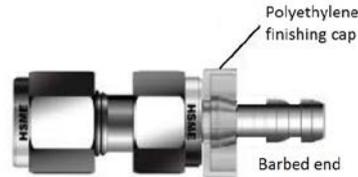


Features

- HSME APH Series Push-On fittings is easy to use and reusable.
- No clamps or special tools are required during installation.
- Assemblies can be made in seconds.



Design

Blue cap and barbed end of HSME Push-On fittings are designed to use with low-pressure elastomeric hoses in table 1.

Table 1. Hose dimensional and technical data

Hose Size Designator	Nominal Hose Size inch	Average I.D.		Average O.D.		Max. Working Pressure	
		inch	mm	inch	mm	psi	bar
4	1/4	1/4	6.3	0.50	12.7	350	24
6	3/8	3/8	10	0.63	16	300	20
8	1/2	1/2	12.5	0.78	20	300	20
10	5/8	5/8	16	0.91	23	300	20
12	3/4	3/4	19	1.03	26	300	20
16	1	1	25	1.28	32.6	175	12

Pressure ranges

Low pressure as indicated in Table 1.

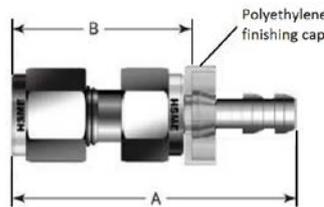
Temperature ranges

It depends on the materials of hose in use.

Applications

Instrument air system, vacuum, and general industrial applications.

Note: Use in the extreme pulsations is not recommended.



M TUBE FITTINGS



Dimensions are in inch unless otherwise specified.

Part No.	End Connections		Dimensions				
	Hose Nominal Sizes	M TUBE FITTING	Blue Cap OD	Body Hex	Nut Hex	A	B
						inch (mm)	
APHA 4-4-SS	1/4	1/4	0.68 (17.4)	1/2	9/16	1.97 (50.0)	1.21 (30.7)
APHA 6-6-SS	3/8	3/8	0.84 (21.5)	5/8	11/16	2.11 (53.6)	1.24 (31.5)
APHA 8-8-SS	1/2	1/2	0.98 (24.9)	13/16	7/8	2.47 (62.7)	1.42 (36.1)

Tube Adapters



Part No.	End Connections		Dimensions in. (mm)			
	Hose Nominal Sizes	M TUBE FITTING	Blue Cap OD	Body Hex	A	B
APHT 4-4T-SS	1/4	1/4	0.68 (17.4)	9/16	1.93 (49.0)	1.17 (29.7)
APHT 6-6T-SS	3/8	3/8	0.84 (21.5)	3/4	2.03 (51.6)	1.16 (29.5)
APHT 8-8T-SS	1/2	1/2	0.98 (24.9)	7/8	2.47 (62.7)	1.42 (36.1)
APHT 12-12T-SS	3/4	3/4	1.26 (32.2)	1-1/16	3.14 (79.8)	1.48 (37.6)
APHT 4-6M-SS	1/4 in.	6 mm	0.68 (17.4)	9/16	1.93 (49.0)	1.17 (29.7)
APHT 4-8M-SS		8 mm	0.68 (17.4)	9/16	1.97 (50.1)	1.16 (29.5)
APHT 6-8M-SS	3/8 in.	10 mm	0.84 (21.5)	3/4	2.0 (50.9)	1.18 (30.0)
APHT 6-10M-SS		12 mm	0.84 (21.5)	3/4	2.03 (51.6)	1.16 (29.5)
APHT 8-12M-SS	1/2 in.	12 mm	0.98 (24.9)	7/8	2.47 (62.7)	1.42 (36.1)
APHT 12-18M-SS	3/4 in.	18 mm	1.26 (32.2)	1-1/16	3.14 (79.8)	1.48 (37.6)

Male Connectors



Part No.	End Connections		Dimensions in. (mm)			
	Hose Nominal Sizes	Male Pipe Thread	Blue Cap OD	Body Hex	A	B
APHM 4-4N-S	1/4	1/4 NPT	0.68 (17.4)	9/16	1.68 (42.7)	0.92 (23.4)
APHM 6-4N-S				11/16		
APHM 6-6N-S	3/8	3/8 NPT	0.84 (21.5)	11/16	1.80 (45.7)	0.93 (23.7)
APHM 8-8N-S				7/8		
APHM 12-12N-S	3/4	3/4 NPT	1.26 (32.2)	1-1/16	2.81 (71.4)	1.15 (29.2)
APHM 4-4R-S	1/4	1/4 BSPT	0.68 (17.4)	9/16	1.68 (42.7)	0.92 (23.4)
APHM 6-6R-S	3/8	3/8 BSPT	0.84 (21.5)	11/16	1.80 (45.7)	0.93 (23.7)
APHM 8-8R-S	1/2	1/2 BSPT	0.98 (24.9)	7/8	2.19 (55.6)	1.14 (29.1)
APHM 12-12R-S	3/4	3/4 BSPT	1.26 (32.2)	1-1/16	2.81 (71.4)	1.15 (29.2)

Unions

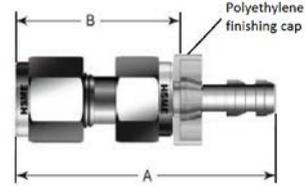


Part No.	End Connections		Dimensions		
	Hose Nominal Sizes	Blue Cap OD	Body Hex	A	B
				inch (mm)	
APHU 4-4-S	1/4	0.68 (17.4)	9/16	2.07 (52.6)	1.41 (36.0)
APHU 6-6-S	3/8	0.84 (21.5)	3/4	2.25 (57.2)	1.38 (35.2)
APHU 8-8-S	1/2	0.98 (24.9)	7/8	2.61 (66.3)	1.56 (39.8)
APHU 12-12-S	3/4	1.26 (32.2)	1-1/16	3.87 (98.4)	2.21(56.2)

Field Assembly

Hose length

To determine the hose cut length out of bulk hose, subtract dimension B from the desired overall fitting and hose assembly length.



Assembly



1. Using a sharp knife, cut hose end cleanly and squarely.



2. With a light oil or soapy water, lubricate the barb end and/or hose I.D.



4. Hold fitting end against a flat surface. Grip hose approximately one inch from blue cap and push with a steady force until the hose bottoms inside the blue cap firmly.

Note: Do not use heavy oil or grease to lubricate.

3. Insert fitting barb end into hose until first barb is engaged in the hose.

Disassembly

1. Place fitting and hose assembly in place and cut hose lengthwise from the blue cap approximately one inch.

Note: Not to nick barbs during cutting the hose.

2. Grip hose and bend to expose barbs, then remove hose with a sharp downward tug.

Ordering Information

HSME Identification	Push-On Fitting Designator	End Connection Designator	Size Designator		Material Designator
			4-4	SS	
A	PH	A: M TUBE FITTING Ends T: M TUBE FITTING Adapter U: Barb to Barb M: Male Pipe Thread	<ul style="list-style-type: none"> ● 4: 1/4" ● 5: 5/16" ● 6: 3/8" ● 8: 1/2" 	<ul style="list-style-type: none"> ● 10: 5/8" ● 12: 3/4" ● 16: 1" 	SS: SS316

The dimensions shown in this catalog are for reference only and are subject to change.

Component Selection

The selection of component for any application or system design must be considered to ensure safe performance. Component function, material compatibility, component pressure and temperature rating, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user, HSME Corporation accepts no liability for any improper selection, installation, operation or maintenance.