

DIFLON

T E C H N O L O G Y



FLEXILINE

General Catalogue

SINCE 1969

DIFLON

TECHNOLOGY

DIFLON Technology S.r.l.

Head Office:

Piazza Castello, 26 - 20121 Milano

Factory:

Via Sicilia, 8

24060 Carobbio degli Angeli (Bg)

Tel. +39 (0) 35 4491137

Fax +39 (0) 35 4491419

www.diflon.it - info@diflon.it



www.diflon.it

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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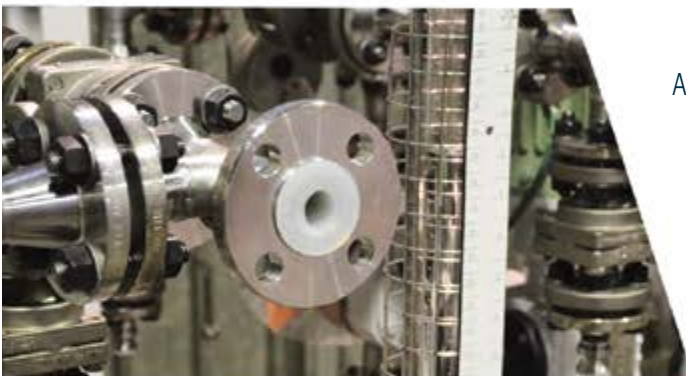
Телефоны: +7 (495) 7774788, 7489626, 5007155, 54 Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

WHY DIFLON ?

The application of products manufactured by Diflon Technology Srl is a strategic choice, responsible and safe, thanks to the technical materials of high quality certified.

The finished products are designed with their own technical offices with cutting-edge tools and manufactured in stablimenti of Diflon production in Italy.

All materials are manufactured in accordance with ISO 9001 certification following the instructions of the Decree 81/08 and in accordance with 97/23/EC (PED).



ADDITIONAL SERVICES

- Design and production of special coatings anticorrosion in fluoropolimery
- Supply of valve packages
- Technical consultancy in the choice of materials
- Technical testing and certification standards and on request
- Detailed engineering of sketches, material lists, assembly supervision

SINCE 1969

Since more than 40 years, Diflon Technology srl. Direct production, in their establishment located in Carobbio degli Angeli (BG) Italy:

- Pipes, fittings, columns and tanks internally lined in PTFE / PFA according to DIN and ANSI standards for corrosion-resistant applications.
- Technical hoses, fittings and gaskets used for high-performance applications in the chemical, petrochemical, pharmaceutical, food, industry.
- Universal gaskets Diflex. • PTFE / TFM expansion joints. • Lining in PFA for valves, pomsps etc.

All products are made using the most modern production techniques.



STRUCTURE OF PRODUCTION DEPARTMENTS

- Stores finished parts, raw materials
- Automatic CNC Machines
- Cutting and welding departments
- Coating PTFE/PFA pipes, columns and tanks
- Sandblasting
- Painting
- PFA transfer molding
- PTFE molding
- expansion joints Stamping in TFM / PTFE
- pipes and fittings Flexible Manufacturing
- Industrial gaskets
- Flexible hoses and fittings

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FLEXILINE Introduction

GENERAL CATALOGUE

The general catalog Flexiline is a general overview of special hoses with high technological content, available connected or in rolls, certified according to all relevant international standards. Special fittings in Stainless Steel PFA lined and standard fittings in SS AISI 304L/316L. Diflex special seals, Viton, Silicon etc ... and accessories in stainless steel.

Testing, certification and traceability according to the needs of our customers.

USING THE PRODUCT

General catalog Flexiline is divided into 4 sections:

- C1 Hoses
- C2 Fittings
- C3 Seals
- C4 Accessories

SYMBOLOLOGY:

By clicking directly on the cover of catalogs you will be immediately directed to the point of interest.



In the pages of catalogs you will find the symbol that brings you back to the index of the section



General Technical Information



SEVIZI DIFLON / DIFLON SERVICE:

By clicking on the symbol on the side of each card gives access to tables of chemical resistance of the materials.



C1

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FLEXILINE 

**HIGH
PERFORMANCE
HOSES**

DIFLON

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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C1

FLEXILINE

HIGH PERFORMANCE HOSES

HIGH PERFORMANCE HOSES

Hoses lined with PTFE, PFA, UPE and other corrosion resistant materials, suitable for food and pharmaceutical products.


















Stainless steel or Rubber external cover.

Flexible silicone hoses for pharmaceutical industry.

Diflon sales program includes the supplying of hose assembling with correct dimensions stainless steel AISI 316L, AI-Si316L / PFA.

Hoses are compliant with standards EN 12115, FDA21, USP XXXII CLASS VI, ISO 10993, BFR CAT III, DM 21.03.73, ER 1935/2004/CE, JAPAN MHW 370, European Pharmacopeia 3.1.9 and other Standards Specifications.















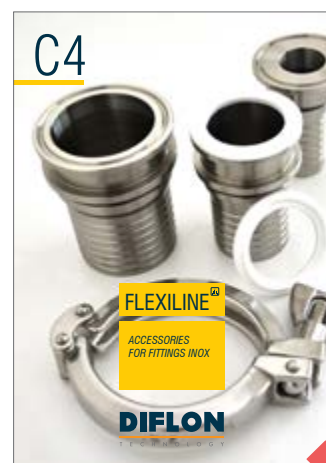
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QOPPA - PTFE CO - 304 BRAID

Convuluted PTFE Hose With AISI 304 Braid

Use / application

Tube for vacuum and delivery for applications in low and medium low pressure and high temperatures, resistant to almost all chemical products. Where they are required high flexibility and a minimum bend radius. The PTFE used ensures minimal porosity. The main sectors are the ones dedicated chemical, pharmaceutical, petrochemical, paint, steam, glues and adhesives, fuels, mineral oils and general applications with critical conditions.

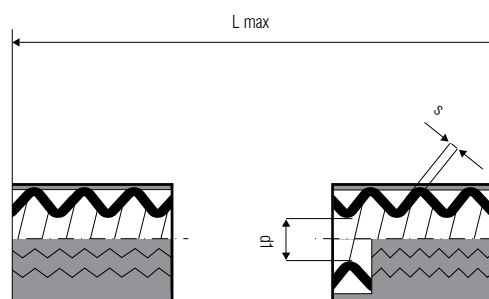


Fig. 1

Description

Tube

Virgin PTFE convoluted hose

Cover

SS AISI 304 external braid

Technical characteristics

Temperature range

-70°C / +260°C

Dimension Table Fig.1

DN		d1 min	d1 max	s ± 10%	Minimum bend radius	Max. working pressure	Burst pressure	Admissible vacuum at 20°C/68°F	L max.	Weight of hose
DIN	ANSI	mm	mm	mm	mm	Bar 20°C		mbar 20°C	m	gr/m
-	1/4"	5.5	6.9	0.75	25	35	170	744	20	80
10	3/8"	8.5	10.5	0.65	25	35	170	744	20	123
15	1/2"	11.6	13.6	0.75	25	60	300	887	20	140
-	5/8"	15.1	16.4	0.80	35	55	270	887	20	160
20	3/4"	19.5	20.5	1.00	55	60	290	887	20	390
25	1"	24.5	25.5	1.00	85	40	210	887	20	540
32	1 1/4"	31.5	32.5	1.00	100	40	210	887	20	680
40	1 1/2"	36.5	37.5	1.50	120	35	175	887	20	1110
-	1 3/4"	44.5	45.5	1.50	135	25	135	887	20	1650
50	2"	49.5	50.5	1.65	165	25	135	887	20	1710
65	2 1/2"	62.5	63.5	1.60	230	16	80	887	20	2140
80	3"	73.5	74.5	1.60	260	14	65	887	20	3310
100	4"	94.5	99.5	1.82	300	10	40	887	20	4050

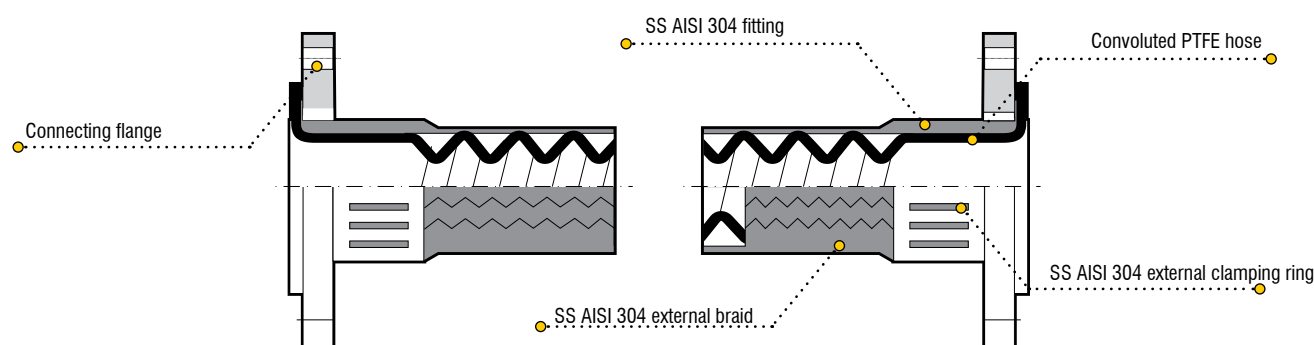


QOPPA - PTFE CO - 304 BRAID

Examples of crimping

PTFE Chemical Transfer Hose SS AISI 304 external braid flanged

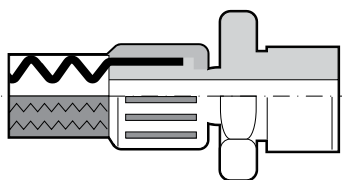
- Loose flanges - Flanges acc. to EN 1092-1, PN 10
- Flanges acc. to ASME/ANSI B16.5 Class 150
- DN 15 - DN 100 - DN 1/2" - DN 4"
- Rated for -70°C +260°C



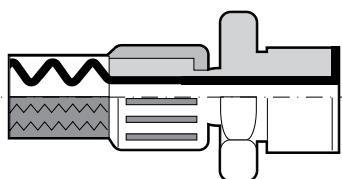
PTFE Chemical Transfer Hose SS AISI 304 Made threaded nozzle

- DN 20 - DN 100 - DN 3/4" - DN 4"

With coated fitting



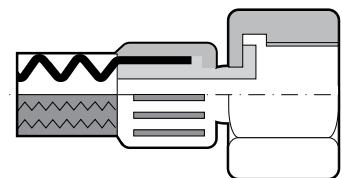
With coated fitting



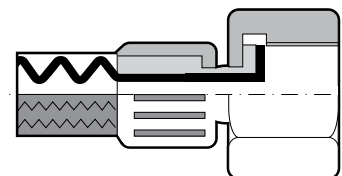
PTFE Chemical Transfer Hose SS AISI 304 With Swivel nut

- DN 20 - DN 100 - DN 3/4" - DN 4"

With coated fitting



With coated fitting



QOPPA - PTFE CO

Convoluted PTFE Hose

PTFE Chemical Transfer Hose No Inox

- Loose flanges
- DN 15 - DN 100 - DN 1/2" - DN 4"
- Flanges acc. to EN 1092-1
- Flanges acc. to ASME/ANSI B16.5 Class 150
- Rated for -30°C/ -20°F to +135°C/ +275°F

Materials

Extruded PTFE according to ASTM D-4895
 Extruded PTFE antistatic
 Flange material according to the customer's specification.

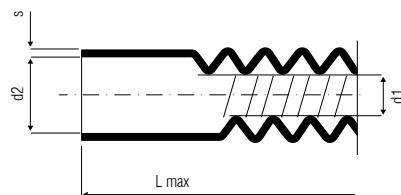


Fig. 1

Straight end

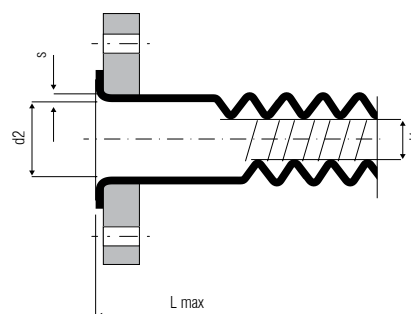


Fig. 2

Flared and flanged end

Length tolerance
 L ≤ 1000 mm: +/- 5%
 L ≥ 1000 mm: +/- 3%

Notes

Dimensions are only an example. Other diameters can be supplied request.

Dimension Table Fig.1 - Fig.2

DN		d1 min	d1 max	s ± 10%	Minimum bend radius	Max. working pressure	Burst pressure	Admissible vacuum at 20°C/68°F	L max.	Weight of hose
DIN	ANSI	mm	mm	mm	mm	Bar 20°C		mbar 20°C	m	gr/m
-	1/4"	5.5	6.9	0.75	25	4.0	14.0	744	80	47
10	3/8"	8.5	10.5	0.65	25	4.0	14.0	744	76	58
15	1/2"	11.6	13.6	0.75	25	4.0	14.0	887	74	72
-	5/8"	15.1	16.4	0.80	35	3.0	11.0	887	53	97
20	3/4"	19.5	20.5	1.00	55	3.0	11.0	887	40	142
25	1"	24.5	25.5	1.00	85	3.0	10.0	887	30	194
32	1 1/4"	31.5	32.5	1.00	100	2.5	9.0	887	22	258
40	1 1/2"	36.5	37.5	1.50	120	2.5	9.0	887	50	337
-	1 3/4"	44.5	45.5	1.50	135	2.0	8.0	887	45	455
50	2"	49.5	50.5	1.65	165	2.0	8.0	887	40	522
65	2 1/2"	62.5	63.5	1.60	230	1.5	6.0	887	30	654
80	3"	73.5	74.5	1.60	260	1.3	5.0	887	22	765
100	4"	94.5	99.5	1.82	300	1.0	4.5	887	14	1310



□ Θ THETA - PTFE SW

PTFE Hose With AISI 304 Braid

Use / application

Suction and delivery hose suitable in low and medium pressure applications which require flexibility and a tight bend radius. The choice of the best raw material guarantees minimum porosity. Focused branches are Chemical, petrochemicals, paints, steam, glues and adhesives, fuels, hydraulic oils, and any application under critical usage conditions.

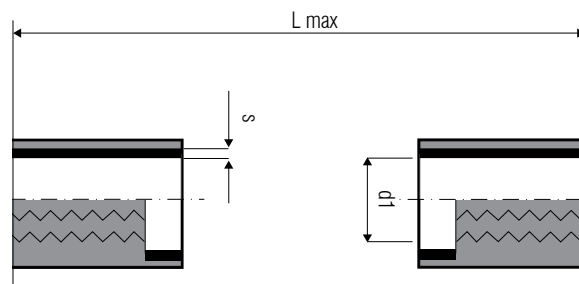


Fig. 1

Description

Tube

Virgin PTFE smooth hose

Cover

SS AISI 304 external wire braid

Option

- Inner core made with conductive PTFE
- Heavy wall hoses
- AISI 316 external wire braid
- Double wire braid
- *Special jacket made by thermoplastics*

Technical characteristics

Temperature range

-70°C / +260°C



Dimension Table Fig.1

DN		d1 min	d1 max	s ± 10%	Minimum bend radius	Max. working pressure	Burst pressure	Admissible vacuum at 20°C/68°F	Weight of hose
DIN	ANSI	mm	mm	mm	mm	Bar 20°C		mbar 20°C	gr/m
-	1/4"	6,45	6,96	1	76	224	672	887	145
10	3/8"	9,93	10,64	1	127	207	621	887	195
15	1/2"	13	13,6	1	140	161	483	887	265
-	5/8"	16,4	17,2	1,2	165	114	345	887	345
20	3/4"	19,3	20,32	1,2	203	103	310	887	420
25	1"	25,6	26,62	1,2	305	80	241	887	540

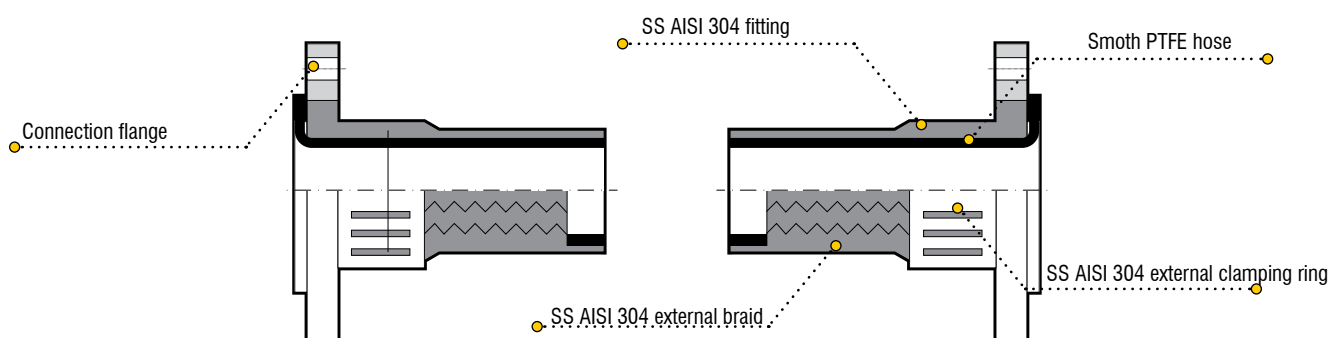


θ THETA - PTFE SW

Examples of crimping

PTFE Chemical Transfer Hose Type smooth bore

- Loose flanges
- DN 15 - DN 50 - DN 1/2"
- Flanges acc. to EN 1092-1
- Flanges acc. to ASME/ANSI B16.5
- Rated for -40°C/ -40°F to +230°C/ +440°F





□ Θ THETA - PTFE LAB

PTFE Thin Wall Tubes

PTFE Thin Wall Tubes

Technical specifications

Standard product range consists of a set of thin wall tubes made by using natural PTFE raw material.

Inside diameter: from 1,5 mm to 26 mm.

Wall thickness: from 0,5 mm to 3,0 mm.

Length: based on diameter and wall thickness. For market most requested diameters, standard length coils are supplied: in 25 meters, 50 and 100 meters.

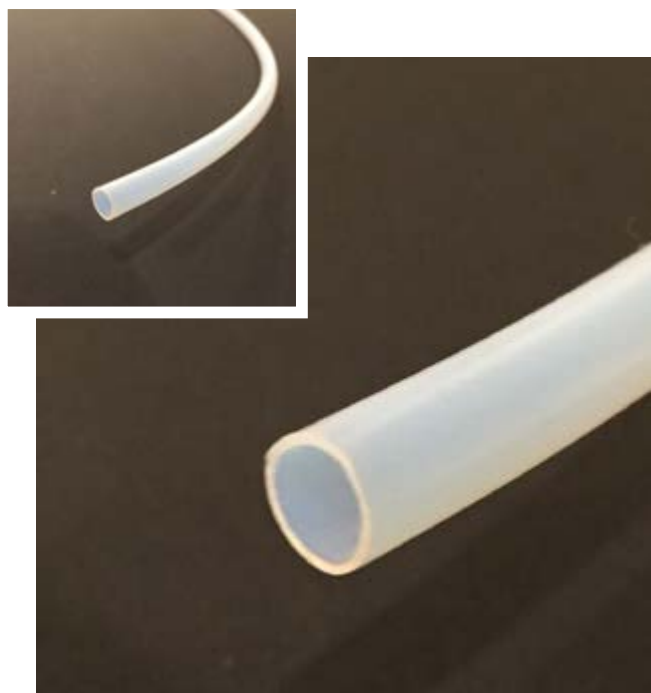
Owing to state of the technology art plants is able to produce, for some diameters, coils with lengths that can vary from 150 to 1,000 meters.

Industrial sectors

- Fluid, gas and other materials transport industry
- Electronic and electrical industry
- Automotive and motorcycle industry
- Semiconductor industry

Upon request DIFLON can produce TWT with custom specifications such as:

diameter and tolerance as requested by the client's drawing, calibrated outside diameter, FDA raw materials, pigmented raw material available in several colours (ROHS free), antistatic and/or special additive filled raw materials, different shape sections, hoses cut at specific measure and/or treated as requested by the client's drawing.



Pressure and temperature

<i>Effect of temperature on pressure resistance</i>	
T(°C)	P(%)
23°	100
50°	85
100°	65
150°	50
200°	35

Working pressure is 1/3 of the burst pressure.



θ THETA - PTFE LAB

PTFE - Standard dimensions and property table

ID (mm)	OD (mm)	Weight (Kg/m)	Burst pressure (MPa a 23°C)	Radius of curvature (mm)
1,5	3,2	0,012	110	12,0
1,5	3,5	0,017	125	12,0
2,0	3,0	0,009	70	18,0
2,0	4,0	0,020	110	16,0
2,5	3,5	0,010	55	25,0
2,5	4,0	0,017	80	18,0
2,5	5,0	0,032	110	20,0
3,0	4,0	0,012	50	32,0
3,0	5,0	0,027	85	25,0
3,0	6,0	0,046	110	24,0
4,0	5,0	0,015	40	50,0
4,0	6,0	0,034	70	36,0
4,0	7,0	0,056	90	33,0
4,0	8,0	0,081	110	32,0
4,5	6,5	0,037	60	41,0
5,0	6,0	0,018	30	50,0
5,0	7,0	0,041	60	49,0
5,0	8,0	0,066	80	43,0
5,0	9,0	0,055	95	41,0
6,0	7,0	0,022	25	98,0
6,0	8,0	0,048	50	64,0
6,0	9,0	0,076	70	54,0
6,0	10,0	0,109	85	50,0
6,5	9,5	0,081	65	60,0
7,0	9,0	0,054	40	81,0
7,0	10,0	0,087	60	67,0
7,5	9,5	0,058	40	90,0
8,0	9,0	0,029	20	162,0
8,0	10,0	0,061	40	100,0
8,0	12,0	0,136	70	72,0

ID (mm)	OD (mm)	Weight (Kg/m)	Burst pressure (MPa a 23°C)	Radius of curvature (mm)
9,0	10,0	0,032	15	205,0
9,0	11,0	0,068	35	120,0
9,0	12,0	0,107	50	85,0
10,0	11,0	0,036	15	242,0
10,0	12,0	0,075	30	144,0
10,0	13,0	0,116	45	113,0
10,0	14,0	0,162	55	98,0
11,0	13,0	0,081	30	145,0
12,0	14,0	0,878	25	196,0
13,0	15,0	0,095	25	225,0
14,0	16,0	0,101	20	256,0
15,0	17,0	0,108	20	289,0
15,0	18,0	0,167	30	216,0
16,0	18,0	0,115	20	324,0
16,5	19,5	0,182	30	254,0
17,0	20,0	0,187	25	267,0
18,0	20,0	0,128	15	400,0
18,0	22,0	0,270	30	242,0
19,0	22,0	0,208	20	323,0
20,0	22,0	0,142	15	325,0
20,0	24,0	0,297	25	288,0
21,0	24,0	0,228	20	384,0
22,0	24,0	0,155	15	576,0
24,0	27,0	0,258	20	486,0
24,5	27,0	0,217	15	583,0
25,0	28,0	0,268	15	523,0

Inside diameter tolerance

Diameter (mm)	Tolerance (mm)
1,5 < d ≤ 5	± 0,10
5,1 < d ≤ 7	± 0,15
7,1 < d ≤ 10	± 0,20
10,1 < d ≤ 15	± 0,30
15,1 < d ≤ 20	± 0,40
20,1 < d ≤ 30	± 0,60

Maximum excentration tolerance

Wall thickness (mm)	Maximum excentration tolerance (mm)
0,5	0,1
1	0,15
1,5	0,17
2	0,2
2,5	0,25
3	0,3



□ Θ THETA - PFA LAB

PFA Thin Wall Tubes

PFA tubes

Technical specifications

PFA standard tubes are made by using high molecular weight and pure virgin PFA raw material.

Inside diameter: from 2 mm to 26 mm.

No length limit. Packaging in coils or on rolls.

Industrial sectors

- Fluid, gas and other materials transport industry
- Semiconductor industry
- Healthcare industry
- Electronics

Upon request PFA tubes can also be produced with custom specifications such as:

diameter and tolerance as shown by the client's drawing, various shape sections, hoses cut to specific measure and/or treated as shown by the customers drawing.

PFA Tubes – Standard dimensions range table

Inside diameter (mm)	Thickness (mm)	Outside diameter (mm)	Tolerance (mm)	Weight (g/m)
1.17	1,00	3.17	±0.10	15.0
2.00	0,50	3,00	±0.10	8.6
2.00	1,00	4,00	±0.10	20.3
2,50	0,75	4,00	±0.10	16.8
4.00	1,00	6,00	±0.10	33.8
4.35	1,00	6.35	±0.10	37.0
6.00	1,00	8,00	±0.10	47.3
6.35	1,57	9.50	±0.10	87.0
8.00	1,00	10,00	±0.10	60.8
10.00	1,00	12,00	±0.10	74.3
9.50	1,60	12.70	±0.10	122.0
12.00	1,00	14,00	±0.10	87.8



Θ THETA - PFA LAB

Material specification comparison table

Technical specifications	Unit of measure	Test methods (ASTM)	PTFE	PFA
<i>Physical</i>				
Specific gravity	gr/cm ³	D792	2,16	2,15
Appearance			<i>Transluced White</i>	<i>Transparent</i>
Water permeability	%	D570	<0,01	<0,03
<i>Mechanical</i>				
Tensile Strength	Kgf/cm ²	D638 D1708	250-300	280
Elongation at break	%	D638	250-400	300
Modulus of elasticity	MPa	D747	440 a520	650
Hardness	Shore D	D2240	55-65	60-65
<i>Thermal</i>				
Melting point	°C		+327°	+310°
Maximum operating temperature	°C		+260°	+260°
Minimum operating temperature	°C		-60°	-60°
<i>Electrical</i>				
Dielectric strength	KV/mm	D149	80	80
Dissipation factor			0,0003	0,00075
<i>Chemical</i>				
Chemical resistance			<i>Excellent</i>	<i>Excellent</i>
Endurance to atmospheric pitting corrosion			<i>Excellent</i>	<i>Excellent</i>

Hoses for every need

The DIFLON FLEXILINE high-performance hoses, described on the following pages are normally used in industries. They are approntabili for any request in many other types for specific uses also unique products such as wines, cheeses, artificial innevamenti etc ...



cosmetics

preserves food



dairy products derivatives



dry transport



drinks



chemistry mining



pharmaceutical

sterile



α ALFA – PTFE

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

PTFE (polytetrafluoroethylene) white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

Reinforcement

Synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

Red/white/blue transfer tape DIFLON α ALFA - PTFE

Technical characteristics

Temperature range

-40°C / +150°C

(-40°F / +302°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

Type Ω according to EN 12115 (R<10⁶ Ω)

Norm

EN12115

TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	25	1	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	2,96	1,96	430	16,93
75	2,95	91	3,58	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	16	250	64	1000	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).



