

# Duct Hoses

## Reducers / Aluminum Type

**Reducers for Duct Hose**

Type			Material	Surface Treatment
For Duct Hoses	For Aluminum Duct Hoses			
Flanged	No Flanged	Flanged	1018 Carbon Steel or Equivalent	Baked Acrylic Finish
HORM	HOARM	HOARFM		
HORS	HOAR	HOAFR		

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Part Number	Hose Nominal Dia.	d	D	L	D <sub>1</sub>	P.C.D.	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>		
For Duct Hoses (Flanged) HORM HORS	38	50	38	50.8	79	65	6.6	1.2	1.5		
		65	50.8	63.5	91.5	77.5		1.5			
	50	75	50.8	76.3	90	111	94	9	2	2	
		100	101.6	111	94						
		75	63.5	76.3	111	94					
	65	100	76.3	101.6	100	136	119	9	2	2	
		125	127	152.4	188	170					
	For Aluminum Duct Hoses (No Flange) HOARM HOAR (Flanged) HOARFM HOAFR	38	50	38	49	79	65	6.6	1.2	1.5	
			65	48.6	63.5	91.5	77.5		1.5		
		50	75	49	75	90	111	94	9	2	2
			100	49	98	136	119				
			75	63.5	75	111	94				
65		100	63.5	98	100	136	119	9	2	2	
		113	98	112	124	168	148				
125		150	124	149	100	193	173	9	2	2	
		150	124	149	193	173					

Part Number Example: HOARM50-65

**Duct Hoses – Aluminum Type**

Type	Material	Operating Temp. Range (°C)
HOAD	Aluminum Foil (Laminated) Hard Steel Wire	-20~80°C

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**Features**

- Flexible and elastic, can be stored compactly.
- It can be shortened to 1/5 of its original length. Stored compact for limited space.

Part Number	Hose Length	Hose I.D. (Reference)	D	P	Allowable Pressure Range	Allowable Decompression	Allowable Bending Radius	Reference Mass
HOAD	0.5-5	38	39	45.0	10.8	0-0.02 (0-0.2)	30	130
		50	50	55.3	10.8			168
		65	64	70.3	10.8			205
		75	75	80.3	10.8	0-0.01 (0-0.1)	70	244
		100	98	105.3	10.8			312
		117	113	119.3	10.8			375
		125	125	130.3	10.8			390
150	150	155.7	10.8	-10.0 (-75)	105	606		

Part Number Example: HOAD50 - 3.2

# Duct Hoses / Piping Parts for Aluminum Duct Hoses

## Heat Resistance, Low Dust Raise Type / Socket

**Duct Hoses – Heat Resistance, Low Dust Raise Type**

Type	Application	Material		Operating Temp. Range (°C)	
		Main Body	Others		
HOCTD	For Free Plumbing	Low Particle Generation Type	Aluminum Polyester Cloth	Reinforcement Spiral: Zinc Plating	-20~130°C
HOTD	For Fixed Plumbing	Heat-Resistant Type	Special Coating Glass Cloth	Reinforcement Spiral: 304 Stainless Steel	-20~250°C
HOTDS		Heat-Resistant Type	Aluminum Glass Cloth	Reinforcement Spiral: Low Carbon Steel (Zinc Plating)	-20~180°C
HOTDH	Heat Resistant, Heat Retention Type	304 Stainless Steel	304 Stainless Steel	Reinforcement Spiral: 304 Stainless Steel	30~450°C
HOTDK				Aluminum	Reinforcement Spiral: Glass Fiber
HOTDA					

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**Application of HOTDS (for Fixed Plumbing)**  
Elastic, and can be fixed at any angle or in any direction. (Do not stretch/release the hose repeatedly.)  
Aluminum Glass Cloth Sheets are highly flame resistant. (Flame Retardant Class 1-certificated) Hoses have no tightness.

**Application of HOTD (for Non-Fixed Plumbing)**  
Flexible and easy to store and transport. Special Coating Glass Cloth used for the products are highly elastic and flame resistant. (Flame Retardant Class 1-certificated) Hoses have no tightness.

**Application of HOTDH (for Fixed Plumbing)**  
Though designed for fixed plumbing, it can form curved portions. (Do not stretch/release the hose repeatedly.) Hoses have no tightness.

**Application of HOTDA (for Fixed Plumbing)**  
Requires no heat retention after installation, and thus, shortens work period.

Part Number	Hose Length	Hose I.D. (Reference)	D	P	Allowable Pressure Range (Mpa)	Allowable Decompression (Ambient Temp.) (kPa)	Reference Mass g/m	Allowable Bending Radius (mm)
HOCTD Low Particle Generation Type	0.5-5	50	51	54.5	20	0-0.007	-8.5	370
		75	76	80	20			530
		100	102.5	106	23			640
		125	127.5	131	23			770
		150	152	155	23			945
HOTD Heat Resistant Temperature 250°C Type	0.5-5	50	51	54.5	20	0-0.007	-8.5	360
		65	67	71.5	20			480
		75	76	80	20			525
		90	91	94.5	23			545
		100	102.5	106	23			635
HOTDS Heat Resistant Temperature 180°C Type	0.5-5	50	51	54.5	20	0-0.007	-8.5	405
		65	67	71.5	20			460
		75	76	80	20			525
		90	91	94.5	23			545
		100	102.5	106	23			635
HOTDH Heat Resistant Temperature 450°C Type	0.5-2	50	52.5	56	20	0-0.007	-10.5	365
		65	67	71.5	20			460
		75	76	80	20			525
		90	91.5	95	23			570
		100	102.5	106	23			635
HOTDK Heat Resistant Temperature 600°C Type	0.5-4	50	51.2	56.8	—	0-0.027	-27	220
		65	66.2	71.8	—			280
		75	76.2	81.8	—			320
		80	81.2	86.8	—			340
		100	101.7	107.3	—			420
HOCTD Heat Insulating Layer Coated Type	0.5-2	50	50.9	107	4.1	0.009	-9	470
		75	75.9	132	4.1	0.007	-7.2	590
		100	101.4	157	4.1	0.006	-6	720

- ① Hose length refers to the length when the hose is stretched without tensile load. (The allowable pressure is the maximum design pressure. The allowable reduction pressure is the maximum negative pressure that can be applied to the hose under ambient temperature. Above range is for Hose Body only. Use data as reference.)
- ② Use two hose clamps for each installation location to secure the hose.

**Piping Parts – For Aluminum Duct Hoses Socket**

L Dim. Selectable	L Dim. Configurable	Material	Surface Treatment
HOAM	—	1018 Carbon Steel or Equivalent	Baked Acrylic Finish
HOAS	HOASK	304 Stainless Steel	—

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Part Number	L	D	t
HOAM HOAS HOASK	50-200	38	1.2
		50	1.5
		65	2
		75	2
		100	2
		113	2
		125	2
150	2		

Part Number Example: HOAM50