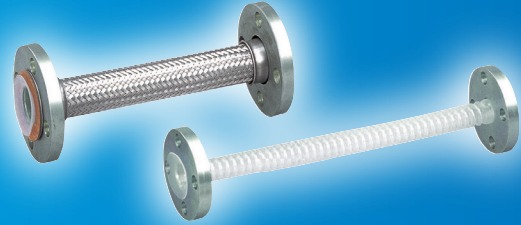


Fluoropolymer flexible joint Corrugated type

# POLIFLEX (Flange Type)

A fluoropolymer corrugated flexible hose excellent in elasticity and flexibility



Make-to-order products

## Feature

### Flexibility

Corrugated (bellows type) design which is excellent in flexibility and reciprocating resilience.

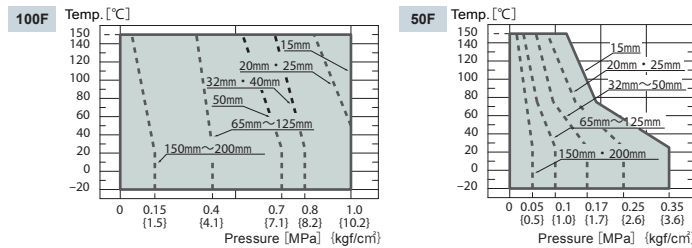
### Various Products

A flexible product suitable for different combinations. Available in flange type and screwed type (with/without blade)

Product number	Connection	The presence or absence of blade.	Maximum allowable working pressure MPa(kgf/cm <sup>2</sup> )	Connection
100F	Flange	Yes	1.0{10.2}	Fluoropolymer
50F		No	0.35{3.6}	

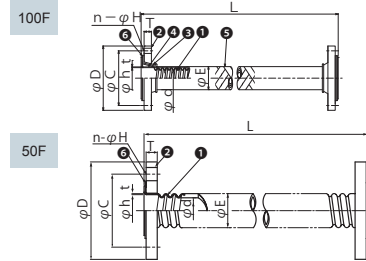
\*The max working pressure is different based on different diameter, so please refer to the working range graph.

## Operating Conditions and Performance



- Please use within the operation range of maximum operation pressure and maximum service temperature.
- Special design of Model 100F and 50F for vacuum application is also available. Please contact our sales representatives.

## Structure



No.	Parts	Material	No.	Parts	Material
①	Corrugation hose	Fluoropolymer	⑤	Wire blade	SUS304
②	Flange	SUS304	⑥	Back up gasket	Joint sheet
③	Flange collar	SUS304	⑦	Cover	SUS304
④	Taper ring	SUS304			

• Both flanges are loose type.

Flange compatible dimension	Standard	JIS10K	Material	Standard	SUS304
	changeable	○		JIS5K	changeable
	×	Potable water		×	FCD450
	×	JIS20K		×	SUS316
	×	ANSI		○	Polyvinyl chloride

Model POLIFLEX SOFT with higher flexibility and cost saving is also available. Contact our sales representatives.

