

Hydraulic Rubber Hoses

Hydraulic Rubber Hoses	Type			Connection	Material		Operating Temp. Range
	7.0 MPa Type	14.0 MPa Type	20.6 MPa Type		Hose	Wire Braided	
	HOSTR	HOSCR	HOSYR	Both Ends Swaged	Synthetic Rubber (Reinforcement: Hard Steel Wire)	—	-40~100°C
	HOSTW	HOSCW	HOSYRW		1025 Carbon Steel or Equivalent	304 Stainless Steel	
	HOSTS	HOSCS	HOSYRS		Inner Tube: Polyester Elastomer Reinforcement: Polyester Fiber Outer Covering: Polyurethane Elastomer	—	-40~100°C (60°C for Water)
	—	HOMCR	HOMYR				

Metal Fitting Shape	Material	Surface Treatment
A B C D E F G H	1025 Carbon Steel or Equivalent	Trivalent Chromate
AS BS DS	304 Stainless Steel	—

① For Max. Operating Pressure of HOMCR, see Hose Dimensions Table.

Swage Fitting Shapes

A Shape (1025 Carbon Steel or Equivalent) AS Shape (304 Stainless Steel)	B Shape (1025 Carbon Steel or Equivalent) BS Shape (304 Stainless Steel)	C Shape (1025 Carbon Steel or Equivalent)	D Shape (1025 Carbon Steel or Equivalent) DS Shape (304 Stainless Steel)
E Shape (45° PF Fitting 30° Male)	F Shape (45° PF Fitting 30° Female)	G Shape (90° PF Fitting 30° Male)	H Shape (90° PF Fitting 30° Female)

Hose Dimensions

Hose Nom. I.D.	HOST			HOSCR			HOSYR			HOSYRW			HOSYRS		
	I.D. (mm)	Min. Bending Radius (mm)	Max. Op. Press (Mpa)	I.D. (mm)	Min. Bending Radius (mm)	Max. Op. Press (Mpa)	I.D. (mm)	Min. Bending Radius (mm)	Max. Op. Press (Mpa)	I.D. (mm)	Min. Bending Radius (mm)	Max. Op. Press (Mpa)	I.D. (mm)	Min. Bending Radius (mm)	Max. Op. Press (Mpa)
6	6.3	40	7.0	6.3	45	14.0	6.3	45	20.6	6.3	30	19.0	6.3	50	20.6
9	9.5	50		9.5	55		9.5	60		9.5	60				
12	12.7	60		12.7	70		12.7	80		12.7	80				
15	15.9	80		15.9	95		15.9	110		15.9	110				
19	19.0	100		19.0	110		19.0	130		19.0	130				
25	25.4	120	25.4	140	25.4	180	25.4	180							

Swage Fitting Size List

Hose Nominal I.D.	R (PT) G (PF)	A Shape		B Shape		C Shape		D Shape		E Shape		F Shape		G Shape		Shape H		
		B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	B (Wrench Flats)	L	
6	1/4	19	51.5	19	51.5	19	48.0	19	51.5	19	69.0	26.0	19	69.0	26.0	19	52.0	44.5
9	3/8	22	62.5	22	62.5	22	59.0	22	62.5	22	88.0	28.5	22	88.0	28.5	22	68.0	51.5
12	1/2	27	69.5	27	69.5	27	67.0	27	69.5	27	96.0	33.0	27	96.0	33.0	27	76.0	59.5
15	3/4	36	71.9	36	76	36	71.9	36	76	36	116.0	41.5	36	116.0	41.5	36	99.0	77.0
19	3/4	36	78.5	36	78.5	36	75.0	36	78.5	36	118.0	41.5	36	118.0	41.5	36	98.5	77.0
25	1	41	86.5	41	90	41	86.5	41	90	41	131.0	47.5	41	131.0	47.5	41	116.0	90.5

① Hose nominal I.D. 15 is not selectable for 304 Stainless Steel swaged metals.

