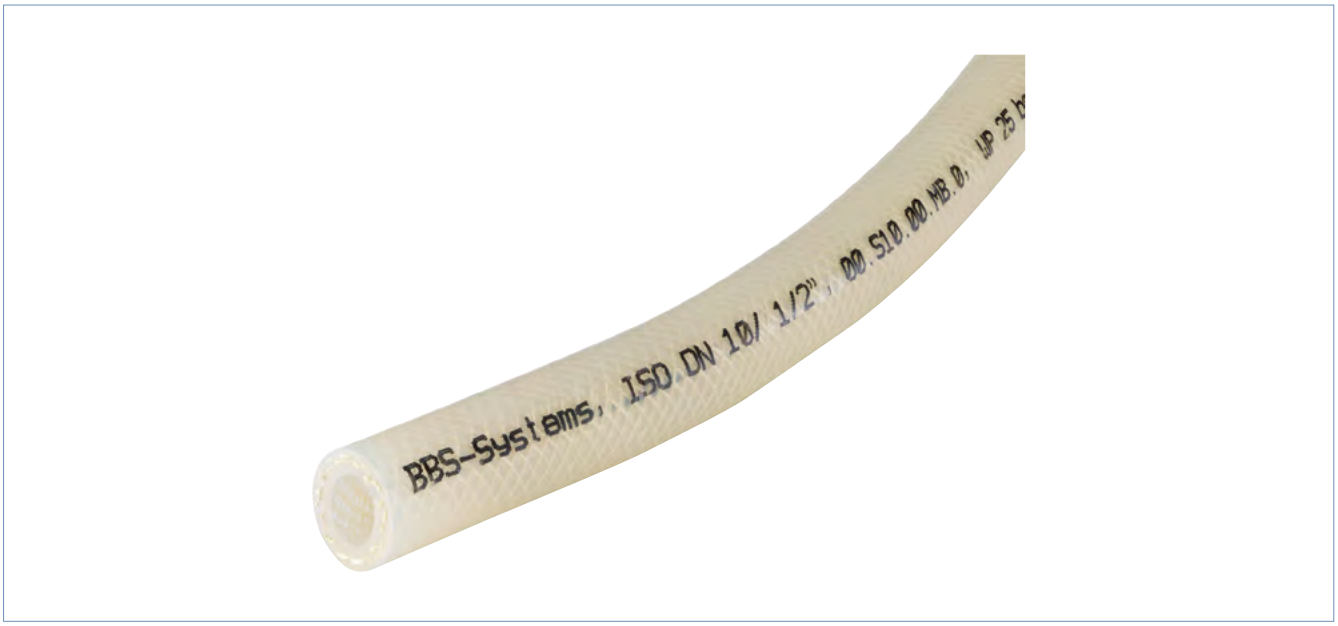
4.4. Hose Type HK, double aramid-reinforced

Note:

- Please note the information regarding steam sterilisation in chapter "5. Product installation" on page 9.
- A proper gap-free connection feature can only be guaranteed in combination with a BBS- 4S hose union.
- The available roll length has a tolerence of ± 10 %.
- Please note the minimum order quantity. A smaller quantity can also be ordered after checking stock.



Nominal diameter	Inner Ø	Wall thickness	Minimum bend radius	Max. operating pressure (at 20 °C)	Minimum burst pressure	Packaging unit	Minimum order quantity	Article no.
	[mm]	[mm]	[mm]	[bar]	[bar]	[m]	[m]	
DIN								
DN 15	12.7	4.75	90	25	48	25	25	743018
DN 20	19	5.8	150	20	48	25	25	743019
DN 25	25.4	6.35	180	15	32	10	25	743020
DN 32	32	7	220	13	30	10	25	743021
DN 40	38	7	260	10	20	10	25	743022
DN 50	55	7	450	8	20	10	50	743024
ISO								
DN 10	12.7	4.75	90	25	48	25	25	743018
DN 15	19	5.8	150	20	48	25	25	743019
DN 20	25.4	6.35	180	15	32	10	25	743020
DN 25	32	7	220	13	30	10	25	743021
DN 32	38	7	260	10	20	10	25	743022
DN 40	45	7	350	10	20	10	50	743023
DN 50	55	7	450	8	20	10	50	743024
ASME								
DN ½"	12.7	4.75	90	25	48	25	25	743018
DN ¾"	19	5.8	150	20	48	25	25	743019
DN 1"	25.4	6.35	180	15	32	10	25	743020
DN 1½"	38	7	260	10	20	10	25	743022
DN 2"	45	7	350	10	20	10	50	743023