☐ ζ STIGMA - PTFE - FC

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

PTFE (polytetrafluorethylene) black, conductive, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement

Textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on DIFLON weBSite

Marking

Red/white/blue transfer tape DIFLON PTFE FULL CONDUCTIVE - Embossed stripe according to the Norm EN 12115 DIFLON PTFE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

Technical characteristics

Temperature range

-40°C / +150°C
(-40°F / +302°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

type Ω/T according to EN 12115 (R<10⁶ Ω, R<10⁹ Ω through the hose wall)

Norm

EN12115
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,50	25	1,00	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	2,98	1,98	430	16,93
75	2,95	91	3,58	16	250	64	1000	3,43	2,30	510	20,08

Data refer to ambient temperature (20°C).



□ ε EPSILON – PTFE

Use / application

Suction and delivery hose for food, cosmetic and pharmaceutical products, chemicals and solvents, except , for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

PTFE (polytetrafluoroethylene) white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

Reinforcement

Synthetic plies, stainless steel wire helices, on request a/s wires to discharge static electricity

Cover

Smooth, silicone, white. Meets FDA CFR 21 PART 177.2600, BfR Recommendation XV, European Reglement 1935/2004/CE. Heat, abrasion, ageing and ozone resistant, glossy cover

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

Blue transfer tape DIFLON ε EPSILON – PTFE

Technical characteristics

Temperature range

-40°C / +150°C
(-40°F / +302°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	24	0,94	10	150	40	600	0,47	0,31	45	1,77
19	0,75	30	1,18	10	150	40	600	0,61	0,41	70	2,76
25	1,00	36	1,42	10	150	40	600	0,76	0,51	90	3,54
32	1,25	43	1,69	8	120	32	480	0,93	0,62	120	4,72
38	1,50	50	1,97	7	105	28	420	1,26	0,84	140	5,51
50	1,97	62	2,44	7	105	28	420	1,60	1,07	180	7,09
63,5	2,50	79,5	3,13	6	90	24	360	2,69	1,80	320	12,60
75	2,95	91	3,58	5	75	20	300	3,24	2,17	380	14,96
100	3,94	117	4,61	4	60	16	240	5,06	3,39	580	22,84

Data refer to ambient temperature (20°C).



☐ χ CHI - PFA

Use / application

Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

PFA (perfluoroalkoxy), white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). PFA is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009 and JAPAN Ministry of Health and Welfare Notice No.370,1959 and No.201,2006

Reinforcement

Synthetic plies, a/s wires to discharge static electricity, galvanized wire helices

Cover

Smooth, EPDM, white, abrasion, ageing and ozone resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

Red/white/blue transfer tape DIFLON χ CHI – PFA, embossed according to norm EN 12115 DIFLON PFA EN12115:2011 DN SD PN 16 BAR M Q/Y

Technical characteristics

Temperature range

-40°C / +150°C
(-40°F / +302°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

EN12115

Electrical properties

Type M according to EN 12115 (R<102 Ω)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	25	1,00	16	250	64	1000	0,54	0,38	90	3,54
19	0,75	31	1,22	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,48	16	250	64	1000	0,88	0,58	170	6,69
32	1,25	44	1,73	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).

□ δ DELTA - PTFE - FC

Use / application

Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in ATEX area (ExZone). Not intended for use as an implant material. Not suitable for blood or human fluids.

Description

Tube

PTFE (polytetrafluorethylene) black, conductive, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

Reinforcement

synthetic plies, galvanized wire helices, a/s wires to discharge static electricity

Cover

smooth, white with conductive chips, low friction material, non marking when dragged on the floor, oil, chemical, abrasion, ageing and ozone resistant, easy to clean, glossy cover. Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Sterilization

refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

red/white/blue transfer tape DIFLON δ DELTA - PTFE - FC, embossed according to norm EN 12115 DIFLON PTFE EN12115:2011 DN SD PN 16 BAR M Q/Y



Technical characteristics

Temperature range

-40°C / +150°C
(-40°F / +302°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum

675 mmHg (26,6 inHg)

Electrical properties:

type Ω/T according to EN 12115 ((R<10⁶ Ω, R<10⁹ Ω through the hose wall)

Norm

EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	25	1,00	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,48	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	16	250	64	1000	1,17	0,78	220	8,66
38	1,50	51	2,00	16	250	64	1000	1,35	0,90	260	10,24
50	1,97	66	2,60	16	250	64	1000	2,25	1,51	345	13,58
63,5	2,50	79,5	3,13	16	250	64	1000	2,90	1,94	440	17,32
75	2,95	91	3,58	16	250	64	1000	3,88	2,60	520	20,47

Data refer to ambient temperature (20°C).



□ ○ OMICRON - VITON

Use / application

Suction and delivery hose designed according to EN 12115 standards for hot oils, chemical and petro-chemical products.



Description

Tube

Viton®, black

Reinforcement

textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover

smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking

green/white tape DIFLON ○ OMICRON - VITON®

Technical characteristics

Temperature range

-25°C / +120°C

(-13°F / +248°F)

The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

type Ω according to norm EN 12115 (R<10⁶ Ω)

Norm

EN12115

TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,81	0,54	125	4,92
25	1,00	37	1,46	16	250	64	1000	1,01	0,68	150	5,91
32	1,25	44	1,73	16	250	64	1000	1,19	0,80	175	6,89
38	1,50	51	2,00	16	250	64	1000	1,48	0,99	225	8,86
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	275	10,83
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	275	10,83
63,5	2,50	79,5	3,13	16	250	64	1000	3,32	2,22	350	13,78
75	2,95	91	3,58	16	250	64	1000	3,83	2,57	400	15,75
76	3,00	92	3,62	16	250	64	1000	3,87	2,59	400	15,75
100	3,94	116	4,57	16	250	64	1000	5,01	3,36	550	21,65
102	4,00	118	4,65	16	250	64	1000	5,05	3,38	550	21,65

Data refer to ambient temperature (20°C).



□ γ GAMMA - SIL

Use / application

Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

Silicone, translucent, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II.

Reinforcement

High temperature resistant plies stainless steel wire helix

Cover

Smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

White/blue transfer tape DIFLON γ GAMMA – SIL

Technical characteristics

Temperature range

-60°C / +200°C
(-76°F / +392°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	24	0,94	15	225	45	675	0,46	0,31	60	2,36
16	0,63	27	1,06	14	210	42	630	0,53	0,36	70	2,76
19	0,75	30	1,18	13	195	39	585	0,60	0,40	80	3,15
25	1,00	36	1,42	10	150	30	450	0,73	0,49	100	3,94
32	1,25	43	1,69	8	120	24	380	0,89	0,60	130	5,12
38	1,50	51	2,00	7	105	21	315	1,21	0,81	155	6,10
51	2,00	64	2,52	6	90	18	270	1,56	1,05	210	8,27
63,5	2,50	78,5	3,09	5	75	15	225	2,32	1,55	260	10,24
76	3,00	91	3,58	4	60	12	180	2,72	1,82	310	12,20
102	4,00	117	4,61	3	45	9	135	3,55	2,38	420	16,54

Data refer to ambient temperature (20°C).



ψ PSI – SIL

Use / application

Delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

Silicone, translucent, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

Reinforcement

High temperature resistant plies

Cover

Smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

Blue transfer tape DIFLON ψ PSI – SIL to norm EN 12115 DIFLON PFA EN12115:2011 DN SD PN 16 BAR M Q/Y

Technical characteristics

Temperature range

-60°C / +200°C
(-76°F / +392°F)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
10	0,39	22	0,87	16	250	48	750	0,35	0,23	-	-
13	0,5	24	0,94	15	225	45	675	0,41	0,27	-	-
16	0,63	27	1,06	14	210	42	630	0,48	0,32	-	-
19	0,75	30	1,18	13	195	39	585	0,55	0,37	-	-
25	1,00	36	1,42	10	150	30	450	0,68	0,46	-	-
32	1,25	43	1,69	8	120	24	380	0,83	0,56	-	-
38	1,50	51	2,00	7	105	21	315	0,96	0,64	-	-
51	2,00	64	2,52	6	90	18	270	1,24	0,83	-	-
63,5	2,50	78,5	3,09	5	75	15	225	1,68	1,13	-	-
76	3,00	91	3,58	4	60	12	180	1,98	1,33	-	-
102	4,00	117	4,61	3	45	9	135	2,61	1,75	-	-

Data refer to ambient temperature (20°C).



□ ω QMEGA – SIL

Use / application

Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.



Description

Tube

Silicone, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006, 3A Sanitary Standard Class II

Reinforcement

High temperature resistant plies, stainless steel wire helix

Cover

Smooth, silicone, white, heat, ageing, ozone and abrasion resistant, glossy cover

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

Blue transfer tape DIFLON ω OMEGA – SIL

Technical characteristics

Temperature range

-60°C / +200°C
(-76°F / +392°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
13	0,5	23	0,91	15	225	45	675	0,38	0,25	60	2,36
16	0,63	26	1,02	14	210	42	630	0,44	0,29	70	2,76
19	0,75	29	1,14	13	195	39	585	0,50	0,34	80	3,15
25	1,00	35	1,38	10	150	30	450	0,61	0,41	100	3,94
32	1,25	42	1,65	8	120	24	380	0,76	0,51	130	5,12
38	1,50	49	1,93	7	105	21	315	1,05	0,70	155	6,10
51	2,00	62	2,44	6	90	18	270	1,36	0,91	210	8,27
63,5	2,50	76,5	3,01	5	75	15	225	2,06	1,38	260	10,24
76	3,00	89	3,50	4	60	12	180	2,42	1,62	310	12,20
102	4,00	115	4,53	3	45	9	135	3,39	2,27	420	16,54

Data refer to ambient temperature (20°C).



DIFLON • ρ BETA
TECHNOLOGY



DIFLON • β BETA - EPDM • www



DIFLON • γ GAMMA - SIL • www



DIFLON • α ALFA - UPE • www



DIFLON • α ALFA - PTFE



www.diflon.it

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

Телефоны: +7 (495) 7774788, 7489626, 5007155, 54 Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

□ ρ RHO - NBR

Use / application

Suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

NBR, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH).
Conforme a FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

Reinforcement

Synthetic plies, , galvanized wire helices

Cover

Smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

White transfer tape DIFLON ρ RHO – NBR

Technical characteristics

Temperature range

-25°C / +80°C
(-13°F / +176°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	10	150	30	450	0,74	0,50	60	2,36
25	1,00	37	1,46	10	150	30	450	0,91	0,61	85	3,35
32	1,25	44	1,73	10	150	30	450	1,12	0,75	115	4,53
38	1,50	51	2,00	10	150	30	450	1,40	0,94	150	5,91
51	2,00	64	2,52	10	150	30	450	1,80	1,21	210	8,27
63,5	2,50	79,5	3,09	10	150	30	450	2,70	1,81	265	10,43
75	2,95	91	3,58	10	150	30	450	3,17	2,12	320	12,60
102	4,00	118	4,65	10	150	30	450	4,42	2,96	430	16,93

Data refer to ambient temperature (20°C).



□ σ SIGMA - NBR

Use / application

Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

NBR, translucent, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, KTW AND W270, EUROPEAN REGLEMENT 1935/2004/CE, AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement

Synthetic plies, galvanized wire helices

Cover

Smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon website

Marking

White transfer tape DIFLON σ SIGMA – NBR

Technical characteristics

Temperature range

-25°C / +80°C
(-13°F / +176°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	IBS/ft	mm	in
25	1,00	36	1,42	6	90	18	270	0,86	0,58	75	2,95
32	1,25	43	1,69	6	90	18	270	1,06	0,71	95	3,74
38	1,50	50	1,97	6	90	18	270	1,32	0,88	115	4,53
51	2,00	63	2,48	6	90	18	270	1,71	1,15	150	5,91
63,5	2,50	75,5	2,97	6	90	18	270	2,16	1,45	190	7,48
76	2,95	90	3,54	6	90	18	270	3,14	2,10	230	9,06
102	4,00	116	4,57	6	90	18	270	4,21	2,82	300	11,81

Data refer to ambient temperature (20°C).

β BETA - EPDM

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemical products. Tested and certified hose by INERIS for use in ATEX area (Ex-Zone).



Description

Tube

EPDM, black, conductive

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Marking

Lilac tape DIFLON β BETA - EPDM embossed according to norm EN 12115 :2011 DN SD PN 16 BAR Ω/T Q/Y

Technical characteristics

Temperature range

-40°C / +120°C
(-40°F / +248°F)

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

Type Ω/T according to norm EN 12115 (R<10⁶, R<10⁹ Ω through the hose wall)

Norm

EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,66	0,44	65	2,58
25	1,00	37	1,46	16	250	64	1000	0,81	0,54	90	3,54
32	1,25	44	1,73	16	250	64	1000	0,99	0,66	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,30	0,87	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,13	1,43	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,16	1,45	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	2,86	1,92	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,41	2,28	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,45	2,31	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,41	2,95	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,46	2,99	450	17,72

Data refer to ambient temperature (20°C).



□ μ MI -EPDM

Use / application

Suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

EPDM, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement

Synthetic plies, galvanized wire helices

Cover

Smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

White transfer tape DIFLON μ MI –EPDM

Technical characteristics

Temperature range

-40°C / +120°C
(-40°F / +248°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	10	150	30	450	0,70	0,47	60	2,36
25	1,00	37	1,46	10	150	30	450	0,85	0,57	85	3,35
32	1,25	44	1,73	10	150	30	450	1,04	0,70	115	4,53
38	1,50	51	2,00	10	150	30	450	1,31	0,88	150	5,91
51	2,00	64	2,52	10	150	30	450	1,69	1,13	210	8,27
63,5	2,50	79,5	3,09	10	150	30	450	2,55	1,71	265	10,43
75	2,95	91	3,58	10	150	30	450	2,99	2,00	320	12,60
102	4,00	118	4,65	10	150	30	450	4,18	2,80	430	16,93

Data refer to ambient temperature (20°C).

□ v NI - EPDM

Use / application

Suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

EPDM, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

Reinforcement

Synthetic plies, galvanized wire helices

Cover

Smooth, red, abrasion, ageing and ozone, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

White transfer tape DIFLON v NI-EPDM

Technical characteristics

Temperature range

-40°C / +120°C
(-40°F / +248°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	IBS/ft	mm	in
38	1,5	53	2,09	16	250	48	750	1,48	0,99	155	6,10
50	1,97	66	2,60	16	250	48	750	2,05	1,37	215	8,46
51	2,00	66	2,60	16	250	48	750	1,92	1,29	215	8,46
63,5	2,50	81	3,19	16	250	48	750	2,98	2,00	275	10,83
65	2,56	81	3,19	16	250	48	750	2,84	1,90	275	10,83
75	2,95	94	3,70	16	250	48	750	4,06	2,72	330	12,99
76	3,00	94	3,70	16	250	48	750	3,87	2,59	330	12,99
100	3,94	120	4,72	16	250	48	750	5,38	3,60	450	17,72
102	4,00	120	4,72	16	250	48	750	5,19	3,48	450	17,72

Data refer to ambient temperature (20°C).



□ IOTA – UPE

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

UPE, translucent. Phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006.

Reinforcement

Textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization

consultare le indicazioni per la pulizia e sanificazione sul sito Diflon

Marking

blue/white tape DIFLON IOTA UPE embossed according to norm EN 12115 UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

Technical characteristics

Temperature range

-35°C / +100°C
(-31°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

EN12115, TRbF 131/2

Electrical properties

Type Ω according to norm EN 12115 (R<10⁶ W)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lbs/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,75	0,5	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



▣ ζ ZETA - UPE FC

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested and certified hose by INERIS for use in Atex area (Ex-Zone).



Description

Tube

UPE, black, conductive, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE and 10/2011/CE

Reinforcement

Textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on DIFLON weBSite.

Marking

Blue/white tape DIFLON ζ ZETA - UPE FC embossed according to norm EN 12115

Technical characteristics

Temperature range

-35°C / +100°C
(-31°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

EN12115, TRbF 131/2

Electrical properties

Type W/T according to norm EN 12115 (R<10⁶ W, R<10⁹ W through the hose wall)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,75	0,5	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



□ η ETA - UPE CHIPS *full conductive*

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

UPE, white with conductive chips, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

Reinforcement

Textile plies, a/s wire to discharge static electricity, galvanized wire helices

Cover

Smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on DIFLON weBSite

Marking

Blue/white tape DIFLON ETA UPE CHIPS FULL CONDUCTIVE embossed according to norm EN 12115 DIFLON UHMWPE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

Technical characteristics

Temperature range

-35°C / +100°C
(-31°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

EN12115, TRbF 131/2

Electrical properties

Type /T according to norm EN 12115 ($R < 10^6 \Omega$, $R < 10^9 \Omega$ through the hose wall)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,75	0,5	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



☐ ξ XI - UPE

Use / application

Suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

UPE, translucent, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 AND FOLLOWING, KTW AND W270, EUROPEAN REGLEMENT 1935/2004/CE, AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement

Synthetic plies

Cover

Smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization

Refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

White transfer tape DIFLON ξ XI – UPE

Technical characteristics

Temperature range

-35°C / +55°C
(-31°F / +131°F)

Norm

ISO 1307 for dimensional tolerances KTW class A

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
10	0,39	17,5	0,69	20	300	60	900	0,21	0,14	50	1,97
13	0,50	21,5	0,85	20	300	60	900	0,30	0,20	65	2,56
16	0,63	26	1,02	20	300	60	900	0,43	0,29	80	3,15
19	0,75	29	1,14	20	300	60	900	0,49	0,33	95	3,74
25	1,00	35	1,38	20	300	60	900	0,62	0,42	140	5,51
32	1,25	45	1,77	20	300	60	900	1,06	0,71	190	7,48
38	1,50	52	2,05	20	300	60	900	1,35	0,90	230	9,06
40	1,57	54	2,13	20	300	60	900	1,39	0,93	245	9,65
50	1,97	66	2,60	20	300	60	900	1,94	1,30	310	12,20

Data refer to ambient temperature (20°C).



κ KAPPA - UPE

Use / application

Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH) Suction and delivery hose suitable for beer, alcohol concentration up to 96% and a wide range of food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH)..



Description

Tube

UPE, translucent, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

Reinforcement

synthetic plies, galvanized wire helices

Cover

smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

Sterilization

refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

white transfer tape DIFLON κ KAPPA - UPE

Technical characteristics

Temperature range

35°C / +100°C
(-31°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
38	1,50	51	2,00	16	250	48	750	1,34	0,90	240	9,45
50	1,97	64	2,52	16	250	48	750	1,84	1,23	330	12,99
51	2,00	64	2,52	16	250	48	750	1,72	1,15	330	12,99
63,5	2,50	81	3,19	16	250	48	750	3,06	2,05	415	16,34
76	3,00	93	3,66	16	250	48	750	3,50	2,35	500	19,69
102	4,00	119	4,69	16	250	48	750	4,78	3,20	675	26,57

Data refer to ambient temperature (20°C).

□ υ UPSILON - UPE

Use / application

Suction and delivery hose designed according to EN 12115 standards for chemical and pharmaceutical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

UPE, white with conductive chips, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE

Reinforcement

textile plies, a/s wire to discharge static electricity, galvanized wire helices

Cover

smooth, EPDM, grey, abrasion, ageing and ozone resistant, cloth finish

Sterilization

refer to guidelines for cleaning and sanitizing on Diflon webSite

Marking

blue/white tape DIFLON υ UPSILON - UPE embossed according to norm EN 12115 UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

Technical characteristics

Temperature range

-35°C / +100°C
(-31°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

type Ω according to norm EN 12115 (R<10⁶ Ω)

Norm

EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	IBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,75	0,5	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	610
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



π PI - NR

Use / application

Suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

NR, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006. RAL REGISTRATION G-72

Reinforcement

synthetic plies, galvanized wire helices

Cover

smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization

refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

white transfer tape DIFLON π PI - NR

Technical characteristics

Temperature range

-40°C / +80°C
(-40°F / +176°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	10	150	30	450	0,66	0,44	60	2,36
25	1,00	37	1,46	10	150	30	450	0,81	0,54	85	3,35
32	1,25	44	1,73	10	150	30	450	1,00	0,67	115	4,53
38	1,50	51	2,00	10	150	30	450	1,28	0,86	150	5,91
51	2,00	64	2,52	10	150	30	450	1,66	1,11	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,52	1,69	265	10,43
76	3,00	91	3,58	10	150	30	450	2,97	1,99	320	12,60
102	4,00	118	4,65	10	150	30	450	4,16	2,79	430	16,93

Data refer to ambient temperature (20°C).

□ τ TAU -IIR

Use / application

Premium grade low permeation suction and delivery hose suitable for a wide range of products. Recommended for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).



Description

Tube

IIR, white, **phthalates free**, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 AND FOLLOWING, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

Reinforcement

synthetic plies, galvanized wire helices

Cover

smooth, red, abrasion, ageing and ozone resistant, cloth finish

Sterilization

refer to guidelines for cleaning and sanitizing on Diflon weBSite

Marking

white transfer tape DIFLON τ TAU -IIR

Technical characteristics

Temperature range

-40°C / +120°C
(-40°F / +248°F)

Vacuum

675 mmHg (26,6 inHg)

Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	10	150	30	450	0,71	0,48	60	2,36
25	1,00	37	1,46	10	150	30	450	0,87	0,58	85	3,35
32	1,25	44	1,73	10	150	30	450	1,06	0,71	115	4,53
38	1,50	51	2,00	10	150	30	450	1,34	0,90	150	5,91
51	2,00	64	2,52	10	150	30	450	1,72	1,15	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,59	1,74	265	10,43
76	3,00	91	3,58	10	150	30	450	3,04	2,04	320	12,60
102	4,00	118	4,65	10	150	30	450	4,25	2,85	430	16,93

Data refer to ambient temperature (20°C).



□ F F DIGAMMA - NBR 1

Use / application

Suction and delivery hose designed according to EN 12115 standards for oil and petrol, aromatic content up to 50%. Tested and certified hose by INERIS for use in Atex area (Ex- Zone).



Description

Tube

NBR 1, black, conductive

Reinforcement

Synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices

Cover

Smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish

Marking

Yellow tape DIFLON F F DIGAMMA embossed according to norm EN 1211 NBR1

Technical characteristics

Temperature range

-30°C / +100°C
(-22°F / +212°F)

Vacuum

675 mmHg (26,6 inHg)

Electrical properties

Type Ω/T according to norm EN 12115 (R<10⁶, R<10⁹ through the hose wall)

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
mm	in	mm	in	bar	psi	bar	psi	kg/m	lBS/ft	mm	in
19	0,75	31	1,22	16	250	64	1000	0,69	0,46	65	2,56
25	1,00	37	1,46	16	250	64	1000	0,85	0,57	90	3,54
32	1,25	44	1,73	16	250	64	1000	1,06	0,71	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,42	0,95	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,19	1,47	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,22	1,49	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	3,05	2,04	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,54	2,37	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,58	2,40	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,58	3,07	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).

Crimping Example

The phase 1,2,3 exposed as shown in the photos below, represent the construction of a flexible ALFA-type PTFE connected hose with a quick coupling type Camlok and fitting 304 internally lined with PFA. Pressed with stainless steel ring AISI 304





Guidelines for cleaning and sanitizing hoses

The cleaning and sanitizing advices here below indicated must be considered guidelines only.

It is necessary that all applicable government regulations pertaining to the cleaning and sanitizing of the food hoses and food hoses assemblies be followed and respected. Therefore we declare that governmental regulations supersede the guideline contained herein.

The hoses' life is directly connected to the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the process itself.

The service period of rubber hoses is dependent on their formulation and the environment of use which in turn is influenced by the product, process temperature, cleaning and bactericidal compounds and time of exposure. Users should frequently check the condition of the rubber hose material product contact surfaces.

Such observations are necessary to determinate the actual sanitary service period of rubber hoses. It is further recommended to replace the rubber hose before surface imperfections or sloughing occurs.

A planned periodic replacement should be established and followed.

Food hose users should be guided by the cleaning and sanitizing procedures of their own specific production field.

For example the wine industry may have different standards than the dairy industry and any standards applicable to a specific industry supersede the guideline below indicated.

The cleaning and sanitizing of food hoses and hose assemblies is intended to remove any food particles or residues such as detergents or disinfectant that could be the source of harmful bacteria microorganism or other sources of contamination.

The effectiveness of the guidelines below indicated depends on the attention and assiduity given by users.

CLEANING AND SANITIZING STEPS

1. **FREQUENCY** The frequency of the cleaning and sanitizing cycle needs to be programmed in according to the type of food or beverage used and to the contamination risk level. In principle, the cleaning and sanitizing process should be conducted on a frequent basis.

2. **WASHING** An accurately washing with hot drinking water is the first step in the cleaning process. Hot potable water will facilitate the cleaning, but not eliminating the need nor to clean the pipe with suitable detergents, nor to disinfect it.

The temperature of the hot water and duration of the washing/rinsing cycle will depend upon the characteristic of the material.

The initial washing/rinsing with hot potable water should finish as soon as the conveyance process will be completed. All residual water and any other residue from the initial washing/rinsing cycle must be drained away completely.

3. **CLEANING/DISINFECTING** The selection of a specific detergent and of a specific disinfectant will depend on the material/products being conveyed.

The recommendation of the manufacturer of the detergent and of the disinfectant should be strictly followed especially regarding concentration levels.

After the cleaning of the hose with detergent followed by the rinse of it with potable water, the hose must be sterilized either with steam or with chemical solution.

Steam is classified as "Physical" disinfectants: its effectiveness in eliminating bacteria and other contaminants varies according to the material and to the procedure employed by the users.



Guidelines for cleaning and sanitizing hoses

Chemical disinfectant such as caustic soda, nitric acid, phosphoric acid, chloroacetic acid or other acids suitable for disinfecting food hoses must be carefully selected to ensure optimal effectiveness while also assuring maximum safety and health.

