



# UNIT-HEADER®

## Manifolds for Instrumentation



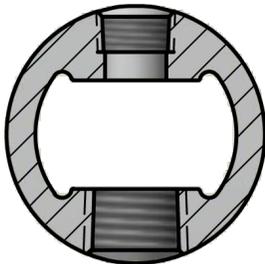
ALUMINUM  
2" NPT MANIFOLD

ALUMINUM  
1" NPT MANIFOLD

304 or 316 STAINLESS  
1" NPT MANIFOLD

- All UNIT-HEADER® manifolds are made to order
- Custom-manufactured from stock materials for quick delivery
- Shipped with all pipe threads and line taps pre-machined
- Each thread is factory machined & inspected to conform to NPT-ANSI/ASME 1.20.1

### Aluminum UNIT-HEADER® - 1" Pipe Manifold

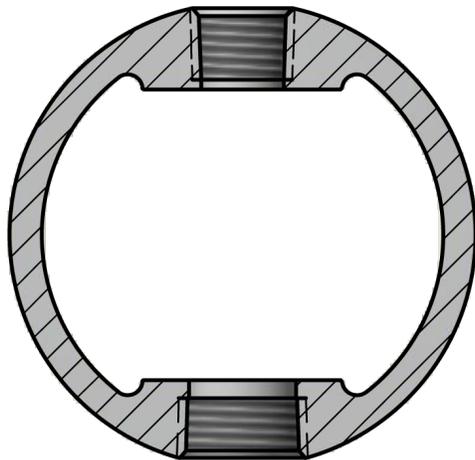


- Material: 6005-T5 Aluminum Extrusion
- Rated for 150 PSI maximum working pressure
- Maximum one piece manifold length: 240"
- Sizes: 1" sch. 40 IPS (International Pipe Size)
- 1" sch. 40 male thread each end of every manifold
- Cross sectional area of flow: 0.55 sq. in.
- Choose line taps from 1/8", 1/4", and 3/8" NPT sizes
- Primary and secondary tap lines 180° diametrically opposed
- Equivalent metric tap sizes are also available
- Minimum end of manifold to first tap: 1.5"
- Minimum tap spacing: 1.5". Allow for valve/fitting rotation.

Use only threaded pipe fittings that conform to NPT-ANSI/ASME 1.20.1 standards. Properly align threads before tightening to prevent cross threading. Use only a quality thread sealant that lubricates threads to prevent galling or seizing during assembly. Check the temperature range and environmental compatibilities of the thread sealant before installation. **JCWCO is not responsible for field damage to threads.**



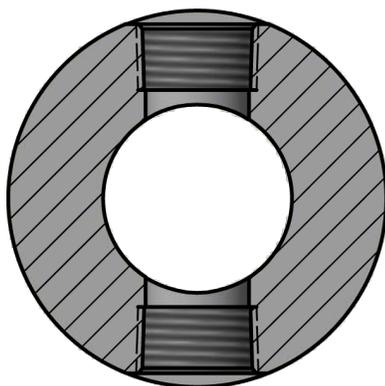
### Aluminum UNIT-HEADER® - 2" Pipe Manifold



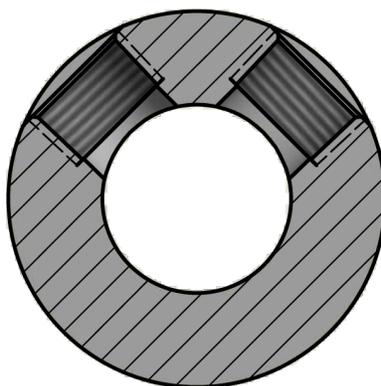
- Material: 6005-T5 Aluminum Extrusion
- Rated for 150 PSI maximum working pressure
- Maximum one piece manifold length: 240"
- Sizes: 2" sch. 40 IPS (International Pipe Size)
- 2" sch. 40 male thread each end of every manifold
- Cross sectional area of flow: 2.75 sq. in.
- Choose line taps from 1/8", 1/4", 3/8", and 1/2" NPT sizes
- Primary and secondary tap lines 180° diametrically opposed
- Equivalent metric tap sizes are also available
- Minimum end of manifold to first tap: 1.75"
- Minimum tap spacing: 1.5" (up to 3/8" tap size); 1.75" (for 1/2" taps). Allow for valve/fitting rotation.

### Stainless Steel UNIT-HEADER® - 1" Pipe Manifold

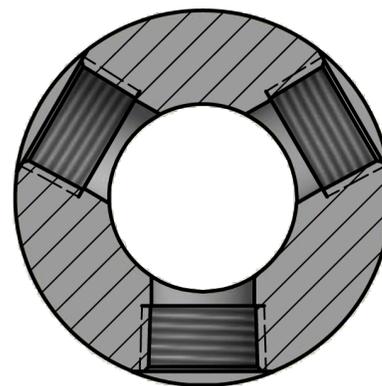
- Material: 304 or 316 Stainless Steel
- Rated for 600 PSI maximum working pressure
- Maximum one piece manifold length: 60"
- Sizes: 2" O.D. 1" I.D.
- 1" NPT female thread each end of every manifold
- Cross sectional area of flow: 0.75 sq. in.
- Choose line taps from 1/8", 1/4", 3/8", and 1/2" NPT sizes
- Multiple tap lines possible at minimum 90° on centers 1/8" to 3/8" NPT
- Multiple tap lines possible at minimum 120° on centers up to 1/2" NPT
- Equivalent metric tap sizes are also available
- Minimum end of manifold to first tap: 2.25"
- Minimum tap spacing: 1.5" (up to 3/8" tap size); 1.75" (for 1/2" taps). Allow for valve/fitting rotation.



