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The performance described in this catalog is not the specification value. Please conduct a pre-test at your company before using this product to check that the product matches with the purpose of use. Please note that descriptions are subject to change without notice for improving performances and changing specifications. 2016.4



Resin Hose Silicon Hose Sanitary Hoses





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# Resin Hose Silicon Hose Sanitary Hoses

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# STRAIGHT TYPE BRAIDED HOSE



# **201** Type

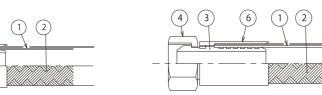
Item	Name	Item	Name
1	Tube	3	Nipple
2	Braid	4	Press cover

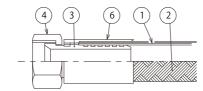
# ■203 Type

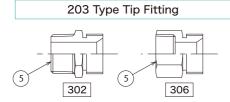
Item	Name	Item	Name
1	Tube	4	Union Nut
2	Braid	_	302:Union Nipple
3	Union Sleeve	5	306: Union Socket
		6	Press Cover

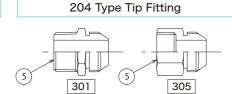
# **■204 Type**

Item	Name	Item	Name
1	Tube	4	Union Nut
2	Braid	_	301:Union Nipple
3	Union Sleeve	5	305:Union Socket
		6	Press Cover





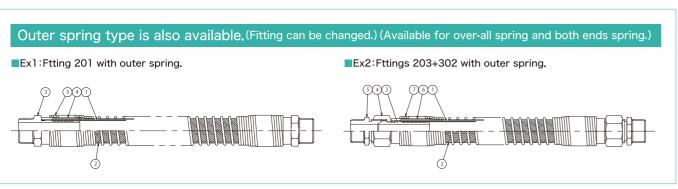




- Other sizes than listed on the right table (P. 02), can be produced. Please inquire us.
- Standard material of tube is PTFE.
- Also producible by PFA but hose ID/OD will slightly change.
- Anti-Static type is also available. For size and dimension. Please inquire us.

Name	Material			
Tube PTFE·PFA·(Anti-Static type is also available)				
Braid	SUS304·SUS316·SUS316L(Special braid available)			
Fitting	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.			
Press Cover	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.			

- Over-all length can be shortened as far as possible. Please consult us.
- Special fittings are also available. Please inquire us.
- Without Braid type is available. Please inquire us.
- Depending on application, we manufacture special hose.
- ■Max. Working Pressure shown on the right table (P.02) is at normal temperature.



# DTF-1000 For Low/Middle Pressure (Single Braid)

Standard Specification Other sizes than listed on the below table, can be produced, Please inquire us,

N	IB	Hose Hose		Max. Working		Max.
Α	В	ID	OD	Pressure (Mpa)	Radius(mm)	Length (m)
6A	1/8B	4.0	7.0	20.58	50	100
8A	1/4B	6.0	9.0	20.58	55	100
10A	3/8B	8.0	11.0	17.15	70	100
15A	1/2B	12.0	15.2	9.80	100	50
20A	3/4B	19.0	22.2	4.90	200	30
25A	1B	25.0	29.2	5.88	400	20
32A	1-1/4B	33.0	37.2	3.92	1,500	6
40A	1-1/2B	39.0	43.6	0.98	2,000	6
50A	2B	50.0	55.1	0.98	2,500	6
65A	2-1/2B	65.0	70.1	0.98	_	6
80A	3B	77.0	83.0	0.98	_	6
100A	4B	102.0	108.0	0.98	_	4

Special Specification			Other sizes than listed on the below table, can be produced. Please inquire us.				
NB		Hose		Max. Working	Min. Bending	Max.	
Α	В	ID	OD	Pressure (Mpa)	Radius(mm)	Length(m)	
6A	1/8B	3.0	6.0	20.58	50	100	
10A	3/8B	9.0	12.0	14.70	85	50	
104		10.0	13.0	12.74	95	50	
15A	1/2B	14.0	17.2	7.84	170	50	
		16.0	19.2	5.88	180	50	
20A	3/4B	19.0	23.2	7.84	210	30	
		20.0	24.2	7.35	250	30	
25A	1B	22.0	26.2	6.86	280	20	

# DTF-1500 For High Pressure (Double Braid)

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB		Hose ID Hose OD		Max. Working	Min. Bending	Max. Length (m)
А	В	1 1036 10	I lose ob	Pressure (Mpa)	ressure(Mpa) Radius(mm)	
8A	1/4B	6.0	10.0	29.40	55	100
10A	3/8B	8.0	12.0	24.50	70	100
15A	1/2B	12.0	17.4	19.60	110	20
20A	3/4B	19.0	24.4	15.68	200	20
25A	1B	22.0	27.4	14.70	280	20
32A	1-1/4B	25.0	30.4	11.76	400	20

Special Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB		Hose ID	Hose OD	Max. Working	Min. Bending	Max.
Α	В	1100015	11000 02	Pressure (Mpa)	Radius (mm)	Length(m)
104	2 /00	9.0	14.0	24.50	90	50
10A	3/8B	10.0	15.4	20.58	100	50
15A	1/2B	10.0	15.4	20.58	100	50

# DTF-1600 For Super High Pressure (Multiple Braid)

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB		Hose ID Hose OD		Max. Working	Min. Bending	Max.
A	В			Pressure (Mpa)	Radius (mm)	Length(m)
8A	1/4B	6.0	12.0	34.50	55	100
10A	3/8B	8.0	14.8	34.50	70	100
15A	1/2B	12.0	19.8	24.50	110	20
20A	3/4B	19.0	26.8	24.50	200	20
25A	1B	22.0	29.8	24.50	280	20
32A	1-1/4B	25.0	32.8	19.60	400	20

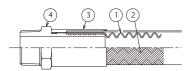
Special Specification	Other sizes than listed on the below table, can be produced. Please inquire us.	

NB		Hose ID Hose OD		Max. Working	Min. Bending	Max.	
Α	В			Pressure (Mpa)	Radius (mm)	Length(m)	
104	2 /00	9.0	16.4	29.40	90	50	
10A	3/8B	10.0	17.8	27.50	100	50	
15A	1/2B	10.0	17.8	27.50	100	50	



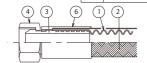
# ■201 Type

Item	Name	Item	Name
1	Tube	3	Nipple
2	Braid	4	Press cover

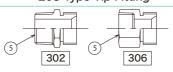


# **■**203 Type

Item	Name	Item	Name
1	Tube	4	Union Nut
2	Braid	5	302:Union Nipple
3	Union Sleeve	່ວ	306:Union Socket
		6	Press Cover

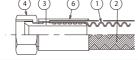


203 Type Tip Fitting

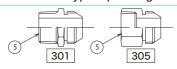


# ■204 Type

Item	Name	Item	Name
1	Tube	4	Union Nut
2	Braid	-	301:Union Nipple
3	Union Sleeve	5	305: Union Socket
		6	Press Cover



204 Type Tip Fitting



DTF-1800 DTF-1900

)	For Low/ Middle Pressure	(Single Braid)
)	For High Pressure	(Multiple Braid)

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

can be produced. I lease inquire us.							
NB A B		Hose ID (squeezed)	Hose OD		Max. Working Pressure (Mpa)	Min. Bending Radius(mm)	Max. Length(m)
				· 1	- 1 -		
6A	1/8B	2.5	6.0	4.0	2.94	25	3
A8	1/4B	4.0	8.0	6.0	2.94	30	6
10A	3/8B	8.0	12.0	10.0	1.96	35	6
15A	1/2B	9.0	14.0	12.0	1.47	40	6
20A	3/4B	14.0	21.0	19.0	0.98	40	6
25A	1B	19.0	28.0	25.0	0.98	50	6
32A	1-1/4B	25.0	36.0	33.0	0.98	70	5
40A	1-1/2B	32.0	42.0	39.0	0.98	90	5
50A	2B	42.0	53.5	50.0	0.98	120	5
65A	2-1/2B	55.0	68.5	65.0	0.98	250	5
80A	3B	65.0	81.0	77.0	0.98	300	5
100A	4B	90.0	106.0	102.0	0.98	400	3

Special Specification Other sizes than listed on the below table,

can be produced. Please inquire us.							
NB A B		Hose ID (squeezed)	Hose OD	Hose ID (opening)	Max. Working Pressure (Mpa)	Min. Bending Radius (mm)	Max. Length(m)
6A	1/8B	4.0	8.0	6.0	2.94	30	6
8A	1/4B	6.0	10.0	8.0	1.96	35	6
10A	3/8B	9.0	14.0	12.0	1.47	40	6
		12.0	18.0	16.0	0.98	40	6
15A	1/2B	14.0	21.0	19.0	0.98	40	6
IDA	1/20	14.0	22.0	19.0	1.47	45	6
		14.0	23.0	20.0	1.47	45	6
		14.0	22.0	19.0	1.47	45	6
20A	3/4B	14.0	23.0	20.0	1.47	45	6
		19.0	28.0	25.0	0.98	50	6
25A	1B	17.0	25.0	22.0	0.98	50	6
		25.0	36.0	33.0	0.98	70	5
32A	1-1/4B	32.0	42.0	39.0	0.98	90	5
40A	1-1/2B	42.0	53.5	50.0	0.98	120	5
50A	2B	50.0	64.5	61.0	0.98	200	5
AUC		55.0	68.5	65.0	0.98	250	5
65A	2-1/2B	65.0	81.0	77.0	0.98	300	5
80A	3B	71.0	93.5	89.5	0.98	350	4
100A	4B	97.0	116.0	112.0	0.98	500	3

Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Fitting	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.
Press Cover	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

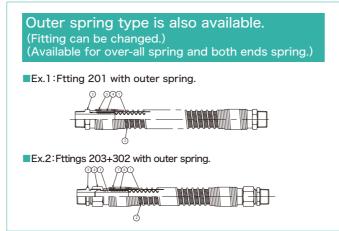
- Other sizes than listed on the left table, can be produced. Please inquire us.
- Standard material of tube is PTFE.

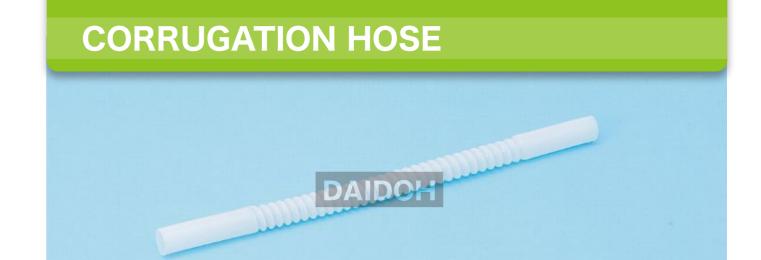
  Also producible by PFA but hose ID/OD will slightly change.