## Dimensions and Minimum bending radius

100F · 50F

Nominal Dia.			Dimension [mm]						JIS10K flange				Minimum bending radius [mm]		Maximum product length [mm]			
mm	inch	φd	φh		t	φE		φD	φC	T	n-φH	100F	50F	Minimum	Maximum	Minimum	Maximum	
			100F	50F		100F	50F											100F
15	1/2	15	21	22	1.2	25	23.5	95	70	12	4-15	100	70	150	6000	150	6000	
20	3/4	18	24	25	1.3	29	27	100	75	14	4-15	130	100	150	6000	150	6000	
25	1	26	29	30	1.3	37	35	125	90	14	4-19	150	120	150	6000	150	6000	
32	1 1/4	31	39	39	1.5	45	43	135	100	16	4-19	200	170	200	6000	150	6000	
40	1 1/2	37	46	46	1.5	51	49	140	105	16	4-19	250	220	200	6000	150	6000	
50	2	48	58	58	1.5	64	62	155	120	16	4-19	300	270	200	6000	150	6000	
65	2 1/2	64	72	74	1.8	80	77	175	140	18	4-19	350	320	250	6000	200	6000	
80	3	75	86	87	1.8	95	93	185	150	18	8-19	400	370	250	6000	200	6000	
100	4	91	101	116	2.0	115	113	210	175	18	8-19	280	280	250	2600	150	2600	
125	5	91	101	116	2.0	115	113	250	210	20	8-23	280	280	250	2600	150	2600	
150	6	140	164	167	2.5	174	172	280	240	22	8-23	700	600	250	2000	150	2000	
200	8	184	217	220	2.5	228	225	330	290	22	12-23	950	800	250	2000	150	2000	

• In the table above Referring to "fixing bolt dimension table", and use fixing bolt. Nut is not necessary. (When companion flange is JIS 10K, material is SS400, Or SUS304 · 316 and when plain washer and gasket are not used.)

## Eccentricity amount by face-to-face dimension [Y]

100F

Nominal Dia.		Face to face length [L]									
mm	inch	200	300	400	500	600	700	800	900	1000	
15	1/2	10	24	38	52	66	80	95	109	123	
20	3/4	9	23	37	51	65	79	93	107	121	
25	1	4	19	33	47	61	75	89	103	117	
32	1 1/4	—	12	27	41	55	69	83	97	111	
40	1 1/2	—	10	24	38	52	66	80	94	108	
50	2	—	2	16	31	45	59	73	87	101	
65	2 1/2	—	—	11	25	39	53	67	81	95	
80	3	—	—	6	20	34	48	62	76	90	
100	4	—	—	—	12	26	40	54	68	83	
125	5	—	—	—	12	26	40	54	68	83	
150	6	—	—	—	—	3	17	31	45	59	
200	8	—	—	—	—	—	—	11	25	39	

50F

Nominal Dia.		Face to face length [L]									
mm	inch	200	300	400	500	600	700	800	900	1000	
15	1/2	13	27	41	55	69	83	97	111	125	
20	3/4	10	24	38	52	66	80	94	108	122	
25	1	7	21	35	49	63	77	91	105	119	
32	1 1/4	4	18	32	46	60	74	88	102	116	
40	1 1/2	1	15	29	43	57	71	85	100	114	
50	2	—	9	23	37	51	65	79	94	108	
65	2 1/2	—	4	18	32	46	60	74	88	102	
80	3	—	—	13	27	41	55	69	83	97	
100	4	—	—	6	20	34	49	63	77	91	
125	5	—	—	6	20	34	49	63	77	91	
150	6	—	—	—	—	14	28	42	56	70	
200	8	—	—	—	—	—	9	23	37	51	

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Agent

**TOZEN Corporation**  
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Saitama 342-0008 Japan

Fluoropolymer flexible joint Corrugated type

# POLIFLEX (Union Type)

A fluoropolymer corrugated flexible hose excellent in elasticity and flexibility



Make-to-order products

## Feature

### Flexibility

Corrugated (bellows type) design which is excellent in flexibility and reciprocating resilience.

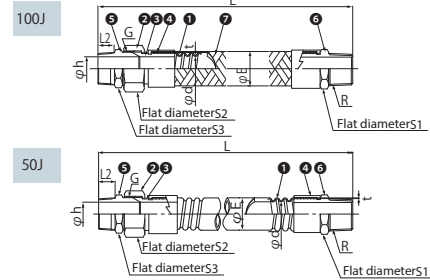
### Various Products

A flexible product suitable for different combinations. Available in flange type and screwed type. (with/without blade)

Product number	Connection	The presence or absence of blade.	Maximum allowable working pressure MPa(kgf/cm <sup>2</sup> )	Connection
100J	Screw in	Yes	1.2{12.2}	Fluoropolymer +
50J		No	0.35{3.6}	SUS

\*The max working pressure is different based on different diameter, so please refer to the working range graph.

