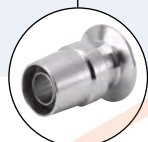


Platinum cured silicone hose

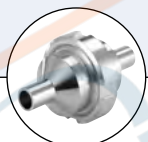


- Fully traceable materials
- Free from peroxyde
- Suitable for CIP and SIP
- No axisymmetric contraction of the union to the hose

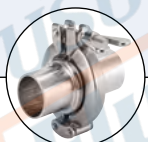
Type BBS-04 can be combined with...



Type BBS-4S
Hose connection



Type BBS-10
Ball check valve



Type BBS-05
Quick Connect



Type BBS-06
Quick Connect



Type 2103
Diaphragm valve



Type 8652
Process Automation

The hose is made from platinum cured silicone and meets FDA requirements and has USP VI approval. The production is based on exceptional quality standards that enable the use of the hose in combination with the type BBS-04 reusable connections and is available in all standard connection and sizes required in hygienic processing. The simplicity of the reusable connection system gives total unlimited flexibility in the field and supports truly cost effective maintenance.

Technical data

Available standard size

ISO DN08 up to DN50
BS-OD DN 1/4" up to DN2"
DIN DN04 up to DN50
Customised solution on request

Hose type

Type HH – Without reinforcement
Type HI – Glass silk reinforced
Type HJ – Aramide reinforced
Type HK – Double aramide reinforced
Type HL – Stainless steel reinforced

Operating / Burst pressure

See technical specification

Process temperature

See technical specification

Media

Gases or liquids

Ports/Connection

See data sheet for BBS-4S hose connection

Certificate

BfR, FDA, USP Class VI, E.P. 3.1.9

Applications

- Biotechnology
- Pharmaceutical
- Chemical industry
- Dairy
- Food
- Cosmetic

Hose type HH, without reinforcement



Orifice	Inner Ø [mm]	Thickness [mm]	Min. bend radius [mm]	Max. operating pressure (20 °C) ¹⁾	Max. mate- rial temp. ¹⁾	Min. burst pressure ¹⁾	Vacuum resistance	Available packaging unit [m]	Article no.
DIN Hose type HH, without reinforcement									
DN04	5.00	2.5	30.00	2	160 °C	4.0 bar	no collapse	50.00	730131
DN06	6.00	3.0	50.00	2	160 °C	4.0 bar	no collapse	50.00	730137
DN08	8.00	3.2	60.00	1.5	160 °C	3.0 bar	no collapse	50.00	730143
DN10	10.00	4.75	70.00	1	160 °C	3.0 bar	no collapse	25.00	730148
DN15	12.70	4.75	80.00	1	160 °C	2.0 bar	no collapse	25.00	730156
ISO Hose type HH, without reinforcement									
DN08	10.00	4.75	70.00	1	160 °C	3.0 bar	no collapse	25.00	730148
DN10	12.70	4.75	80.00	1	160 °C	2.0 bar	no collapse	25.00	730156
BS-OD Hose type HH, without reinforcement									
DN1/4"	5.00	2.5	30.00	2	160 °C	4.0 bar	no collapse	50.00	730131
DN3/8"	8.00	3.2	60.00	1.5	160 °C	3.0 bar	no collapse	50.00	730143
DN1/2"	12.70	4.75	80.00	1	160 °C	2.0 bar	no collapse	25.00	730156

1) Please note the information regarding steam sterilisation in the general information on the silicone tubing on page 7.

Note:

A proper gap-free connection feature can only be given in combination with BBS-4S hose connection.
The available roll length has a tolerance of ± 10 %.

