

TECHNICAL TUBES

PUSH-LOCK HOSES & FITTINGS

PLUS

**RESISTANT TO REPEATED FLEXIONS
WITH EXCELLENT BENDING RADIUS**

HIGH ABRASION RESISTANCE

**GOOD OZONE RESISTANCE
(ASR & ASR-PU HOSES)**

**DOES NOT REQUIRE HOSE CLAMP,
RESULTING IN A CONSIDERABLE
REDUCTION IN ASSEMBLY TIME**

**SUITABLE FOR USE IN COOLING
SYSTEMS**

**AVAILABLE IN FOUR COLOURS
(ASR & ASR-PU HOSES)**

**FULL RANGE OF FITTINGS IN THREE
MATERIALS: BRASS, STEEL AND
STAINLESS STEEL AISI 316L**



TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / PUSH-LOCK HOSES



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p. 770 / **ASR-HH**



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TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / BRASS FITTINGS



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TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / GALVANISED STEEL FITTINGS



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TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / STAINLESS STEEL AISI 316L FITTINGS



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-20°C ÷ +75°C air
0°C ÷ +95°C water
Environment temperature:
-20°C ÷ +95°C



Max. working pressure:
16 Bar



Compressed air & industrial
water



Inner layer:
synthetic rubber
Reinforcement:
high tensile textile layer
Outer layer:
high performance synthetic rubber

FEATURES

- High flexibility
- High abrasion resistance
- 100% silicone free
- Ozone resistance
- For use without hose clamp
- Suitable for the automobile industry, with fluids such as water and air

SILICONE FREE



Products in compliance with
EC Regulation 1907/2006

RoHS3

Products in compliance with
the directive EU 2015/863

ASR

Push-lock hose ASR



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX. WORKING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR06	1/4"	6	6,5 +0,4 -0,3	12,0 - 13,0	45	16	140	40
ASR10	3/8"	10	9,7 ±0,4	14,8 - 16,0	75	16	170	40
ASR13	1/2"	13	13,0 ±0,5	18,5 - 20,0	90	16	260	40
ASR16	5/8"	16	16,0 +0,7 -0,3	23,4 - 25,0	115	16	340	40
ASR20	3/4"	20	19,3 ±0,5	26,0 - 28,0	135	16	420	40
ASR25	1"	25	25,6 ±0,5	34,0 - 36,0	165	16	640	40

DN		 Black	 * Blue	 * Red	 * Green
1/4"	6	ASR06NE	ASR06BL	ASR06RO	ASR06VD
3/8"	10	ASR10NE	ASR10BL	ASR10RO	ASR10VD
1/2"	13	ASR13NE	ASR13BL	ASR13RO	ASR13VD
5/8"	16	ASR16NE	ASR16BL	ASR16RO	ASR16VD
3/4"	20	ASR20NE	ASR20BL	ASR20RO	ASR20VD
1"	25	ASR25NE	ASR25BL	ASR25RO	ASR25VD

* Blue, Red and Green: available on demand and min. quantity

Restrictions: not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels and hydraulic and lubricating oils. Use our ASR hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.





-40 °C ÷ +75 °C air
0 °C ÷ +120 °C water
Environment temperature:
-40 °C ÷ +120 °C



Max. working pressure:
14 Bar



Compressed air & industrial
water



Inner layer:
synthetic rubber

Reinforcement:
high tensile textile layer

Outer layer:
high performance synthetic rubber

FEATURES

- High flexibility
- High abrasion resistance
- 100% silicone free
- For use without hose clamp
- For use in the injection moulding sector and automobile industry for the transport of demineralized water up to 120°C with corrosion inhibitor and air up to 75°C.

SILICONE FREE



Products in compliance with
EC Regulation 1907/2006

RoHS3

Products in compliance with
the directive EU 2015/863

ASR-HH

Push-lock hose ASR-HH



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX. WORKING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR-HH06	1/4"	6	6,5 +0,4 -0,3	12,0 - 13,0	45	14	125	40
ASR-HH10	3/8"	10	9,7 ±0,4	14,8 - 16,0	75	14	150	40
ASR-HH13	1/2"	13	13,0 ±0,5	18,5 - 20,0	90	14	235	40
ASR-HH16	5/8"	16	16,0 +0,7 -0,3	23,4 - 25,0	115	14	350	40

DN		Blue	Red
1/4"	6	* ASR-HH06BL	ASR-HH06RO
3/8"	10	ASR-HH10BL	ASR-HH10RO
1/2"	13	ASR-HH13BL	ASR-HH13RO
5/8"	16	ASR-HH16BL	ASR-HH16RO

* available on request and min. quantity

Restrictions: not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels and hydraulic and lubricating oils. Use our ASR-HH hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.