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4.5. Hose Type HL, stainless steel-reinforced

Note:

- Please note the information regarding steam sterilisation in chapter "5. Product installation" on page 9.
- A proper gap-free connection feature can only be guaranteed in combination with a BBS- 4S hose union.
- The available roll length has a tolerence of ± 10 %.
- Please note the minimum order quantity. A smaller quantity can also be ordered after checking stock.

Nominal diameter	Inner Ø	Wall thickness	Minimum bend radius	Max. operating pressure (at 20 °C)	Minimum burst pressure	Packaging unit	Minimum order quantity	Article no.
	[mm]	[mm]	[mm]	[bar]	[bar]	[m]	[m]	
DIN								
DN 10	10	4.75	70	16	35	25	25	730154
DN 15	12.7	4.75	90	16	30	25	25	730162
DN 20	19	5.8	150	12	24	25	100	730170
DN 25	25.4	6.35	180	10	30	10	10	743917
DN 32	32	7	220	8	18	10	50	730182
DN 40	38	7	260	8	10	10	10	743852
ISO								
DN 08	10	4.75	70	16	45	25	25	730154
DN 10	12.7	4.75	90	16	30	25	25	730162
DN 15	19	5.8	150	12	24	25	100	730170
DN 20	25.4	6.35	180	10	20	10	10	743917
DN 25	32	7	220	8	18	10	50	730182
DN 32	38	7	260	8	14	10	10	743852
DN 40	45	7	350	7	12	10	100	730195
ASME								
DN ½"	12.7	4.75	90	16	30	25	25	730162
DN ¾"	19	5.8	150	12	24	25	100	730170
DN 1"	25.4	6.35	180	10	20	10	10	743917
DN 1½"	38	7	260	8,	14	10	10	743852
DN 2"	45	7	350	5	12	10	100	730195

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5. Product installation

5.1. Installation notes

Temperatures

The operating temperatures listed in this datasheet are valid only for the flow medium. The maximum values must be reduced for higher service life requirements. The limit values specified are temperatures that still guarantee sufficient flexibility of the hose. If the ambient temperature is not + 20 °C, consider this deviation when determining the maximum effective operating temperature. The specified pressure indications are valid also only at + 20 °C, unless specified differently. The correction values for higher pressures must be determined accordingly.

Steam

The BBS system silicone hoses may be steam sterilised at + 135 °C and a pressure of 3.5 bar. We recommend a maximum of 1.5 hours at + 135 °C. Between several sterilisation processes, at least one hour at room temperature should pass to achieve a hose stabilisation. Steam affects the mechanical and volumetric properties of the silicone elastomer. We recommend a visual hose inspection after 150 hours of steam exposure.

Pressure

If no specific information is provided, the correction factors may be used as guidelines. Be aware of the ambient temperature which has a significant influence on pressure resistance if the ambient temperature differs substantially from the pre-defined room temperature (+ 20 °C). BBS system hoses are not suitable for pulsating pressure applications. Likewise, continuous steam applications are excluded. Contrary to pipelines, silicone hoses are made of flexible, elastic material which accommodates the respective reinforcement material used to achieve a specific pressure resistance. Practically all such elastic material which are subject to different degrees of material fatigue and/or service life limitation. Therefore, hoses are always to be inspected resp. changed at regular intervals.

6. Ordering information

6.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

6.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

6.3. Ordering chart

Note:
Further information can be found in chapter "4. Dimensions" on page 4.

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