Hose type HI, glass silk reinforced



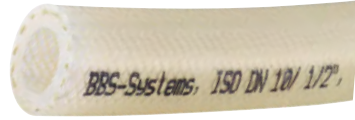
Orifice	Inner Ø [mm]	Thickness [mm]	Min. bend radius [mm]	Max. operating pressure (20 °C) ¹⁾	Max. mate- rial temp. ¹⁾	Min. burst pressure ¹⁾	Vacuum resistance	Available packaging unit [m]	Article no.
DIN Hose type HI, glass silk reinforced									
DN04	5.00	2.5	30.00	16.0 bar	160 °C	32.0 bar	no collapse	50.00	730133 ๒
DN06	6.00	3.0	50.00	16.0 bar	160 °C	28.0 bar	no collapse	50.00	730139 ๒
DN08	8.00	3.2	60.00	14.0 bar	160 °C	26.0 bar	no collapse	50.00	730145 ๒
DN10	10.00	4.75	70.00	12.0 bar	160 °C	24.0 bar	no collapse	50.00	730152 ๒
DN15	12.70	4.75	80.00	10.0 bar	160 °C	20.0 bar	650 mm/HG	25.00	730160 ๒
DN20	19.00	5.8	150.00	8.0 bar	160 °C	18.0 bar	580 mm/HG	25.00	730168 ๒
DN25	25.40	6.35	180.00	6.0 bar	160 °C	15.0 bar	400 mm/HG	10.00	730174 ๒
DN32	32.00	7.0	220.00	4.0 bar	160 °C	12.0 bar	180 mm/HG	10.00	730180 ๒
ISO Hose type HI, glass silk reinforced									
DN08	10.00	4.75	70.00	12.0 bar	160 °C	24.0 bar	no collapse	50.00	730152 ๒
DN10	12.70	4.75	80.00	10.0 bar	160 °C	20.0 bar	650 mm/HG	25.00	730160 ๒
DN15	19.00	5.8	150.00	8.0 bar	160 °C	18.0 bar	580 mm/HG	25.00	730168 ๒
DN20	25.40	6.35	180.00	6.0 bar	160 °C	15.0 bar	400 mm/HG	10.00	730174 ๒
DN25	32.00	7.0	220.00	4.0 bar	160 °C	12.0 bar	180 mm/HG	10.00	730180 ๒
BS-OD Hose type HI, glass silk reinforced									
DN1/4"	5.00	2.5	30.00	16.0 bar	160 °C	32.0 bar	no collapse	50.00	730133 ๒
DN3/8"	8.00	3.2	60.00	14.0 bar	160 °C	26.0 bar	no collapse	50.00	730145 ๒
DN1/2"	12.70	4.75	80.00	10.0 bar	160 °C	20.0 bar	650 mm/HG	25.00	730160 ๒
DN3/4"	19.00	5.8	150.00	8.0 bar	160 °C	18.0 bar	580 mm/HG	25.00	730168 ๒
DN1"	25.40	6.35	180.00	6.0 bar	160 °C	15.0 bar	400 mm/HG	10.00	730174 ๒

1) Please note the information regarding steam sterilisation in the general information on the silicone tubing on page 7.

Note:

A proper gap-free connection feature can only be given in combination with BBS-4S hose connection.
The available roll length has a tolerance of ± 10 %.

Hose type HJ, aramid reinforced



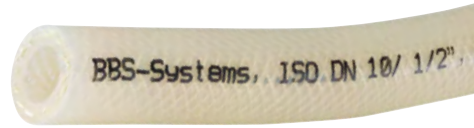
Orifice	Inner Ø [mm]	Thickness [mm]	Min. bend radius [mm]	Max. operating pressure (20 °C) ¹⁾	Max. mate- rial temp. ¹⁾	Min. burst pressure ¹⁾	Vacuum resistance	Available packaging unit [m]	Article no.
DIN Hose type HJ, aramid reinforced									
DN10	10.00	4.75	70.00	16.0 bar	160 °C	30.0 bar	no collapse	50.00	730150 ๒๕
DN15	12.70	4.75	80.00	16.0 bar	160 °C	30.0 bar	650 mm/HG	25.00	730158 ๒๕
DN20	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	580 mm/HG	25.00	730164 ๒๕
DN25	25.40	6.35	180.00	10.0 bar	160 °C	20.0 bar	400 mm/HG	10.00	730172 ๒๕
DN32	32.00	7.0	220.00	8.0 bar	160 °C	18.0 bar	180 mm/HG	10.00	730178 ๒๕
DN40	38.00	7.0	260.00	5.0 bar	160 °C	12.0 bar	180 mm/HG	10.00	730186 ๒๕
DN50	55.00	7.0	450.00	5.0 bar	160 °C	12.0 bar	120 mm/HG	10.00	730199 ๒๕
ISO Hose type HJ, aramid reinforced									
DN08	10.00	4.75	70.00	16.0 bar	160 °C	36.0 bar	no collapse	50.00	730150 ๒๕
DN10	12.70	4.75	80.00	16.0 bar	160 °C	30.0 bar	650 mm/HG	25.00	730158 ๒๕
DN15	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	580 mm/HG	25.00	730164 ๒๕
DN20	25.40	6.35	180.00	10.0 bar	160 °C	20.0 bar	400 mm/HG	10.00	730172 ๒๕
DN25	32.00	7.0	220.00	8.0 bar	160 °C	18.0 bar	180 mm/HG	10.00	730178 ๒๕
DN32	38.00	7.0	260.00	5.0 bar	160 °C	12.0 bar	180 mm/HG	10.00	730186 ๒๕
DN40	45.00	7.0	350.00	5.0 bar	160 °C	12.0 bar	120 mm/HG	10.00	730193 ๒๕
DN50	55.00	7.0	450.00	5.0 bar	160 °C	12.0 bar	120 mm/HG	10.00	730199 ๒๕
BS-OD Hose type HJ, aramid reinforced									
DN1/2"	12.70	4.75	80.00	16.0 bar	160 °C	30.0 bar	650 mm/HG	25.00	730158 ๒๕
DN3/4"	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	580 mm/HG	25.00	730164 ๒๕
DN1"	25.40	6.35	180.00	10.0 bar	160 °C	20.0 bar	400 mm/HG	10.00	730172 ๒๕
DN1½"	38.00	7.0	260.00	5.0 bar	160 °C	12.0 bar	180 mm/HG	10.00	730186 ๒๕
DN2"	45.00	7.0	350.00	5.0 bar	160 °C	12.0 bar	120 mm/HG	10.00	730193 ๒๕

