

# Flexible Hoses

## Fluoro Resin Type

**Flexible Hoses – Fluoro Resin Type**

Type	Material			Surface Treatment	Max. Operating Pressure
	Hose	Hose Reinforcement	Swage Fittings		
HOSFR	Fluoro Resin	304 Stainless Steel	1018 Carbon Steel or Equivalent	Trivalent Chromate	See Hose Specifications Table
HOSFRS			304 Stainless Steel	—	

**Features**

- Excellent in heat resistance and chemical resistance.
- Suitable for use with viscous materials, such as adhesives and paints.

**CAUTION**

- Avoid using the same hose for steam and water or for steam and nitrogen.

### Swage Fitting Shapes

**A Shape** **B Shape** **C Shape**

### Hose Specifications

Hose Nominal I.D.	Max. Operating Pressure (Mpa)	Min. Destructive Pressure (Mpa)	Min. Bending Radius (mm)	Approx. Mass (g/m)
4	20.5	82.0	51	105
6	20.5	82.0	76	120
8	17.0	68.0	102	145

### Swage Fitting Size List

Hose Nominal I.D.	R (PT) G (PF)	A Shape		B Shape			C Shape		
		B (Wrench Flats)	L	B <sub>1</sub> (Wrench Flats)	B <sub>2</sub> (Wrench Flats)	L	B <sub>1</sub> (Wrench Flats)	B <sub>2</sub> (Wrench Flats)	L
4	1/4	17	43	19	17	48	19	17	48
6	1/4	17	43	19	17	48	19	17	48
8	3/8	19	48	22	19	53	22	19	53

Part Number		Hose Length 0.1 m Increment	L Left End Swaged Shape	R Right End Swaged Shape	Hose I.D. (mm)	Hose O.D. (mm)
Type	Hose Nominal I.D.					
HOSFR HOSFRS	4	0.3–20.0	LA	RA	4.8	7.7
	6		LB	RB	6.4	9.5
	8		LC	RC	7.9	10.9

**Flexible Fluoro Resin Hoses – High-Flex Type**

Type	Material			Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Wire Braided	Fitting			
HOSJRS	Fluorine Resin	304 Stainless Steel	304 Stainless Steel	Air, gas, water, Solvent	-100–120°C	1.0 MPa

**Features**

- Spiral corrugated hose provides superior flexibility.
- Suitable for high vibration environment and applications where damages from deformation are expected.

### Swage Fitting Shapes

**A Shape** **B Shape**

### Hose Dimensions

Hose Nominal I.D.	I.D. (mm)	O.D. (mm)	Min. Bending Radius (mm)	Normal Pressure (Mpa)
6A	4.0	7.0	20	3.0
8A	5.0	8.5	20	2.5
10A	9.0	13.0	25	2.0
15A	11.0	16.5	30	2.0

### Swage Fitting Size List

Hose Nominal I.D.	R (PT) G (PF)	A Shape		B Shape	
		B (Wrench Flats)	L	B (Wrench Flats)	L
6A	1/8	12	39	14	37
8A	1/4	14	47	17	43
10A	3/8	19	53	21	49
15A	1/2	24	60	26	57

**Part Number Example**

Part Number - Hose Length - Shape L - Shape R

HOSFR6 - 1.0 - LA - RB

HOSJRS8A - 1.5 - LB - RA

Part Number		Hose Length 0.1 m Increment	L Left End Swaged Shape	R Right End Swaged Shape
Type	Hose Nominal I.D.			
HOSJRS	6A	0.3–2.0	LA	RA
	8A		LB	RB
	10A			
	15A			

# Hydraulic Fittings

## Straight

**PT/PT Threaded – Straight**

Type	Material	Surface Treatment
YCPT	1035 Carbon Steel	Trivalent Chromate
YCPTS	304 Stainless Steel	—

RoHS 10

**PT/PT Threaded – Straight, Female**

Type	Material	Surface Treatment
YCPF	1035 Carbon Steel	Trivalent Chromate
YCPFS	304 Stainless Steel	—

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**PT/PT Threaded – Straight, Male**

Type	Material	Surface Treatment
YCPFP	1035 Carbon Steel	Trivalent Chromate
YCPFSS	304 Stainless Steel	—

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**PT/PT Threaded – Straight, Male**