When selecting a particular disinfectant it is necessary to pay strict attention to concentration levels, temperature, cycle time, etc. The type of product/material being conveyed must be taken into consideration when selecting a specific disinfectant. As soon as the disinfecting treatment with chemical solutions is made, the hose must be carefully rinsed for a sufficiently long time with potable water in order to eliminate any chemical residues from the disinfecting treatment.

4. PROCESS CONTROLS The result of the cleaning and sanitizing process must be regularly checked to ensure that all contamination and residuals have been eliminated. Any non conforming events need to be solved with a corrective action procedure.

The hoses' life is directly connected to the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the process itself.

The service life of rubber hoses is directly dependent on frequency and time of exposure to PHYSICAL and CHEMICAL disinfectants.

Users should frequently check the condition of the rubber hose material product contact surfaces.

Such observations are necessary to determinate the actual sanitary service period of rubber hoses. The present advices are based on tests and on generally available sources, that are believed to be reliable.

However must be considered as indicatives cause they don't take care about all variable that may arise during the utilization.

	Medium	Hose Tube	Concentration	Temperature
RINSING	Hot water	NR/NBR/SILICONE/ EPDM/IIR/UPE/PTFE	-	Max 90°C
PHYSICAL DISINFECTANT	Steam	NR/NBR	-	Max 110°C Max 10 min
		EPDM/IIR/UPE/PTFE	-	Max 130°C Max 30 min
		SILICONE	-	Max 135°C Max 18 min
CHEMICAL DISINFECTANT	Acid [i.e. Nitric acid]	NR/NBR/SILICONE	0,1%	Max 65°C
			2%	Max 25°C
		EPDM/IIR/UPE/PTFE	0,1%	Max 85°C
			3%	Max 25°C
	Alkaline solution [i.e. Caustic soda]	NR/NBR/SILICONE	2%	Max 65°C
			4%	Max 25°C
		EPDM/IIR/UPE/PTFE	2%	Max 85°C
			5%	Max 25°C
Disinfectant [i.e. Peracetic acid]	NR/NBR/SILICONE	1%	1%	
	EPDM/IIR/UPE/PTFE		Max 40°C	



Installation instruction for hoses

Diflon Lined hoses are high quality products. They are reliable and they have a long life. In order to obtain the best performances, it is important to choose the correct type and install them in right manner. Diflon Flexiline hoses can be used in several fields. In case of particularly critical conditions, please contact our technical service. In normal conditions please apply the following instructions. The sketches show proper application and installation compared to faulty procedures.

Correct choice of length:

The ends of the hose should not be bended or twisted. This so-called neutral portion of the hose ends should have a length of 5 x DN.

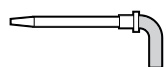
Bending radius should not be less than wath indicated in our catalogue. S-bends are to be avoided. Avoid any hose twist. In most cases hose twist can be avoided by adopting oportune solutions during installation. For example, if the hose moves, it should be installed so that the axis of the hose and the direction of the motion are on the same plane. In this case hose twist cannot occur. Ensure strain-free tightening. Use a second wrench on hose socket to prevent strain during final tightening.

Wrong

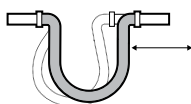
Example 1: hose length not sufficient. Bending directly behind the fitting.



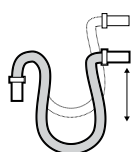
Example 2: too much bending strain behind fitting.



Example 3: S-bend behind fitting.

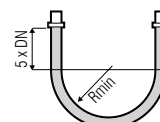


Example 4: see example 3.

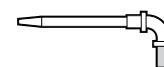


Right

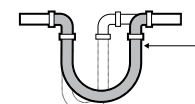
Hose is sufficiently long to form a natural bending.



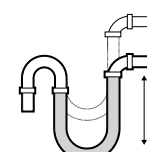
Using a stiff elbow fitting, strain is eliminated.



Use stiff elbow fittings.



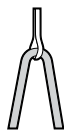
See example 3.



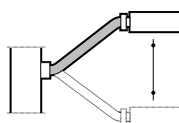
Installation instruction for hoses

Wrong

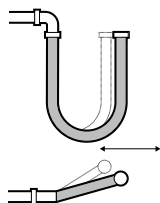
Esempio 5: il raggio di curva è troppo piccolo.



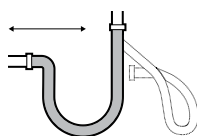
Example 6: cyclic flexural strain and too small bending radius behind fittings.



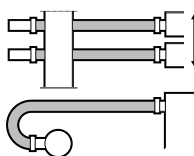
Example 7: torsional strain caused by misalignment between hose axis and direction of motion.



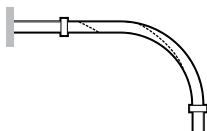
Example 8: detrimental cyclic motion with flexural strain.



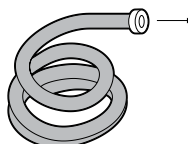
Example 9: torsional strain and too high flexural load on the directly behind the left fitting.



Example 10: The hose twists on tightening.

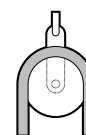


Example 11: Hose coil should not be unwound by simply pulling it at one end, since this will induce a twist.

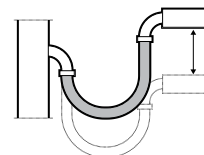


Right

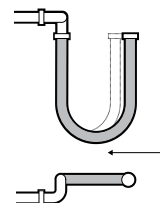
Use a pulley of proper diameter.



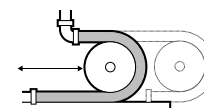
A rank torsional strain can be avoided with the use of two elbows.



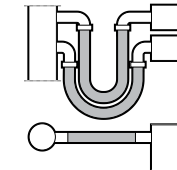
No torsional strain due to the use of stiff compound elbows.



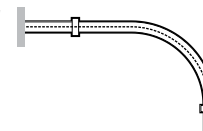
With the help of a live pulley, cyclic motion and torsion are eliminated. To avoid sagging, a support may be necessary.



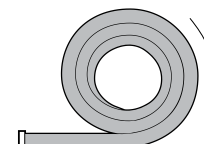
Hose twist and bends are eliminated with the use of stiff elbows.



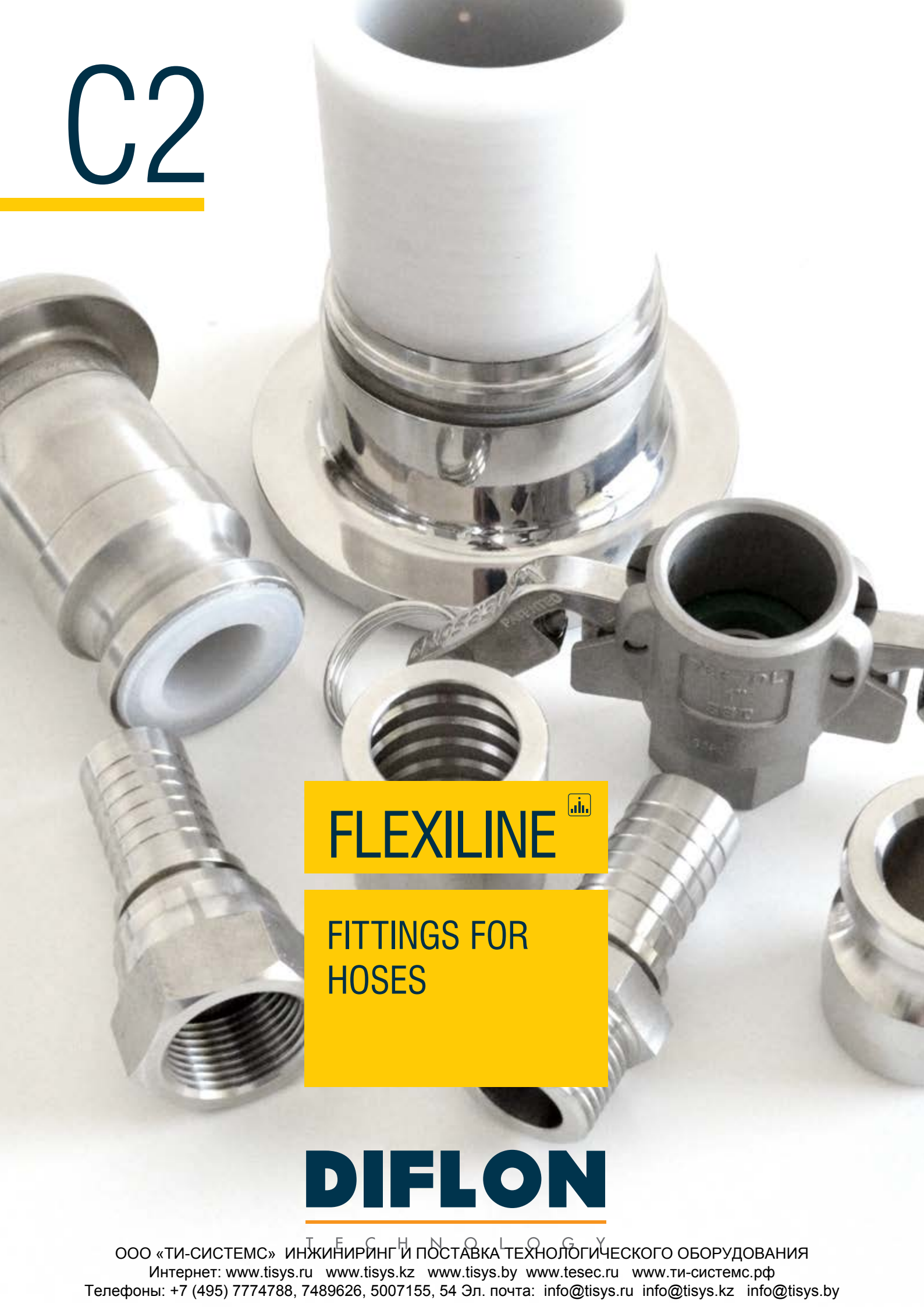
Twist is avoided by holding sockets firmly during tightening.



Unwound hose as shown in the sketch.



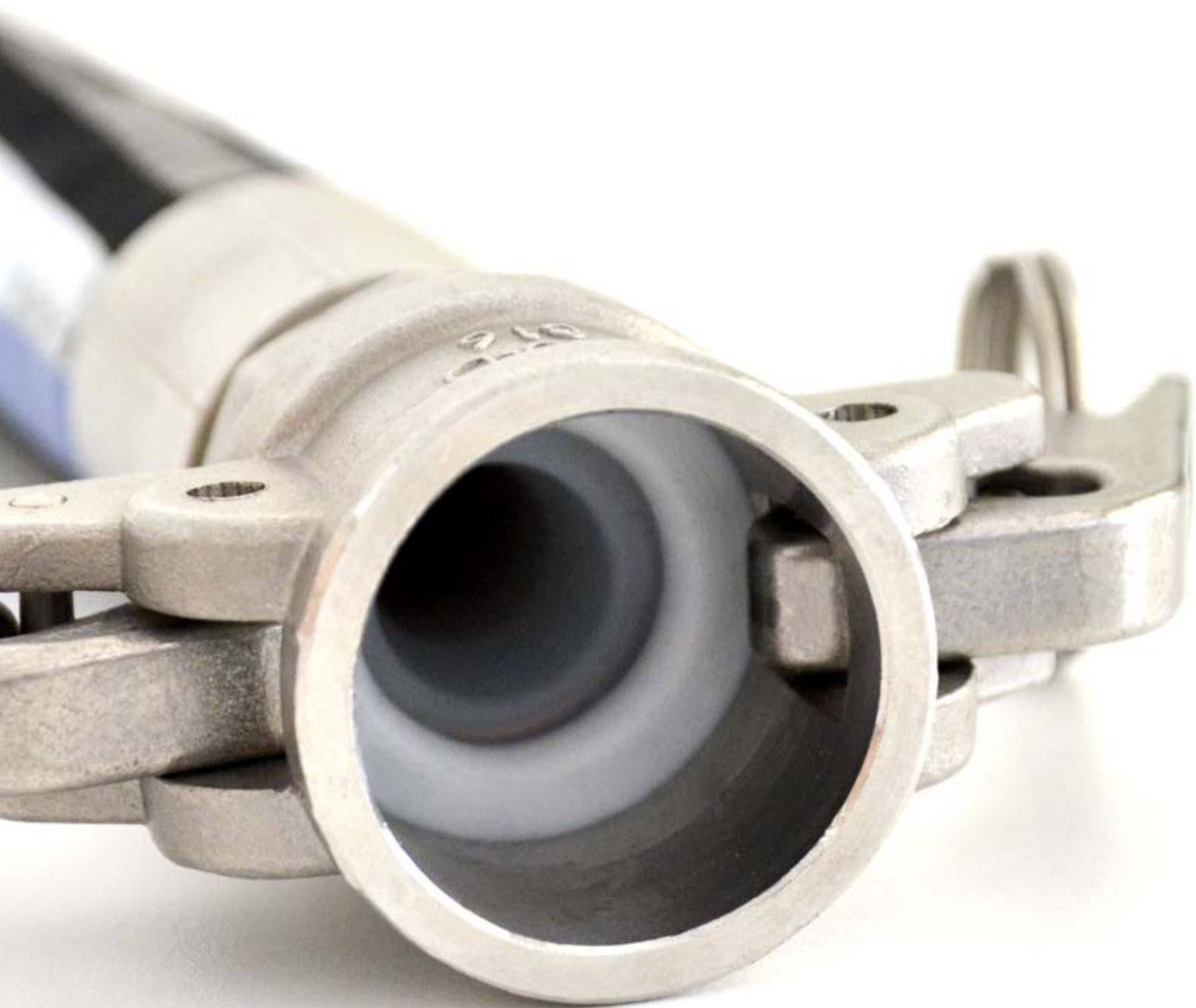
C2



FLEXILINE 

**FITTINGS FOR
HOSES**

DIFLON



www.diflon.it

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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FITTINGS FOR HOSES

FITTINGS FOR HOSES

DIFLON realizes a great range of fittings suitable for connections between equipments, hoses and piping in chemical pharmaceutical, petrochemicals, foods, naval industries and so on.

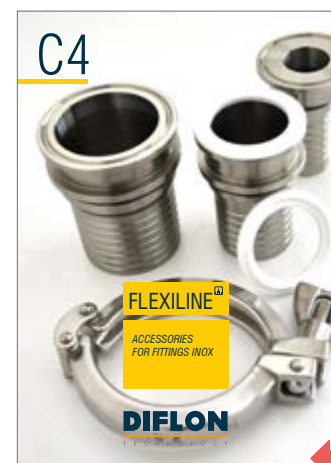
FLEXILINE Diflon fittings have perfect resistance to pressure and vacuum. Moreover, in the fluoropolymer PFA lined version, they have compatibility with foods and an almost absolute resistance to all chemicals, corrosive and toxic products with 0 ÷ 14 and design temperature from -40 ° C to +200 ° C. FDA compliance of these materials allows to assembly DIFLON fittings on all our hoses. Special executions can be made on request.



	• TYPE A1 • AISI 316L Flange Retainer	55
	• TYPE A2 • AISI 316L PFA Lined Flange Retainer	56
	• TYPE B1 • AISI 316L Din 11851 Male Retainer	57
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	• TYPE B5 • AISI 316L Din 11851 Female Flanged Connection	61
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	• TYPE F23 • AISI 316L PFA Lined E Type - EN 14420-7:2004 Cam & Groove With Protective Guard	96
	Materials chemical resistance chart*	122



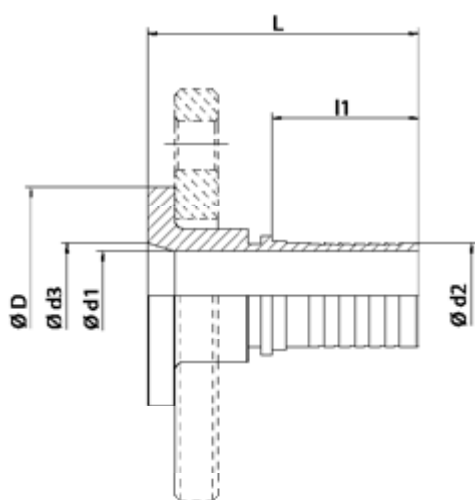
TYPE A1

AISI 316L FLANGE RETAINER

TYPE A1 fitting is supplied without flange and it is used in heavy conditions of various sectors of industry to connect hoses with flanged equipments and plants.

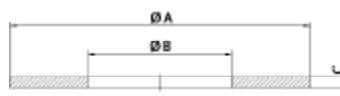
Standard construction material is AISI 316L.

The flange can be provided in the Standard Specification and material according to customer requirements.



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKET

DN	L	I1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	35	9	13	12
20 - 3/4"	70	31	47	15	19,2	20
25 - 1"	70	34	58	21	25,7	26
32 - 1 1/4"	75	40	64	28	32,4	32
40 - 1 1/2"	80	51	75	33	38,5	40
50 - 2"	90	62	92	45	51	50
65 - 2 1/2"	110	68	105	58	64	65
80 - 3"	130	81	127	69	75	80
100 - 4"	140	92	158	96	101	100

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3,96
20 - 3/4"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 1/4"	78	64	32	6,35
40 - 1 1/2"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 1/2"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

TYPE A2

AISI 316L PFA LINED FLANGE RETAINER

The TYPE A2 fitting is supplied without flange and it is used in heavy conditions in chemicals, pharmaceuticals and food industries to connect hoses to flanged connections of equipments and plants.

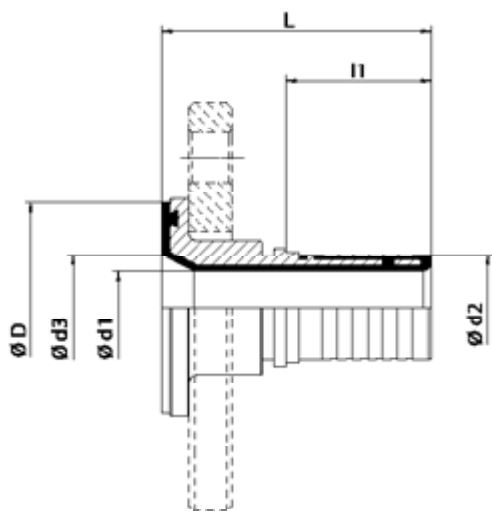
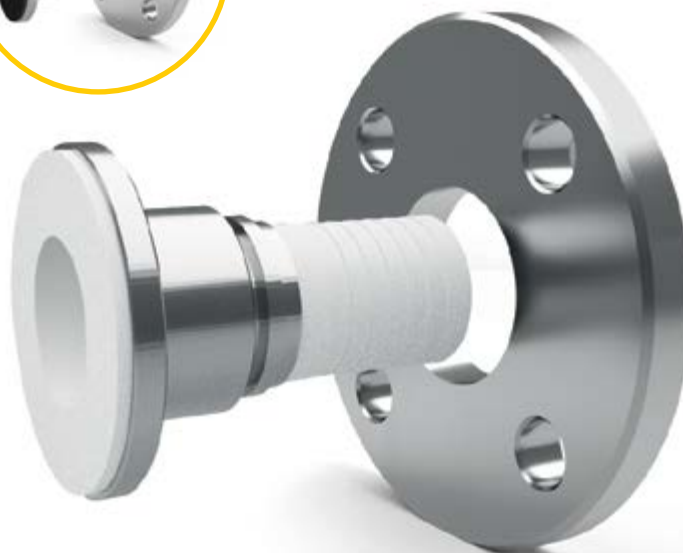
Standard construction material is AISI 316L/ PFA.

The inner lining ensures resistance against chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

The flange can be provided in the Standard Specification and material according to customer requirements.

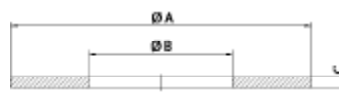


TYPE A2
Antistatic Version



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKET

DN	L	I1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	40	9	13	12
20 - 3/4"	65	31	47	12	19,2	15
25 - 1"	70	34	58	16	25,7	20
32 - 1 1/4"	80	40	68	22	32,4	28
40 - 1 1/2"	100	51	78	27	38,5	40
50 - 2"	115	62	92	39	51	46
65 - 2 1/2"	120	68	105	51	64	57
80 - 3"	135	81	127	60	75	66
100 - 4"	150	92	158	87	101	90

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3,96
20 - 3/4"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 1/4"	78	64	32	6,35
40 - 1 1/2"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 1/2"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

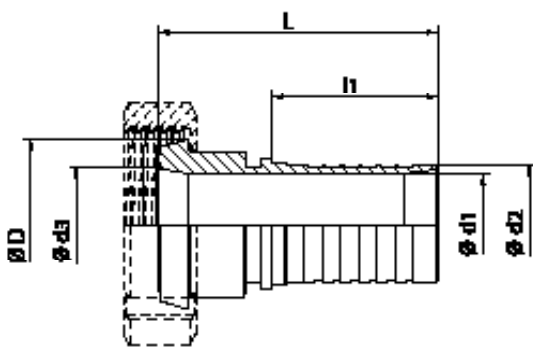
TYPE B1

AISI 316L DIN 11851 MALE RETAINER

TYPE B1 fitting is supplied without ferrule and it is used in chemicals and food industries to connect hoses to equipments and plants in a quick and safety way.

Standard construction material is AISI 316L.

The DIN 405 threaded ferrule according to the Standard DIN 11851 can be supplied in AISI 304L and AISI 316L.



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

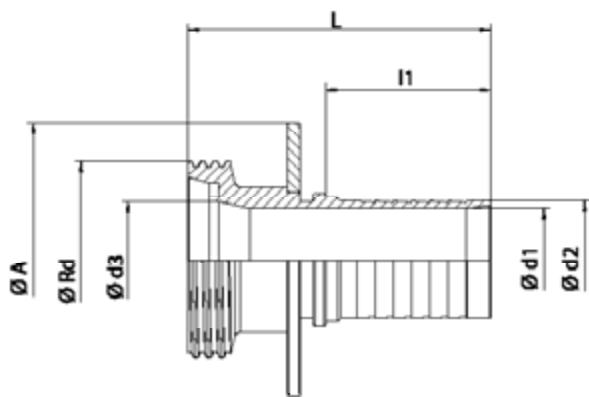
DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	55	30	28	9	13	15
20 - 3/4"	75	31	36	15	19,2	20
25 - 1"	75	34	44	21	25,7	26
32 - 1 1/4"	75	40	50	28	32,4	32
40 - 1 1/2"	80	51	56	34	38,5	38
50 - 2"	85	62	68	46	51	50
65 - 2 1/2"	95	68	86	59	64	66
80 - 3"	120	81	100	69	75	80
100 - 4"	130	92	121	96	101	100

DN	Ø A	Ø B	C
15 - 1/2"	26	18	4,5
20 - 3/4"	33	23	4,5
25 - 1"	40	30	5
32 - 1 1/4"	46	36	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
65 - 2 1/2"	81	71	5
80 - 3"	95	85	5
100 - 4"	114	104	5

TYPE B2

AISI 316L FEMALE DIN 11851 WITH PROTECTIVE GUARD

TYPE B2 fitting is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants. Standard construction material is AISI 316L. It is DIN 405 threaded.



RECOMMENDED GASKET

DIFLEX DIN 11851 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

DN	L	l1	Ø Rd	Ø d1	Ø d2	Ø d3	Ø A
15 - 1/2"	60	30	34-8	9	13	15	70
20 - 3/4"	80	31	44-8	15	19,2	19	70
25 - 1"	80	34	52-6	21	25,7	25	80
32 - 1 1/4"	80	40	58-6	28	32,4	32	90
40 - 1 1/2"	85	51	65-6	34	38,5	39	100
50 - 2"	95	62	78-6	46	51	50	110
65 - 2 1/2"	110	68	95-6	59	64	65	130
80 - 3"	130	81	110-4	69	75	80	150
100 - 4"	140	92	130-4	96	101	100	170

DN	Ø A	Ø B	C
15 - 1/2"	26	18	4,5
20 - 3/4"	33	23	4,5
25 - 1"	40	30	5
32 - 1 1/4"	46	36	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
65 - 2 1/2"	81	71	5
80 - 3"	95	85	5
100 - 4"	114	104	5

TYPE B3

AISI 316L PFA LINED DIN 11851 MALE RETAINER

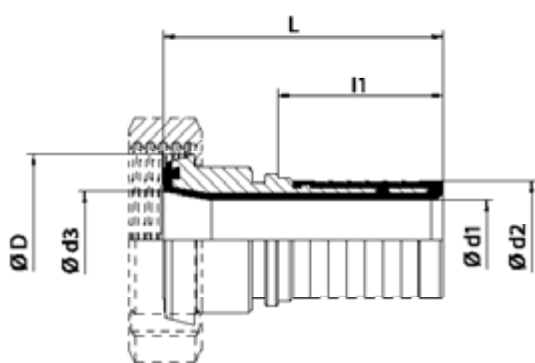
TYPE B3 fitting is supplied without ferrule and it is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants. Standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

DIN 405 threaded ferrule is according to the Standard DIN 11851 can be supplied in AISI 304L and AISI 316L.



TYPE B3
Antistatic Version



RECOMMENDED GASKET

DIFLEX DIN 11851 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
25 - 1"	72	34	44	16	25,7	20
40 - 1 1/2"	90	51	56	27	38,5	33
50 - 2"	100	62	68	39	51	45
80 - 3"	120	81	100	60	75	75

DN	Ø A	Ø B	C
25 - 1"	40	30	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
80 - 3"	95	85	5

TYPE B4

AISI 316L PFA LINED FEMALE DIN 11851 WITH PROTECTIVE GUARD

TYPE B4 fitting is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants.

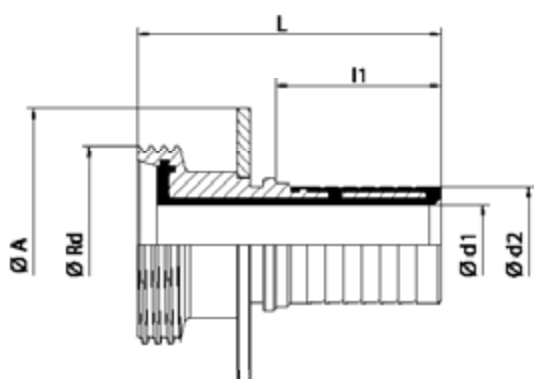
Standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

It is DIN 405 threaded.