1) Please note the information regarding steam sterilisation in the general information on the silicone tubing on page 7.

Note:

A proper gap-free connection feature can only be given in combination with BBS-4S hose connection.
The available roll length has a tolerance of ±10 %.

Hose type HK, double aramid reinforced



Orifice	Inner Ø [mm]	Thickness [mm]	Min. bend radius [mm]	Max. operating pressure (20 °C) ¹⁾	Max. material temp. ¹⁾	Min. burst pressure ¹⁾	Vacuum resistance	Available packaging unit [m]	Article no.
DIN Hose type HK, double aramid reinforced									
DN15	12.70	4.75	90.00	25.0 bar	160 °C	48.0 bar	no collapse	25.00	743018 ๒๕
DN20	19.00	5.8	150.00	20.0 bar	160 °C	48.0 bar	no collapse	25.00	743019 ๒๕
DN25	25.40	6.35	180.00	15.0 bar	160 °C	32.0 bar	no collapse	10.00	743020 ๒๕
DN32	32.00	7.0	220.00	13.0 bar	160 °C	30.0 bar	no collapse	10.00	743021 ๒๕
DN40	38.00	7.0	260.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743022 ๒๕
DN50	55.00	7.0	450.00	8.0 bar	160 °C	20.0 bar	no collapse	10.00	743024 ๒๕
ISO Hose type HK, double aramid reinforced									
DN10	12.70	4.75	90.00	25.0 bar	160 °C	48.0 bar	no collapse	25.00	743018 ๒๕
DN15	19.00	5.8	150.00	20.0 bar	160 °C	48.0 bar	no collapse	25.00	743019 ๒๕
DN20	25.40	6.35	180.00	15.0 bar	160 °C	32.0 bar	no collapse	10.00	743020 ๒๕
DN25	32.00	7.0	220.00	13.0 bar	160 °C	30.0 bar	no collapse	10.00	743021 ๒๕
DN32	38.00	7.0	260.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743022 ๒๕
DN40	45.00	7.0	350.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743023 ๒๕
DN50	55.00	7.0	450.00	8.0 bar	160 °C	20.0 bar	no collapse	10.00	743024 ๒๕
BS-OD Hose type HK, double aramid reinforced									
DN1/2"	12.70	4.75	90.00	25.0 bar	160 °C	48.0 bar	no collapse	25.00	743018 ๒๕
DN3/4"	19.00	5.8	150.00	20.0 bar	160 °C	48.0 bar	no collapse	25.00	743019 ๒๕
DN1"	25.40	6.35	180.00	15.0 bar	160 °C	32.0 bar	no collapse	10.00	743020 ๒๕
DN1½"	38.00	7.0	260.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743022 ๒๕
DN2"	45.00	7.0	350.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743023 ๒๕

1) Please note the information regarding steam sterilisation in the general information on the silicone tubing on page 7.

Note:

A proper gap-free connection feature can only be given in combination with BBS-4S hose connection.
The available roll length has a tolerance of ± 10 %.