  Anti-Static type is also available.
- For size and dimension, please inquire us.

  Over-all length can be shortened as far as possible. Please consult us.
- Special fittings are also available. Please inquire us.

  Without Braid type is available. Please inquire us.
- ■Vacuum type is also vailable.
- Pressure shows for single braid.
- Max. Working Pressure shown on the left table is at normal temperature.







Name	material
1	Tube

# DTF-100

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

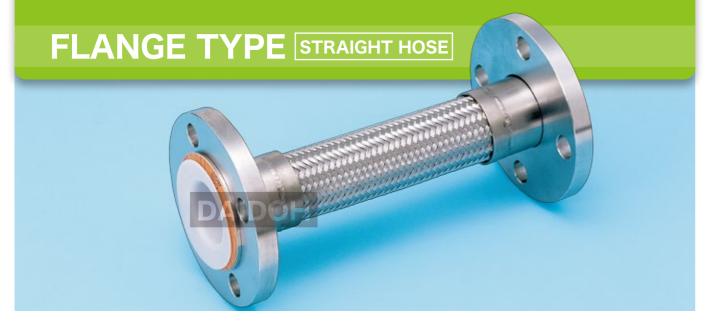
Hose opening ID Hose opening OD		Hose ID (squeezed)	Hose OD	Min. Bending Radius (mm)	Max. Length(m)
4.0	6.0	2.5	6.0	25	3
6.0	8.0	4.0	8.0	30	6
8.0	10.0	6.0	10.0	35	6
9.0	11.0	7.0	11.0	35	6
10.0	12.0	8.0	12.0	35	6
12.0	14.0	9.0	14.0	40	6
13.0	15.0	10.0	15.0	40	6
14.0	16.0	11.0	16.0	40	6
15.0	17.0	12.0	17.0	40	6
16.0	18.0	13.0	18.0	40	6
17.0	19.0	13.0	19.0	40	6
19.0	21.0	14.0	21.0	40	6
19.0	22.0	14.0	22.0	45	6
20.0	23.0	14.0	23.0	45	6
22.0	25.0	17.0	25.0	50	6
25.0	28.0	19.0	28.0	50	6
28.0	31.0	22.0	31.0	60	5
33.0	36.0	25.0	36.0	70	5
39.0	42.0	32.0	42.0	90	5
50.0	53.5	42.0	53.5	120	5
61.0	64.5	50.0	64.5	200	5
65.0	68.5	55.0	68.5	250	5
77.0	81.0	65.0	81.0	300	5
89.5	93.5	71.0	93.5	350	4
102.0	106.0	90.0	106.0	400	3
112.0	116.0	97.0	116.0	500	3

- ■Other sizes than listed on the above table, can be produced. Please inquire us. ■Anti-Static type is also available. For size and dimension. please inquire us.
- Standard material of tube is PTFE.
- Also producible by PFA but hose ID/OD will slightly change.
- Over-all length can be shortened as far as possible. Please consult us. ■Both end straight portion can be processed freely. Please consult us.

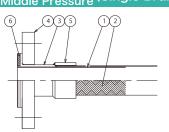


inch	mm
4.35×6.35	4×6
6.35×9.53	
7.53×9.53	8×10
9.53×12.7	
10.7×12.7	10×12
15.88×19.05	16×19
22.2×25.4	22×25









Item	Name	
1 Tube		
2	Braid	
3	Stub End	
4	Loose Flange	
5	Tube Ring	
6	Back-up Ring	

up to 100A (Multiple Braid)

Other sizes than listed on the below table,
can be produced. Please inquire us.

- Standard material of tube is PTFE.
- ■Also producible by PFA but hose ID/OD will slightly change.
- ■Anti-Static type is also available. For size and dimension. Please inquire us.
- Over-all length can be shortened as far as possible. Please consult us.
- Fitting fixing may change depending on over-all length.
- Pressure shows for single braid.
- Max. Working Pressure shown on the below table is at normal temperature.

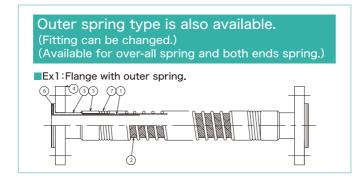
Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Flange	PVC·SS400·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.
Stub End	SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

Name

1 Tube

2 Multiple Braid 3 Stub End 4 Loose Flange

5 Tube Ring 6 Back-up Ring



DTF-2500 For Low/Middle Pressure (Single Braid)

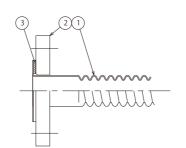
DTF-2400 For High Pressure up to 100A (Multiple Braid)

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

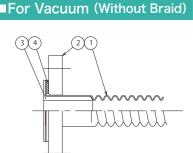
١	lB	Hose ID	Hose OD	,Hose ID	Max. Working Pressure (Mpa)	Min. Bending	Max.
Α	В	11036 10	11036 00	(opening)	Pressure (Mpa)	Radius (mm)	Length (m)
10A	3/8B	16.0	18.0	16.0	0.98	250	50
15A	1/2B	16.0	18.0	16.0	0.98	250	50
20A	3/4B	19.0	22.0	19.0	0.98	350	30
25A	1B	25.0	28.0	25.0	0.98	500	20
32A	1-1/4B	33.0	36.0	33.0	0.98	1,500	6
40A	1-1/2B	39.0	42.0	39.0	0.98	2,000	6
50A	2B	50.0	53.5	50.0	0.98	2,500	6
65A	2-1/2B	65.0	68.5	65.0	0.98	3,500	6
80A	3B	77.0	81.0	77.0	0.98	5,000	6
100A	4B	102.0	106.0	102.0	0.98	6,000	3
125A	5B	125.0	131.0	125.0	0.78	_	3
150A	6B	149.0	155.0	149.0	0.59	_	3
200A	8B	198.0	204.0	198.0	0.49	_	3
250A	10B	248.0	255.0	248,0	0.49	_	3



For Low Pressure (Without Braid)



1 Tube 2 Loose Flange	Item	Name
2 Loose Flange	1	Tube
	2	Loose Flange
3 Back-up Ring	3	Back-up Ring



	Item	Name
'	1	Tube
	2	Loose Flange
	3	Vacuum Sleeve
	4	Back-up Ring

DTF-2200 For Low Pressure (Without Braid)

DTFV-2200 For Vacuum (Without Braid)

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us,

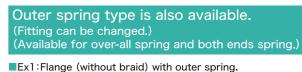
N	IB	Hose ID	Hose		Max. Working		Max,
Α	В	(squeezed)	OD	(opening)	Pressure (Mpa)	Radius(mm)	Length(m)
10A	3/8B	14.0	22.0	19.0	0.29	45	6
15A	1/2B	14.0	22.0	19.0	0.29	45	6
20A	3/4B	19.0	28.0	25.0	0.29	50	6
25A	1B	25.0	36.0	33.0	0.24	70	5
32A	1-1/4B	25.0	36.0	33.0	0.24	70	5
40A	1-1/2B	32.0	42.0	39.0	0.19	90	5
50A	2B	42.0	53.5	50.0	0.14	120	5
65A	2-1/2B	55.0	68.5	65.0	0.14	250	5
80A	3B	65.0	81.0	77.0	0.14	300	5
100A	4B	90.0	106.0	102.0	0.09	400	3
125A	5B	107.0	131.0	125.0	0.09	600	2
150A	6B	132.0	155.0	149.0	0.09	700	2
200A	8B	180.0	204.0	198.0	0.05	900	2
250A	10B	220.0	255.0	248.0	0.05	1,200	2

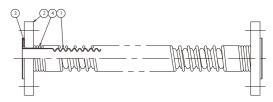
<b>Special Specification</b>	Other sizes than listed on the below table can be produced. Please inquire us.

N	IB	Hose ID	Hose		Max. Working		Max,
А	В	(squeezed)	OD	(opening)	Pressure (Mpa)	Radius (mm)	Length(m)
10A	3/8B	12.0	18.0	16.0	0.29	35	6
15A	1/2B	19.0	28.0	25.0	0.29	50	6
20A	3/4B	14.0	22.0	19.0	0.29	45	6
25A	1B	19.0	28.0	25.0	0.29	50	6
32A	1-1/4B	32.0	42.0	39.0	0.19	90	5
40A	1-1/2B	42.0	53.5	50.0	0.14	120	5
50A	2B	50.0	64.5	61.0	0.14	200	5
SUA	_ ZD	55.0	68.5	65.0	0.14	250	5
65A	2-1/2B	65.0	81.0	77.0	0.14	300	5
80A	3B	71.0	93.5	89.5	0.09	350	4
100A	4B	97.0	116.0	112.0	0.09	500	3

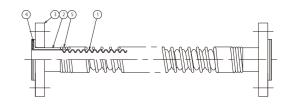
Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Flange	PVC·SS400·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

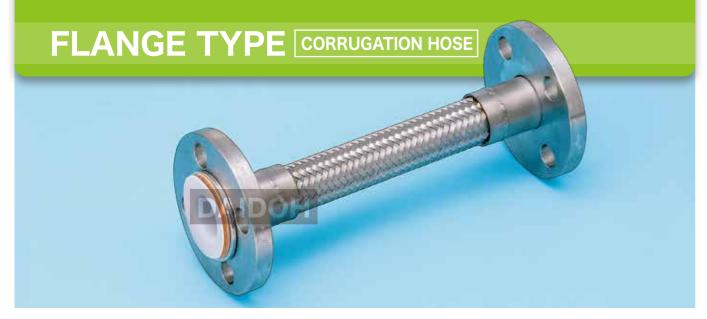
- Other sizes than listed on the left table, can be produced. Please inquire us.
- ■Also producible by PFA but hose ID/OD will slightly change. Anti-Static type is also available. For size and dimension, please inquire us.
- Standard material of tube is PTFE.
- Over-all length can be shortened as far as possible. Please consult us.
- Max. working temperature is 80°C.
- Max. Working Pressure shown on the left table is at normal temperature.





■Ex2:Flange (without braid) with outer spring.