## Structure



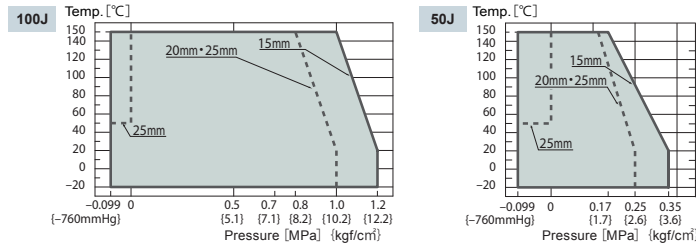
No.	Parts	Material	No.	Parts	Material
①	Corrugation hose	Fluoropolymer	⑤	Male adaptor	SUS304
②	Swivel nut	SUS304	⑥	Connection fitting	SUS304
③	Core bar	SUS304	⑦	Wire braid	SUS304
④	Cover	SUS304			

Material	Standard	SUS304
	changeable	<input type="checkbox"/> SS400 <input type="checkbox"/> FCD450 <input type="checkbox"/> SUS316 <input type="checkbox"/> Polyvinyl chloride

● Standard type of connection fitting is male adaptor + male nipple, but possible to change to other type (refer below).

Model POLIFLEX SOFT with higher flexibility and cost saving is also available. Contact our sales representatives.

## Operating Conditions and Performance



- Please use within the operation range of maximum operation pressure and maximum service temperature.
- Special design of Model 100F and 50F for vacuum application is also available. Please contact our sales representatives.

## Dimensions and Minimum bending radius

Nominal Dia.		Dimension [mm]				Joint fitting [mm]							Minimum bending radius [mm]	Maximum product length [mm]	
mm	inch	φd	t	φE		R	L2	S1	S2	S3	G	φh		Minimum	Maximum
15	1/2	15	1.2	25	23.5								R1/2		
20	3/4	18	1.3	29	27	R3/4	19	29	32	29	G3/4	17	130	270	6000
25	1	26	1.3	37	35	R1	22	35	41	35	G1	23	150	300	6000

● Use the flexible joint not less than the minimum bending radius.

## Type of connection fitting

Connection fitting No.	Type of hose side fitting	Companion clamp type			
		Screw	Fixed + Fixed	Fixed + Adaptor	Adaptor + Adaptor
1	Male nipple (fixed)+Male nipple (fixed)		×	○	○
2	Male adaptor+Male nipple (fixed)	Tapered female screw+Tapered female screw	○	○	○
3	Male adaptor+Male adaptor		○	○	○
4	Male adaptor+Female adaptor	Tapered female screw+Tapered male screw	○	○	○
5	Male nipple (fixed)+Female adaptor		○	○	○
6	Female adaptor+Female adaptor	Tapered male screw+Tapered male screw	○	○	○

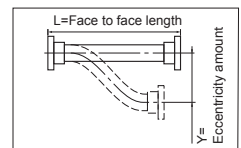
● Standard specification is No.2 male adaptor + male nipple. Please state the fitting No. when placing an order.

○ Usable × Unusable

## Eccentricity amount by face-to-face dimension [Y]

Nominal Dia.	Face to face length [L]									
	mm	inch	200	300	400	500	600	700	800	900
15	1/2	—	17	31	45	59	73	88	102	116
20	3/4	—	14	28	42	56	70	84	98	113
25	1	—	9	23	37	51	65	79	93	107

Nominal Dia.	Face to face length [L]									
	mm	inch	200	300	400	500	600	700	800	900
15	1/2	18	32	39	46	60	74	88	102	116
20	3/4	15	29	36	43	57	71	85	99	113
25	1	9	23	30	37	51	65	80	94	108



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