Primary & Secondary  
Tap Lines  
Spaced at 180°



Primary & Secondary  
Tap Lines  
Spaced at 90°



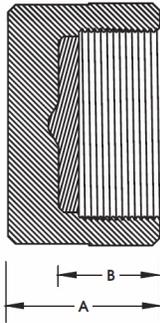
3 Tap Lines  
Evenly Spaced at 120°

Use only threaded pipe fittings that conform to NPT-ANSI/ASME 1.20.1 standards. Properly align threads before tightening to prevent cross threading. Use only a quality thread sealant that lubricates threads to prevent galling or seizing during assembly. Check the temperature range and environmental compatibilities of the thread sealant before installation. **JCWCO is not responsible for field damage to threads.**



Accessories sold separately from Manifolds.

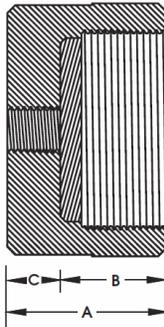
**Aluminum Cap**



Pipe Size	Dim. A	Dim. B	Part No.
1" NPT	2.000"	1.500"	16AL-CAP
2" NPT	1.875"	1.250"	32AL-CAP

Standard pipe fittings for Aluminum Manifolds only.

**Aluminum Reducers**



**1" Reducer**

Pipe Size	Dia.	Dim. A	Dim. B	Dim. C	Part No.
1" NPT	1/4"	2.000"	1.500"	0.500"	16AL-RED4
	3/8"	2.000"	1.500"	0.500"	16AL-RED6
	1/2"	2.000"	1.500"	0.500"	16AL-RED8
	3/4"	2.000"	1.500"	0.500"	16AL-RED12

**2" Reducer**

Pipe Size	Dia.	Dim. A	Dim. B	Dim. C	Part No.
2" NPT	1/4"	1.875"	1.250"	0.625"	32AL-RED4
	3/8"	1.875"	1.250"	0.625"	32AL-RED6
	1/2"	1.875"	1.250"	0.625"	32AL-RED8
	3/4"	1.875"	1.250"	0.625"	32AL-RED12
	1"	1.875"	1.250"	0.625"	32AL-RED16

Standard pipe fittings for Aluminum Manifolds only.

**Standard Mounting Brackets**

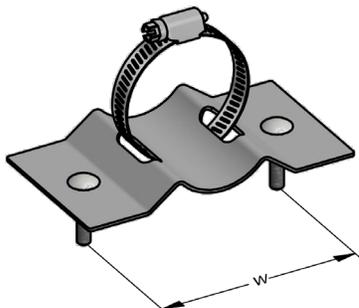


U.S. Patent #3567165  
Filed 20 Dec. 1968  
Issued 2 Mar. 1971

Metal	Pipe Size	Part No.
Stainless Steel T-304	1"	MBSS4-16UH
	2"	MBSS4-32UH
	2" O.D.	-

UNIT-HEADER® manifolds may be mounted vertically or horizontally. Sold in pairs. Complete with Clamp, Base, and Fastener.

**Heavy-Duty Mounting Brackets**



Metal	Min. OD	Max. OD	Part No.
Stainless Steel T-304	1.5"	2.4"	MBSS4-200
	2.3"	3.1"	MBSS4-250

UNIT-HEADER® manifolds may be mounted vertically or horizontally. Sold in pairs. Complete with Clamp, Base, and Fastener.

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Fill out this form with standard manifold requirements.  
Email to sales@JCWCO.com or Fax to 864-234-0526.  
Consult factory for non-standard manifold configuration.

**QUANTITY** \_\_\_\_\_

**TYPE & MATERIAL** \_\_\_\_\_

- (A) 1" IPS Aluminum UNIT-HEADER® Manifold
- (B) 2" IPS Aluminum UNIT-HEADER® Manifold
- (C) 1" 304 Stainless Steel UNIT-HEADER® Manifold
- (D) 1" 316 Stainless Steel UNIT-HEADER® Manifold

**PRIMARY TAP LINE** \_\_\_\_\_

\_\_\_\_\_ Tap Size (NPT)

\_\_\_\_\_ Total number of equally spaced taps

\_\_\_\_\_ Tap Spacing (inches)

\_\_\_\_\_ Start End to First Tap (inches)

\_\_\_\_\_ Last Tap to Far End (inches)

**If no taps in secondary tap line, stop here.**

**SECONDARY TAP LINE** \_\_\_\_\_

Orientation is 180° for all standard manifolds. For orientations other than 180°, or for more than 2 tap lines, consult the factory.

\_\_\_\_\_ Tap Size (NPT)

\_\_\_\_\_ Total number of equally spaced taps

\_\_\_\_\_ Tap Spacing (inches)

\_\_\_\_\_ Start End to First Tap (inches)

\_\_\_\_\_ Last Tap to Far End (inches)

**Overall Length (OAL)** \_\_\_\_\_

$$OAL = ((\text{Total Number of Taps} - 1) \times \text{Tap Spacing}) + \text{Start to 1st Tap} + \text{Last Tap to End}$$