TYPE B4
Antistatic Version



RECOMMENDED GASKET

DIFLEX DIN 11851 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

DN	L	l1	Ø Rd	Ø d1	Ø d2	Ø A
25 - 1"	80	34	52-6	16	25,7	80
40 - 1 1/2"	85	51	65-6	27	38,5	100
50 - 2"	95	62	78-6	39	51	110
80 - 3"	130	81	110-4	60	75	150

DN	Ø A	Ø B	C
25 - 1"	40	30	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
80 - 3"	95	85	5

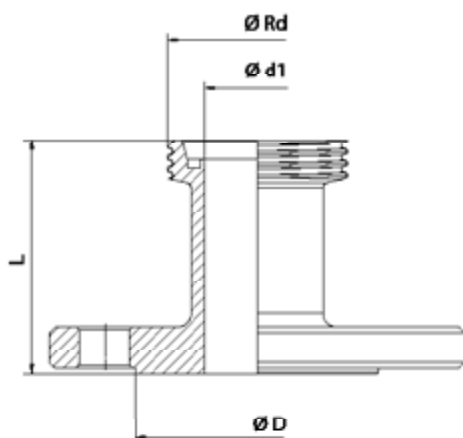
TYPE B5

AISI 316L DIN 11851 FEMALE FLANGED CONNECTION

TYPE B5 fitting is used in chemicals and food industries to connect hoses to equipments and plants.

Standard construction material is AISI 316L. It is DIN 405 threaded.

The fittingr flange is made according to the Standard Specification required by the customer.



RECOMMENDED GASKET

DIFLEX DIN 11851 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

DN	L	Ø Rd	Ø D DIN	Ø D ANSI	Ø d1
25 - 1"	80	52-6	68	51	26
32 - 1 ¼"	85	58-6	78	64	32
40 - 1 ½"	90	65-6	88	73	38
50 - 2"	95	78-6	102	92	50
65 - 2 ½"	100	95-6	122	105	66
80 - 3"	110	110-4	138	127	81
100 - 4"	120	130-4	158	158	100

DN	Ø A	Ø B	C
25 - 1"	40	30	5
32 - 1 ¼"	46	36	5
40 - 1 ½"	52	42	5
50 - 2"	64	54	5
65 - 2 ½"	81	71	5
80 - 3"	95	85	5
100 - 4"	114	104	5

TYPE B6

AISI 316L PFA LINED DIN 11851 FEMALE FLANGED CONNECTION

TYPE B6 fitting is used in chemicals and food industries to connect hoses to equipments and plants.

Standard construction material is AISI 316L/PFA.

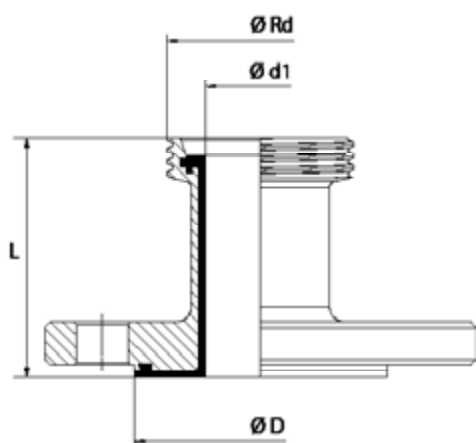
It is DIN 405 threaded.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

The flange is made according to the Standard Specification required by the customer.



TYPE B6
Antistatic Version



RECOMMENDED GASKET

DIFLEX DIN 11851 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



DIN 11851 GASKET

DN	L	Ø Rd	Ø D DIN	Ø D ANSI	Ø d1
25 - 1"	80	52-6	68	51	24
40 - 1 1/2"	90	65-6	88	73	38
50 - 2"	95	78-6	102	92	50
80 - 3"	110	110-4	138	127	81
100 - 4"	120	130-4	158	158	90

DN	Ø A	Ø B	C
25 - 1"	40	30	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
80 - 3"	95	85	5
100 - 4"	114	104	5

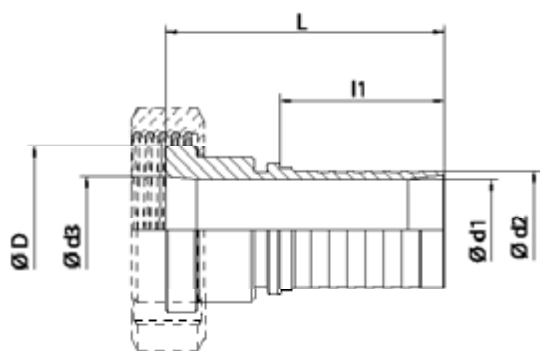
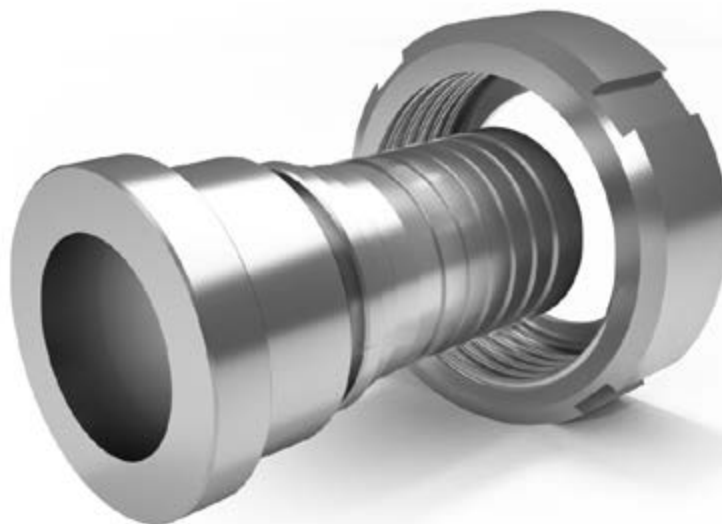
□ TYPE C1

AISI 316L SMS 1145 MALE RETAINER

TYPE C1 fitting is supplied without ferrule and it is used in chemicals and food industries to connect hoses to equipments and plants in quickly and safely way.

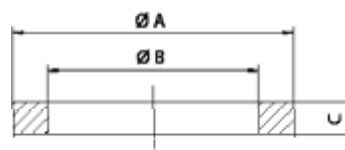
Standard construction material is AISI 316L.

The DIN 405 threaded ferrule according to the Standard SMS 1145 can be supplied in AISI 304L and AISI 316L.



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
25 - 1"	80	34	32	21	25,7	22
40 - 1 1/2"	85	51	50	33	38,5	35
50 - 2"	95	62	60	46	51	48
65 - 2 1/2"	110	68	76	58	64	60
80 - 3"	130	81	88	69	75	72
100 - 4"	140	92	110	96	101	98

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
65 - 2 1/2"	73,5	63,5	5,5
80 - 3"	86	76	5,5
100 - 4"	113,5	102	5,5

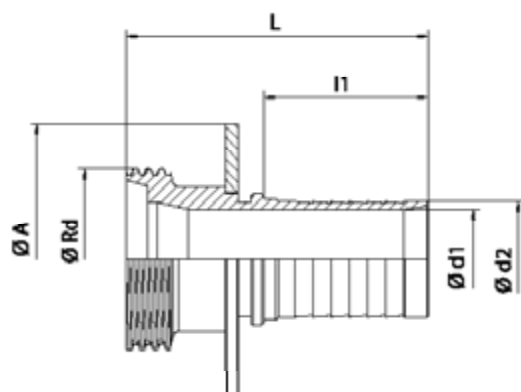
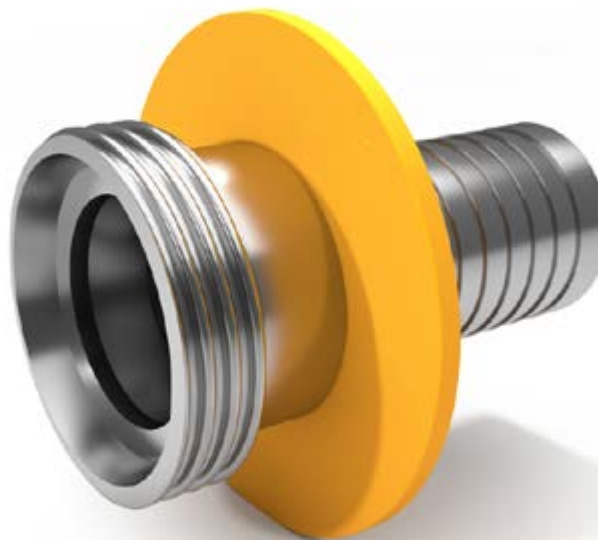
TYPE C2

AISI 316L FEMALE SMS 1145 WITH PROTECTIVE GUARD

TYPE C2 fitting is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants.

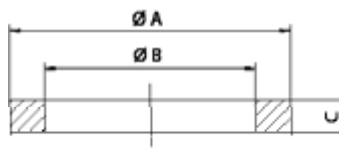
Standard construction material is AISI 316L.

It is DIN 405 threaded.



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	l1	Ø Rd	Ø d1	Ø d2	Ø A
25 - 1"	72	34	40-6	21	25,7	80
40 - 1 1/2"	77	51	60-6	34	38,5	100
50 - 2"	82	62	70-6	46	51	110
65 - 2 1/2"	93	68	85-6	59	64	130
80 - 3"	118	81	98-6	69	75	150
100 - 4"	125	92	120-4	96	101	170

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
65 - 2 1/2"	73,5	63,5	5,5
80 - 3"	86	76	5,5
100 - 4"	113,5	102	5,5

TYPE C3

AISI 316L PFA LINED SMS 1145 MALE RETAINER

TYPE C3 fitting is supplied without ferrule and it is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants.

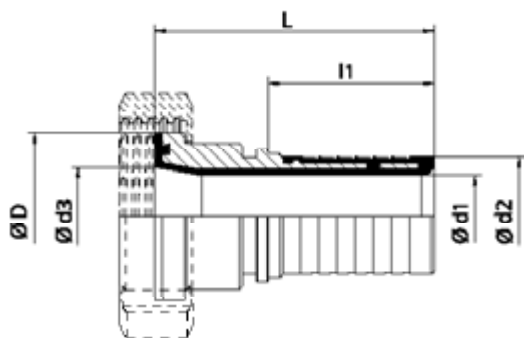
Standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

The DIN 405 threaded ferrule according to the Standard SMS 1145 can be supplied in AISI 304L and AISI 316L.

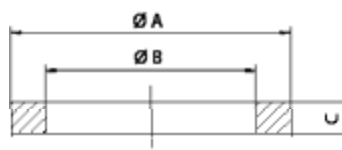


TYPE C3
Antistatic Version



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
25 - 1"	80	34	32	16	25,7	17
40 - 1 1/2"	85	51	50	27	38,5	29
50 - 2"	95	62	60	39	51	42
80 - 3"	130	81	88	60	75	66

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
80 - 3"	86	76	5,5

TYPE C4

AISI 316L PFA LINED FEMALE SMS 1145 WITH PROTECTIVE GUARD

TYPE C4 fitting is used in chemicals and food industries to connect hoses quickly and safely to equipments and plants.

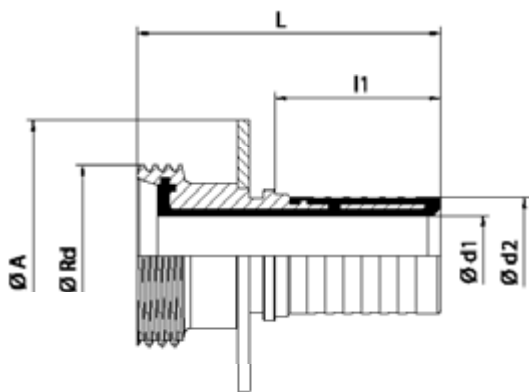
Standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

It is DIN 405 threaded.

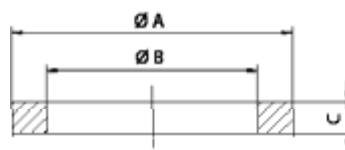


TYPE C4
Antistatic Version



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	l1	Ø Rd	Ø d1	Ø d2	Ø A
25 - 1"	80	34	40-6	16	25,7	80
40 - 1 1/2"	85	51	60-6	27	38,5	100
50 - 2"	95	62	70-6	39	51	110
80 - 3"	130	81	98-6	60	75	150

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
80 - 3"	86	76	5,5

TYPE C5

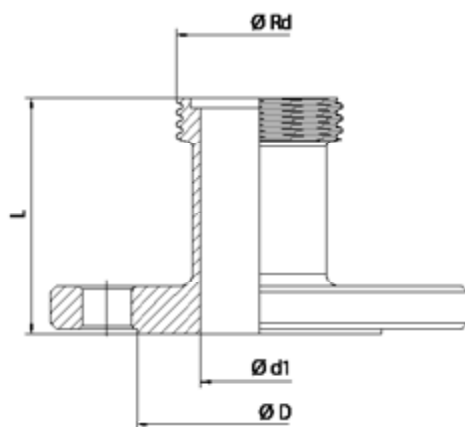
AISI 316L SMS 1145 FLANGED CONNECTION

TYPE C5 fitting is used in chemicals and food industries to connect hoses to equipments and plants.

Standard construction material is AISI 316L.

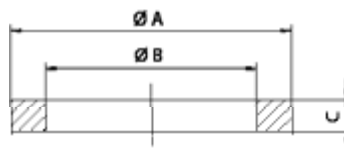
It is DIN 405 threaded.

The flange is made according to the Standard Specification required by the customer.



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	Ø Rd	Ø D DIN	Ø D ANSI	Ø d1
25 - 1"	80	40-6	68	51	21
40 - 1 1/2"	90	60-6	88	73	34
50 - 2"	95	70-6	102	92	46
80 - 3"	110	98-6	138	127	69
100 - 4"	120	120-4	158	158	96

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
80 - 3"	86	76	5,5
100 - 4"	113,5	102	5,5

TYPE C6

**AISI 316L PFA LINED SMS 1145
FLANGED CONNECTION**

TYPE C6 fitting is used in chemicals and food industries to connect hoses to equipments and plants.

Standard construction material is AISI 316L/PFA.

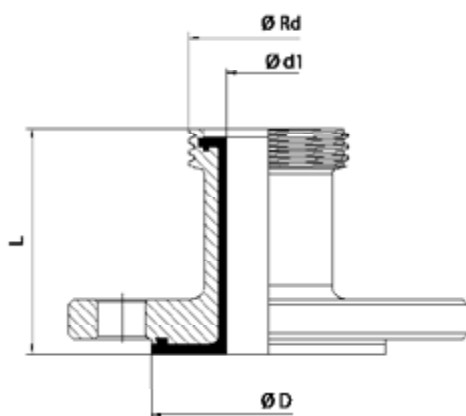
It is DIN 405 threaded.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

The flange is made according to the Standard Specification required by the customer.

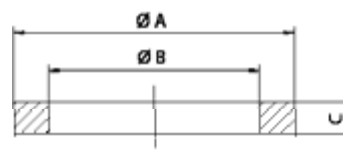


TYPE C6
Antistatic Version



RECOMMENDED GASKET

DIFLEX SMS 1145 gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



SMS 1145 GASKET

DN	L	Ø Rd	Ø D DIN	Ø D ANSI	Ø d1
25 - 1"	70	40-6	68	51	16
40 - 1 1/2"	80	60-6	88	73	29
50 - 2"	90	70-6	102	92	41
80 - 3"	110	98-6	138	127	64
100 - 4"	120	102-4	158	158	90

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
80 - 3"	86	76	5,5
100 - 4"	113,5	102	5,5

TYPE D1

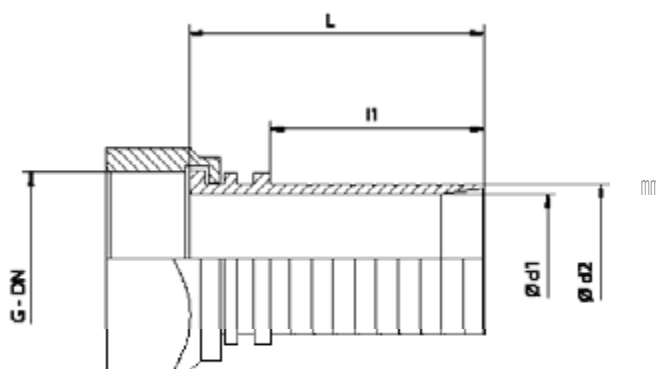
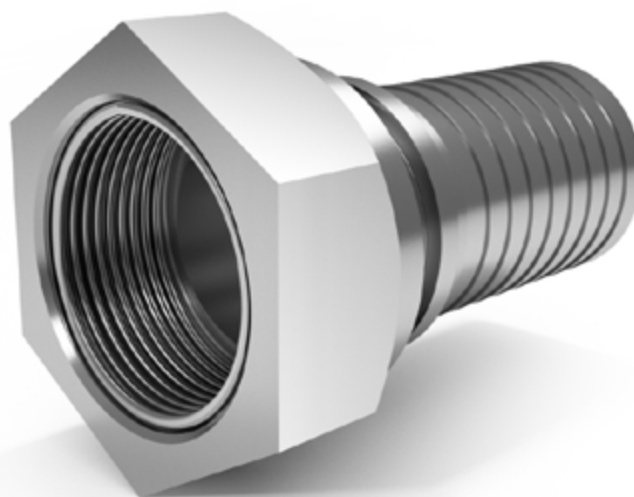
AISI 316L FEMALE BSP/GAS RETAINER WITH SWIVEL NUT

TYPE D1 fitting is used in chemical, pharmaceutical and food industries to connect hoses quickly to equipments and plants.

It is suitable for high pressure uses.

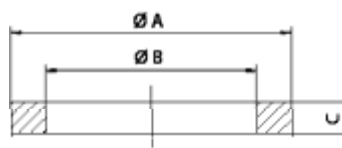
Standard construction material is AISI 316L.

BSP/GAS threaded swivel nut.



RECOMMENDED GASKET

DIFLEX BSP/GAS gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



BSP/GAS GASKET

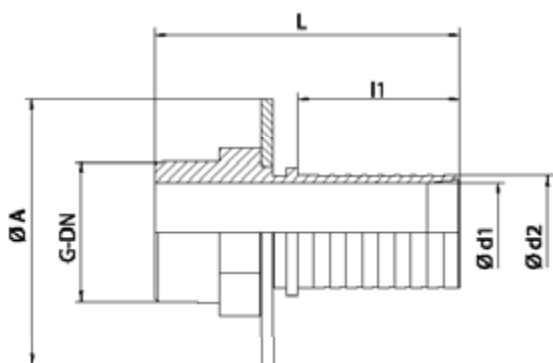
DN	L	l1	G	Ø d1	Ø d2
15 - 1/2"	55	30	1/2"	9	13
20 - 3/4"	70	31	3/4"	15	19,2
25 - 1"	75	34	1"	20	25,7
32 - 1 1/4"	80	40	1 1/4"	28	32,4
40 - 1 1/2"	85	51	1 1/2"	33	38,5
50 - 2"	95	62	2"	46	51
65 - 2 1/2"	110	68	2 1/2"	59	64
80 - 3"	130	81	3"	71	75
100 - 4"	140	92	4"	96	101

DN	Ø A	Ø B	C
15 - 1/2"	20	10	3
20 - 3/4"	26	16	3
25 - 1"	32	21	3
32 - 1 1/4"	40	29	3
40 - 1 1/2"	46	34	3
50 - 2"	59	47	3
65 - 2 1/2"	73	60	3
80 - 3"	86	72	3
100 - 4"	112	97	3

TYPE D2

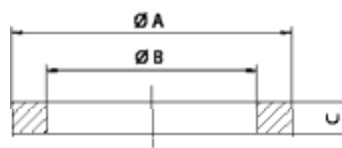
AISI 316L MALE BSP/GAS THREADED FITTING WITH PROTECTIVE GUARD

TYPE D2 fitting is used in chemical, pharmaceutical and food industries to connect hoses quickly to equipments and plants. It is suitable for high pressure uses. Standard construction material is AISI 316L. BSP/GAS thread.



RECOMMENDED GASKET

DIFLEX BSP/GAS gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar..



BSP/GAS GASKET

DN	L	l1	G	Ø d1	Ø d2	Ø A
15 - 1/2"	60	30	1/2"	9	13	70
20 - 3/4"	75	31	3/4"	15	19,2	70
25 - 1"	80	34	1"	20	25,7	80
32 - 1 1/4"	85	40	1 1/4"	28	32,4	90
40 - 1 1/2"	90	51	1 1/2"	33	38,5	100
50 - 2"	100	62	2"	46	51	110
65 - 2 1/2"	120	68	2 1/2"	59	64	130
80 - 3"	135	81	3"	71	75	150
100 - 4"	150	92	4"	96	101	170

DN	Ø A	Ø B	C
15 - 1/2"	20	10	3
20 - 3/4"	26	16	3
25 - 1"	32	21	3
32 - 1 1/4"	40	29	3
40 - 1 1/2"	46	34	3
50 - 2"	59	47	3
65 - 2 1/2"	73	60	3
80 - 3"	86	72	3
100 - 4"	112	97	3

TYPE E1

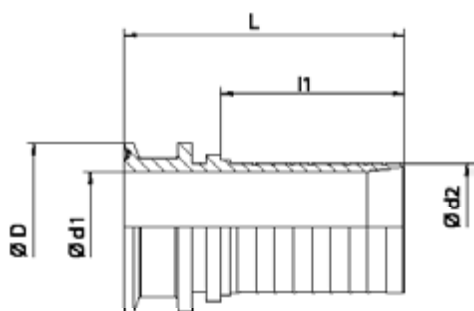
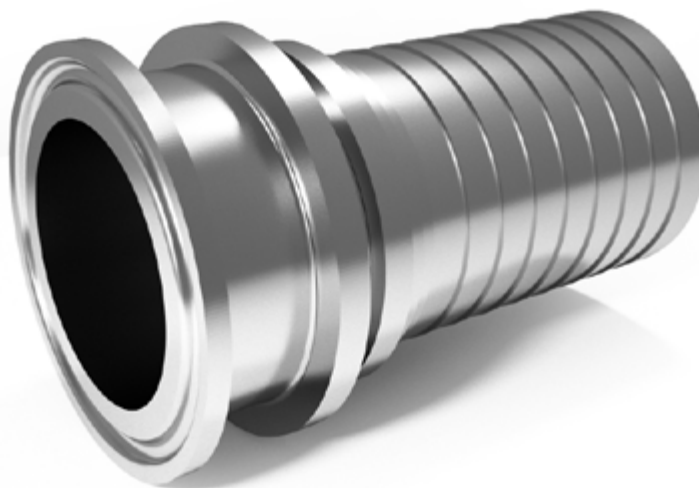
AISI 316L BS 4825 SANITARY CLAMP RETAINER

TYPE E1 fitting is used in pharmaceutical and food industries to connect hoses quickly to equipments and plants. Standard construction material is AISI 316L.

The fitting is laser marked with material, lot/casting, DN and brand.

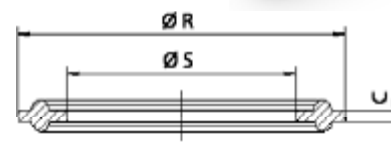
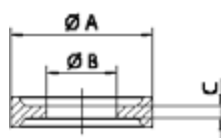
Mechanical mirror polishing with standard surface finish Ra 0,6.

Other finishes are available on request.



RECOMMENDED GASKET

DIFLEX BS 4825 clamp gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



BS 4825 CLAMP GASKET

DN	L	l1	Ø D	Ø d1	Ø d2
15 - 1/2"	58	30	25,4	9	13
20 - 3/4"	64	31	25,4	15	19,2
25 - 1"	69	34	50,4	20	25,7
32 - 1 1/4"	80	40	50,4	28	32,4
40 - 1 1/2"	94	51	50,4	33	38,5
50 - 2"	109	62	63,9	46	51
65 - 2 1/2"	115	68	77,4	59	64
80 - 3"	134	81	90,9	71	75
100 - 4"	150	92	118,9	96	101

DN	Ø A	Ø B	C	Ø R	Ø S
15 - 1/2"	22	9,6	1,7	-	-
20 - 3/4"	22	16	1,7	-	-
25 - 1"	-	-	1,7	50,5	22,1
32 - 1 1/4"	-	-	1,7	50,5	35,1
40 - 1 1/2"	-	-	1,7	64	47,4
50 - 2"	-	-	1,7	77,5	60,5
65 - 2 1/2"	-	-	1,7	91	73,2
80 - 3"	-	-	1,7	119	97,5
100 - 4"	-	-	1,7	167	146,9

TYPE E2

AISI 316L BS 4825 SANITARY CLAMP RETAINER PFA LINED

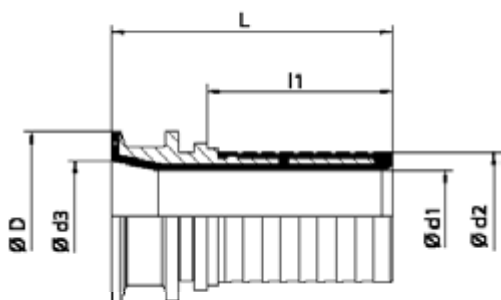
TYPE E2 fitting is used in pharmaceutical and food industries to connect hoses quickly and safely to equipments and plants. to equipments and plants in quickly way. Standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

The fitting is laser marked with material, lot/casting, DN and brand.

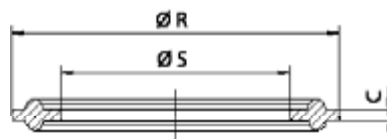


TYPE E2
Antistatic Version



RECOMMENDED GASKET

DIFLEX BS 4825 clamp gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



BS 4825 CLAMP GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
25 - 1"	69	46	50,5	16,5	25,7	19,8
40 - 1 1/2"	76	60	50,5	27	38,5	34
50 - 2"	93	64	63,9	38,5	50,8	44

DN	C	Ø R	Ø S
25 - 1"	1,7	50,5	22,1
40 - 1 1/2"	1,7	64	47,4
50 - 2"	1,7	77,5	60,5

TYPE E3

AISI 316L REUSABLE BS 4825 SANITARY CLAMP

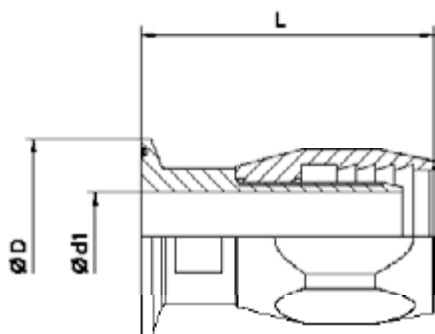
The TYPE E3 fitting is used in pharmaceutical and food industries to connect hoses quickly to equipments and plants.