-20°C ÷ +80°C air
0°C ÷ +80°C water
Environment temperature:
-20°C ÷ +80°C



Working pressure:
See the table
Negative pressure:
See the table



Compressed air, industrial
water and fluids suitable with
construction materials



Inner layer:
polyurethane
Reinforcement:
high tensile textile layer
Outer layer:
polyurethane

FEATURES

- High abrasion resistance
- Tear resistance
- 100% silicone free
- UV & ozone resistance
- For use without hose clamp
- Good resistance to mineral oil, oily elements, oxygen, acids and diluted alkaline
- Suitable for individual applications, especially for the robotic and automobile industry for air, water and different gases

SILICONE FREE



Products in compliance with
EC Regulation 1907/2006

RoHS3

Products in compliance with
the directive EU 2015/863

ASR-PU

Push-lock hose ASR-PU



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 20°C (Bar)	NEGATIVE PRESSURE (Bar)	g/m
ASR-PU06	1/4"	6	6,4	13	25	13	0,8	110
ASR-PU10	3/8"	10	9,5	16	60	13	0,8	154
ASR-PU13	1/2"	13	12,5	19	75	13	0,8	218
ASR-PU16	5/8"	16	16,5	23	125	12	0,8	280
ASR-PU20	3/4"	20	19,5	27	150	10	0,8	325

DN		 Black	 * Light blue	 * Red	 * Green
1/4"	6	ASR-PU06NE	ASR-PU06AZ	ASR-PU06RO	ASR-PU06VD
3/8"	10	ASR-PU10NE	ASR-PU10AZ	ASR-PU10RO	ASR-PU10VD
1/2"	13	ASR-PU13NE	ASR-PU13AZ	ASR-PU13RO	ASR-PU13VD
5/8"	16	ASR-PU16NE	ASR-PU16AZ	ASR-PU16RO	ASR-PU16VD
3/4"	20	ASR-PU20NE	ASR-PU20AZ	ASR-PU20RO	ASR-PU20VD

* Light blue, Red and Green: available on request and min. quantity

Restrictions: not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels. Use our ASR-PU hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.



FITTINGS TECHNICAL DATA

YELLOW BRASS FITTINGS:

Materials: Turning: Yellow brass UNI EN 12164 CW614N - Hot forging & machining: Yellow brass UNI EN 12165 CW617N

Turning: ASTM B16 C3600 - Hot forging & machining: ASTM B124 C3770 (SPHM-R-BS, SPHM-N-BS & SPHU-BS)

Pressure: 25 Bar (the working pressure depends on the tube used)

Temperature: from 0°C to 80°C (the working temperature depends on the tube used)

from -49°C to 149°C (SPHM-R-BS, SPHM-N-BS & SPHU-BS), the working temperature depends on the tube used

Passage: Compressed air and fluids suitable with construction materials

GALVANISED STEEL FITTINGS:

Material: Galvanised steel (Cr type II galvanisation)

Pressure: 16 Bar (the working pressure depends on the tube used)

Temperature: da -20°C a 120°C (the working temperature depends on the tube used)

Passage: Compressed air and fluids suitable with construction materials

STAINLESS STEEL AISI 316L FITTINGS:

Material: Stainless steel AISI 316L

Max pressure (at 38 °C): 25 Bar (the working pressure depends on the tube used)

Temperature: from -49°C to 149°C (the working temperature depends on the tube used)

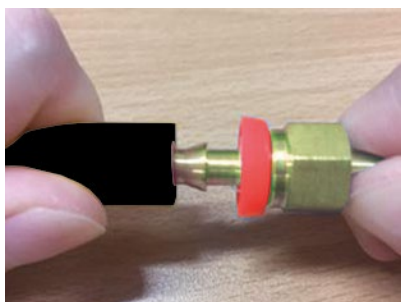
Passage: Compressed air and fluids suitable with construction materials