# (Single Braid)

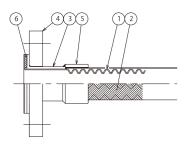
Item	Name	Item	Name
1	Tube	4	Loose Flange
2	Braid	5	Tube Ring
3	Stub End	6	Back-up Ring

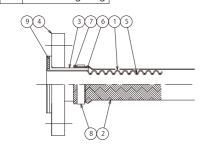
# Pressure up to 100A (Multiple Braid)

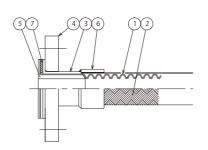
Item	Name	Item	Name
1	Tube	6	Neck Ring
2	Braid	7	Wire
3	Stub End	8	Hoop Band
4	Loose Flange	9	Back-up Ring
5	Reinforcing Ring		

# ■For Vacuum (Single Braid)

Item	Name	Item	Name
1	Tube	5	Vacuum Sleeve
2	Braid	6	Tube Ring
3	Stub End	7	Back-up Ring
4	Loose Flange		







DTF-2000 For Low/Middle Pressure (Single Braid)

DTF-2300 For High Pressure Up to 100A (Multiple Braid

DTFV-2000 For Vacuum

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

L N	IB .	Hose ID	Hose	Hose ID		Min. Bending	
Α	В	(squeezed)	OD	(opening)	Pressure (Mpa)	Radius(mm)	Length(m)
10A	3/8B	14.0	22.0	19.0	0.98	45	6
15A	1/2B	14.0	22.0	19.0	0.98	45	6
20A	3/4B	19.0	28.0	25.0	0.98	50	6
25A	1B	25.0	36.0	33.0	0.98	70	5
32A	1-1/4B	25.0	36.0	33.0	0.98	70	5
40A	1-1/2B	32.0	42.0	39.0	0.98	90	5
50A	2B	42.0	53.5	50.0	0.98	120	5
65A	2-1/2B	55.0	68.5	65.0	0.98	250	5
80A	3B	65.0	81.0	77.0	0.98	300	5
100A	4B	90.0	106.0	102.0	0.98	400	3
125A	5B	107.0	131.0	125.0	0.78	600	2
150A	6B	132.0	155.0	149.0	0.59	700	2
200A	8B	180.0	204.0	198.0	0.49	900	2
250A	10B	220.0	255.0	248.0	0.49	1,200	2

Special Specification Other sizes than listed on the below table, can be produced. Please inquire us.								
NB A B		Hose ID (squeezed)	Hose OD	Hose ID (opening)	Max. Working Pressure (Mpa)	Min. Bending Radius(mm)	Max. Length(m)	
10A	3/8B	12.0	18.0	16.0	0.98	35	6	
15A	1/2B	19.0	28.0	25.0	0.98	50	6	
20A	3/4B	14.0	22.0	19.0	0.98	45	6	
25A	1B	19.0	28.0	25.0	0.98	50	6	
32A	1-1/4B	32.0	42.0	39.0	0.98	90	5	
40A	1-1/2B	42.0	53.5	50.0	0.98	120	5	
50A	2B	50.0	64.5	61.0	0.98	200	5	
SUA	4D	55.0	68.5	65.0	0.98	250	5	
65A	2-1/2B	65.0	81.0	77.0	0.98	300	5	
80A	3B	71.0	93.5	89.5	0.98	350	4	
100A	4B	97.0	116.0	112.0	0.98	500	3	

Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Flange	PVC·SS400·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.
Stub End	SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

- Other sizes than listed on the left table, can be produced. Please inquire us.
- Standard material of tube is PTFE.
- ■Also producible by PFA but hose ID/OD will slightly change.
- Anti-Static type is also available.
- For size and dimension, please inquire us.
- Over-all length can be shortened as far as possible.
- Please consult us.
- For Vacuum type is also available.
- ■Under-ground use is also available.
- Fitting fixing may change depending on over-all length.
- Pressure shows for single braid.
- Max. Working Pressure shown on the left table is at normal temperature.

Outer spring type is also available. (Fitting can be changed.) (Available for over-all spring and both ends spring.)		
■Ex1:Flange with outer spring.		

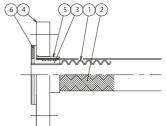


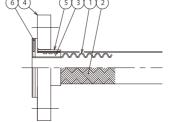
# For Low/Middle Pressure (Single Braid)

Item	Name	Item	Name
1	Tube	4	Loose Flange
2	Braid	5	Press Cover
3	Stub End	6	Back-up Ring

# ■For Vacuum (Single Braid)

Item	Name	Item	Name
1	Tube		Vacuum Sleeve
2	Braid	6	Tube Ring
3	Stub End		Back-up Ring
4	Loose Flange		



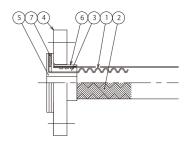


DTF-2100 For Low/Middle Pressure (Single Braid)

DTFV-2100 For Vacuum

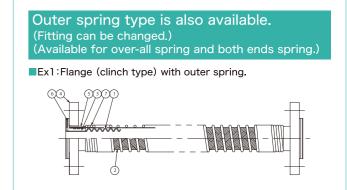
Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB	Hose ID (squeezed)	Hose OD	Hose ID (opening)	Max. Working Pressure (Mpa)	Min. Bending Radius (mm)	Max. Length(m)
20A	20.0	28	20.0	0.98	50	50
25A	25.0	34	25.0	0.98	60	50
32A	32.0	42	32.0	0.98	80	50
40A	37.0	47	37.0	0.98	100	50
50A	50.0	61	50.0	0.98	125	50
65A	63.0	82	63.0	0.98	175	30
80A	74.0	92	74.0	0.98	200	30
100A	100.0	125	100.0	0.98	250	20



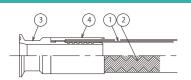
Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Flange	PVC·SS400·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc
Stub End	SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

- Other sizes than listed on the left table, can be produced. Please inquire us.
- Standard material of tube is PTFE.
- ■Also producible by PFA but hose ID/OD will slightly change.
- Anti-Static type is also available. For size and dimension, please inquire us.
- Over-all length can be shortened as far as possible.
- Please consult us.
- For Vacuum type is also available.
- ■Under-ground use is also available.
- Fitting fixing may change depending on over-all length.
- Pressure shows for single braid.
- Max. Working Pressure shown on the left table is at normal temperature.



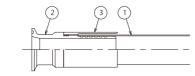


# Ferule (Single Braid)



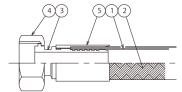
Item	Name
1	Tube
2	Braid
3	Ferule
4	Press Cover

# Ferule (Without Braid)



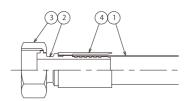
Item	Name
1	Tube
2	Ferule
3	Press Cover
	Item 1 2 3

# Sanitary Nut (Single Braid)



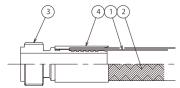
Item	Name
1	Tube
2	Braid
3	Sleeve
4	Sanitary Nut
5	Press Cover

# ■Sanitary Nut (Without Braid)



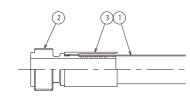
Item	Name
1	Tube
2	Sleeve
3	Sanitary Nut
4	Press Cover

# ■Sanitary Thread Seat (Single Braid)



Item	Name
1	Tube
2	Braid
3	Thread Seat
4	Press Cover

# ■Sanitary Thread Seat (Without Braid)



Item	Name
1	Tube
2	Thread Seat
3	Press Cover

# DTF-3100 Straight Hose Type

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB	Hose ID	Hose OD	Hose ID (opening)	Max. Working Pressure (Mpa)	Min. Bending Radius(mm)	Max. Length(m)
8A	12.0	15.2	10.5	7.84	170	50
10A	16.0	19.2	14.0	5.88	180	50
15A	19.0	23.2	17.5	7.35	250	30
1S	25.0	29.2	23.0	5.88	400	20
1-1/4S	33.0	37.2	29.4	3.92	1,500	6
1-1/2S	39.0	43.6	35.7	0.98 2,000		6
2S	50.0	55.1	47.8	0.98	2,500	6
2-1/2S	65.0	70.1	59.5	0.98	3,500	6
3S	77.0	83.0	72.3	0.98	5,000	6
4S	102.0	108.0	97.6	0.98	6,000	4

Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Fitting	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.
Press Cover	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

- Other sizes than listed on the left table, can be produced. Please inquire us.

  Standard material of tube is PTFE.

  Also producible by PFA but hose ID/OD will slightly change.

  Anti-Static type is also available. For size and dimension, please inquire us.

  Over-all length can be shortened as far as possible. Please consult us.

  Not applicable to vacuum.

  Without Braid type is available. Please inquire us.

  For the hose without braid, please use it at temperature 80°C or bellow.

  Max. Working Pressure shown on the left table is at normal temperature.

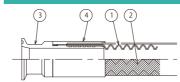
- Special fittings are also available. Please inquire us.

Outer spring type is also available. (Fitting can be changed.) (Available for over-all spring and both ends spring.) ■Ex1:Ferule with outer spring.



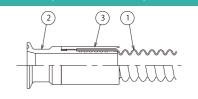
# SANITARY TYPE For Food • Pharmaceutical use Conformed to Food Sanitation Act CORRUGATION HOSE

# Ferule (Single Braid)



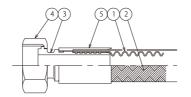
Item	Name		
1	Tube		
2	Braid		
3	Ferule		
4	Press Cover		
	1 2 3		

# Ferule (Without Braid)



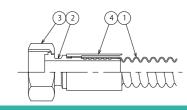
Item	Name			
1	Tube			
2	Ferule			
3	Press Cover			

# Sanitary Nut (Single Braid)



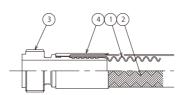
	Item	Name		
	1	Tube		
	2	Braid		
	3	Sleeve		
	4	Sanitary Nut		
5		Press Cover		

# Sanitary Nut (Without Braid)



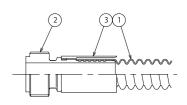
Item	Name
1	Tube
2	Sleeve
3	Sanitary Nut
4	Press Cover

# Sanitary Thread Seat (Single Braid)



Item	Name		
1	Tube		
2	Braid		
3	Thread Seat		
4	Press Cover		

# Sanitary Thread Seat (Without Braid)



Item	Name
1	Tube
2	Thread Seat
3	Press Cover

# DTF-3000 Corrugation Hose Type

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB	Hose ID (squeezed)	Hose OD			Min. Bending Radius (mm)	Max. Length(m)
8A	9.0	15.2	10.5	1.96	40	6
10A	13.0	19.2	14.0	1.96	40	6
15A	14.0	23.2	17.5	1.96	45	6
18	19.0	29.2	23.0	1.96	50	6
1-1/48	25.0	37.2	29.4	1.96	70	6
1-1/28	32.0	43.6	35.7	0.98	90	5
2S	42.0	55.1	47.8	0.98	120	5
2-1/28	55.0	70.1	59.5	0.98	250	5
3S	65.0	83.0	72.3	0.98	300	5
48	90.0	108.0	97.6	0.98	400	3

Name	Material
Tube	PTFE·PFA·(Anti-Static type is also available)
Braid	SUS304·SUS316·SUS316L(Special braid available)
Fitting	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.
Press Cover	SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

Other sizes than listed on the left table, can be produced. Please inquire us.

Standard material of tube is PTFE.