Standard construction material is AISI 316L.

The fitting is laser marked with material, lot/casting, DN and brand.

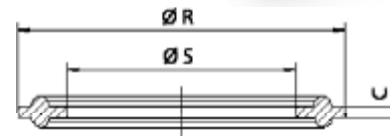
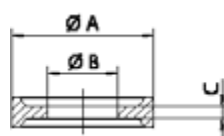
Mechanical mirror polishing with standard surface finish Ra 0,6.

Other finishes are available on request.



RECOMMENDED GASKET

Clamp BS 4825 gasket in DIFLEX, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



BS 4825 CLAMP GASKET

DN	L	Ø D	Ø d1
15 - 1/2"	58	25,4	9
20 - 3/4"	64	25,4	15
25 - 1"	69	50,4	20
40 - 1 1/2"	94	50,4	33

DN	Ø A	Ø B	C	Ø R	Ø S
15 - 1/2"	22	9,6	1,7	-	-
20 - 3/4"	22	16	1,7	-	-
25 - 1"	-	-	1,7	50,5	22,1
40 - 1 1/2"	-	-	1,7	64	47,4

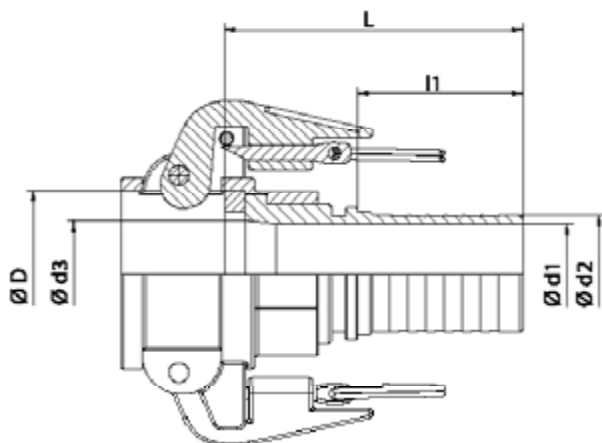
TYPE F1

**AISI 316L KF SELFLOCK EN
14420-7:2004 CAM & GROOVE
RETAINER**

The fast TYPE F1 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, and safely, to equipments and plants is what distinguishes this type of fitting from the other ones.

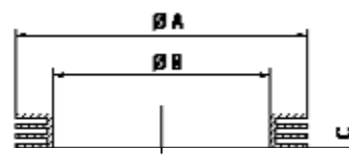
The standard construction material is AISI 316L.

It is equipped with self-locking safety levers to avoid the accidental opening of the fitting.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	25,5	9	13	15
0 - 3/4"	70	31	30	15	19,2	20
25 - 1"	80	34	37,5	21	25,7	26
32 - 1 1/4"	90	40	45,5	28	32,4	32
40 - 1 1/2"	90	51	54	33	38,5	38
50 - 2"	95	62	64	45	51	45
65 - 2 1/2"	115	68	76,5	58	64	58
80 - 3"	135	81	92	69	75	73
100 - 4"	140	92	121	96	101	101

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F2

AISI 316L PFA LINED KF SELFLOCK EN 14420-7:2004 CAM & GROOVE RETAINER

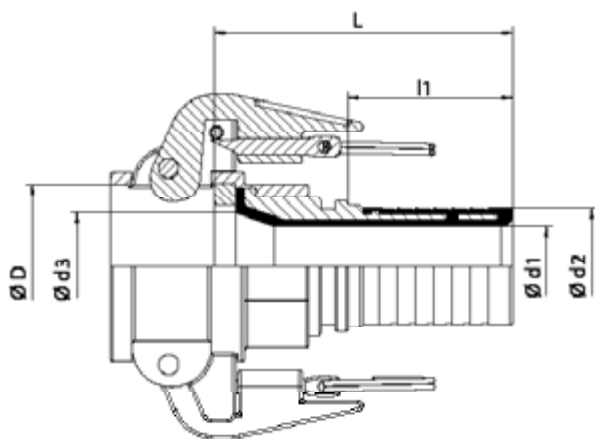
The fast TYPE F2 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, and safely, to equipments and plants is what distinguishes this type of fitting from the other ones.

The standard construction material is AISI 316L.

It is equipped with self-locking safety levers to avoid the accidental opening of the fitting.

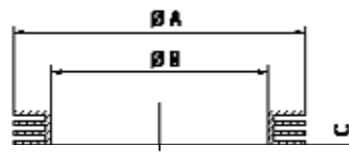


TYPE F2
Antistatic Version



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	25,5	9	13	12
20 - 3/4"	65	31	30	12	19,2	15
25 - 1"	70	34	37,5	16	25,7	20
32 - 1 1/4"	80	40	45,5	22	32,4	28
40 - 1 1/2"	95	51	54	27	38,5	37
50 - 2"	110	62	64	39	51	45
65 - 2 1/2"	115	68	76,5	51	64	57
80 - 3"	135	81	92	60	75	66
100 - 4"	150	92	121	87	101	96

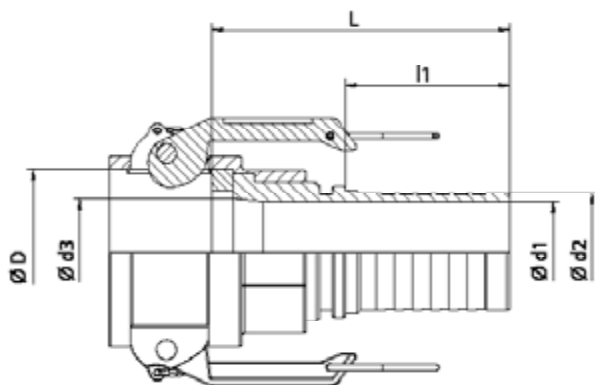
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F3

AISI 316L KF EN 14420-7:2004 CAM & GROOVE RETAINER

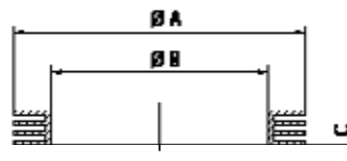
The fast TYPE F3 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones.

The standard construction material is AISI 316L.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	25,5	9	13	15
20 - 3/4"	70	31	30	15	19,2	20
25 - 1"	80	34	37,5	21	25,7	26
32 - 1 1/4"	90	40	45,5	28	32,4	32
40 - 1 1/2"	90	51	54	33	38,5	38
50 - 2"	95	62	64	45	51	45
65 - 2 1/2"	115	68	76,5	58	64	58
80 - 3"	135	81	92	69	75	73
100 - 4"	140	92	121	96	101	101

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F4

AISI 316L PFA LINED KF EN 14420-7:2004 CAM & GROOVE RETAINER

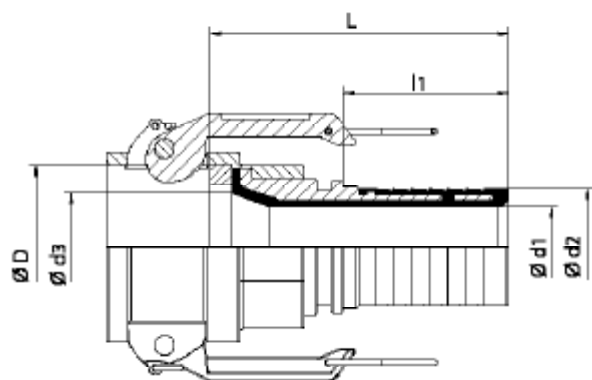
The fast TYPE F4 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones.

The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

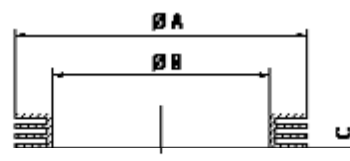


TYPE F4
Antistatic Version



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3
15 - 1/2"	60	30	25,5	9	13	12
20 - 3/4"	65	31	30	12	19,2	15
25 - 1"	70	34	37,5	16	25,7	20
32 - 1 1/4"	80	40	45,5	22	32,4	28
40 - 1 1/2"	95	51	54	27	38,5	37
50 - 2"	110	62	64	39	51	45
65 - 2 1/2"	115	68	76,5	51	64	57
80 - 3"	135	81	92	60	75	66
100 - 4"	150	92	121	87	101	96

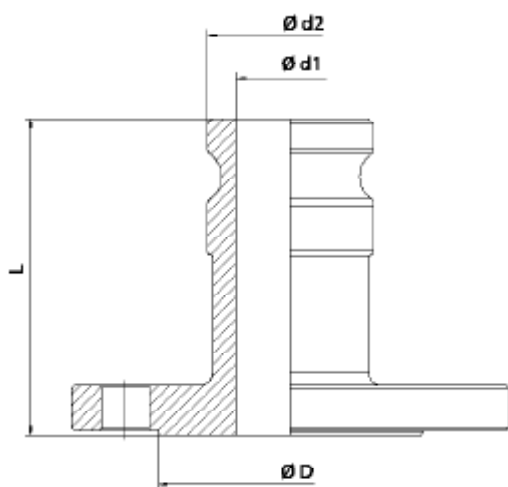
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F5

**AISI 316L LAS FF EN 14420-7:2004
CAM & GROOVE**

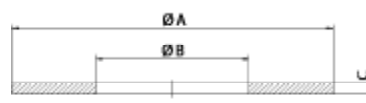
The fast TYPE F5 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

The fitting flange is made according to the Standard Specification required by the customer.



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKETS

DN	L	Ø D DIN	Ø D ANSI	Ø d1	Ø d2
15 - 1/2"	80	45	35	13	24,5
20 - 3/4"	80	58	43	20	29
25 - 1"	85	68	51	24	36,5
32 - 1 1/4"	90	78	64	32	44,5
40 - 1 1/2"	95	88	73	38	53
50 - 2"	100	102	92	48	63
65 - 2 1/2"	110	122	105	60	75,5
80 - 3"	120	138	127	74	91
100 - 4"	130	158	158	102	120

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3,96
20 - 3/4"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 1/4"	78	64	32	6,35
40 - 1 1/2"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 1/2"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

TYPE F6

AISI 316L PFA LINED LAS FF EN 14420-7:2004 CAM & GROOVE RETAINER

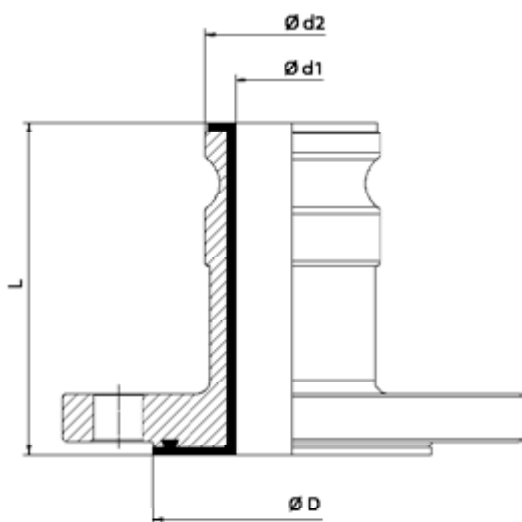
The fast TYPE F6 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

The fitting flange is made according to the Standard Specification required by the customer.

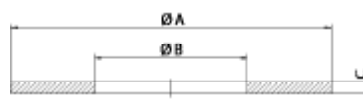


TYPE F6
Antistatic Version



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKET

DN	L	Ø D DIN	Ø D ANSI	Ø d1	Ø d2
20 - ¾"	80	58	43	15	29
25 - 1"	85	68	51	19	36,5
32 - 1 ¼"	95	78	64	27	44,5
40 - 1 ½"	95	88	73	33	53
50 - 2"	105	102	92	43	63
65 - 2 ½"	110	122	105	55	75,5
80 - 3"	120	138	127	69	91
100 - 4"	130	158	158	97	120

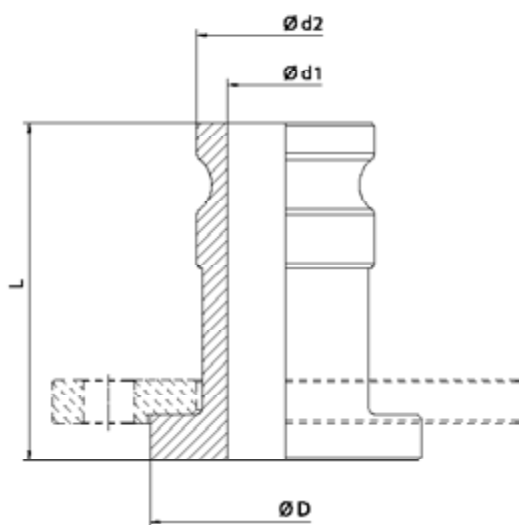
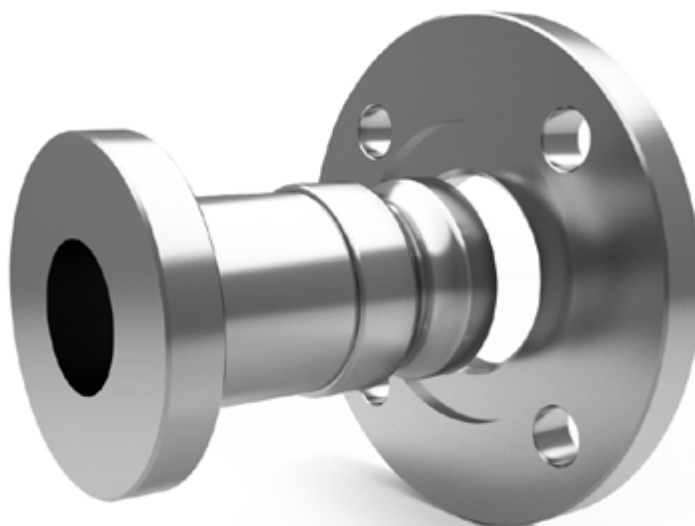
DN	Ø A DIN	Ø A ANSI	Ø B	C
20 - ¾"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 ¼"	78	64	32	6,35
40 - 1 ½"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 ½"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

TYPE F7

**AISI 316L LAS FL EN 14420-7:2004
CAM & GROOVE RETAINER**

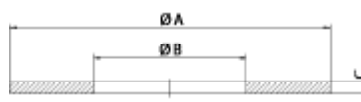
The fast TYPE F7 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

The flange can be provided in the Standard Specification and material according to customer requirements.



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKET

DN	L	Ø D DIN/ANSI	Ø d1	Ø d2
15 - 1/2"	80	47	13	24,5
20 - 3/4"	90	47	21	29
25 - 1"	100	58	24	36,5
32 - 1 1/4"	105	68	32	44,5
40 - 1 1/2"	110	78	38	53
50 - 2"	120	92	48	63
65 - 2 1/2"	130	105	60	75,5
80 - 3"	140	127	73	91
100 - 4"	150	158	99	120

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3,96
20 - 3/4"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 1/4"	78	64	32	6,35
40 - 1 1/2"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 1/2"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

TYPE F8

AISI 316L PFA LINED LAS FL EN 14420-7:2004 CAM & GROOVE RETAINER

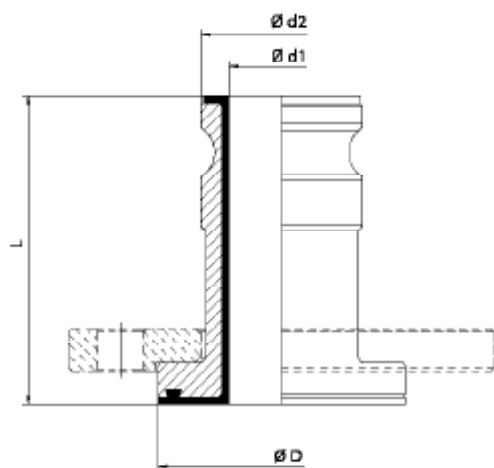
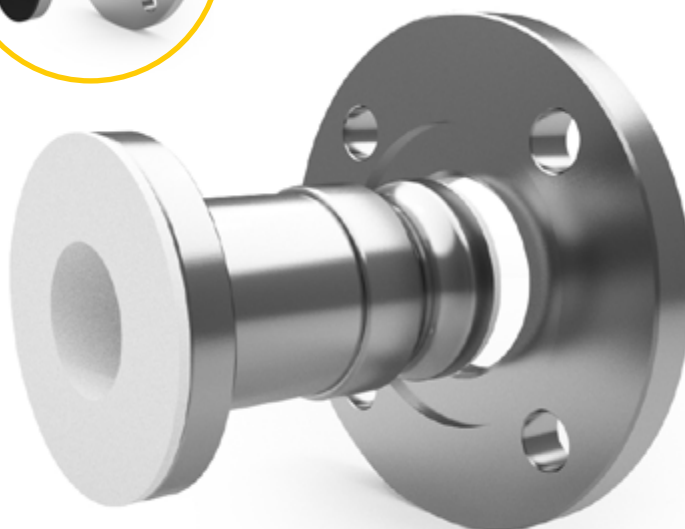
The fast TYPE F8 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0÷14, design temperature -40 °C ÷ 200 °C.

The flange can be provided in the Standard Specification and material according to customer requirements.

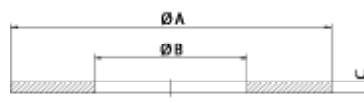


TYPE F8
Antistatic Version



RECOMMENDED GASKET

DIFLEX flat gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



FLAT GASKET

DN	L	Ø D	Ø d1	Ø d2
20 - ¾"	85	47	17	29
25 - 1"	95	58	20	36,5
32 - 1 ¼"	100	68	28	44,5
40 - 1 ½"	105	78	32	53
50 - 2"	115	92	42	63
65 - 2 ½"	125	105	55	75,5
80 - 3"	130	127	70	91
100 - 4"	130	158	94	120

DN	Ø A	Ø B	C
20 - ¾"	58	20	5,53
25 - 1"	68	25	6,35
32 - 1 ¼"	78	32	6,35
40 - 1 ½"	88	40	6,35
50 - 2"	102	50	6,35
65 - 2 ½"	122	65	6,35
80 - 3"	138	80	6,35
100 - 4"	158	100	6,35

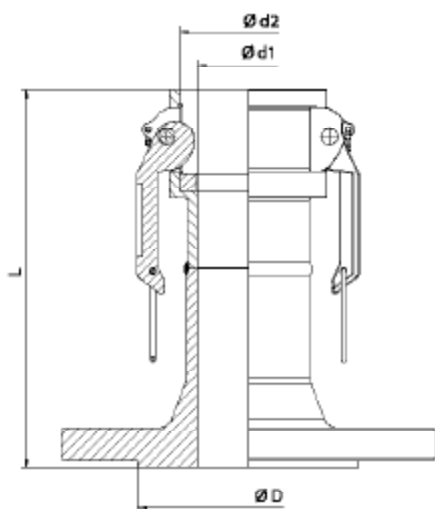
TYPE F9

AISI 316L LBS FF EN 14420-7:2004 CAM & GROOVE

The fast TYPE F9 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of retainer from the other ones.

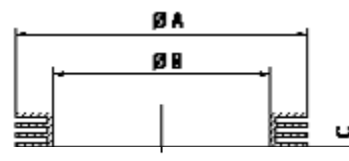
The standard construction material is AISI 316L.

The fitting flange is made according to the Standard Specification required by the customer.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø D DIN	Ø D ANSI	Ø d1	Ø d2
15 - 1/2"	90	45	35	13	25,5
20 - 3/4"	90	58	43	20	30
25 - 1"	100	68	51	24	37,5
32 - 1 1/4"	110	78	64	32	45,5
40 - 1 1/2"	120	88	73	38	54
50 - 2"	125	102	92	48	64
65 - 2 1/2"	130	122	105	60	76,5
80 - 3"	145	138	127	74	92
100 - 4"	150	158	158	102	121

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F10

AISI 316L PFA LINED LBS FF EN 14420-7:2004 CAM & GROOVE

The fast TYPE F10 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of retainer from the other ones.

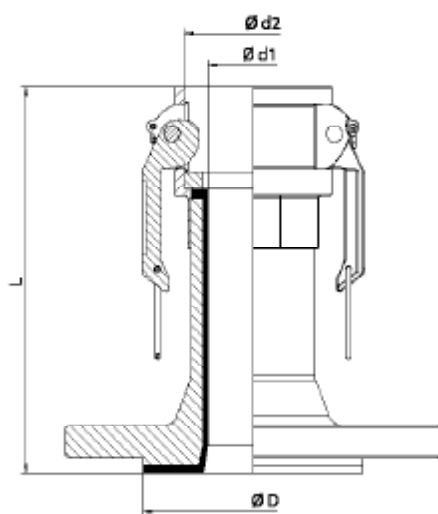
The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

The fitting flange is made according to the Standard Specification required by the customer.

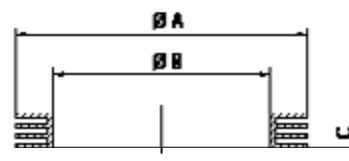


TYPE F10
Antistatic Version



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

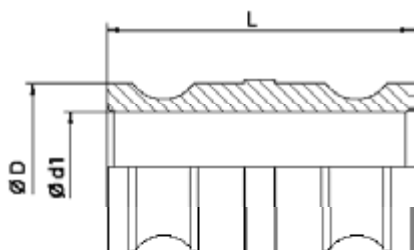
DN	L	Ø D DIN	Ø D ANSI	Ø d1	Ø d2
20 - ¾"	92	58	43	17	30
25 - 1"	103	68	51	23	37,5
32 - 1 ¼"	113	78	64	32	45,5
40 - 1 ½"	117	88	73	38	54
50 - 2"	125	102	92	49	64
65 - 2 ½"	133	122	105	68	76,5
80 - 3"	144	138	127	78	92
100 - 4"	150	158	158	102	121

DN	Ø A	Ø B	C
20 - ¾"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 ¼"	49	34	6,35
40 - 1 ½"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 ½"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F11

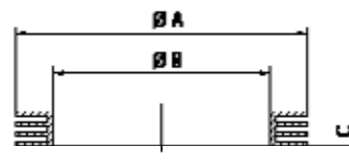
AISI 316L AD TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F11 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø D	Ø d1
15 - 1/2"	70	24,5	13
20 - 3/4"	74	29	21
25 - 1"	92	36,5	24
32 - 1 1/4"	104	44,5	32
40 - 1 1/2"	108	53	38
50 - 2"	128	63	48
65 - 2 1/2"	134	75,5	60
80 - 3"	134	91	73
100 - 4"	144	120	99

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F12

AISI 316L PFA LINED AD TYPE - EN 14420-7:2004 CAM & GROOVE

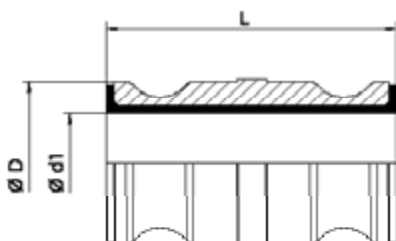
The fast TYPE F12 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of retainer from the other ones.

The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

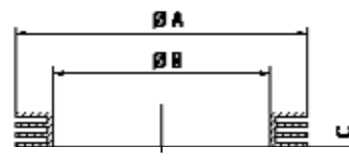


TYPE F12
Antistatic Version



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø D	Ø d1
20 - ¾"	75	29	16
25 - 1"	95	36,5	20
32 - 1 ¼"	105	44,5	28
40 - 1 ½"	110	53	32
50 - 2"	130	63	42
65 - 2 ½"	135	75,5	55
80 - 3"	135	91	70
100 - 4"	150	120	94

DN	Ø A	Ø B	C
20 - ¾"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 ¼"	49	34	6,35
40 - 1 ½"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 ½"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

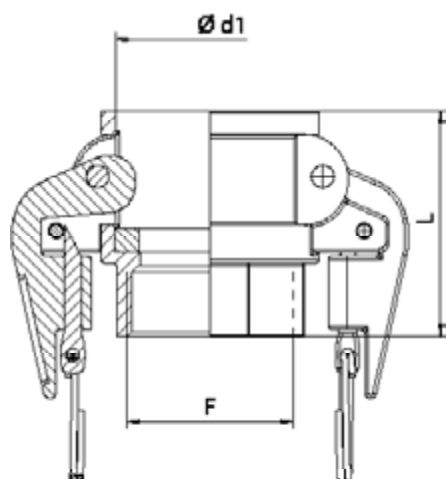
TYPE F13

AISI 316L SELFLOCK D TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F13 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

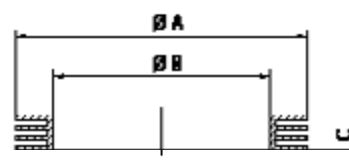
It is equipped with self-locking safety levers that inhibit the accidental opening of the fitting.

Internal BSP/GAS threaded end.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø d1	F
15 - 1/2"	50	25,5	1/2"
20 - 3/4"	50	30	3/4"
25 - 1"	58	37,5	1"
32 - 1 1/4"	64	45,5	1 1/4"
40 - 1 1/2"	68	54	1 1/2"
50 - 2"	75	64	2"
65 - 2 1/2"	77	76,5	2 1/2"
80 - 3"	87	92	3"
100 - 4"	95	121	4"

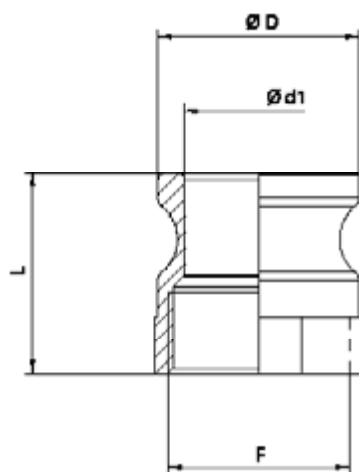
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F14

AISI 316L A TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F14 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

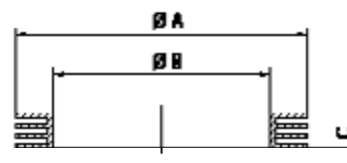
Internal BSP/GAS threaded end.