ASSEMBLY INSTRUCTIONS

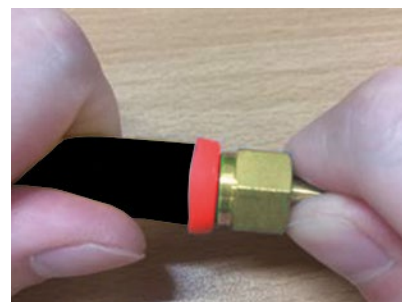
HOW TO ASSEMBLY



1. Cut the hose vertically and leave its end clean.



2. Insert the barb connector into the hose (use soapy water to lubricate and make the insertion easier).



3. Insert the fitting into the hose till the end of the plastic cap.
4. Ensure that the hose is completely inserted.

HOW TO DISASSEMBLY



1. Cut the hose lengthwise from the plastic cap to the end of the barb.

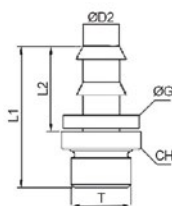


2. Bend the hose to expose the barbs, then remove the hose pulling.



3467

Brass male barb connector BSPP thread with metal-nitrile composite gasket



CODE	DN		T	ØD2	L1	L2	ØG	CH	g
3467TR1814	1/4"	6	G 1/8"	4,0	31,5	20,0	14,0	13	14,0
3467TR1438	3/8"	10	G 1/4"	7,5	39,1	24,1	17,0	17	27,0
3467TR3838	3/8"	10	G 3/8"	7,5	42,5	24,1	17,0	22	47,0
3467TR3812	1/2"	13	G 3/8"	10,0	46,5	28,0	20,5	22	48,0
3467TR1212	1/2"	13	G 1/2"	10,0	48,5	28,0	20,5	27	79,0
3467TR1258	5/8"	16	G 1/2"	13,5	56,5	36,5	24,0	27	73,0
3467TR3434	3/4"	20	G 3/4"	16,0	65,3	43,0	27,0	32	123,0

2605

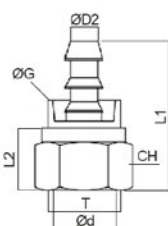
Metal-nitrile composite gasket



CODE	2605TR18	2605TR14	2605TR38	2605TR12	2605TR34	2605TR1
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"

3468

Swivel brass female barb connector metric thread



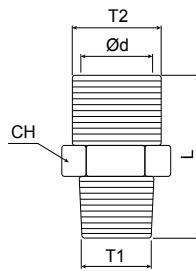
CODE	DN		T	ØD2	Ød	L1	L2	ØG	CH	g
3468TRM1014	1/4"	6	M10x1	4,0	6	33,5	11,0	14,0	13	17,0
3468TRM1214	1/4"	6	M12x1	4,8	8	34,5	13,0	14,0	14	18,0
3468TRM1614	1/4"	6	M16x1,5	4,8	10	35,8	15,0	14,0	19	33,0
3468TRM1638	3/8"	10	M16x1,5	7,5	10	39,3	15,0	17,0	19	35,0
3468TRM2038	3/8"	10	M20x1,5	7,5	14	39,3	15,0	17,0	24	52,0
3468TRM2012	1/2"	13	M20x1,5	10,0	14	44,0	15,0	20,5	24	56,0
3468TRM2212	1/2"	13	M22x1,5	10,0	16	45,0	17,0	20,5	27	77,0
3468TRM2412	1/2"	13	M24x1,5	10,0	18	47,0	18,0	20,5	30	99,0
3468TRM2458	5/8"	16	M24x1,5	13,5	18	55,0	18,0	24,0	30	97,0
3468TRM3034	3/4"	20	M30x1,5	16,0	22	62,0	18,5	27,0	36	137,0
3468TRRM361	1"	25	M36x1,5	22,0	28	71,3	21,0	36,5	42	249,0

The barb connector 3468 can be combined with our yellow brass compression fittings range.
Refer to Ød in order to chose the right combination.