Also producible by PFA but hose ID/OD will slightly change.

Anti-Static type is also available. For size and dimension, please inquire us.

Over-all length can be shortened as far as possible. Please assemble to the place of the please assemble to the place of the

Over-all length can be shortened as far as possible. Please consult us.

Without Braid type is available. Please inquire us.

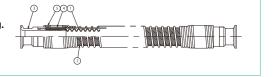
For the hose without braid, please use it at

temperature 80°C or bellow.

Max. Working Pressure shown on the left table is at normal temperature.

Special fittings are also available. Please inquire us.

Outer spring type is also available. (Fitting can be changed.) (Available for over-all spring and both ends spring.) ■Ex1:Ferule with outer spring.



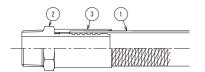
For the other hoses longer than above listed. Please consult us.

# SILICONE HOSE



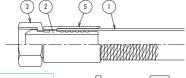
# ■201 Type

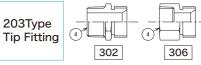
Item	Name	Item	Name
1	Tube	3	Press Cover
2	ニップル		



# **■**203 Type

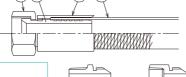
Item	Name	Item	Name	
1	Tube	4	302:Union Nipple	
2	Union Sleeve	+	306:Union Socket	
3	Union Nut	5	Press Cover	

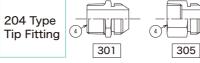




# ■204 Type

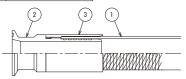
Item	Name	Item	Name
1	Tube	1	301:Union Nipple
2	Union Sleeve	~	305:Union Socket
3	Union Nut	5	Press Cover





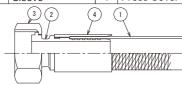
# ■Ferule

Item	Name	Item	Name
1	Tube	3	Press Cover
2	Ferule		



# Sanitary Nut

Item	Name	Item	Name
1	Tube	3	Sanitary Nut
2	Sleeve	4	Press Cover



Name



Silicone

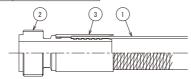
# Sanitary Thread Seat

Material

SS400.C3604.SUS304.SUS316.SUS316L.Titanium.Hastelloy etc.

Press Cover | SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

Item	Name	Item	Name
1	Tube	3	Press Cover
2	2 Thread Seat		



- Over-all length can be shortened as far as possible.
- ■Applicable for 30°C~+150°C.
- ■Other than above fittings, flange, KAMLOK, lorry fitting can be fixed. | Tube We produce hoses which conform to FDA, USP,
- and Japanese pharmacopeia.
- For vacuum use hose is also available.(Please consult us)
- ■Max. Working Pressure shown on the below table is at normal temperature.
- Special fittings are also available. Please inquire us.

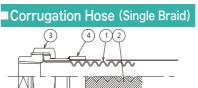
# DTF-3200

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

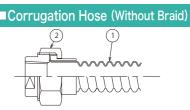
NB	Hose ID	Hose OD	Hose ID (opening)	Max. Working Pressure(Mpa)	Min. Bending Radius(mm)	Max. Length(m)
0.4	9.5	16.5	10.5	0.49	130	10
8A	12.7	20.1	20.5	0.49	130	10
104	12.7	20.1	14.0	0.49	150	10
10A	15.9	24.1	14.0	0.49	150	10
15A	15.9	24.1	17.5	0.49	180	10
IDA	19.0	28.2	17.5	0.49	180	10
18	25.4	35.6	23.0	0.49	300	10
1-1/4S	32.0	43.8	29.4	0.49	360	10
1-1/2S	38.1	50.7	35.7	0.49	430	10
2S	38.1	50.7	47.8	0.49	430	10
	50.8	65.0	47.8	0.29	550	6

# **UNION TYPE**





Item	Name
1	Tube
2	Braid
3	Union
4	Tube Ring



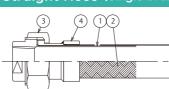
Item	Name			
1	Tube			
2	Union			

# DTF-6000 Corrugation Hose Type

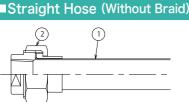
Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB		Hose ID Hose OD		Hose ID	Max. Working Pressure(Mpa)	Min. Bending	Max.	
Α	В	(squeezed)	11036 0D	(opening)		Radius (mm)	Length(m)	
8A	1/4B	9.0	15.0	13.0	0.98	35	6	
10A	3/8B	12.0	18.0	16.0	0.98	35	6	
15A	1/2B	14.0	22.0	19.0	0.98	45	6	
20A	3/4B	19.0	28.0	25.0	0.98	50	6	
25A	1B	25.0	36.0	33.0	0.98	70	5	
32A	1-1/4B	32.0	42.0	39.0	0.98	90	5	
40A	1-1/2B	42.0	53.5	50.0	0.98	120	5	
50A	2B	50.0	64.5	61.0	0.98	200	5	

# Straight Hose (Single Braid)



Item	Name	
1	Tube	
2	Braid	
3	Union	
4	Tube Ring	

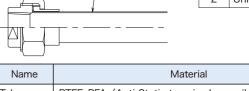


Item	Name
1	Tube
2	Union

# DTF-6100 Straight Hose Type

Standard Specification Other sizes than listed on the below table, can be produced. Please inquire us.

NB		Hose	Hose ID	Max. Working	Min. Bending	Max.
Α	В	OD	(opening)	Pressure (Mpa)	Radius(mm)	Length(m)
8A	1/4B	15.0	13.0	0.98	250	10
10A	3/8B	18.0	16.0	0.98	250	10
15A	1/2B	22.0	19.0	0.98	350	10
20A	3/4B	28.0	25.0	0.98	500	10
25A	1B	36.0	33.0	0.98	1500	6
32A	1-1/4B	42.0	39.0	0.98	2000	6
40A	1-1/2B	53.5	50.5	0.98	2500	6
50A	2B	64.5	61.0	0.98	3500	5

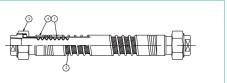


Tube PTFE+PFA+ (Anti-Static type is also available) SUS304·SUS316·SUS316L(Special braid available) Braid SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc. SS400·C3604·SUS304·SUS316·SUS316L·Titanium·Hastelloy etc.

- Other sizes than listed on the above and left tables, can be produced. Please inquire us.
- Standard material of tube is PTFE.
- Also producible by PFA but hose ID/OD will slightly change. ■Anti-Static type is also available. For size and dimension,
- please inquire us.
- Over-all length can be shortened as far as possible. Please consult us.

  Under-ground use is also available.
- Pressure shows for single braid.
- For the hose without braid, please use it at temperature 80°C or bellow.
- ■Max. Working Pressure shown on the above and left tables are at normal temperature.

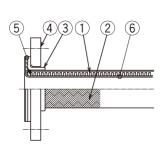
Outer spring type is also available. (Fitting can be changed.)
(Available for over-all spring and both ends spring.) ■Ex1:DTF-6000 Union with outer spring



# PTFE INSERTED STRAIGHT TYPE

# DTF-2800K PTFE Inserted Collar type





Structure

■ PTFE straight hose is inserted into a stainless steel flexible hose. ■ PTFE on fluid contact portion provides excellent anti-corrosion property.

Use

Pipes for medical fluid, food, and chemicals.

Feature

■ The use of a straight tube creates smooth inner surface with no unevenness which prevents fluid from accumulating.

■ PTFE on fluid contact portion provides excellent anti-corrosion property.

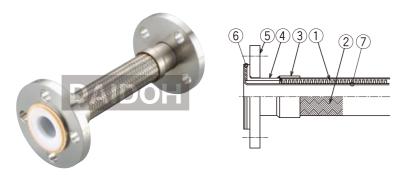
Item	Name	Material
1	Tube	SUS304·SUS316L
2	Braid	SUS304·SUS316·SUS316L
3	Flange collar	SUS304·SUS316L
4	Loose flange	SS400·SUS304·SUS316·SUS316L, others
5	Back up gasket	Non asbestos
6	Inner Tube	PTFE(PFA available)

■Available NB 15A~65A

### Caution

- %Please avoid scratching the gasket surface (the PTFE section) when installing pipes.
- \*The JPI standard and ANSI standard for 15A cannot be produced.

# DTF-2800R PTFE Inserted R-type



■ PTFF straight hose is inserted into a stainless steel flexible hose. ■ PTFE on fluid contact portion provides excellent anti-corrosion property.

Use

■ Pipes for medical fluid, food, and chemicals.

- The use of a straight tube creates smooth inner surface with no unevenness which prevents fluid from accumulating.
- PTFE on fluid contact portion provides excellent anti-corrosion property.

Item	Name	Material			
1	Tube	SUS304·SUS316L			
2	Braid	SUS304·SUS316·SUS316L			
3	Tube ring	SUS304·SUS316·SUS316L			
4	Lap Joint	SGP·SUS304·SUS316·SUS316L, others			
5	Loose flange	SS400·SUS304·SUS316·SUS316L, others			
6	Back up gasket	Non asbestos			
7	Inner Tube	PTFE(PFA available)			

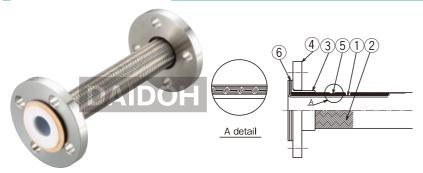
- Available NB 10A~300A
- ■Underground installation type can also be produced. Please inquire us.

# Caution

%Please avoid scratching the gasket surface (the PTFE section) when installing pipes.

# DTF-2900

# PTFE Inserted Interlock Tube



- PTFE straight hose is inserted into a stainless steel interlock tube.
- PTFE on fluid contact portion provides excellent anti-corrosion property.

Use

■ Pipes for medical fluid, food, and chemicals.

■ The use of a straight tube creates smooth inner surface with no unevenness which prevents fluid from accumulating. ■ PTFE on fluid contact portion provides excellent anti-corrosion property.

Item	Name	Material
1	Inner Tube	PTFE(PFA available)
2	Braid	SUS304
3	Flange collar	SUS304
4	Loose flange	SUS304
5	Interlock Tube	SS400·SUS304
6	Back up gasket	Non asbestos

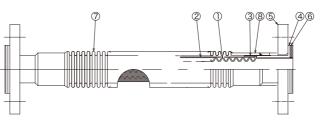
■Available NB 15A~100A

### Caution

- %Please avoid scratching the gasket surface (the PTFE section) when installing pipes.
- \*The JPI standard and ANSI standard for 15A cannot be produced.