DN	L	Ø D	Ø d1	F
15 - 1/2"	38	24,5	13	1/2"
20 - 3/4"	38	29	21	3/4"
25 - 1"	46	36,5	24	1"
32 - 1 1/4"	53	44,5	30	1 1/4"
40 - 1 1/2"	53	53	39	1 1/2"
50 - 2"	61	63	48	2"
65 - 2 1/2"	70	75,5	60	2 1/2"
80 - 3"	73	91	74	3"
100 - 4"	79	120	102	4"

RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

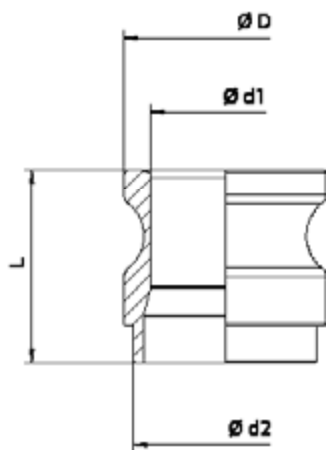
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F15

AISI 316L AW TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F15 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

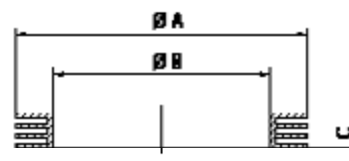
The end is suitable to be welded.



DN	L	Ø D	Ø d1	Ø d2
15 - 1/2"	33	24,5	13	21
20 - 3/4"	35	29	21	26
25 - 1"	44	36,5	24	33
32 - 1 1/4"	50	44,5	32	42
40 - 1 1/2"	52	53	38	48
50 - 2"	62	63	48	60
65 - 2 1/2"	65	75,5	60	76
80 - 3"	65	91	73	89
100 - 4"	70	120	99	114

RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

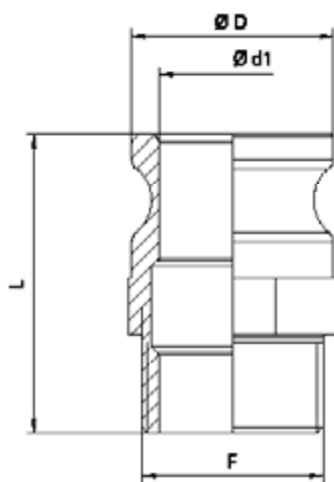
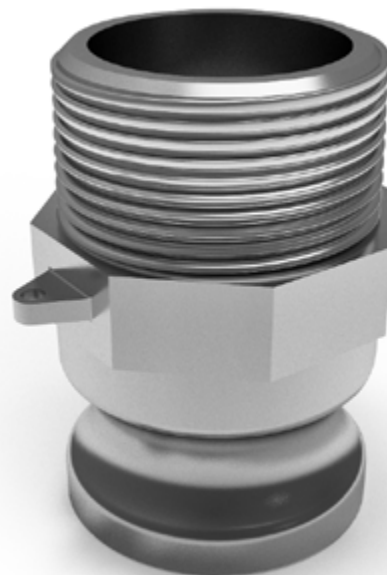
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F16

AISI 316L F TYPE - EN 14420-7:2004 CAM & GROOVE

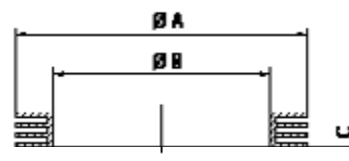
The fast TYPE F16 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

External BSP/GAS threaded end.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

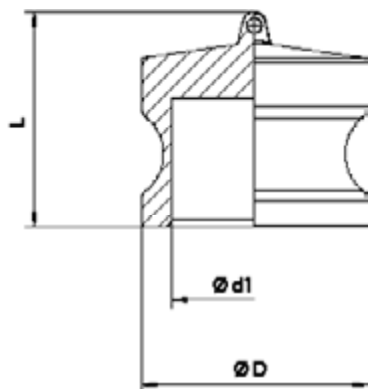
DN	L	Ø D	Ø d1	F
15 - 1/2"	55	24,5	15	1/2"
20 - 3/4"	55	29	19	3/4"
25 - 1"	70	36,5	24	1"
32 - 1 1/4"	79	44,5	31	1 1/4"
40 - 1 1/2"	79	53	37	1 1/2"
50 - 2"	85	63	46	2"
65 - 2 1/2"	100	75,5	56	2 1/2"
80 - 3"	100	91	73	3"
100 - 4"	108	120	102	4"

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

□ TYPE F17

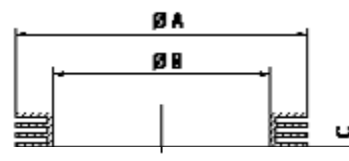
AISI 316L DP TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F17 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø D	Ø d1
15 - 1/2"	38	24,5	13
20 - 3/4"	38	29	20
25 - 1"	44	36,5	25
32 - 1 1/4"	51	44,5	30
40 - 1 1/2"	51	53	38
50 - 2"	60	63	48
65 - 2 1/2"	63	75,5	59
80 - 3"	68	91	74
100 - 4"	71	120	103

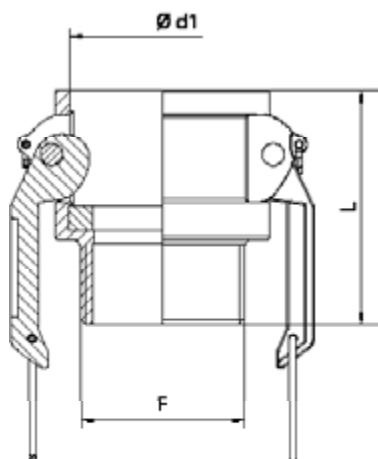
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F18

AISI 316L B TYPE - EN 14420-7:2004 CAM & GROOVE

The fast TYPE F18 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

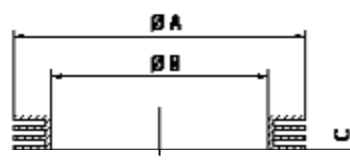
External BSP/GAS threaded end.



DN	L	Ø d1	F
15 - 1/2"	51	25,5	1/2"
20 - 3/4"	51	30	3/4"
25 - 1"	62	37,5	1"
32 - 1 1/4"	70	45,5	1 1/4"
40 - 1 1/2"	72	54	1 1/2"
50 - 2"	77	64	2"
65 - 2 1/2"	85	76,5	2 1/2"
80 - 3"	91	92	3"
100 - 4"	95	121	4"

RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

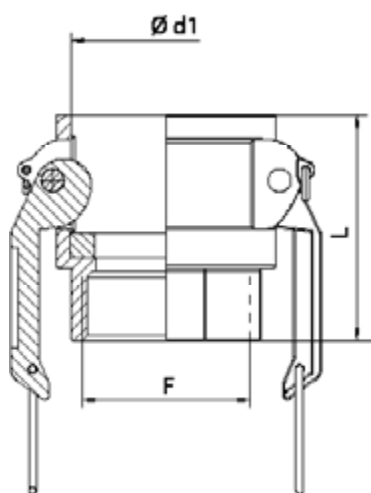
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F19

AISI 316L D TYPE - EN 14420-7:2004 CAM & GROOVE

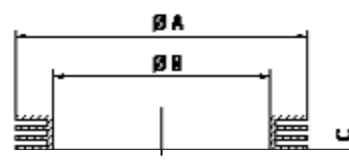
The fast TYPE F19 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

Internal BSP/GAS threaded end.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	Ø d1	F
15 - 1/2"	50	25,5	1/2"
20 - 3/4"	50	30	3/4"
25 - 1"	58	37,5	1"
32 - 1 1/4"	64	45,5	1 1/4"
40 - 1 1/2"	68	54	1 1/2"
50 - 2"	75	64	2"
65 - 2 1/2"	77	76,5	2 1/2"
80 - 3"	87	92	3"
100 - 4"	95	121	4"

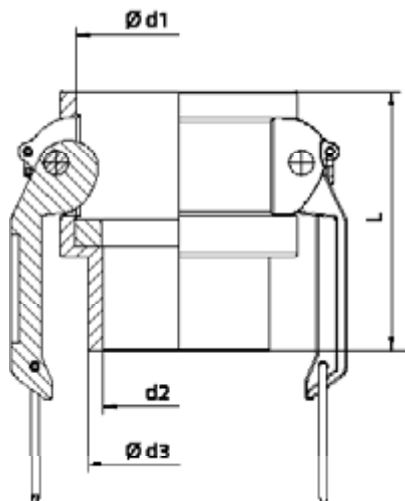
DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F20

AISI 316L DW TYPE - EN 14420-7:2004 CAM & GROOVE

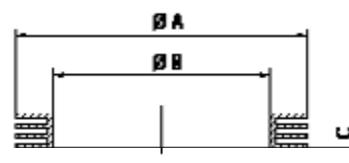
The fast TYPE F20 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.

The end is suitable to be welded.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

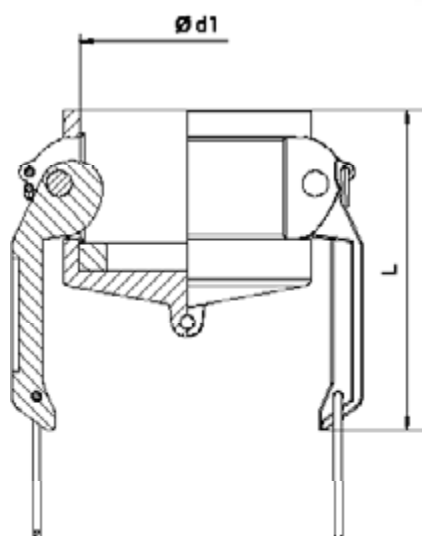
DN	L	Ø d1	Ø d2	Ø d3
15 - 1/2"	51	25,5	16	21
20 - 3/4"	51	30	21	27
25 - 1"	62	37,5	26	33
32 - 1 1/4"	70	45,5	35	42
40 - 1 1/2"	72	54	41	48
50 - 2"	77	64	52	60
65 - 2 1/2"	85	76,5	62	73
80 - 3"	91	92	73	89
100 - 4"	95	121	102	114

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F21

AISI 316L DC TYPE - EN 14420-7:2004 CAM & GROOVE

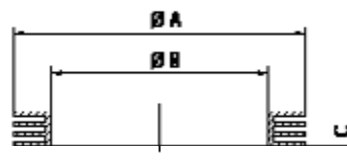
The fast TYPE F21 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.



DN	L	Ø d1
15 - 1/2"	51	25,5
20 - 3/4"	51	30
25 - 1"	60	37,5
32 - 1 1/4"	95	45,5
40 - 1 1/2"	95	54
50 - 2"	98	64
65 - 2 1/2"	100	76,5
80 - 3"	112	92
100 - 4"	115	121

RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



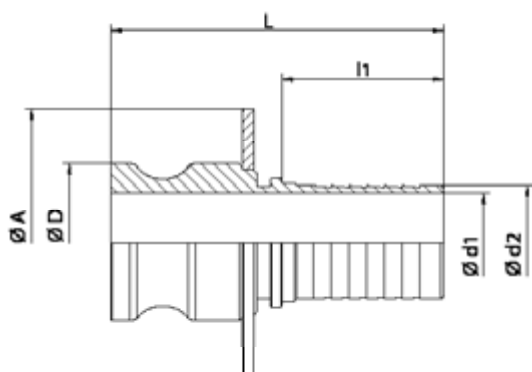
CAM & GROOVE GASKET

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F22

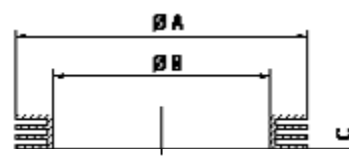
AISI 316L E TYPE - EN 14420-7:2004 CAM & GROOVE WITH PROTECTIVE GUARD

The fast TYPE F22 fitting is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of fitting from the other ones. The standard construction material is AISI 316L.



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø A
15 - 1/2"	66	30	24,5	15	13	70
20 - 3/4"	86	31	29	19	19,2	70
25 - 1"	92	34	36,5	24	25,7	80
32 - 1 1/4"	99	40	44,5	31	32,4	90
40 - 1 1/2"	101	51	53	37	38,5	100
50 - 2"	120	62	63	46	51	110
65 - 2 1/2"	132	68	75,5	56	64	130
80 - 3"	155	81	91	73	75	150
100 - 4"	158	92	120	102	101	170

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

TYPE F23

AISI 316L PFA LINED E TYPE - EN 14420-7:2004 CAM & GROOVE WITH PROTECTIVE GUARD

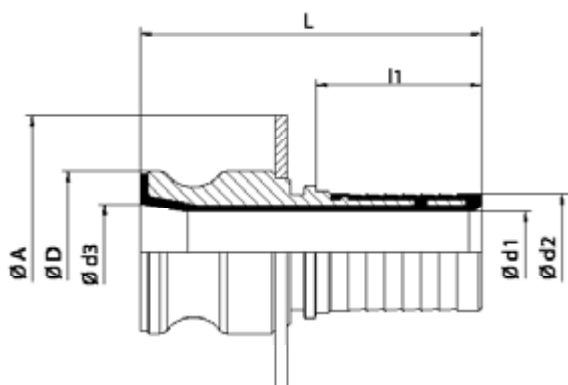
The fast TYPE F23 retainer is used in chemical, pharmaceutical and food industries. The CELERITY in connecting hoses, to equipments and plants is what distinguishes this type of retainer from the other ones.

The standard construction material is AISI 316L/PFA.

The inner lining ensures resistance against nearly all chemicals, pH 0 ÷ 14, design temperature -40 °C ÷ 200 °C.

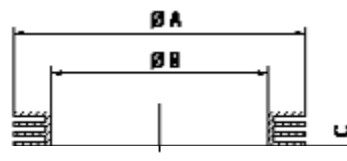


TYPE F23
Antistatic Version



RECOMMENDED GASKET

DIFLEX CAM & GROOVE gasket, resistant to all acids and chemicals, pharmaceuticals and food products with temperatures from -170 °C to +270 °C and pressures up to 50 bar.



CAM & GROOVE GASKET

DN	L	l1	Ø D	Ø d1	Ø d2	Ø d3	Ø A
15 - 1/2"	66	30	24,5	9	13	12	70
20 - 3/4"	86	31	29	12	19,2	15	70
25 - 1"	92	34	36,5	16	25,7	20	80
32 - 1 1/4"	99	40	44,5	22	32,4	28	90
40 - 1 1/2"	101	51	53	27	38,5	37	100
50 - 2"	120	62	63	39	51	45	110
65 - 2 1/2"	132	68	75,5	51	64	57	130
80 - 3"	155	81	91	60	75	66	150
100 - 4"	158	92	120	87	101	96	170

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

C3



FLEXILINE 

**SPECIAL
GASKETS
FOR FITTINGS**

DIFLON



www.diflon.it

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SPECIAL GASKETS FOR FITTINGS

SPECIAL GASKETS FOR FITTINGS

Special gaskets for fittings, normally used in pharmaceuticals, chemicals, petrochemicals, foods, ships, etc. made by high performance materials:

DIFLEX, PTFE, TFM, Viton, silicone food, Viton-Silicon encapsulated with fluoropolymers, FEP and PFA.



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□ DIFLEX FLATE GASKETS FOR EN 1092-01 and ANSI FLANGES

Application examples

- flat gaskets for flanges of any type, with or without grooves
- profiled flat gaskets, with chamber, for rapid assembly etc.

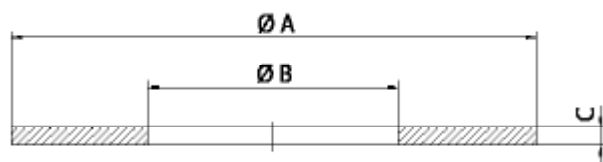
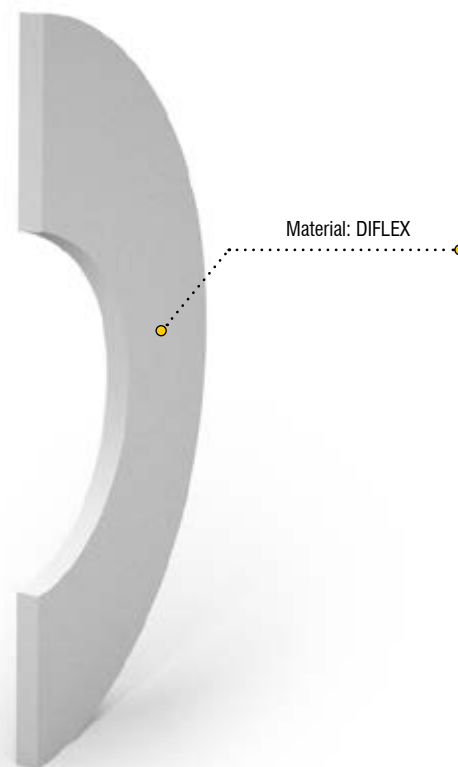
Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Food, Pharmaceutical, Chemical, Petrochemical, etc.

- Operating temperature: -150° +260° C
- Working pressure at room temperature: 80 bar
- P×T: 12.000 (bar x C°) - pH: 0 ÷ 14

Purity of product for Diflex gaskets

DIFLEX can be used, without contra-indications, in the production of basic commodities



Gaskets Dimensions

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3,96
20 - 3/4"	58	43	20	5,53
25 - 1"	68	51	25	6,35
32 - 1 1/4"	78	64	32	6,35
40 - 1 1/2"	88	73	40	6,35
50 - 2"	102	92	50	6,35
65 - 2 1/2"	122	105	65	6,35
80 - 3"	138	127	80	6,35
100 - 4"	158	158	100	6,35

Service gasket for fittings type:



PTFE ENVELOPED GASKETS with FREE ASBESTOS INSERT - TYPE U FOR EN 1092-01 or ANSI FLANGE

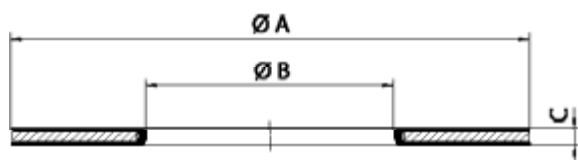
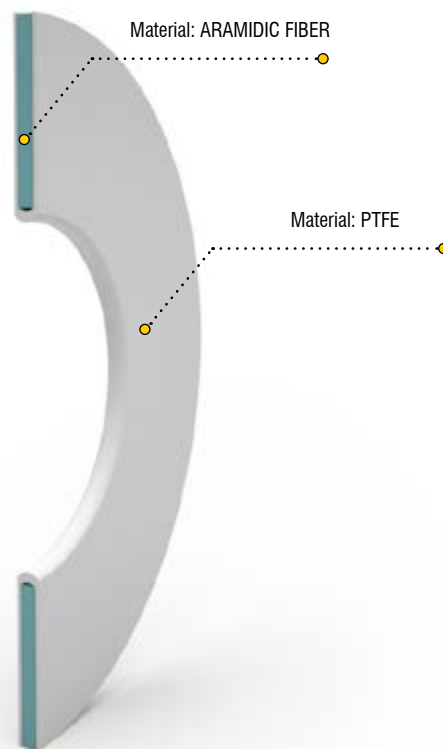
Application examples

flat gaskets for flanges
- profiled flat gaskets, for quick assembly etc.

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Food, Pharmaceuticals, Chemicals, Petrochemicals, etc.

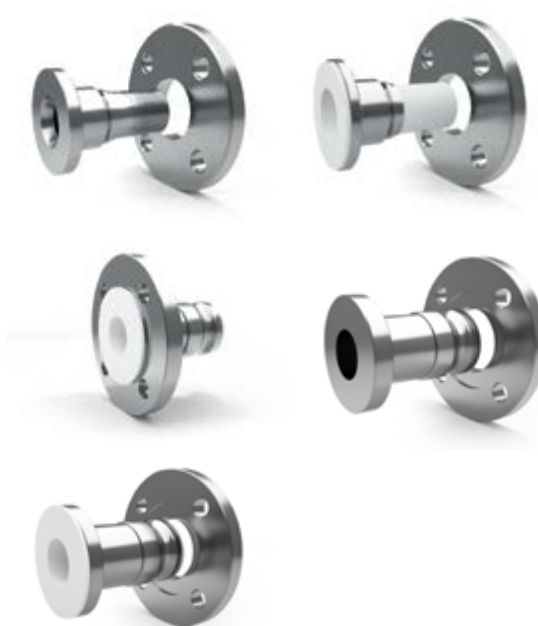
- Operating temperature: + 180° C
- Working pressure at room temperature: 16 bar
- Operation lifetime: good



Gaskets Dimensions

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3
20 - 3/4"	58	43	20	3
25 - 1"	68	51	25	3
32 - 1 1/4"	78	64	32	3
40 - 1 1/2"	88	73	40	3
50 - 2"	102	92	50	3
65 - 2 1/2"	122	105	65	3
80 - 3"	138	127	80	3
100 - 4"	158	158	100	3

Service gasket for fittings type:



PTFE ENVELOPED GASKETS with FREE ASBESTOS INSERT - TYPE C FOR EN 1092-01 or ANSI FLANGE

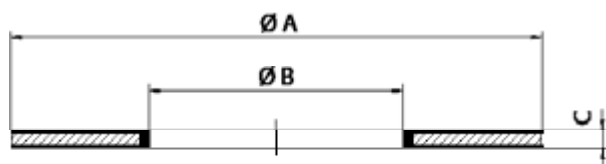
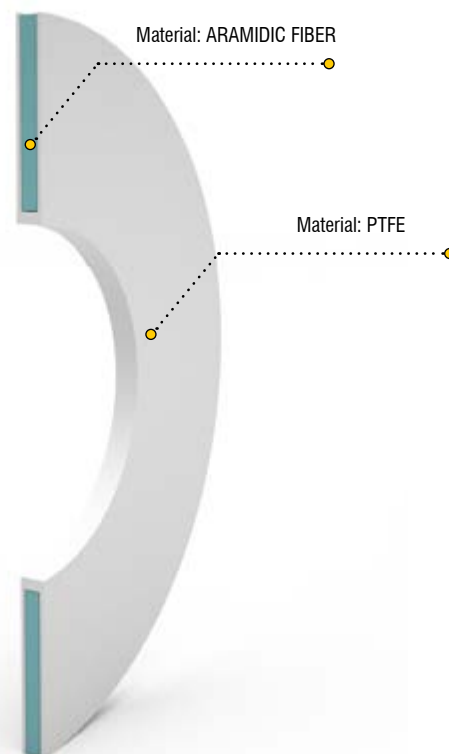
Application examples

- flat gaskets for flanges
- profiled flat gaskets, for quick assembly etc.

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Food, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- Operating temperature: + 180° C
- Working pressure at room temperature: 16 bar
- Operation lifetime: excellent



Gaskets Dimensions

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3
20 - 3/4"	58	43	20	3
25 - 1"	68	51	25	3
32 - 1 1/4"	78	64	32	3
40 - 1 1/2"	88	73	40	3
50 - 2"	102	92	50	3
65 - 2 1/2"	122	105	65	3
80 - 3"	138	127	80	3
100 - 4"	158	158	100	3

Service gasket for fittings type:



PTFE ENVELOPE GASKETS with FREE ASBESTOS INSERT - TYPE Y FOR EN 1092-01 or ANSI FLANGE

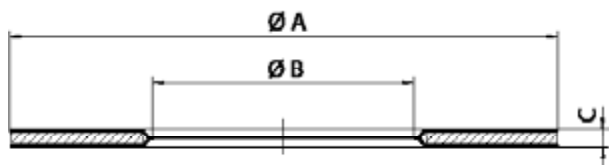
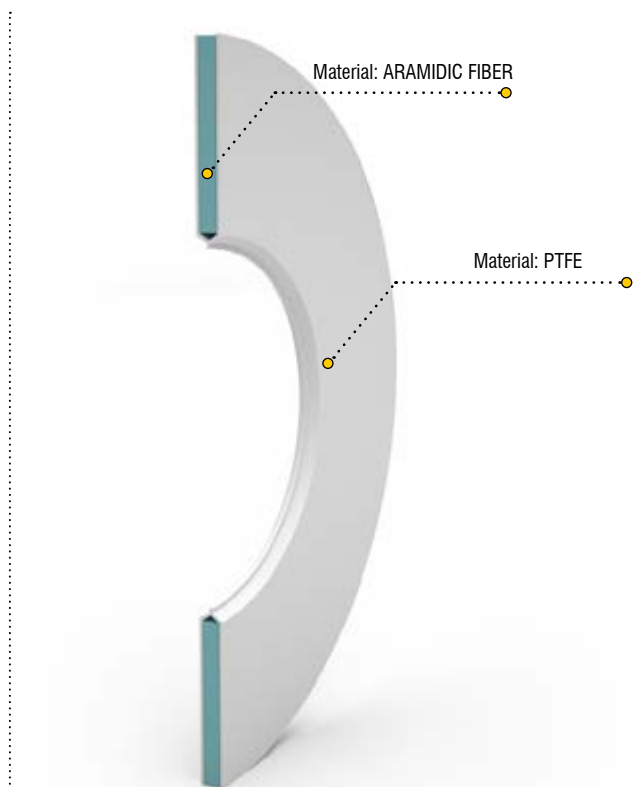
Application examples

flat gaskets for flanges
 . profiled flat gaskets, for quick assembly etc.

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Food, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- . Operating temperature: + 180° C
- . Working pressure at room temperature: 16 bar
- . Operation lifetime: limited



Gaskets Dimensions

DN	Ø A DIN	Ø A ANSI	Ø B	C
15 - 1/2"	45	35	15	3
20 - 3/4"	58	43	20	3
25 - 1"	68	51	25	3
32 - 1 1/4"	78	64	32	3
40 - 1 1/2"	88	73	40	3
50 - 2"	102	92	50	3
65 - 2 1/2"	122	105	65	3
80 - 3"	138	127	80	3
100 - 4"	158	158	100	3

Service gasket for fittings type:



DIN 11851 GASKETS

Application examples DIFLEX

DIFLEX gasket for type DIN 11851 fittings

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- Operating temperature: -150° + 260° C
- Working pressure at room temperature: 50 bar

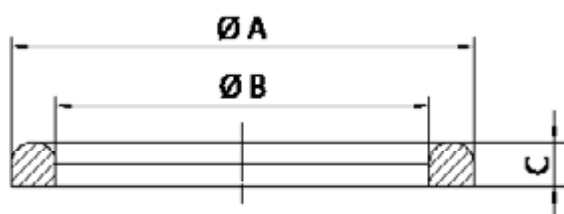
Application examples SILICON

Silicon (VMQ) gasket for type DIN 11851 fittings

Applications

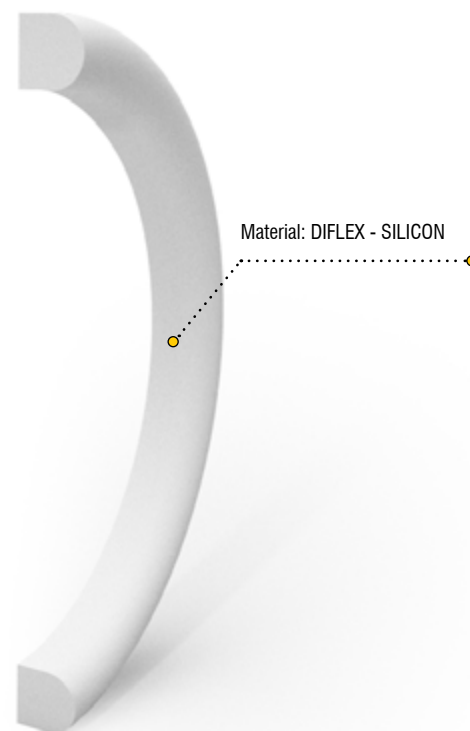
Oils, Fats, Oxidations (oxygen and ozone even hot), Medical Products, Pharmaceuticals, Biologicals, Foods, etc. we can provide special silicones for specific uses.