3400-SC

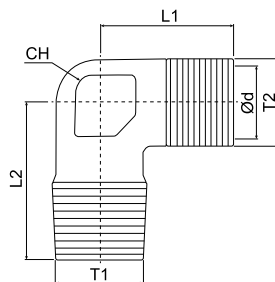
Brass straight male adapter BSPT & metric thread



CODE	T1	T2	Ød	L	CH	g
3400TR186-SC	R 1/8"	M10x1	6	19,0	11	8,0
3400TR146-SC	R 1/4"	M10x1	6	22,5	14	14,0
3400TR188-SC	R 1/8"	M12x1	8	19,5	13	9,0
3400TR148-SC	R 1/4"	M12x1	8	23,0	14	14,0
3400TR388-SC	R 3/8"	M12x1	8	24,5	17	22,0
3400TR1810-SC	R 1/8"	M16x1,5	10	23,5	17	20,0
3400TR1410-SC	R 1/4"	M16x1,5	10	27,0	17	24,0
3400TR3810-SC	R 3/8"	M16x1,5	10	27,5	17	32,0
3400TR1210-SC	R 1/2"	M16x1,5	10	32,0	22	43,0
3400TR1414-SC	R 1/4"	M20x1,5	14	27,0	22	34,0
3400TR3814-SC	R 3/8"	M20x1,5	14	27,5	22	35,0
3400TR1214-SC	R 1/2"	M20x1,5	14	32,0	22	44,0
3400TR1216-SC	R 1/2"	M22x1,5	16	32,5	24	51,0
3400TR1218-SC	R 1/2"	M24x1,5	18	34,5	27	63,0
3400TR3418-SC	R 3/4"	M24x1,5	18	35,0	27	74,0
3400TR1222-SC	R 1/2"	M30x1,5	22	36,0	32	93,0
3400TR3422-SC	R 3/4"	M30x1,5	22	36,0	32	98,0
3400TR122-SC	R 1"	M30x1,5	22	41,0	36	135,0
3400TRR128-SC	R 1"	M36x1,5	28	46,0	41	160,5

3440-SC

Brass male elbow adapter BSPT & metric thread

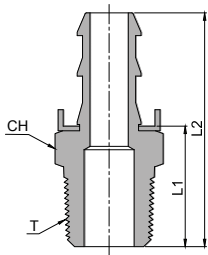


CODE	T1	T2	Ød	L1	L2	CH	g
3440TR186-SC	R 1/8"	M10x1	6	17,6	18,0	8	12,0
3440TR146-SC	R 1/4"	M10x1	6	17,6	21,5	10	21,0
3440TR188-SC	R 1/8"	M12x1	8	22,4	18,5	10	18,0
3440TR148-SC	R 1/4"	M12x1	8	22,4	22,0	10	22,0
3440TR388-SC	R 3/8"	M12x1	8	22,4	24,0	12	33,0
3440TR1410-SC	R 1/4"	M16x1,5	10	24,0	25,0	12	31,0
3440TR3810-SC	R 3/8"	M16x1,5	10	24,0	25,0	12	42,0
3440TR1210-SC	R 1/2"	M16x1,5	10	28,8	32,0	19	88,0
3440TR3814-SC	R 3/8"	M20x1,5	14	28,0	30,0	19	70,0
3440TR1214-SC	R 1/2"	M20x1,5	14	28,0	32,0	19	74,0
3440TR3816-SC	R 3/8"	M22x1,5	16	31,2	30,0	19	87,0
3440TR1216-SC	R 1/2"	M22x1,5	16	31,2	33,5	19	69,0
3440TR1218-SC	R 1/2"	M24x1,5	18	32,8	35,5	23	109,0
3440TR3418-SC	R 3/4"	M24x1,5	18	32,8	36,5	23	145,0
3440TR3422-SC	R 3/4"	M30x1,5	22	40,0	40,0	27	203,0
3440TR122-SC	R 1"	M30x1,5	22	40,0	44,0	27	231,0



SPHM-R-BS

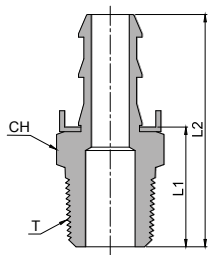
Brass male barb connector BSPT thread



CODE	DN		T	CH	L1	L2	g
SPHM-4-4R-BS	1/4"	6	R 1/4"	15	22,9	42,7	24,0
SPHM-6-4R-BS	3/8"	10	R 1/4"	15	22,9	45,0	27,0
SPHM-6-6R-BS	3/8"	10	R 3/8"	18	24,6	46,7	27,0
SPHM-8-8R-BS	1/2"	12	R 1/2"	22	28,7	55,6	76,0
SPHM-12-12R-BS	3/4"	20	R 3/4"	27	33,8	76,0	143,0
SPHM-16-16R-BS	1"	25	R 1"	35	38,6	85,6	255,0