# PTFE INSERTED CORRUGATION TYPE





### PTFE Corrugation Hose Inserted (H-type)

Item	Name	Material
1	Tube	PTFE
2	Braid	SUS304·SUS316·SUS316L
3	Tube ring	SUS304·SUS316·SUS316L
4	Stub end	SUS304·SUS316·SUS316L
5	Loose flange	SS400·SUS304·SUS316·SUS316L
6	Back up ring	Non asbestos
7	Jacket tube	SUS304·SUS316L
8	Pipe end	SUS304·SUS316·SUS316L

**Structure** 

- PTFE corrugation hose is inserted into a stainless steel flexible hose.
- PTFE on fluid contact portion provides excellent anti-corrosion property.

Use

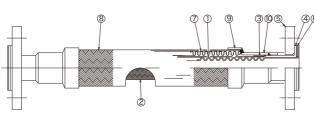
■ Pipes for medical fluid, food, and chemicals.

- The use of a corrugated hose provides excellent flexibility and easy installation. This product is suitable for ■ The corrugated hose on the inside is reinforced with stainless steel wire braid and has excellent pressure resistance.
- Feature Even when the corrugated hose is damaged, leakage to the outside can be prevented because the outside is covered with a stainless steel flexible hose.
  - The damage on the corrugated hose inside can be checked beforehand by attaching a leakage detection nozzle to the stainless steel flexible hose on the exterior.
- ■Available NB 10A~250A
- ■Underground installation type can also be produced. Please inquire us.
- The attachment of the leakage detection nozzle is an optional.

### Caution

\*Please avoid scratching the gasket surface (the PTFE section) when





# PTFE Corrugation Hose Inserted (B-type)

Item	Name	Material			
1	Tube	PTFE			
2	Braid	SUS304·SUS316·SUS316L			
3	Tube ring	SUS304·SUS316·SUS316L			
4	Stub end	SUS304·SUS316·SUS316L			
5	Loose flange	SS400·SUS304·SUS316·SUS316L			
6	Back up ring	Non asbestos			
7	Jacket tube	SUS304·SUS316L			
8	Braid	SUS304·SUS316·SUS316L			
9	Tube ring	SUS304·SUS316·SUS316L			
10	Pipe end	SUS304·SUS316·SUS316L			

Structure

- PTFE corrugation hose is inserted into a stainless steel flexible hose.
- PTFE on fluid contact portion provides excellent anti-corrosion property.

■ Pipes for medical fluid, food, and chemicals.

■ The use of a corrugated hose provides excellent flexibility and easy installation. This product is suitable for

■ The corrugated hose on the inside is reinforced with stainless steel wire braid and has excellent pressure resistance.

Feature Even when the corrugated hose is damaged, leakage to the outside can be prevented because the outside is covered with a stainless steel flexible hose.

■ The damage on the corrugated hose inside can be checked beforehand by attaching a leakage detection nozzle to the stainless steel flexible hose on the exterior.

- Underground installation type can also be produced. Please inquire us.
- The attachment of the leakage detection nozzle is an optional,

### Caution

\*Please avoid scratching the gasket surface (the PTFE section) when installing pipes.

# Silicone Hose TRESSIL



# Specification

Material for fluid contact portion: Silicone Reinforcement: Reinforcing Braid fiber Operating temperature range: -60°C~180°C

# Feature

- ■Suitable for pharmaceutical products, food, beverage, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177,2600 and USP class VI.
- ■Up to 25 m in length for ND19 or smaller and up to 10 m for ND25 or larger can be produced.

Joint specification : Equivalent material to SUS316L (standard)

Ends of a hose

:Contact bonding joint method, recycled VNRS joint method (8A to 1.5S)

Standard joint ferrule (8A to 1.5S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

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GECI is a manufacturer specializ-

ing in the production and sales of

flexible hoses and relative joints to be used for food, medical or

pharmaceutical products, cosmetic products, and chemical products

mainly in Europe and America.

GECI (France)

also available.

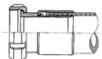
# Use

Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

# TRESSIL (Silicone hose Operating temp: -60~180°C Germ destruction by vapour: 0.2MPa within 60min)

Standard N B	ND	Hose I.D.	Hose O.D. (mm)	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	3	3.17	9.20	1.5	4.5	30
	5	4.76	11.30	1.5	4.5	35
	6	6.35	12.61	1.5	4.5	40
	8	7.93	7.93 14.60		3.6	45
8A	10	9.52	16.32	1.2	3.6	50
10A	13	12.70	20.10	1.0	3.0	65
15A	16	15.87	7 24.37 0.8		2.4	75
	19	19.05 27.90		0.8	2.4	80
18	25	25.40	34.50	0.5	1.5	120
1.5S	32	31.75	40.80	0.4	1.2	150

NRS contact bonding joint and recycled VNRS joints can be attached to TRESSIL.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation. Of course this product allows sealing which prevents hose

from falling off and leaks.



Recycled VNRS joints are assemble-type joint especially designed for TRESSIL and can be attached and removed without special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# Silicone Hose GSI75NT/NTP

# Specification

Material for fluid contact portion: Silicone Reinforcement: Reinforcing Braid fiber, Stainless steel wire Operating temperature range: -60°C~180°C

# Feature

- ■Suitable for pharmaceutical products, food, beverage, cosmetic products, and chemical products.
- ■NT (white) which satisfies FDA 21CFR177.2600 and NTP (semi-transparent) which satisfies USP class VI are available.
- ■Up to 5.7m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard)

Ends of a hose

:Contact bonding joint method, recycled MSP joint method (15A to 2S)

Standard joint ferrule (8A to 4S) and other specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

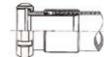
# Use

Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

# $GSI~75~NT/NTP~(Silicone~hose~Operating~temp:~-60\sim180^{\circ}C~Germ~destruction~by~vapour:~0.2MPa~within~60min)$

Standard N B	ND	Hose I.D. (mm)	Hose O.D. (mm)	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	8	8	17.5	2.0	8.0	35
8A	10	10	19.5	2.0	8.0	35
10A	13	13	23	2.0	8.0	50
15A	16	16	27	2.0	8.0	60
	19	19			70	
	20	20	31	2.0	8.0	70
	22	22	34.5	1.2	4.8	90
1S	25	25	37.5	1.2	4.8	100
	32	32	45	1.2	4.8	115
1.5S	38	38	51.5	1.2	4.8	120
2S	51	51	65	1.2	4.8	190
2.5S	63	63	78	1.0 4.0		230
3S	76	76	91	0.8	3.2	300
4S	102	102	118	0.6	2.4	420

NRS contact bonding joint and recycled MSP joint can be attached to GS175NT/NTP.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



Recycled MSP joint is assemble type joint especially designed for GS175NT/NTP and can be attached and removed with special tool. (Can be attached on and removed from ND13-ND51)

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.
  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)

# Silicone Hose SPIRSIL



# Specification

Material for fluid contact portion: Silicone Reinforcement: Stainless steel wire Operating temperature range: -60°C~180°C

### **Feature**

- ■Suitable for pharmaceutical products, food, beverage, cosmetic products, and chemical products
- ■Satisfies FDA 21CFR177.2600 and USP class VI.

■Up to 5.7m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard)

:Contact bonding joint method Ends of a hose

Standard joint ferrule (10A to 2S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

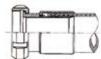
# Use

Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

 ${\sf SPIRSIL}$  (Silicone hose Operating temp: -60~180°C Available for autoclave)

Standard N B	ND	Hose I.D.	Hose O.D. Working Burst pressure (MPa) (MPa)		Bending radius (mm)	
10A	13	12.7	20.1	0.5	1.5	50
15A	16	16	24.5 0.5 1.5		1.5	55
	19	19.05	27.9	0.5	1.5	75
18	25	25	34.1	0.4	1.2	85
	32	32	41.1	41.1 0.4 1.2		105
1.5S	38	39	50.5	0.4	1.2	150
2S	51	51	64	64 0.4 1.2		205

NRS contact bonding joint can be attached to SPIRSIL.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation. Of course this product allows sealing which prevents hose from falling off and leaks.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.

■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America

# Ethylene Propylene Rubber Hose DEPOTAL"J"



# **Specification**

Material for fluid contact portion: Ethylene propylene rubber Reinforcement: Reinforcing braid fiber + wire Outer surface: Ethylene propylene rubber Working pressure: 1.0MPa(approx. 10kgf/cm) Operating temperature range: -30°C~120°C Max. Operating temperature: 150°C

# Feature

- ■Suitable for transferring fluids, such as food, pharmaceutical products, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.2600.
- ■Reinforcement with wire allows easy bending and durability.
- ■Can be used in the decompressed environment.
- ■The exterior is finished with durable fabric.
- ■Up to 40m in length can be produced.

Ends of a hose

Joint specification : Equivalent material to SUS316L (standard)

: Contact bonding joint method, recycled joint method. Standard joint ferrule (1S to 4S) and other specifi-

cations can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are also available.

# Use

Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

DEPOTAL" (Ethylene propylene rubber hose Operating temp: -30~120°C Max, Operating temperature: 150°C)

Standard N B	ND	ND Hose I.D. (mm)		Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	20	20	31 1.0 3.0		120	
18	25	25	37 1.0 3.0		150	
1.5S	38	38	51 1.0 3.0		220	
2S	51	51	65 1.0 3.0		300	
2.5\$	2.5S 63 63		79	1.0	3.0	390
3S	76	76	90	1.0	3.0	450

NRS contact bonding joint and recycle joint can be attached to DEPOTAL"J".



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)

# EPDM Hose DEPOTAL



# Specification

Material for fluid contact portion: EPDM Reinforcement: Reinforcing braid fiber + wire Outer surface: EPDM Working pressure: 1.0MPa(approx. 10kgf/cm) Operating temperature range: -30°C~120°C Max. Operating temperature: 160°C

# **Feature**

- ■Suitable for transferring fluids, such as pharmaceutical products, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.2600.
- ■Reinforcement with wire allows easy bending and durability.
- ■Can be used in the decompressed environment.
- ■The exterior is finished with durable fabric.
- ■Up to 40m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard) Ends of a hose

: Contact bonding joint method, recycled joint method. Standard joint ferrule (1S to 4S) and other specifi-

cations can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are also available.

# Use

Can be used in all types of clean fields such as pharmaceutical products, cosmetic products, and chemical products.