- Operating temperature: -140° + 200° C
- Working pressure at room temperature: 10 bar



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - 1/2"	26	18	4,5
20 - 3/4"	33	23	4,5
25 - 1"	40	30	5
32 - 1 1/4"	46	36	5
40 - 1 1/2"	52	42	5
50 - 2"	64	54	5
65 - 2 1/2"	81	71	5
80 - 3"	95	85	5
100 - 4"	114	104	5



Service gasket for fittings type:



SMS 1145 GASKETS

Application examples DIFLEX

DIFLEX gasket for type SMS 1145 fittings

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- . Operating temperature: -150° +260° C
- . Working pressure at room temperature: 50 bar

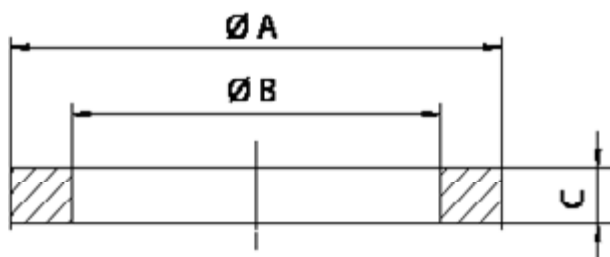
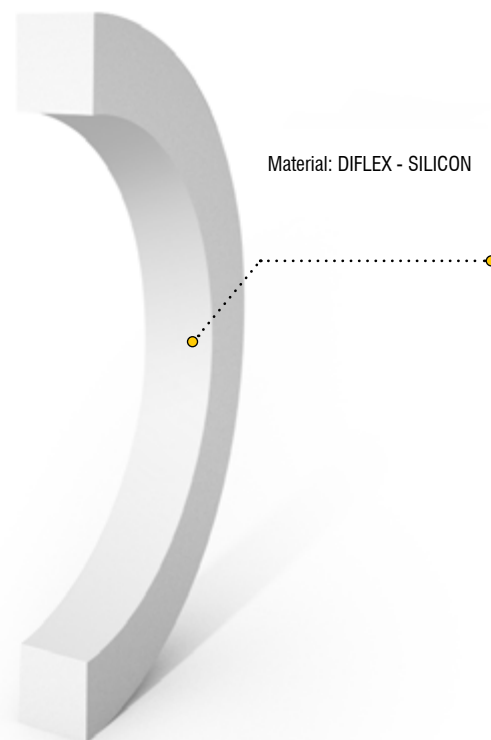
Application examples SILICON

Silicon (VMQ) for type SMS 1145 fittings

Applications

Oils, Fats, Oxidations (oxygen and ozone even hot), Medical Products, Pharmaceuticals, Biologicals, Foods, etc. we can provide special silicones for specific uses.

- . Operating temperature: -140° +200° C
- . Working pressure at room temperature: 10 bar



Gaskets Dimensions

DN	Ø A	Ø B	C
25 - 1"	32	25	5,5
40 - 1 1/2"	48	36	5,5
50 - 2"	61	51	5,5
65 - 2 1/2"	73,5	63,5	5,5
80 - 3"	86	76	5,5
100 - 4"	113,5	102	5,5

Service gasket for fittings type:



**GASKETS FOR THREADED
BSP/GAS FITTINGS**

Application examples DIFLEX

DIFLEX gasket for type SMS 1145 fittings

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- Operating temperature: -150° + 260° C
- Working pressure at room temperature: 50 bar

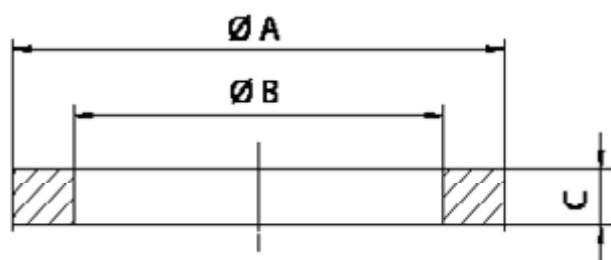
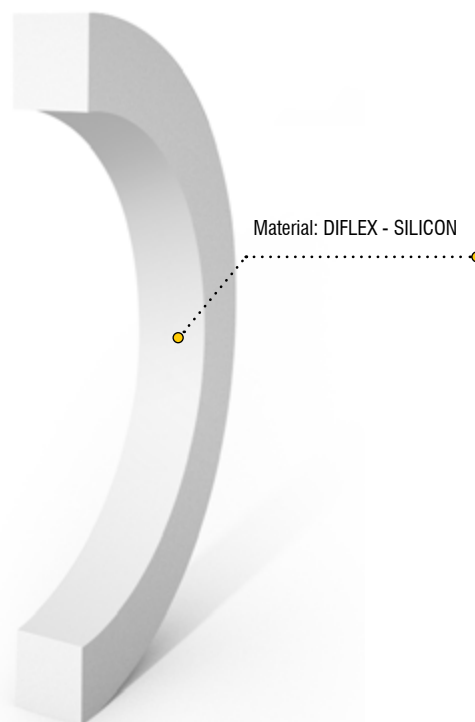
Application examples SILICON

Silicon (VMQ) for type SMS 1145 fittings

Applications

Oils, Fats, Oxidations (oxygen and ozone even hot), Medical Products, Pharmaceuticals, Biologicals, Foods, etc. you can provide special silicones for specific uses.

- Operating temperature: -140° +200° C
- Working pressure at room temperature: 10 bar



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - 1/2"	20	10	3
20 - 3/4"	26	16	3
25 - 1"	32	21	3
32 - 1 1/4"	40	29	3
40 - 1 1/2"	46	34	3
50 - 2"	59	47	3
65 - 2 1/2"	73	60	3
80 - 3"	86	72	3
100 - 4"	112	97	3

Service gasket for fittings type:



GASKETS FOR BS 4825 CLAMP FITTINGS

Application examples DIFLEX

In specific design Clamp BS 4825 gasket in DIFLEX

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- Operating temperature: -150° + 260° C
- Working pressure at room temperature: 50 bar

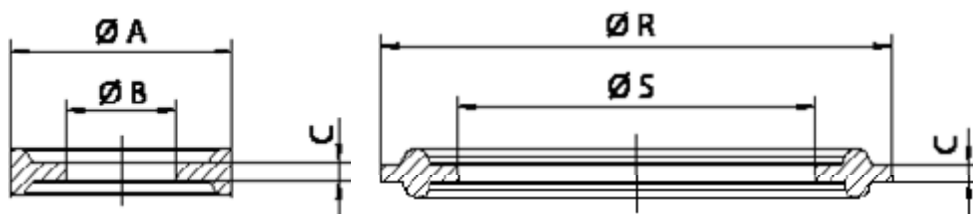
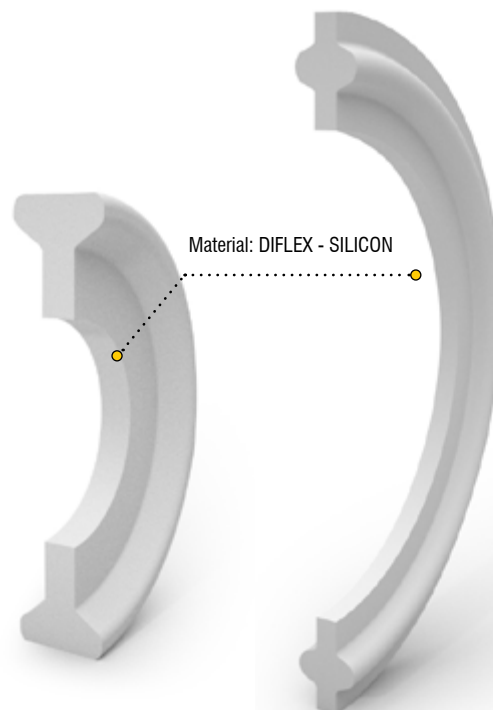
Application examples SILICON

In specific design Silicon (VMQ)

Applications

Oils, Fats, Oxidations (oxygen and ozone even hot), Medical Products, Pharmaceuticals, Biologicals, Foods, etc. we can provide special silicones for specific uses.

- Operating temperature: -140° +200° C
- Working pressure at room temperature: 10 bar



Gaskets Dimensions

DN	Ø A	Ø B	C	Ø R	Ø S
15 - 1/2"	22	9,6	1,7	-	-
20 - 3/4"	22	16	1,7	-	-
25 - 1"	-	-	1,7	50,5	22,1
32 - 1 1/4"	-	-	1,7	50,5	35,1
40 - 1 1/2"	-	-	1,7	64	47,4
50 - 2"	-	-	1,7	77,5	60,5
65 - 2 1/2"	-	-	1,7	91	73,2
80 - 3"	-	-	1,7	119	97,5
100 - 4"	-	-	1,7	167	146,9

Service gasket for fittings type:



GASKETS FOR BS 4825 CLAMP FITTINGS

Application examples

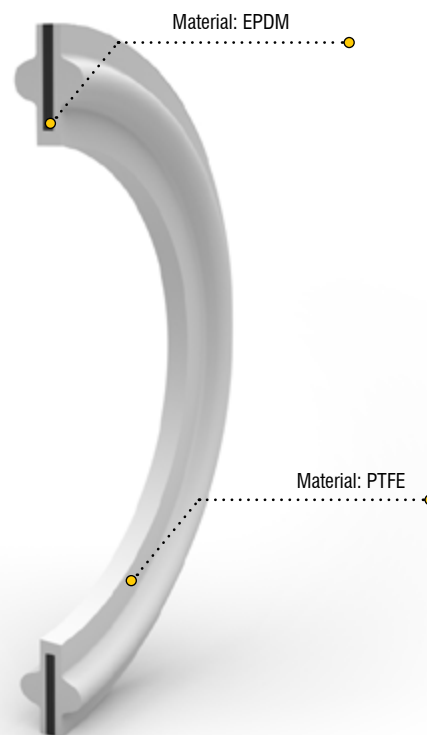
In specific design envelope PTFE gaskets with EPDM insert for BS 4825 fittings

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

The PTFE envelope is a protective barrier to the internal acid resistant rubber, which for a limited period retains its elasticity.

- Operating temperature: -40° C +120° C
- Operation lifetime: medium



Gaskets Dimensions

DN	Ø A	Ø B	C
25 - 1"	50,5	22,1	1,7
32 - 1 ¼"	50,5	35,1	1,7
40 - 1 ½"	64	47,4	1,7
50 - 2"	77,5	60,5	1,7
65 - 2 ½"	91	73,2	1,7
80 - 3"	119	97,5	1,7
100 - 4"	167	146,9	1,7

Service gasket for fittings type:



GASKETS FOR CAM & GROOVE FITTINGS

Application examples

In specific design DIFLEX gasket for CAM & GROOVE fittings .

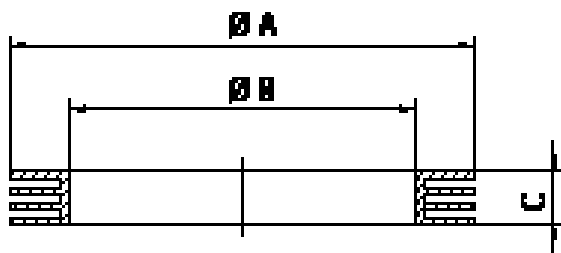
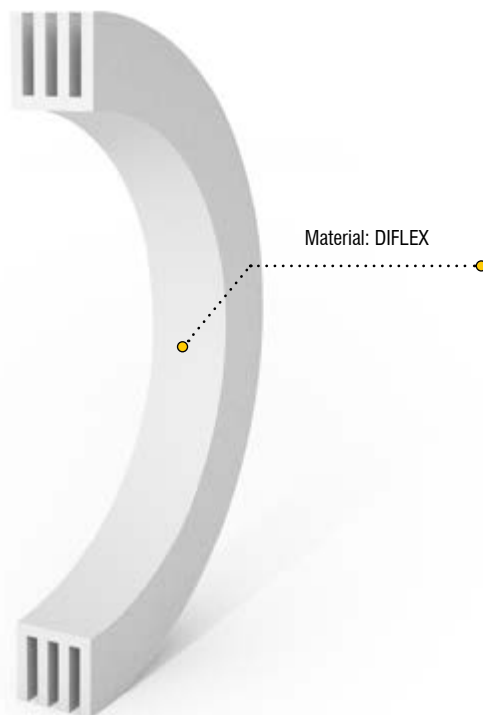
Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, Foods, Pharmaceuticals, Chemicals, Petrochemicals, etc.

- . Operating temperature: -150° + 260° C
- . Working pressure at room temperature: 80 bar
- . P×T: 12.000 (bar x C°) - pH: 0 ÷ 14

Purity of product for Diflex gaskets

DIFLEX can be used, without contra-indications, in the production of basic commodities



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

Service gasket for fittings type:



GASKETS EPDM-NBR FOR CAM & GROOVE FITTINGS

Application examples EPDM

In specific design gaskets EPDM for CAM & GROVE fittings

Applications

Air, Water, Steam, Oxygen, Oxidation by ozone, brake hydraulic oils, detergents etc.

- Operating temperature: -40° C +120° C

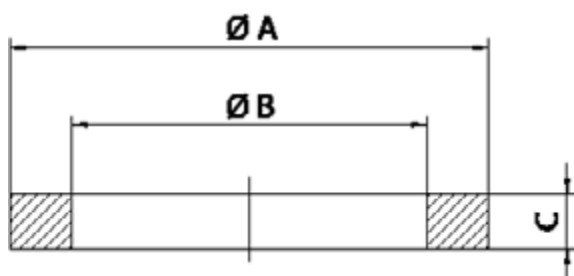
Application examples NBR

In specific design gaskets NBR for CAM & GROVE fittings

Applications

Excellent mechanical strenght, wear, good resistance to aliphatic hydrocarbons, oils and fats mineral, Plumbers Liquids of HFC group, water, diluite acids at room temperature, etc.

- Operating temperature: -30° C +110° C



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - ½"	26	17	3,96
20 - ¾"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 ¼"	49	34	6,35
40 - 1 ½"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 ½"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

Service gasket for fittings type:



GASKETS IN ENVELOPED PTFE WITH EPDM/ NBR INSERT FOR CAM & GROOVE FITTINGS

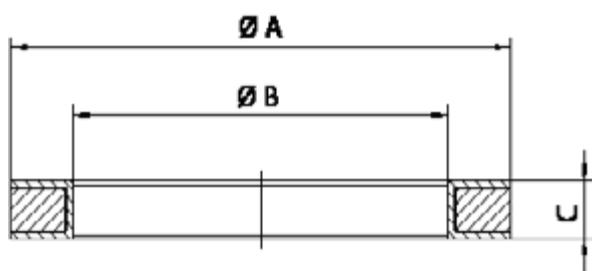
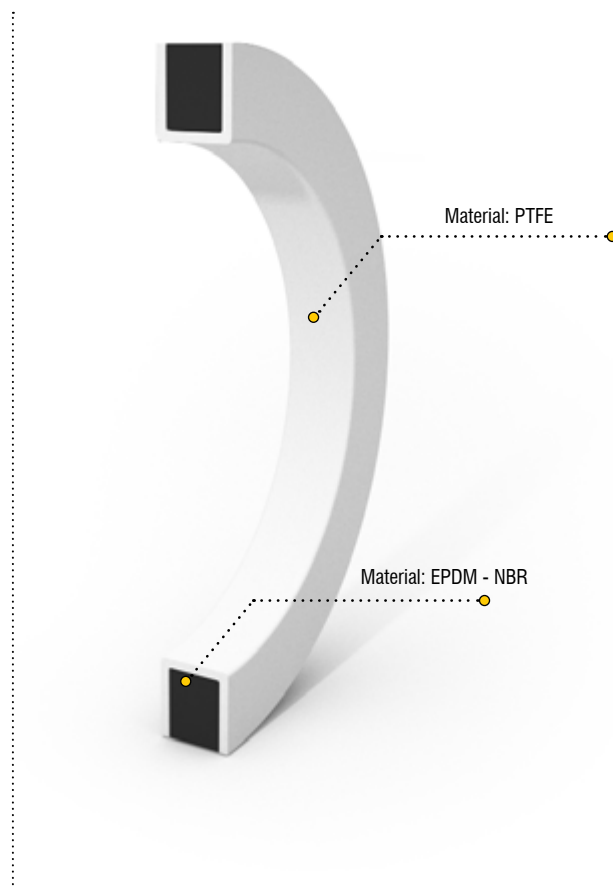
Application examples

In specific design envelope gaskets PTFE with insert in EPDM/NBR for CAM & GROVE fittings

Applications

Acids, Strong alkali, Solvents, Catalyzers, Aromatics, etc. Food, Pharmaceuticals, Chemicals, Petrochemicals, etc.
Enveloped PTFE is a protective barrier to the internal acid resistant rubber, wich for a limited period retains its elasticity.

- Operating temperature: -40° C + 110° C/130° C depending on the used rubber
- Operation lifetime: medium



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

Service gasket for fittings type:



**ENCAPSULATE GASKETS FOR CAM & GROOVE FITTINGS:
FEP SILICONE / VITON® - PFA SILICONE / VITON®**

In the specific form the encapsulated gaskets consist of a core of elastomeric perfectly coated fluoropolymer FEP or PFA. Basically the two types of products differ for a different resistance to temperature and abrasion. The inner core is Viton® or Silicone. They are used which require a high chemical resistance and product purity.

Used in industries:

- Chemical.
- Petrochemical.
- Food.
- Pharmaceutical.

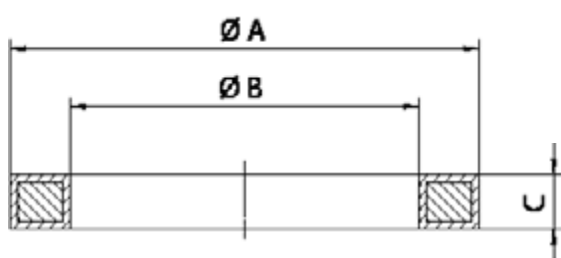
Operating temperature FEP lining:

- FEP / Silicon: -60 °C to + 200 °C
- FEP / Viton®: -20 °C to + 200 °C

Operating temperature PFA lining:

- PFA / Silicon: -60 °C to + 260 °C
- PFA / Viton®: -20 °C to + 200 °C

This type of gasket offers greater resistance to abrasion.



Gaskets Dimensions

DN	Ø A	Ø B	C
15 - 1/2"	26	17	3,96
20 - 3/4"	35	22	5,53
25 - 1"	40	27	6,35
32 - 1 1/4"	49	34	6,35
40 - 1 1/2"	55	41	6,35
50 - 2"	66	51	6,35
65 - 2 1/2"	79	60	6,35
80 - 3"	94	76	6,35
100 - 4"	123	102	6,35

Service gasket for fittings type:



□ SPECIAL O-RING

O-RING PERFLUOROELASTOMER FFKM STANDARD AND SPECIAL

O-rings in FFKM perfluoroelastomer have an exceptional resistance to chemical attack from gases and corrosive substances at high temperatures.

FFKM also has an excellent resistance to extreme temperatures from -10°C to $+260^{\circ}\text{C}$ and some special compounds can operate over 300°C .

It has resistance to almost all chemicals, including inorganic acids, alkaline substances, ketones, esters, alcohols, fuels and hot water and is used for applications in critical chemical location.

Perfluoroelastomers are ideal in chemicals, petrochemicals, for the production of semiconductors and analytical tools and process. Perfluoroelastomers are widely used in critical applications such as the production of semiconductor chips, the jet engines etc.

Temperature resistance:

Standard compound: -25°C (-13°F) to 316°C (600°F)

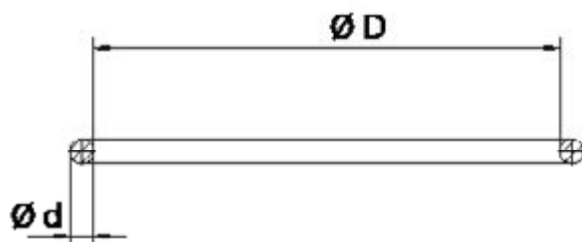
Hardness (Shore A): 65 to 90

Features:

Perfluoroelastomer (FFKM) combines the hardness of an elastomeric material with the chemical inertia of Teflon®. Perfluoroelastomer is resistant to almost all chemicals.

limitations:

Resistant to virtually all chemicals except for some fluorinated solvents, such as halogenated freon, uranium hexafluoride and molten or gaseous alkali metals.



DIMENSIONS ACCORDING TO THE STANDARD

American Standard: AS 568A

Metric Dimension: DIN 3771 - ISO 3601/1



☐ SPECIAL O-RING

ENCAPSULATED O-RING FEP SILICONE / VITON® - PFA SILICONE / VITON®

Encapsulated O-rings are consisting of an inner core elastomer perfectly coated with FEP or PFA fluoropolymer. Basically the two types of products differ for a different resistance to temperature and abrasion.

The inner core is Viton® or Silicone.

They are used where is required a high chemical resistance and purity product.

Used in industries:

- Chemical.
- Petrochemical.
- Food.
- Pharmaceutical.

Encapsulated O-rings are available in sections from 1.78 mm to 25.4 mm. The only size limitations are for small diameters.

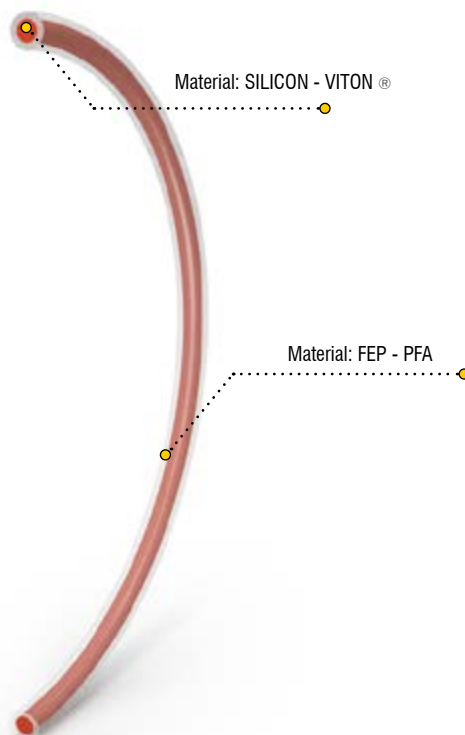
FEP operating temperature:

- FEP / Silicon: -60 ° C to + 200 ° C
- FEP / Viton®: -20 ° C to + 200 ° C

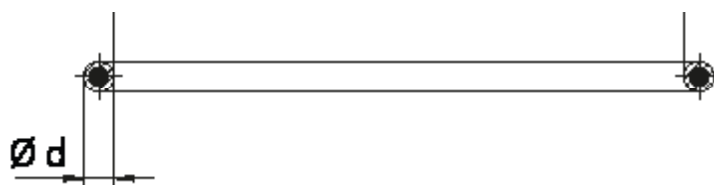
PFA operating temperature:

- PFA / Silicon: -60 ° C to + 260 ° C
- PFA / Viton®: -20 ° C to + 200 ° C

this type of O-ring provides a greater resistance to abrasion.