SPHM-N-BS

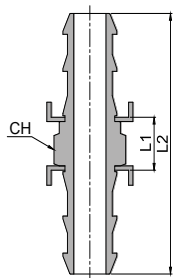
Brass male barb connector NPT thread



CODE	DN		T	CH	L1	L2	g
SPHM-4-4N-BS	1/4"	6	N 1/4"	15	22,9	42,7	24,0
SPHM-6-4N-BS	3/8"	10	N 1/4"	15	22,9	45,0	27,0
SPHM-6-6N-BS	3/8"	10	N 3/8"	18	24,6	46,7	27,0
SPHM-8-8N-BS	1/2"	12	N 1/2"	22	28,7	55,6	76,0
SPHM-12-12N-BS	3/4"	20	N 3/4"	27	33,8	76,0	143,0
SPHM-16-16N-BS	1"	25	N 1"	35	38,6	85,6	255,0

SPHU-BS

Brass union barb connector

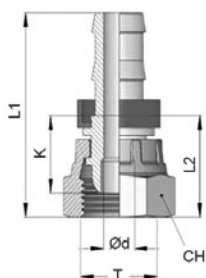


CODE	DN		CH	L1	L2	g
SPHU-4-4-BS	1/4"	6	11	10,7	50,3	-
SPHU-6-6-BS	3/8"	10	15	13,2	57,4	-
SPHU-8-8-BS	1/2"	12	18	13,7	67,5	-
SPHU-12-12-BS	3/4"	20	24	14,3	98,7	-
SPHU-16-16-BS	1"	25	32	16,5	110,5	-



3470

Swivel steel female barb connector BSPP thread, 60° ogival seat

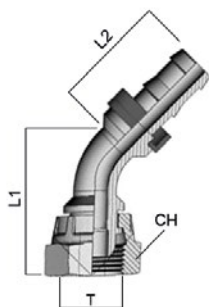


CODE	DN		Ød	T	L1	L2	K	CH	g
3470TR14	1/4"	6	4,0	G 1/4"	37,2	17,9	13,2	19	30,0
3470TR38	3/8"	10	7,0	G 3/8"	44,2	21,7	14,2	22	48,0
3470TR12	1/2"	12	9,5	G 1/2"	51,2	28,5	22,5	27	81,0
3470TR34	3/4"	20	14,5	G 3/4"	68,2	39,2	27,6	32	139,0
3470TR1	1"	25	20,0	G 1"	74,0	38,4	28,4	41	239,0

* 3/4" and 1" thread without plastic collar

3471

Swivel steel elbow 45° female barb connector BSPP thread, 60° ogival seat

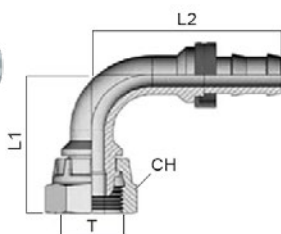


CODE	DN		T	L1	L2	CH	g
3471TR14	1/4"	6	G 1/4"	39,5	25,0	19	40,0
3471TR38	3/8"	10	G 3/8"	51,0	31,0	22	65,0
3471TR12	1/2"	12	G 1/2"	64,5	36,0	27	118,0
3471TR34	3/4"	20	G 3/4"	88,5	51,0	32	212,0
3471TR1	1"	25	G 1"	88,5	73,5	46	398,0

* 3/4" and 1" thread without plastic collar

3472

Swivel steel elbow 90° female barb connector BSPP thread, 60° ogive seat



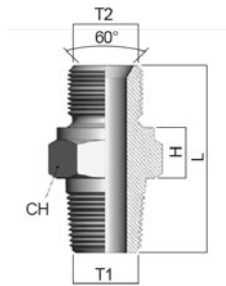
CODE	DN		T	L1	L2	CH	g
3472TR14	1/4"	6	G 1/4"	29,5	40,0	19	40,0
3472TR38	3/8"	10	G 3/8"	42,0	53,5	22	70,0
3472TR12	1/2"	12	G 1/2"	50,0	62,5	27	120,0
3472TR34	3/4"	20	G 3/4"	69,0	90,0	32	238,0
3472TR1	1"	25	G 1"	86,5	105,0	40	433,0