DEPOTAL (EPDM hose Operating temp: -30~120°C Max. Operating temperature: 160°C)

Standard N B	ND	Hose I.D. (mm)	Hose O.D.	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	20	20	31	1.0	3.0	120
18	25	25	37	1.0	3.0	150
	32	32	44	1.0	3.0	190
1.5S	38	38	51	1.0	3.0	220
2S	51	51	65	1.0	3.0	300
2.5S	63	63	79	1.0	3.0	390
3S	76	76	90	1.0	3.0	450
4\$	100	102	119	1.0	3.0	600
5\$	125	125	147	1.0	3.0	750
6S	150	150	175	1.0	3.0	900
88	203	203	229	0.6	1.8	1220

NRS contact bonding joint and recycle joint can be attached to DEPOTAL.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America

# EPDM Hose DEPOTAL CORRUGATION TYPE



# Specification

Material for fluid contact portion: EPDM Reinforcement: Reinforcing braid fiber + wire Outer surface: EPDM Working pressure: 1.0MPa(approx. 10kgf/cm) Operating temperature range: -30°C~120°C Max. Operating temperature: 160°C

### Feature

- ■Suitable for transferring fluids, such as pharmaceutical products, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.2600.
- ■Reinforcement with wire allows easy bending and durability.
- ■Can be used in the decompressed environment.
- ■The exterior is finished with durable fabric.
- ■Up to 40m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard)

Ends of a hose

: Contact bonding joint method, recycled joint method. Standard joint ferrule (1S to 4S) and other specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

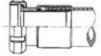
# Use

Can be used in all types of clean fields such as pharmaceutical products, cosmetic products, and chemical products.

DEPOTAL (EPDM hose Operating temp: -30~120°C Max. Operating temperature: 160°C)

Standard N B	ND	Hose I.D. (mm)	Hose O.D. (mm)	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	20	20	31	1.0	3.0	120
18	25	25	37	1.0	3.0	150
	32	32	44	1.0	3.0	190
1.5S	38	38	51	1.0	3.0	220
2S	51	51	65 1.0		3.0	300
2.5S	63	63	79	1.0	3.0	390
3S	76	76	90	1.0	3.0	450
4S	100	102	119	1.0	3.0	600
5\$	125	125	147	1.0	3.0	750
6S	150	150	175	1.0	3.0	900
8\$	203	203	229	0.6	1.8	1220

NRS contact bonding joint and recycle joint can be attached to DEPOTAL.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.
  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

# Nitrile Rubber Hose NITRIFOOD



# Specification

Material for fluid contact portion: Nitrile rubber Reinforcement: Reinforcing braid fiber + wire Outer surface: Chloroprene rubber Working pressure: 1.0MPa(approx. 10kgf/cm) Operating temperature range: -30°C~90°C Max. Operating temperature: 130°C

### Feature

- ■Suitable for pharmaceutical products, cosmetic products, and chemical products, etc.
- ■Satisfies FDA 21CFR177.2600.
- ■Excellent for oil resistance.
- ■Up to 40m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard) Ends of a hose

Contact bonding joint method, recycled joint method. Standard joint ferrule (10A to 4S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

# Use

Can be used in all types of clean fields such as pharmaceutical products, cosmetic products, and chemical products.

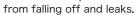
# NITRIFOOD (Nitrile rubber hose Operating temp: -30~90°C Max. Operating temperature: 130°C)

Standard N B	ND	Hose I.D. (mm)	Hose O.D. (mm)	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	19	19	30	30 1.0 3.0		120
18	25	25	36	1.0	3.0	150
	32	32	43	1.0	3.0	190
1.58	38	38	50	1.0	3.0	220
2S	51	51	64	1.0	3.0	300
2.5\$	63	63	78	1.0	3.0	390
3S	76	76	89	1.0	3.0	450
48	102	102	116	1.0	3.0	600

NRS contact bonding joint and recycle joint can be attached to NITRIFOOD.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation. Of course this product allows sealing which prevents hose





The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America.

# Butyl Rubber Hose



# **Specification**

Material for fluid contact portion: Butyl rubber Reinforcement: Metal braid

Outer surface: Butyl rubber (gray)

Working pressure: 3.0MPa(approx. 30kgf/cm²)/90°C, 0.8MPa(approx. 8kgf/cm²)/170°C Operating temperature range: -40°C~170°C

# Feature

- ■Suitable for steam lines of pharmaceutical products, cosmetic products, and chemical products
- ■Satisfies FDA 21CFR177.1550.
- ■Up to 60m in length can be produced.

Joint specification: Equivalent material to SUS316L (standard)

Ends of a hose

:Contact bonding joint method, recycled joint method. Standard joint ferrule (10A to 1S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

# Use

Can be used in all types of clean fields such as pharmaceutical products, cosmetic products, and chemical products.

# V.T.A. (Butyl rubber hose Operating temp: -40~170°C)

Standard N B	ND	Hose I.D.	Hose O.D. (mm)	Working pressure at 90°C (MPa)	Working pressure at 170°C (MPa)	Burst pressure (MPa)	Bending radius (mm)	Vacuum pressure (bar)	Weight (kg/m)
10A	13	13	27	3.0	0.8	8.0	60	0.8	0.66
15A	16	16	30	3.0	0.8	8.0	100	0.8	0.75
	19	19	33	3.0	0.8	8.0	130	0.8	0.85
18	25	25	39.5	3.0	0.8	8.0	160	0.8	1.15

NRS contact bonding joint can be attached to V.T.A.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation. Of course this product allows sealing which prevents hose from falling off and leaks.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

   All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)



# Specification

Material for fluid contact portion: EPDM Reinforcement: Reinforcing braid fiber Outer surface: NBR/PVC rubber Working pressure: 0.7MPa(170°C) Operating temperature range: -40°C~170°C

# Feature

- ■Suitable for steam line appllied for pharmaceutical products, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.2600.
- ■The exterior is finished with durable fabric.
- ■Up to 20m in length can be produced.

Ends of a hose

Joint specification : Equivalent material to SUS316L (standard)

:Contact bonding joint metod.

Standard joint ferrule (10A to 4S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

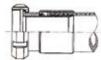
# Use

Suitable for steam line appllied for pharmaceutical products, cosmetic products, and chemical products.

# VAPROCESS (EPDM hose Operating temp: -40~170°C)

Standard N B	ND	Hose I.D.	Hose O.D.	Working pressure at 170°C (MPa)	Burst pressure (MPa)	Bending radius (mm)	Weight (kg/m)
10A	13	13	23	0.7	7	130	0.42
15A	16	16	28	0.7	7	160	0.50
	19	19	31	0.7	7	190	0.63
18	25	25	39	0.7	7	250	0.88
	32	32	46	0.7	7	320	1.20
1.5S	38	38	54	0.7	7	380	1.63
2S	51	51	67	0.7	7	510	2.12
2.5S	63	63	84	0.7	7	630	2.55
3S	76	76	97	0.7	7	760	3.40

NRS contact bonding joint can be attached to VAPROCESS.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

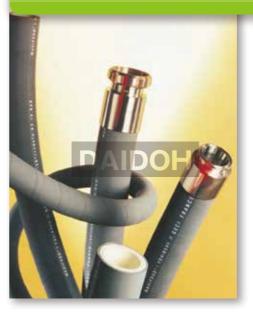
GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America.

# **MAXIFOOD** EPDM Hose



# Specification

Material for fluid contact portion: EPDM Reinforcement: Reinforcing braid fiber Outer surface: Synthetic rubber Working pressure: 1.0MPa (approx. 10kgf/cm) Operating temperature range: -35°C~100°C Max. Operating temperature: 140°C (for max. 15min)

# Feature

- ■Suitable for transferring fluids, such as pharmaceutical products, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.2600.
- ■This type is the same as our DEPOTAL without wire and has restoring force.
- ■The exterior is finished with durable fabric.
- ■Up to 10m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard)

Contact bonding joint method, recycled joint method. Standard joint ferrule (1S to 4S) and other specifi-

cations can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

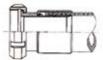
# Use

Can be used in all types of clean fields such as pharmaceutical products, cosmetic products, and chemical products.

MAXIFOOD (EPDM hose Operating temp: -35~100°C Max. Operating temperature: 140°C for max.15min)

Standard N B	ND	Hose I.D.	Hose O.D.	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)	Vacuum pressure (%)	Weight (kg/m)
18	25	25	38	1.0	4.0	160	40	0.770
	32	32	48	1.0	4.0	200	40	1.285
1.5\$	38	38	55	1.0	4.0	240	40	1.650
2S	51	51	70	1.0	4.0	310	40	2.220
2.5\$	63	63.5	88	1.0	4.0	400	40	4.030
3S	76	76	101	1.0	4.0	500	40	4.500

NRS contact bonding joint can be attached to MAXIFOOD.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes
- The warranty period is one year.
  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)



# Specification

Material for fluid contact portion: PFA Reinforcement: Reinforcing Braid fiber + wire Outer surface: Ethylene propylene rubber Operating temperature range: -30°C~130°C

Max. Operating temperature: 150°C for max. 30 min (CC&CP: 135°C for max. 20min)

### Feature

■Suitable for transferring fluids, such as food, beverage, pharmaceutical products, cosmetic products, and chemical products.

■Satisfies FDA 21CFR177.1550 and USP classVI. (CC is only for FDA 21CFR177.1550)

■CC and CP are conformed to ATEX, and the static prevention effect is  $RO10^5\Omega$  for CC and  $RO10^6\Omega$  for CP.

■Rubber odor and transferred smell via a hose can be reduced.

■This product has much better flexibility than conventional straight PTFE hoses.

■The exterior is made of EPDM rubber which has excellent chemical resistance.

■Up to 20m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard) Contact bonding joint method, recycled joint method. Ends of a hose

Standard joint ferrule (10A to 4S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

### Use

Can be used in all types of clean fields, such as pharmaceutical oroducts, food, beverage, cosmetic products, and chemical products.

POLYTECH (PFA hose Operating temp: -30~130°C Max. Operating temp: 150°C for max. 30 min (CC&CP: 135°C for max. 20min))

		-			-	-		
Standard N B	ND	Hose I.D.	Hose O.D.	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)	Vacuum pressure (bar)	Weight (kg/m)
10A	13	13	26	1.0	3.0	55	0.9	0.58
15A	16	16	29	1.0	3.0	70	0.9	0.66
	19	19	32	1.0	3.0	90	0.9	0.78
18	25	25	39	1.0	3.0	130	0.9	0.95
	32	32	46	1.0	3.0	180	0.9	1.15
1.5S	38	38	52	1.0	3.0	240	0.9	1.40
2S	51	51	66.5	1.0	3.0	290	0.9	2.00
2.5S	63	63	79.5	1.0	3.0	375	0.9	2.85
3S	76	76	94	1.0	3.0	500	0.9	3.36
48	100	100	118	1.0	3.0	600	0.9	5.00





POLYTECH CP

\*ND16 is not prescribed for CC.

NRS contact bonding joint can be attached to POLYTECH.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.



The recycled joint is an assembly-type joint in which a hose is pinched by a two-piece cover and can be easily attached and removed without using special tools.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America.

# Smooth PFA Hose POLYS L



# **Specification**

Material for fluid contact portion: PFA

Reinforcement: Reinforcing Braid fiber + Stainless steel wire

Outer surface: Silicone

Operating temperature range: -30°C~130°C

Max. Operating temperature: 135°C (for max. 30 min)

# Feature

■Suitable for transferring fluids, such as food, beverage, pharmaceutical products, cosmetic products, and chemical products.