Part Number	Type	Hose Nominal I.D.	Hose Length 0.1 m Increment	L Left End Swaged Shape	R Right End Swaged Shape	Hose Protection Spring Guard
Both Ends Fitting HOSTR HOSCR HOSYR	—	6	0.3~20.0	LA LB LC LD LE LF LG LH LAS LBS LDS	RA RB RC RD RE RF RG RH RAS RBS RDS	LSG (Left) RSG (Right)
		9				
		12				
		15				
		19				
Wire Braided Both Ends Fitting (1025 Carbon Steel) HOSTW HOSCW HOSYRW	—	6	0.3~20.0	LA LB LC LD LE LF LG LH LAS LBS LDS	RA RB RC RD RE RF RG RH RAS RBS RDS	—
		9				
		12				
		15				
Wire Braided Both Ends Fitting (304 Stainless Steel) HOSTS HOSCS HOSYRS	—	6	0.3~20.0	LA LB LC LD LE LF LG LH LAS LBS LDS	RA RB RC RD RE RF RG RH RAS RBS RDS	—
		9				
		12				
Hydraulic Plastic Hoses – Both Ends Swaged HOMCR HOMYR	—	6	0.3~20.0	LA LB LC LD LE LF LG LH LAS LBS LDS	RA RB RC RD RE RF RG RH RAS RBS RDS	—
		9				
		12				

Part Number Example

Part Number - Hose Length - Shape L - Shape R - Hose Protection (Left) - Hose Protection (Right)

HOSYR9 - 1.2 - LB - RA - LSG - RSG

Part Number Alterations

Part Number - Hose Length - Shape L - Shape R - Hose Protection (Left) - Hose Protection (Right) - (EAS)

HOSYR9 - 1.0 - LE - RG - LSG - RSG - EAS180

Alterations

Code Elbow Angle

EAS

Spec.

When choosing swaged ends with elbows (E, F, G, H), specify the elbow angles. Specifies the angle of the right elbow from left elbow (RE, RF, RG, RH) as the basis.

(When not specified) (Specifying angle)

Both left and right elbows are in the same direction

Left elbow angle as reference

Ordering Code:
Select from EAS90, EAS180 and EAS270.

Hydraulic Rubber Hoses

Quick Swaging Type

Quick Swaging Type

HOKT (Hose Body)

Hose	Material	Temp. Range
Weather Resistant Synthetic Rubber Reinforcement: Wire Braided Spiral Wires	—	-40~93°C

Swage Fitting Shape

Material	Surface Treatment
1025 Carbon Steel or Equivalent	Trivalent Chromate

Fitting Shapes

HOKTA (Shape A)	HOKTB (Shape B)	HOKTC (Shape C)	HOKTD (Shape D)
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Hose Dimensions

Hose Nominal I.D.	I.D.	O.D.	HOKT		
			Min. Bending Radius (mm)	Max. Operating Pressure (Mpa)	Min. Destructive Pressure (Mpa)
6	6.4	14.7	85	20.7	82.7
7	7.9	17.1	100	15.5	62.0
12	12.7	23.4	140	12.1	48.3
15	15.9	27.4	165	10.3	41.4

Swaging Part Size List

Hose Nominal I.D.	R (PT) G (PF)	HOKTA (A Shape)			HOKTB (B Shape)			HOKTC (C Shape)				HOKTD (D Shape)			
		X (Wrench Flats)	D	L	X (Wrench Flats)	D	L	X (Wrench Flats)	Y (Wrench Flats)	D	L	X (Wrench Flats)	Y (Wrench Flats)	D	L
6	1/4	17	32	52	17	32	52	17	19	37	57	17	19	37	57
7	3/8	19	36	59	19	36	59	19	22	41	64	19	22	41	64
12	1/2	22	43	76	22	43	76	22	27	47	80	22	27	47	80
15	3/4	30	48	88	30	48	88	30	36	53	93	30	36	53	93

Part Number		Part Number	
Type	Hose Nominal I.D.	Type	Hose Nominal I.D.
HOKT	6	HOKTA HOKTB HOKTC HOKTD	6
	7		7
	12		12
	15		15

Features

– Length is determined based on machine in order to assemble.

Precautions for Use

– Due to customer assembly, it is not applicable to PL Law (Product Liability Law). Please note that any trouble after assembly will be self-responsibility.

Assembling Procedure

① The cut length of hose is the length of hose with fitting deducted of D dimension of both ends fitting.)

(1) Hose is cut perpendicular to axial direction. Use saw to cut the hose, thereafter, remove to clear cutting chips from inside the hose.

(2) Nip the socket into the vice, insert the hose. While rotating counterclockwise, screw all the way completely, then return ¼ rotation.

(3) Apply assembly lubricant to nipple outer surface and hose inner surface.

(4) While rotating the nipple clockwise, screw into the socket, and make the clearance between hexagon of nipple and socket to become 0.2-1.0 mm.