Hose type HL, stainless steel reinforced



Orifice	Inner Ø [mm]	Thickness [mm]	Min. bend radius [mm]	Max. operating pressure (20 °C) ¹⁾	Max. material temp. ¹⁾	Min. burst pressure ¹⁾	Vacuum resistance	Available packaging unit [m]	Article no.
DIN Hose type HL, stainless steel reinforced									
DN10	10.00	4.75	70.00	16.0 bar	160 °C	35.0 bar	no collapse	25.00	730154 ฎ
DN15	12.70	4.75	90.00	16.0 bar	160 °C	30.0 bar	no collapse	25.00	730162 ฎ
DN20	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	no collapse	25.00	730170 ฎ
DN25	25.40	6.35	180.00	10.0 bar	160 °C	30.0 bar	no collapse	10.00	743917 ฎ
DN32	32.00	7.0	220.00	8.0 bar	160 °C	18.0 bar	no collapse	10.00	730182 ฎ
DN40	38.00	7.0	260.00	8.0 bar	160 °C	10.0 bar	no collapse	10.00	743852 ฎ
ISO Hose type HL, stainless steel reinforced									
DN08	10.00	4.75	70.00	16.0 bar	160 °C	45.0 bar	no collapse	25.00	730154 ฎ
DN10	12.70	4.75	90.00	16.0 bar	160 °C	30.0 bar	no collapse	25.00	730162 ฎ
DN15	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	no collapse	25.00	730170 ฎ
DN20	25.40	6.35	180.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743917 ฎ
DN25	32.00	7.0	220.00	8.0 bar	160 °C	18.0 bar	no collapse	10.00	730182 ฎ
DN32	38.00	7.0	260.00	8.0 bar	160 °C	14.0 bar	no collapse	10.00	743852 ฎ
DN40	45.00	7.0	350.00	7.0 bar	160 °C	12.0 bar	no collapse	10.00	730195 ฎ
BS-OD Hose type HL, stainless steel reinforced									
DN1/2"	12.70	4.75	90.00	16.0 bar	160 °C	30.0 bar	no collapse	25.00	730162 ฎ
DN3/4"	19.00	5.8	150.00	12.0 bar	160 °C	24.0 bar	no collapse	25.00	730170 ฎ
DN1"	25.40	6.35	180.00	10.0 bar	160 °C	20.0 bar	no collapse	10.00	743917 ฎ
DN1½"	38.00	7.0	260.00	8.0 bar	160 °C	14.0 bar	no collapse	10.00	743852 ฎ
DN2"	45.00	7.0	350.00	5.0 bar	160 °C	12.0 bar	no collapse	10.00	730195 ฎ

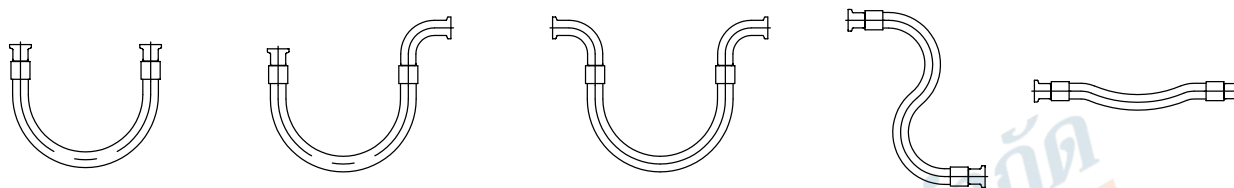
1) Please note the information regarding steam sterilisation in the general information on the silicone tubing on page 7.

Note:

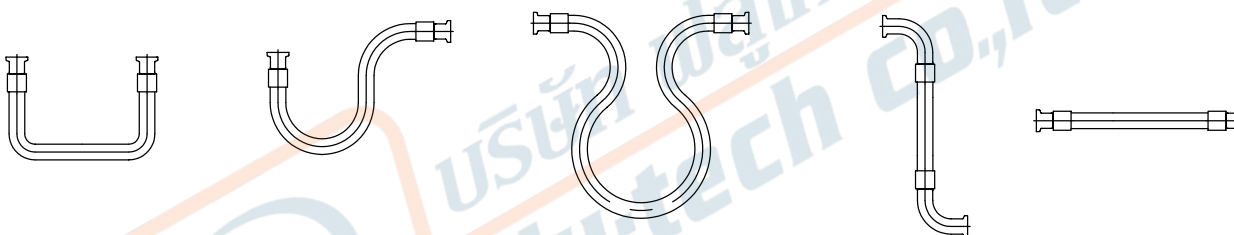
A proper gap-free connection feature can only be given in combination with BBS-4S hose connection.
The available roll length has a tolerance of ±10%.