■Satisfies FDA 21CFR177.1550 and USP classVI.

■Rubber odor and transferred smell via a hose can be reduced.

- ■This product has much better flexibility than conventional straight PTFE hoses.
- ■The exterior is white silicone.
- ■Up to 5.7m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard) :Contact bonding joint method.

Ends of a hose

Standard joint ferrule (10A to 4S) and other

specifications can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

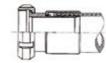
### Use

Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

POLYSIL (PFA hose Max. Operating temperature: 135°C for max. 30 min )

Standard N B	ND	Hose I.D.	Hose O.D.	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)	Vacuum pressure (%)	Weight (kg/m)
10A	13	13	23.5	1.0	4.0	95	90	0.39
15A	16	16	27	1.0	4.0	110	90	0.50
	20	20	31.3	1.0	4.0	135	90	0.63
1S	25	25	37.5	1.0	4.0	140	90	0.90
	32	32	45	1.0	4.0	190	90	1.20
1.5S	38	38	51.5	1.0	4.0	220	90	1.35
2S	51	51	65	1.0	4.0	250	90	1.90
2.58	63	63	79	1.0	4.0	308	90	2.40

NRS contact bonding joint can be attached to POLYSIL.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes
- The warranty period is one year.

  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



### GECI (France)

# Smooth PTFE Hose SILFLON



# Specification

Material for fluid contact portion: PTFE

Reinforcement: Stainless steel braid(including stainless steel wire for ND13~25) Outer surface: Silicone rubber

Pressure for germ destruction by vapour: 1.4MPa(approx. 14kgf/cm²) or below Operating temperature range: -75°C~230°C

Max. Operating temperature: 250°C

# Feature

- ■Suitable for transferring fluids and steam line, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.
- ■Satisfies FDA 21CFR177.1550.
- ■The range of operating temperature is wider.
- ■The silicone rubber on the exterior allows thorough washing by hand.
- ■Up to 6m in length can be produced.

# Use

Suitable for transferring fluids and steam line, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

SILFLON (PTFE hose Operating temp: -75~230°C Max. Operating temp: 250°C Max. working pressure for vapour:1.4MPa(approx. 14kgf/cm)

Standard N B	ND	Hose I.D.	Hose O.D.	Working pressure (MPa)	Burst pressure (MPa)	Bending radius (mm)
	6	6.35	14.80	12.0	24.0	38
	8	7.92	16.30	10.0	20.0	102
8A	10	9.52	18.00	9.0	18.0	64
10A	13	12.70	25.50	6.8	14.0	89
15A	16	15.90	28.00	6.0	12.0	114
	19	19.20	31.00	5.0	10.0	146
18	25	25.40	38.00	4.0	8.0	254

NRS contact bonding joint can be attached to SILFLON.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation.

Of course this product allows sealing which prevents hose from falling off and leaks.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products. ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.

■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.



# GECI (France)

GECI is a manufacturer specializing in the production and sales of flexible hoses and relative joints to be used for food, medical or pharmaceutical products, cosmetic products, and chemical products mainly in Europe and America.

# Non glass sight gauge VIEWLINE (Flow sight)



# **Specification**

Material for fluid contact portion: Fluoride resin and equivalent material to SUS316L Reinforcement: Stainless steel guard at option Operating temperature range: -50°C~180°C

# Feature

- ■Suitable for transferring fluids, such as food, beverage, pharmaceutical products, cosmetic products, and chemical products.
- ■Safety is ensured due to no use of glass.
- ■Satisfies FDA 21CFR175.300, 177.1550 and USP classVI.
- ■The exterior can also be reinforced with a stainless steel guard.
- ■Up to 3m in length can be produced.

Joint specification : Equivalent material to SUS316L (standard)

Ends of a hose

:Contact bonding joint method.

Standard joint ferrule (1S to 4S) and other specifi-

cations can be produced.

(SMS, DIN, RJT, IDF nut, and cam lock of NRS joints, etc.) 90° elbows and varying diameter reducer joints are

also available.

# Use

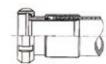
Can be used in all types of clean fields, such as pharmaceutical products, food, beverage, cosmetic products, and chemical products.

# VIEWLINE (Flow sight Operating temp: -50~180°C)

		Hose I.D.	Standard Viewable		Stan	dard	With guard	
Standard N B	ND	(mm)	length (mm)	length (mm)	Working pressure (MPa)	Burst pressure (MPa)	Working pressure (MPa)	Burst pressure (MPa)
18	25	25			0.8	3.2	1.2	4.8
	32	32	207	98	0.7	2.8	1.2	4.8
1.5S	38	38		30	0.6	2.5	1.2	4.8
2S	50	50			0.5	2.2	1.0	4.7
2.5S	63	63.5	226		0.5	2.2	1.0	4.0
3\$	75	75	220	85	0.5	2.0	0.9	3.6
48	100	100			0.4	1.6	0.7	1.4

For longer than standard length. up to 3m in length can be produced. Please specify required length.

NRS contact bonding joint can be attached to VIEWLINE.



NRS is the abbreviation of non-retention system and means a structure without fluid accumulation. Of course this product allows sealing which prevents hose

from falling off and leaks.

# **GECI Tech Quality Assurance**

- ■Traceability is available for joints made of SUS316L because a mill sheet is attached.
- ■Date of manufacturing is engraved on all GECI Tech products.
- ■Joints are polished to simplify cleaning processes.
- The warranty period is one year.

  ■All contact-bonding joints of GECI Tech are based on the NRS (non-retention system) concept.
- ■Certificates are attached to all GECI Tech products.

GECI Tech attaches SUS316L certificate to a joint and FDA/BgVV conformity certificate to a flexible hose.

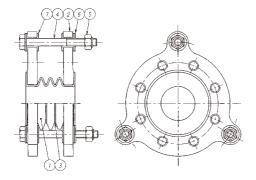


### GECI (France)

# **EXPANSION JOINT**

# DTF-5000





tem	Name
1	Bellows
2	Flange
3	Reinforcing ring
4	Stopper Bolt
5	U-Nut
6	Washer
7	Grommet

N	IB	No. of	Face to face	Elasticity	Deflection	Bellows dime	ension(mm)
Α	В	Corrugation	(mm)	(mm) s	(mm)	Opening ID	Flare
20A	3/4B	3	45	.±13	6	25	50
20A	3/48	5	65	±13	13	25	50
25.4	10	3	45	±13	6	25	50
25A	1B	5	65	±13	13	25	50
32A	1-1/4B	3	50	±13	6	32	62
32A	1-1/48	5	70	±13	13	32	62
40A	1-1/2B	3	50	±13	6	38	73
40A	I-1/2D	5	75	±15	13	38	73
50A	2B	3	70	±19	10	49	92
DUA	ZB	5	100	±25	13	49	92
65A	2-1/2B	3	75	±19	10	63	105
ACO	Z-1/ ZB	5	115	±25	13	63	105
80A	3B	3	85	±19	13	73	120
OUA	) JD	5	125	±25	16	73	120
100A	4B	3	85	±19	13	97	145
TOUA	4D	5	125	±25	16	97	145
125A	5B	3	100	+20、-30	3	119	175
125A	) DB	5	140	+30、-40	10	119	175
150A	6B	3	100	+20、-30	3	145	205
150A	OB	5	150	+30、-45	10	145	205
200A	8B	3	110	+20、-30	3	196	255
200A	ОВ	5	155	+35、-50	10	196	255
250A	10B	3	120	+15、-35	3	244	315
250A	100	5	175	+20、-60	10	244	315
300A	12B	3	120	+15、-35	3	292	360
300A	120	5	175	+20、-60	10	292	360
350A	14B	3	130	+15、-40	3	322	405
330A	140	5	190	+20、-70	10	322	405
400A	16B	3	150	+15、-50	3	372	465
400A	100	5	225	+20、-80	10	372	465
450A	18B	3	155	+20、-50	3	422	520
430A	100	5	235	+25、-90	10	422	520
500A	20B	3	160	+20、-50	3	472	575
300A	200	5	240	+25、-90	10	472	575
550A	22B	3	175	+20、-55	3	522	630
550A	ZZD	5	265	+25、-100	10	522	630
600A	24B	3	175	+20、-55	3	572	680
0007	240	5	265	+25、-100	10	572	680

Name	Standard Specification	Special Specification	
Bellows	PTFE		
Flange equivalent to JIS 10K	FCD450	SS400·SUS304·SUS316·SUS316L etc.	
Reinforcing Ring	SUS304	SUS316L etc.	
Stopper Bolt	SS400 (Chrome plated)	SUS304·SUS316·SUS316L etc.	
U-nut	SS400 ((Chrome plated)	SUS304·SUS316·SUS316L etc.	
Washer	SS400 ((Chrome plated)	SUS304·SUS316·SUS316L etc.	
Grommet	CR		

\*For vacuum type is also available. (please consult us.)