DIMENSIONS ACCORDING TO THE STANDARD - AS 568A





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Телефоны: +7 (495) 7774788, 7489626, 5007155, 54 Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by







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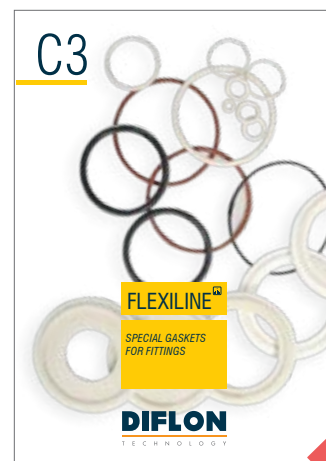


FLEXILINE 

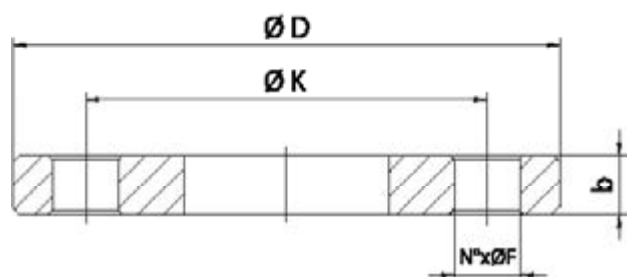
**OPTIONALS
FOR INOX
FITTINGS**

DIFLON

	EN 1092-01 TYPE 02 FLANGE	119
	150 IBS ANSI FLANGE	120
	DIN 11851 FERRULE	121
	SMS 1145 FERRULE	122
	DIN 2817 CLAMPS FOR RUBBER HOSES	123
	BS 4825 CLAMPS	124



 **EN 1092-01 TYPE 02 FLANGE**



MATERIAL: ON DEMAND

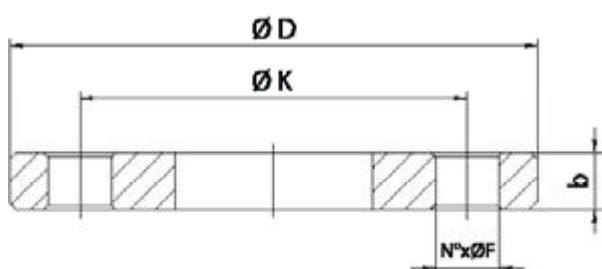


DN	Ø D	Ø k	b	Ø F	N°
15	95	65	12	14	4
20	105	75	14	14	4
25	115	85	14	14	4
32	140	100	16	18	4
40	150	110	16	18	4
50	165	125	18	18	4
65	185	145	18	18	4
80	200	160	20	18	8
100	220	180	22	18	8

Service optional for fittings type:



150 IBS ANSI FLANGE



MATERIAL: ON DEMAND

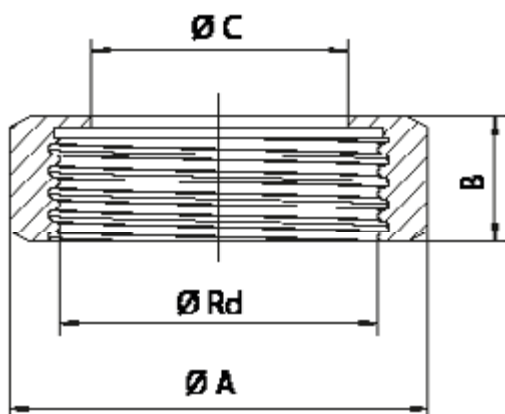


DN	Ø D	Ø k	b	Ø F	N°
1/2"	89	60,3	11,2	15,9	4
3/4"	98,5	69,9	12,7	15,9	4
1"	170,9	79,4	14,3	17,5	4
1 1/4"	117,5	88,9	15,9	20,6	4
1 1/2"	127	98,4	17,5	22,2	4
2"	152,4	120,7	19,1	25,4	4
2 1/2"	177,8	139,7	22,3	28,6	4
3"	190,5	152,4	23,9	30,2	4
4"	228,6	190,5	23,9	33,3	8

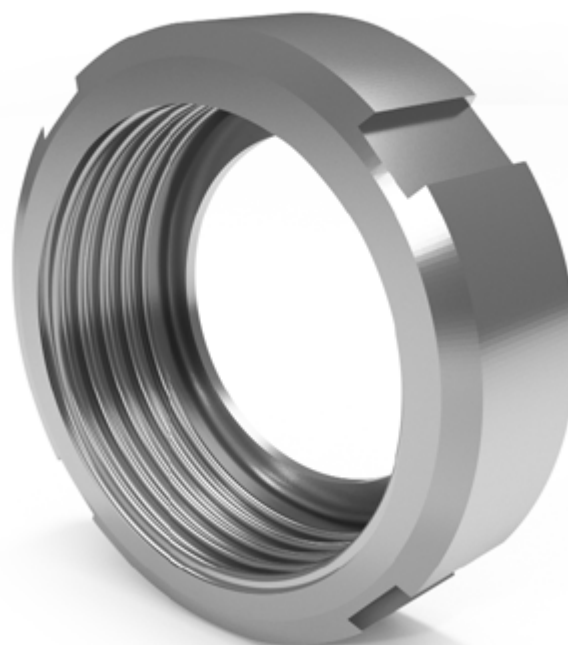
Service optionals for fittings type:



 **DIN 11851 FERRULE**



MATERIAL: AISI 316L - AISI 304L

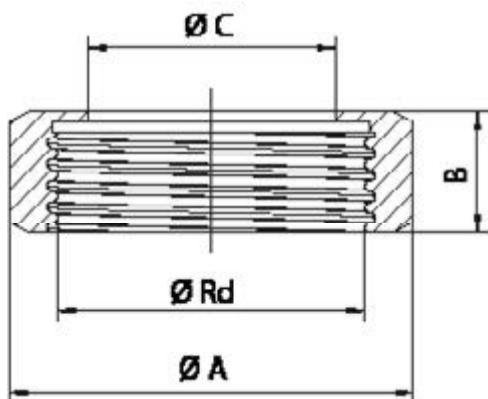


DN	Ø A	B	Ø C	Ø Rd
15 - 1/2"	44	18	25	34 x 1/8
20 - 3/4"	54	21	31	44 x 1/6
25 - 1"	63	21	36	52 x 1/6
32 - 1 1/4"	70	21	42	58 x 1/6
40 - 1 1/2"	78	21	49	65 x 1/6
50 - 2"	92	22	62	78 x 1/6
65 - 2 1/2"	112	25	80	95 x 1/6
80 - 3"	127	30	94	110 x 1/4
100 - 4"	148	31	115	130 x 1/4

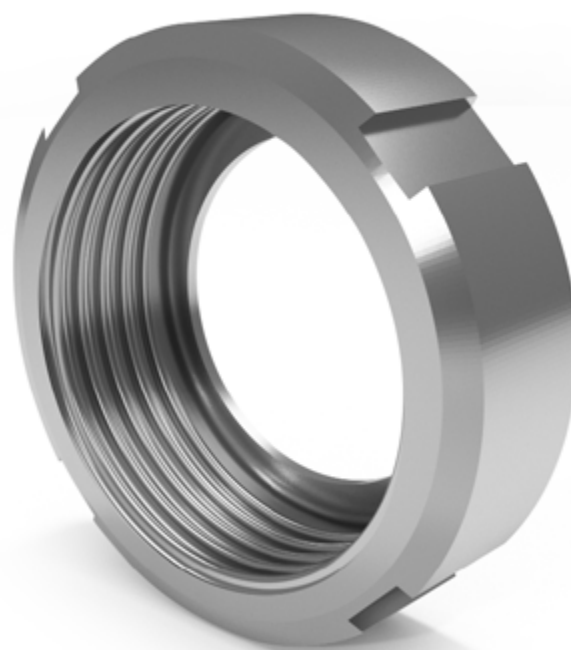
Service optionals for fittings type:



□ SMS 1145 FERRULE



MATERIAL: AISI 316L - AISI 304L

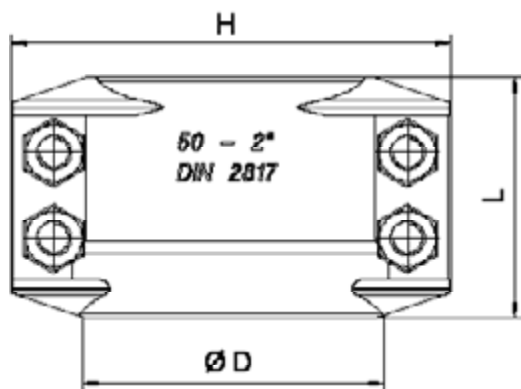


DN	Ø A	B	Ø C	Ø Rd
25 - 1"	51	20	32	40 x 1/6
32 - 1 ¼"	60	22	40	48 x 1/6
40 - 1 ½"	74	25	48	60 x 1/6
50 - 2"	84	26	61	70 x 1/6
65 - 2 ½"	100	30	74	85 x 1/6
80 - 3"	114	32	87	98 x 1/6
100 - 4"	140	32	113	125 x 1/4

Service optionals for fittings type:



DIN 2817 CLAMPS FOR RUBBER HOSES



MATERIAL: AISI 316L

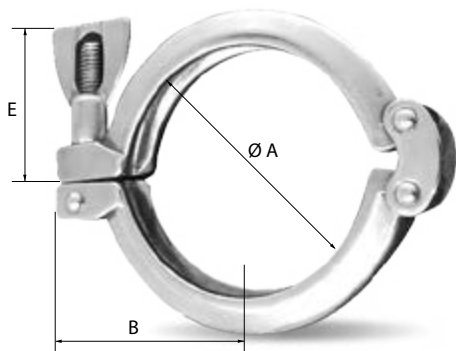


DN	Ø D	H	L	Bolts q.ty
15 - 1/2"	22-24	56	50	4xM6x20
20 - 3/4"	30-33	65	50	4xM6x20
25 - 1"	36-39	73	50	4xM6x20
32 - 1 1/4"	43-46	75	50	4xM6x20
40 - 1 1/2"	50-52	83	50	4xM6x20
50 - 2"	64-67	103	57	4xM8x25
65 - 2 1/2"	78-82	118	75	4xM8x25
80 - 3"	89-93	131	77	4xM8x25
100 - 4"	114-119	164	120	4xM10x40

Service optionals for fittings type:



BS 4825 CLAMPS



MATERIAL: AISI 316L



DN	Ø A	E	B
15 - 1/2"	27	35	27
20 - 3/4"	27	35	27
25 - 1"	53,4	53	43
32 - 1 1/4"	53,4	53	43
40 - 1 1/2"	53,4	53	43
50 - 2"	67	53	50
65 - 2 1/2"	80,4	53	56,5
80 - 3"	94	53	65
100 - 4"	122	53	85

Service optionals for fittings type:





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Contact

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Our Ref. Nr.

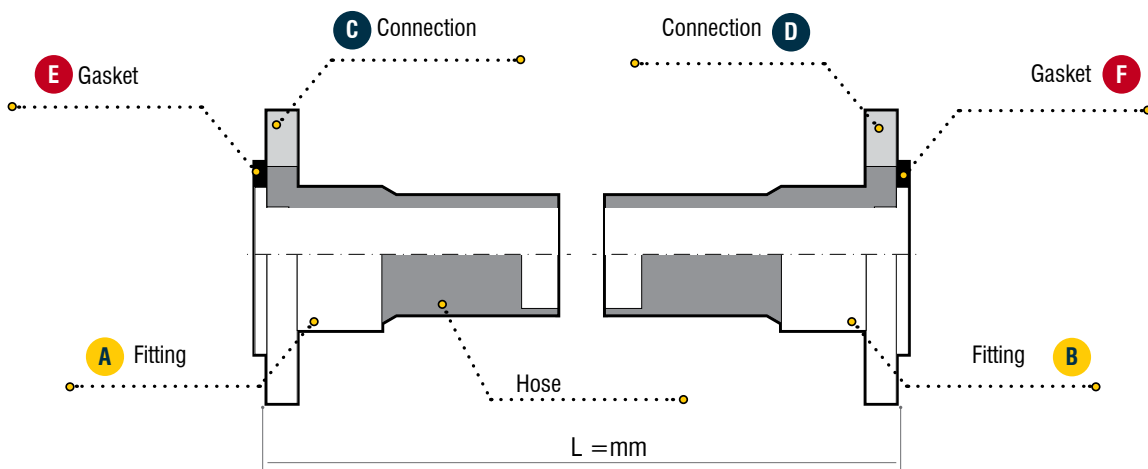
Name:

Tel. / Phone:

Mail:

Products Request / Additional notes

Construction framework of the hose finished



In the pages of catalogs you will find the symbol that brings you back to the index of the section



Specialist in fluoropolymer lining

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TECHNOLOGY

DIFLON Technology S.r.l.

Head Office:

Piazza Castello, 26 - 20121 Milano

Factory:

Via Sicilia, 8

24060 Carobbio degli Angeli (Bg)



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Chemical Resistance Materials



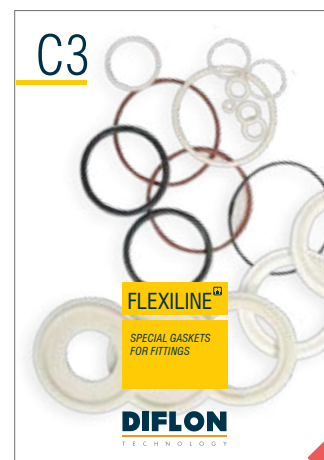


Chemical resistance of materials

Overview of the chemical resistance of plastics, rubber bands and metal in the catalog Diflon.

You can request an individual consultation service for all types of processed products, our technical department will be happy to answer

In the pages of catalogs you will find the symbol that brings you back to the index of the section





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Materials chemical resistance chart*

	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Acetic acid, diluite, 10%	B	C	C	C	A	C	A	A	B	B	A	A	A	A	A	B	AB
Acetic acid glacial	C	X	X	X	B	C	B	A	C	X	A	A	A	A	A		
Acetic acid anhydride	C	C	B	B	B	A	I	B	I	X	A	A	A	A	A	AB	A
Acetone	B	C	B	X	A	B	A	A	X	X	A	A	A	A	A	A	A
Acetylene	A	A	B	A	A	B	A	A	C	A	A	A	A	A	A	A	A
Air 68°F (20°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Air 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A		
Aluminium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	B/X
Aluminium fluoride 150°F (65°C)	A	A	A	A	A	A	A	A	B	I	A	A	A	A	A	X	C/X
Aluminium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Alums 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	B	AB
Ammonia gas, anhydrous	A	A	A	A	A	A	A	A	I	X	A	A	A	A	A	A	A
Ammonia 10%water solution	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonia 30%water solution	B	B	B	A	A	B	A	A	C	A	A	A	A	A	A	A	A
Ammonium chloride	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	AB	AB
Ammonium hydroxide	C	B	B	B	A	A	A	A	C	B	A	A	A	A	A	A	A
Ammonium nitrate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate monobasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate dibasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate tribasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Amyl acetate	B	X	X	X	B	X	A	B	X	X	A	A	A	A	A	A	A
Amyl alcohol	A	A	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A
Aniline, Aniline oil	X	X	C	X	A	X	C	B	X	A	A	A	A	A	A	A	A
Aniline, dyes	B	B	B	X	A	B	C	A	X	B	A	A	A	A	A	A	A
Asphalt	X	X	B	B	X	B	X	X	I	A	A	A	A	A	A	A	A

Legend
 A = Good Resistance
 B = Fair Resistance
 C = Poor Resistance;
 X = Not Recommended
 I = Insufficient Information



Materials chemical resistance chart*

	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Barium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Barium hydroxide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Barium sulfide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	AB
Beer	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Beet sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Benzene, Benzol	X	X	X	X	X	X	X	X	X	A	A	A	A	A	A	A	A
Benzine, petroleum ether	I	I	I	I	I	I	I	I	X	A	I	B	A	A	A	A	A
Benzine, petroleum naphtha	X	X	C	A	X	B	X	X	X	A	A	B	A	A	A	A	A
Black sulfate liquor	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A	AB
Blast furnace gas	C	C	A	C	C	C	C	C	A	A	A	A	A	A	A		
Borax	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Boric acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Bromine	X	X	X	X	X	C	X	X	X	A	X	X	A	A	A	NR	NR
Butane	X	X	A	A	X	A	X	X	X	A	A	A	A	A	A	A	A
Butyl acetate	X	X	X	X	B	X	B	B	X	X	A	A	A	A	A	B	A
Butyl alcohol, Butanol	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A
Calcium bisulfate	C	C	A	A	B	A	B	A	C	A	A	A	A	A	A	B	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	B
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	AB
Calcium hypochlorite	X	X	X	X	A	B	A	A	C	A	A	A	A	A	A	X	AB
Caliche liquors	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	X	A	A	A	A	A	A	A	A
Carbon dioxide, dry-wet	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	B
Carbon monoxide 140°F (60°C)	C	C	C	C	C	B	C	A	A	A	A	A	A	A	A	A	A

Legend
 A = Good Resistance
 B = Fair Resistance
 C = Poor Resistance;
 X = Not Recommended
 I = Insufficient Information



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Materials chemical resistance chart*

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Carbon tetrachloride	X	X	X	C	X	X	X	X	X	A	A	C	A	A	A	A	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	B	B	X	X	A	I	A	A	X	X	A	A	A	A	A	A	A
CFC-12	X	X	A	A	B	I	B	C	I	C	I	I	A	A	A		
China wood oil, tung oil	X	X	B	A	A	B	A	C	X	A	A	A	A	A	A	A	A
Chlorine, dry/wet	X	X	X	X	X	C	X	X	X	B	C	X	A	A	A	A	AB
Chlorinated solvents	X	X	X	X	X	X	X	X	X	A	A	B	A	A	A	AB	AC
Chloroacetic acid	X	C	C	C	X	A	I	A	I	X	A	A	A	A	A	AB	A
Chlorosulfonic acid	X	X	C	C	X	X	X	X	X	X	C	X	A	A	A	B	B
Chromic acid	X	X	X	X	C	A	I	I	C	A	A	C	A	A	A	C	BC
Citric acid	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	AB
Coke oven gas	X	X	X	X	X	A	I	I	B	A	A	X	A	A	A	A	A
Copper chloride 150°F (65°C)	C	A	B	A	A	B	A	A	A	A	A	A	A	A	A	X	X
Copper sulfate 150°F (65°C)	C	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Corn oil	X	C	B	A	A	B	C	C	A	A	A	A	A	A	A	A	A
Cottonseed oil	X	C	B	A	A	B	C	C	A	A	A	A	A	A	A	A	A
Creosote, coal tar	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Creosote, coal tar wood	X	X	B	A	X	I	X	X	X	A	A	A	A	A	A	A	AB
Creosols, cresylic acid	C	X	X	C	C	B	X	X	I	A	A	B	A	A	A	A	A
Dichlorobenzene	X	X	X	X	X	X	X	X	X	A	X	C	A	A	A	A	A
Dichloroethylene	X	X	X	X	X	X	X	X	X	A	C	X	A	A	A	A	A
Diesel fuel	X	X	C	A	X	B	X	X	X	A	B	B	A	A	A	A	A
Diethanolamine 20%	C	X	I	I	A	X	A	A	X	X	A	A	A	A	A	A	A
Diethylamine	B	B	B	C	B	C	B	B	B	X	A	A	A	A	A	A	A
Diisopropylamine	B	I	I	B	I	C	I	I	I	I	A	A	A	A	A	A	A
Diocetylphthalate	X	X	X	X	B	X	B	A	X	A	A	A	A	A	A	A	A

Legend
 A = Good Resistance
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Materials chemical resistance chart*

	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Ethers	X	X	X	X	X	X	C	B	X	X	A	B	A	A	A	A	A
Ethyl acetate	X	X	X	X	B	X	B	A	B	X	A	A	A	A	A	A	A
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	B	B	B	B	B	I	B	B	C	X	A	A	A	A	A	A	AB
Ethyl chloride	X	X	X	X	B	X	C	C	C	A	A	C	A	A	A	A	A
Ethyl glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Ferric chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X
Ferric sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	AB	A
Formaldehyde	B	B	B	C	A	A	A	A	B	X	A	A	A	A	A		
Formic acid	A	A	C	B	A	A	A	A	C	X	A	A	A	A	A	B	B
Fuel oil	X	X	A	A	X	B	X	X	X	A	A	A	A	A	A	A	A
Furfural	X	C	C	X	A	B	C	B	X	X	A	I	A	A	A	X	A
Gasoline, unleaded	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gasoline + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gasoline Hi Test + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gelatin	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue	B	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	B	X	A	A	A	B	A	A	I	X	A	I	A	A	A		
Hydraulic fluids: Petroleum	X	X	B	A	X	B	X	X	C	A	I	A	A	A	A	A	A
Hydraulic fluids: Phosphate ester alkyl	X	X	C	X	A	X	A	A	X	I	I	I	A	A	A	A	A
Hydraulic fluids: Phosphate ester aryl	X	X	X	X	C	X	C	C	X	I	I	I	A	A	A		
Hydraulic fluids: Phosphate ester blends	X	X	X	X	X	X	C	C	X	A	I	I	A	A	A		

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Hydraulic fluids: Water glycol	A	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A
Hydrobromic acid	C	X	C	C	A	A	A	A	X	A	I	A	A	A	A	X	X
Hydrochloric acid	B	B	B	C	B	B	B	A	X	A	A	A	A	A	A	X	X
Hydrocyanic acid	B	B	C	B	C	A	C	B	B	A	A	A	A	A	A	AB	A
Hydrofluoric acid	X	X	X	X	C	A	B	B	X	X	A	B	A	A	A	B	AB
Hydrofluosilicic acid	A	B	B	B	A	I	A	A	I	A	I	A	A	A	A	X	AB
Hydrogen gas 140°F (60°C)	B	A	A	A	A	I	A	A	C	A	A	A	A	A	A	A	A
Hydrogen peroxide	X	X	C	C	C	C	C	B	A	A	I	C	A	A	A	AB	A
Hydrogen sulfide, dry	C	C	B	C	A	A	A	A	X	X	A	A	A	A	A	AC	A
Hydrogen sulfide, wet	C	C	B	C	A	A	A	A	X	X	A	A	A	A	A	A	A
Isobutyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Isopropyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Isooctane	X	X	B	A	X	A	X	X	X	A	A	A	A	A	A	A	A
Kerosene	X	X	B	A	X	C	X	X	X	A	A	A	A	A	A	A	A
Lacquers	X	X	X	X	C	X	X	X	X	X	A	B	A	A	A	A	A
Lacquers solvents	X	X	X	X	C	X	X	X	X	X	A	B	A	A	A	A	A
Lactic acid	C	C	C	C	C	A	C	B	A	A	A	A	A	A	A	B	A
Linseed oil	C	C	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A
Lubricating oil, crude	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Lubricating oil, refined	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Magnesium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A
Magnesium hydroxide 150°F (65°C)	A	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Magnesium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercuric chloride	B	B	C	B	A	A	A	A	A	A	A	A	A	A	A	X	X
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Methyl alcohol, methanol	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A

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	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Methyl chloride	X	X	X	X	C	X	X	C	X	B	C	C	A	A	A	A	A
Methyl ethyl ketone	X	X	X	X	B	X	A	A	X	X	A	A	A	A	A	A	A
Methyl isopropyl ketone	X	X	X	X	B	X	C	C	C	X	A	A	A	A	A	A	A
Milk	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MTBE	I	I	I	I	I	I	I	I	I	X	A	I	I	I	I		
Mineral oils	X	X	B	A	X	B	X	X	A	A	A	A	A	A	A	A	A
Natural gas	C	C	A	A	X	A	X	X	C	A	A	A	A	A	A	A	A
Nickel chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B
Nickel sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitric acid, crude	X	X	X	X	X	C	X	X	X	B	X	I	A	A	A	A	A
Nitric acid, diluted 10%	X	X	B	X	B	A	C	A	C	A	A	A	A	A	A	X	X
Nitric acid, concentrated 70%	X	X	X	X	C	C	X	C	X	B	C	X	A	A	A		
Nitrobenzene	X	X	X	X	X	X	X	X	C	B	A	A	A	A	A	A	A
Oleic acid	X	X	C	C	B	B	B	C	X	B	A	A	A	A	A	A	A
Oleum	X	C	C	C	X	B	X	C	I	A	X	X	A	A	A		
Oxalic acid	B	C	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Oxygen	B	C	A	C	A		A	A	X	B	A	A	A	A	A	A	A
Palmitic acid	X	B	A	A	B	B	B	B	X	A	A	A	A	A	A	AB	A
Perchloroethylene	X	X	X	C	X	X	X	X	C	A	C	C	A	A	A	A	A
Petroleum oils and crude 200°F (95°C)	X	X	B	A	X	C	X	X	X	B	C	X	A	A	A	A	A
Phosphoric acid, crude	C	C	C	C	C	A	B	A	C	A	A	A	A	A	A	X	X
Phosphoric acid, pure 45%	C	C	C	C	C	A	B	A	C	A	A	A	A	A	A	A	A
Picric acid, molten	C	C	C	C	C	I	I	I	X	A	C	X	A	A	A	A	A
Picric acid, water solution	A	C	B	B	A	A	I	I	I	A	A	A	A	A	A	X	X
Potassium chlorite	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium hydroxide to 50% at 140°F	B	B	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A
Sodium hypochlorite	X	X	C	C	A	B	A	A	B	A	A	C	A	A	A	NR	NR
Sodium metaphosphate	A	A	C	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Sodium nitrate	B	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium perborate	B	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Sodium peroxide	B	B	B	B	A	A	A	A	C	A	A	C	A	A	A	A	A
Sodium phosphate, monobasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium phosphate, dibasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium phosphate, tribasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	AB	A
Sodium silicate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NR	AB
Sodium thiosulfate, "hypo"	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A	A	A
Soybean oil	X	C	B	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Stannic chloride	A	A	A	A	B	A	B	A	B	A	A	A	A	A	A	X	X
Steam 450°F (230°C)	X	X	X	X	B	X	B	B	I	X	X	X	A	A	A	A	A
Stearic acid	X	X	C	B	B	C	B	A	A	A	A	A	A	A	A	A	AB
Sulfur	X	X	A	X	A	A	A	A	B	A	A	A	A	A	A	A	A
Sulfur chloride	X	X	C	C	X	A	X	X	C	A	A	I	A	A	A	B	B
Sulfur dioxide, dry (GAS)	C	C	C	C	A	C	B	B	B	A	A	A	A	A	A	A	A
Sulfur trioxide, dry	X	C	C	C	B	C	B	B	A	X	X	A	A	A	A	AB	B
Sulfuric acid, 10%	C	C	B	C	A	A	A	A	X	A	A	A	A	A	A	A	A
Sulfuric acid, 11% - 75%	X	X	X	X	B	A	C	A	X	A	A	A	A	A	A	A	A

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Sulfurous acid	C	C	C	C	C	A	C	B	X	B	A	A	A	A	A	A	AC	B
Tannic acid	A	C	A	C	A	A	A	A	B	A	A	A	A	A	A	A	AB	A
Tar	X	X	C	C	X	C	X	X	B	A	X	I	A	A	A	A	A	A
Tartaric acid	A	C	C	C	B	A	B	B	A	A	A	A	A	A	A	A	A	A
Toluene, Toluol	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	A	A
Trichloroethylene	X	X	X	X	X	X	X	X	X	A	C	B	A	A	A	A	A	A
Turpentine	X	X	X	B	X	X	X	X	X	A	A	B	A	A	A	A	A	A
Urea, water solution	A	I	A	A	A	A	A	A	A	I	A	A	A	A	A	A	A	A
Vinegar	C	C	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vinyl acetate	X	X	X	X	A	X	B	A	X	X	I	A	A	A	A	A	A	A
Water, acid mine	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Water, fresh	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Water, distilled	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Xylene, xylol	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	A	A
Zinc chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NR	AB
Zinc sulfate	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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NOTA 1

The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use, such as and not limited to: temperature, concentration pressure, duration of exposure, stability of the fluid and possible contamination.

All application should always be tested: the compound should always be tested with the chemical it is going to handle.

Please note: all data based on 20 °C (70 °F) unless noted.



Chemical Resistance Materials

DIFLON

TECHNOLOGY

DIFLON Technology S.r.l.

Head Office:

Piazza Castello, 26 - 20121 Milano

Factory:

Via Sicilia, 8

24060 Carobbio degli Angeli (Bg)

Tel. +39 (0) 35 4491137

Fax +39 (0) 35 4491419

www.diflon.it - info@diflon.it

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

Телефоны: +7 (495) 7774788, 7489626, 5007155, 54 Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by