* 3/4" and 1" thread without plastic collar



3474

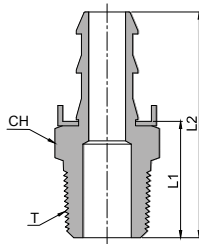
Steel straight adapter BSPT thread, 60° ogive seat



CODE	T1	T2	L	H	CH	g
3474TR14	R 1/4"	G 1/4"	33,0	8	19	31,0
3474TR38	R 3/8"	G 3/8"	39,0	11	22	50,0
3474TR12	R 1/2"	G 1/2"	43,0	10	27	86,0
3474TR34	R 3/4"	G 3/4"	46,5	11	32	144,0
3474TR1	R 1"	G 1"	56,0	13	41	236,0

SPHM-R

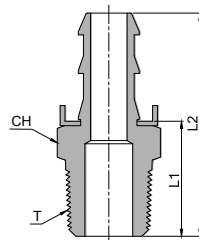
Stainless steel AISI 316L male barb connector BSPT thread



CODE	DN		T	L1	L2	CH	g
SPHM-4-4R	1/4"	6	R 1/4"	22,9	42,7	15	21,0
SPHM-6-4R	3/8"	10	R 1/4"	22,9	45,0	15	25,0
SPHM-6-6R	3/8"	10	R 3/8"	24,6	46,7	18	25,0
SPHM-8-8R	1/2"	12	R 1/2"	28,7	55,6	22	70,0
SPHM-12-12R	3/4"	20	R 3/4"	33,8	76,0	27	130,0
SPHM-16-16R	1"	25	R 1"	38,6	85,6	35	240,0

SPHM-N

Stainless steel AISI 316L male barb connector NPT thread

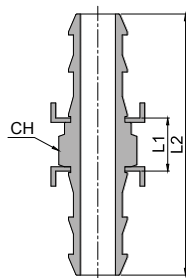


CODE	DN		T	L1	L2	CH	g
SPHM-4-4N	1/4"	6	N 1/4"	22,9	42,7	15	21,0
SPHM-6-4N	3/8"	10	N 1/4"	22,9	45,0	15	25,0
SPHM-6-6N	3/8"	10	N 3/8"	24,6	46,7	18	25,0
SPHM-8-8N	1/2"	12	N 1/2"	28,7	55,6	22	70,0
SPHM-12-12N	3/4"	20	N 3/4"	33,8	76,0	27	130,0
SPHM-16-16N	1"	25	N 1"	38,6	85,6	35	240,0



SPHU

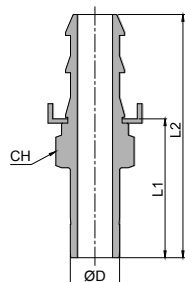
Stainless steel AISI 316L union barb connector



CODE	DN		L1	L2	CH	g
SPHU-4-4	1/4"	6	10,7	50,3	11	-
SPHU-6-6	3/8"	10	13,2	57,4	15	27,2
SPHU-8-8	1/2"	12	13,7	67,5	18	-
SPHU-12-12	3/4"	20	14,3	98,7	24	-
SPHU-16-16	1"	25	16,5	110,5	32	-

SPHA

Stainless steel AISI 316L barb connector with stem



CODE	DN		ØD	L1	L2	CH	g
SPHA-4-4T	1/4"	6	1/4"	25,2	45,0	11	57,0
SPHA-6-6T	3/8"	10	3/8"	29,5	51,6	15	57,0
SPHA-8-8T	1/2"	12	1/2"	35,8	62,7	18	57,0
SPHA-12-12T	3/4"	20	3/4"	37,6	79,8	24	89,6
SPHA-16-16T	1"	25	1"	46,7	93,7	32	176,5

The SPHA barb connector can be combined with our S-LOK range (INOX.Fit catalogue).
Use the ØD as a reference to choose the correct combination.