General information about silicone hoses

Recommended installation



Not recommended installation



Temperatures

The operating temperatures listed in this data sheet are valid only for the flow medium and provide an area, within which according to experience a more proper service life is expected. If higher requirements are needed then the maximum life cycle will reduce. Temperatures are specified as limit values, which guarantee sufficient flexibility of the hose. If the ambient temperature differs from 20 °C it is essential to consider this one when determining the maximum effective operating temperature. The specified pressure indications are valid – where nothing else is mentioned – also only at 20 °C. Correction value should be calculated for higher pressure.

Steam

The BBS system silicone hoses may be sterilized by steam at a temperature of 135 °C and a pressure of 3.5 bar. We recommend a maximum of 1 ½ hours at a temperature of 135 °C. At least 1 hour (at room temperature) should be pass to achieve an hose stabilization between several sterilization processes. Steam affects the mechanical and volumetric properties of the silicone elastomer. We recommend a hose inspection after 150 hours of steam exposure.

Pressure

If the temperature of the medium differs from the room temperature, the operating pressures has to be reduce according to the information. If no specific information is made then correction factors may be used as guidelines. It is important to take care of the ambient temperature, which has a significant influence on the pressure resistance, provided that they substantially differ from room temperature (20 °C). BBS system hoses are not suitable for pulsating pressure application. Likewise, continuous steam applications are excluded. Contrary to piping silicone hose is a flexible, elastic material which accommodates a respective re-enforcement material used to achieve certain pressure resistance. Such elastic material is affected by ageing and therefore restricted in life cycle through a natural material fatigue. Therefore hoses are always to be inspected at regular intervals. If necessary the hoses have to be changed at each maintenance service.

Silicone hose type 04 – request for quotation

Note
You can fill out the fields directly in the PDF file before printing out the form.

▶ Please fill out and send to your nearest Bürkert office* with your inquiry or order

Company:	Contact person:
Customer no.:	Department:
Address:	Tel./Fax.:
Postcode/town:	E-Mail:

Quantity Required delivery date

Specification key for silicone hose

Example	TCS	BS	1½"	BN2	HI	08	1875	J	TCS	BS	1½"	2
Code no.	01	02	03	04	05	06	07	08	09	10	11	12

Specification key

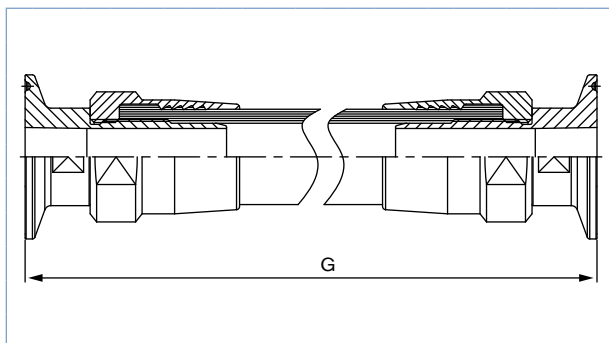
(Please make a choice)

01 / 09	Connection Type 1 / Connection Type 2
TCS	Clamp standard
SVS	Sterile connection standard
QCM	Quick-connect Male
QCF	Quick-connect Female
ACM	Aseptic Clamp 11864 Male
ACF	Aseptic Clamp 11864 Female
SWO	Weld end Orbital
02 / 10	Connection Size 1 / Connection Size 2
ISO	ISO dimension
DIN	DIN dimension
BS	BS-OD
03 / 11	Orifice 1 / Orifice 2
See *	Nominal diameter

04	Wetted parts material
BN2	1.4435
DIN no.	Other
05	Hose Type
HH	Without reinforcement
HI	Glass silk reinforced
HJ	Aramid reinforced
HK	Double aramid reinforced
HL	Stainless steel reinforced
06	Wetted parts surface
08	Ra < 0.8 µm
00	Other

07	Hoze size [mm]
See **	Size G
08	Label
(Please insert required text into comment box)	
J	with hose tag
N	without hose tag
12	Certificate
0	None
2	FDA/USP/BfR
3	Inspection certificate 3.1
4	Pressure test
5	FDA/USP/BfR and 3.1
6	FDA/USP/BfR and 3.1 and Pressure test
7	FDA/USP/BfR and Pressure test

Please : * fill in the desired nominal diameter
** fill in the desired size (see drawing below)



Comments/sketch

NOTE: For other requests please contact your nearest Bürkert office

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