Type	Material	Surface Treatment
YCPFG	1035 Carbon Steel	Trivalent Chromate
YCPFGS	304 Stainless Steel	—

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**PT/PT Threaded – Straight, Female**

Type	Material	Surface Treatment
YCPFGP	1035 Carbon Steel	Trivalent Chromate

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**PT/PT Threaded – Straight, Female**

Type	Material	Surface Treatment
YCPFF	1035 Carbon Steel	Trivalent Chromate
YCPFFS	304 Stainless Steel	—

RoHS 10

Part Number		T <sub>1</sub> R (PT)	T <sub>2</sub> R (PT)	L	ℓ <sub>1</sub>	ℓ <sub>2</sub>	B
YCPT YCPTS	11	1/8	1/8	26	10	10	12
	12	1/8	1/4	31	10	13	17
	13	1/8	3/8	33	10	15	21
	22	1/4	1/4	34	13	13	17
	23	1/4	3/8	36	13	15	21
	33	3/8	3/8	37	15	15	21
	34	3/8	1/2	40 (46)	14 (16)	17 (19)	26 (22)
	44	1/2	1/2	43	17	17	26 (22)
46	1/2	3/4	46 (48)	17 (18)	19	32 (27)	
66	3/4	3/4	48	19	19	32 (27)	

Part Number		T R (PT)	F G (PF)	L	ℓ <sub>1</sub>	ℓ <sub>2</sub>	B
YCPF YCPFS	11F	1/8	1/8	27	10	11	14
	12F	1/8	1/4	32	10	13	19
	13F	1/8	3/8	34	10	15	22
	21F	1/4	1/8	32	13	11	14
	22F	1/4	1/4	34	13	13	19
	23F	1/4	3/8	36	13	15	22
	31F	3/8	1/8	34	15	11	19
	32F	3/8	1/4	36	15	13	19
	33F	3/8	3/8	38	15	15	22
	34F	3/8	1/2	42	15	17	27
	44F	1/2	1/2	47	18	18	27
	46F	1/2	3/4	50	18	20	32
64F	3/4	1/2	47	20	17	27	
66F	3/4	3/4	53	20	20	36	

Part Number		T R (PT)	F G (PF)	L	ℓ <sub>1</sub>	ℓ <sub>2</sub>	B
YCPFP YCPFSS	11F	1/8	1/8	31	10	13	14
	12F	1/8	1/4	34	10	16	19
	13F	1/8	3/8	37	10	17.5	22
	21F	1/4	1/8	34	13	13	14
	22F	1/4	1/4	37	13	16	19
	23F	1/4	3/8	38.5	13	17.5	22
	31F	3/8	1/8	37	15	13	19
	32F	3/8	1/4	38.5	15	16	19
	33F	3/8	3/8	40.5	15	17.5	22
	34F	3/8	1/2	45	15	20	27
	44F	1/2	1/2	48	18	20	27
	46F	1/2	3/4	52	18	22	32
64F	3/4	1/2	50	20	20	27	
66F	3/4	3/4	54	20	22	36	

Part Number		T R (PT)	F G (PF)	L	ℓ <sub>1</sub>	ℓ <sub>2</sub>	B
YCPFG YCPFGS	11F	1/8	1/8	31	10	6	14
	12F	1/8	1/4	34	10	8	19
	21F	1/4	1/8	34	13	6	14
	22F	1/4	1/4	38	13	8	19
	23F	1/4	3/8	39	13	8	22
	32F	3/8	1/4	39	15	8	19
33F	3/8	3/8	42	15	8	22	

Part Number		T R (PT)	F G (PF)	L	ℓ <sub>1</sub>	ℓ <sub>2</sub>	B
YCPFGP	22F	1/4	1/4	38	13	8	19
	33F	3/8	3/8	42	15	8	22
	44F	1/2	1/2	50	18	10	27

Part Number		T R <sub>c</sub> (PT)	F G (PF)	L	ℓ <sub>1</sub>	B
YCPFF YCPFFS	22F	1/4	1/4	30	13	19
	33F	3/8	3/8	34	15	22
	44F	1/2	1/2	40	18	27

### Specification

Applicable Fluid: Oil, Water  
Normal Operating Pressure: 20.6 MPa (210 kgf/cm<sup>2</sup> or less)

**Part Number Example**

Part Number: YCPT11