# List of general characteristics of fluorine resin

	O			ΔSTM	5755	551		DOTE			D) (D.E.
_	Characteri	stic	Unit	ASTM Test Method		PFA	FEP	PCTE	ETFE	ECTFE	PVDE
Physical	melting point		°C	_	327	310	275	220	270	220-245	156-178
占	specific gravit	У	_	D792	2.14-2.20	2.12-2.17	2.12-2.17	2.03-2.2	1.70	1.68-1.69	1.75-1.78
	tensile strengt	:h	Мра	D638	13.7-34.3	27.5-29.4	18.6-21.6	30.9-41.2	45.1	41.2	24.5-50.0
	elongation		%	D638	200-400	300	250-330	80-250	100-400	200-300	12-430
	compressive s	trength	Мра	D695	11.8	_	15.2	31.4-51.0	49.0	_	45.1-96.1
ical	Izot impact str	ength	J/m²	D526A	160	no break	no break	133-144	no break	no break	160-374
Mechanical	Rockwell hard	ness	_	D785	_	_	_	R75-112	R50	R93-95	R77-83
Ž	Shore handnes	SS	_	D2240	D50-55	D64	D60-65	D75-80	D75	D55	D75-77
	flexural modul	us	Gpa	D790	0.55	0.82	0.55-0.66	1.25-1.79	1.37	0.66-0.69	2.00-2.48
	tensile elastici	ty	Gpa	D638	0.40-0.55	_	0.34	0.049-2.06	0.83	1.65	1.00-2.94
	coefficient of dyr	namic friction	_	0.69Mpa 3m/min	0.1	0.2	0.3	0.37	0.4	_	0.39
	thermal condu	ıctivity	W/m·K	C177	0.25	0.25	0.25	0.20-0.22	0.24	0.16	0.10-0.13
	specific heat		102J/kg·K	_	1.0	1.0	1.2	0.92	1.9-2.0	_	1.4
_	coefficient of them	mal elongation	10-5/°C	D696	10	12	8.3-10.5	4.5-7.0	5.9	8	7-14
Thermal	ball pressure to	emperature	°C	_	180	230	170	170	185	_	_
	thermal displacement	1.81Mpa	°C	D648	55	47	50	_	74	77	54-115
	temperature	0.45Mpa	°C	D648	121	74	72	126	104	116	138
	max. working temperature		°C	(no load)	260	260	200	120	150	150	150
	volume resistivity Ω·		Ω·cm	D257 (50%RH.23°C)	>1018	>1018	>1018	1.2×1018	>1018	>1015	2×1014
	strength of breakdown (short time)		WV/m(t3.2mm)	D149	19	<19	20-24	20-24	16	20	10-11
		60Hz	pF/m	D150	<19	<19	<19	20-25	23	23	74
<del></del>	permittivity	10³Hz	pF/m	D150	<19	<19	<19	20-24	23	23	68
Electrical		10 <sup>6</sup> Hz	pF/m	D150	<19	<19	<19	20-22	23	23	56
		60Hz	_	D150	<0.0002	<0.0002	<0.0002	0.0012	0.0006	<0.0005	0.049
	loss tangent	10³Hz	_	D150	<0.0002	<0.0002	<0.0002	0.023-0.027	0.0008	0.0015	0.018
		10 <sup>6</sup> Hz	_	D150	<0.0002	<0.0002	<0.0002	0.009-0.017	0.005	<0.015	0.17
	arc-resistance		s	D495	>300	>300	>300	>360	75	18	50-70
	water absorpt	ion(24h)	%	D570	<0.01	<0.01	<0.01	0.01	0.029	0.01	0.03-0.06
	combustibility	(t3.2mm)	_	(UL-94)	V-0	V-0	V-0	V-0	V-0	V-0	V-0
L CO	limited oxygen	index	_	D2863	>95	>95	>95	>95	30	60	44
others	sunlight affect	tion	_	_	none	none	none	none	none	none	none
ity &	weak acid affe	ection	_	D543	none	none	none	none	none	none	none
Durability &	strong acid af	fection	_	D543	none	none	none	none	none	none	damaged by pyrosulfuric acid
	weak alcali aff	ection	_	D543	none	none	none	none	none	none	none
	strong alcali a	ffection	_	D543	none	none	none	none	none	none	none
	solution affect	tion	_	D543	none	none	none	slightly swell by halogen compound	none	good durable	durable to most of solutions

\*Above list is quoted from "Fluorine Resin Handbook" issued by Japan Fluorine Resin Industrial Association.

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# Feature of fluorine resin hose

Fluorine resin hose has unique feature which other resins do not have, and solves many problems. Among the features, heat resistance, chemical inactivity, electrical characteristic, low friction, non-viscosity, etc., are particular features based on molecular structure. Those are strong points.

01 Chemical Resistance

Fluorine resin hose is good for chemical and solution, but exceptionally invaded melted alkali metals, fluorine under high temperature and high pressure and some of halogen conductors. As it will not pollute the fluid, it is good for hoses such as acid/alkali lines, phamaceutical line, pure water line, and food line.

02 Purity

Fluorine resin does not have any stabilizer or anti-oxidant, etc., so it is very pure. Metallic ion or organic carbon, etc., will never come out.

103 Heat Resistance

Applicable is wide range of −80°C~+260°C. (It varies by pressure or fluid.)

Non-viscosity

It is hard to fix adhesive matters, excellent release characteristics, and good for applying adhesive fluids. Besides, easy to clean inside of the hose.

Electrical Characteristic

Among all solid insulators it has the smallest permittivity and dissipation factor, and is steady at wide range of frequency and temperature. Its volume and surface resistivity show the maximum value, and it has excellent electric isolation.

Weather Resistance

In outdoor use, it will not be affected semi-permanently.

07 Low friction feature

It has the smallest coefficient of friction among all resins. It is equivalent to friction value which ocurrs when two pieces of ice rubbed each other.

**18** Hygroscopy

Water absorption rates of PTFE and PFA are slightly different, but fluorine resin absorbs almost no water.

# STATIC ELECTRICITY

Fluorine resin hose is excellent in chemical resistance and heat resistance, and carries roll for transportation of various kinds of fluid or flour as almighty anti-corrosion pipe material. Fluorine resin hose which is applied on manufacturing lines of production equipments in many factories, will often be affected by static electricity depending on condition of actual fluid transportation.

In case of transportation of chemicals, fuel, gas, or steam, etc., it is necessary to take measures to discharge static electricity. When two different substances contact each other, electrons are attracted from one substance to the other and try to combine. These electrons have habit to form a line along contact surface. If those two substances have high conductivity, the positive pole and the negative pole will keep balance by going back and forth between the two substances.

However, if those substances are electrically isolated, electric current is disturbed and electricity is stored on the surface of one substance. When the stored electricity exceeds the durability, the stored substance will be broken.

Fluorine resin hose is electrically isolated and fits the above theory. For transportation of low conductive fluid or gas in high speed, you have to take measures to discharge static electricity. Quantity of the storing electricity will increase in proportion to fluid speed. Generally, high pressure means high speed.

Among various kinds of fluids, fuel and steam can incur the static electricity trouble even in low speed flow. Gasoline, hydrazine, or Jet JP-4 will often meet this trouble even in very slow flow. Also steam will invite trouble because of its character to easily store static electricity on inner surface of the hose.

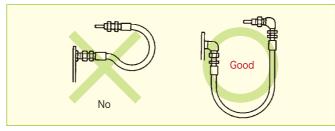
We recommend to use anti-static type hose to discharge static electricity.

# USE

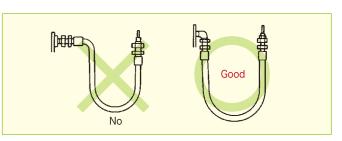
- ■Various equipments which need high isolation or high frequency trait.
- ■Pipe lines of super pure water for electronics or extra-super pure water.
- Seawater desalination plant for bio-technology industry.
- ■Transportation pipe lines in various kinds of manufacturing plants such as chemicals, food, pharmaceutical products, pulp, refrigeration, leather manufacturing, adhesive agent manufacturing, painting, rubber manufacturing, etc.
- Pipe lines of fuel, cooling water, air, lubricant, hydraulic system or steam, for airplane, automobile, ship, forged forming machine, machine tool, construction machine, etc.

# Note for Application of hose

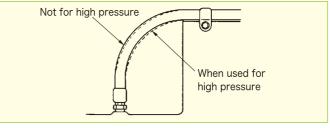
Even if hose has excellent efficiency, unless you use it correctly, it will not work in full efficiency. Followings are examples.



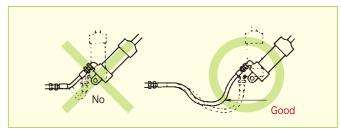
When using the hose in minimum bending radius, apply elbow as shown in the sketch to avoid sharp bending.



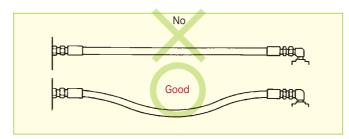
By applying elbow, please avoid extreme torsion or bending.



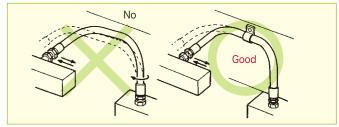
When the hose has inner pressure by fluid, hose length will slightly change. But do not fix the bending portion to suppress the change.



Hose length need proper allowance. It will make hose movement smooth and avoid sudden bending.



When the hose is used for high pressure, length will change in range of +2% and -4%. So, it must have sufficient looseness.



When two ends of the hose are installed in different faces as shown in the sketch, please fix the hose in another face to avoid torsion.

Error		Correct
	When extend coiled hose, do not twist.	
***************************************	When install a hose, adjust the position of joint fitting to avoid twisting. (Static)	***************************************
	Please avoid to install a short hose, but apply a longer hose to make circle. (Static)	

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# Note for Application of hose

Error		Correct
	For many curves, apply elbows to avoid burden to a hose. Please keep the hose with only one curve.	
	Too much burden to a hose reduces its endurance. Hold the hose by support like a rail.	
	For short distance of connecting pipe line with vertical movement, please apply elbows to make a hose U-shape. (Dynamic)	
	Do not hang a hose at a part. Please apply a pulley or round support to avoid burden to the hose. (Static)	
	When installing a hose to horizontal outlet of the line, please apply elbow joint. (Static)	
	When a hose is installed horizontally and one end of the hose moves vertically, we recommend to locate the other end in the center of vertical movement. (Dynamic)	
	For horizontal movement, please install a hose vertically. (Dynamic)	
	If horizontal movement is big, it might damage the hose. Please apply longer hose to draw 90°curve. (Dynamic)	
	In case there are vertical movement and horizontal movement in the connection of vertical line and horizontal line, please locate both joint points and the hose to make straight line. (Dynamic)	

Error		Correct
	In case horizontal side is in upper position in the connection of vertical line and horizontal line, please apply elbow. (Dynamic)	
	In the connection of two horizontal lines with same distance, we recommend to apply a hose with suitalbe length to the distance. (Dynamic)	(I)
	In case one end of a hose moves sideways, it will cause twist. So, you must adjust direction of pipe line.	

# Others:

- 1. The hose is made of soft materials. So, when some sharp-edged objects get inside, inner surface of the hose might be damaged. Please be careful to avoid such objects or outer damage.
- 2. In the pipe line where water hammer shock may occur, please absorb shock by applying elbows or change hose installing location.

# Request when you order Please place order by confirming the followings.

No.	ltem	Note
1	N.B.	Nominal Bore of pipe
2	Pressure	Necessary for selecting hose and designing structure
3	Kind of fluid	Necessary for selecting hose and designing structure
4	Temperature	Necessary for selecting hose and designing structure
5	Condition of installation	Min. bending radius, frequency of bending, or displacement of pipe line, etc.
6	Face to face distance	Necessary for designing hose length
7	Kind of joint fitting	Thread, flange, or others
8	Materials of tube and fitting	When special materials are needed due to surrounding atmosphere
9	Vibration, etc.	Frequency of vibration

# Notes on this catalog. When you refer to this catalog, please note the followings.

- 1. Please do note use the hose for other applications than shown in this catalog.
- 2. Physical properties shown in this catalog are typical ones. Unless otherwise specified, peculiar data are based on either our own test results or actual records of general use.
- 3. Even if you use the hose for applications shown in this catalog, conditions could be different. So, we recommend you to make test operation under the actual condition.
- 4. Contents in this catalog could be changed without notice.

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