



3/4" manifolds with ball valves



2" manifolds with and without ball valves



1" manifold with flowmeters

General Description

Smartflow® aluminum manifolds are constructed from extruded material, machined, then anodized for corrosion protection. Many manifold sizes are stocked, however custom manifolds can be made to your specifications.

Standard red and blue anodizing denotes supply and return for cooling water lines. Green, black, clear and gold anodized manifolds are available. Call for pricing and delivery. 3/4", 1", and 1-1/2" manifolds are equipped with dovetail locking channels, pre-drilled mounting holes, and screws for ease in pairing and installation.

Features and Benefits

- **One-Piece Extruded Aluminum Construction** is lightweight with long-lasting durability.
- **Quality Anodizing** protects the manifolds from corrosion and signifies manifold function.
- **Different Port Size Options** provide connection flexibility.
- **Brass End Plug** is included for customer convenience.
- **Pre-Drilled Mounting Holes** make the manifolds ready to install.
- **Optional Ball Valves and Flowmeters** provide instant flow, pressure, and temperature information, plus shut off individual supply and return lines.
- **Single or Parallel Manifold Configurations** adapt to most mounting situations.
- **Common Manifold Configurations Stocked** to provide quick delivery.

Specifications

Material

3/4", 1", 1 1/2"Aluminum (6105-T6)
 2"Aluminum (6005-T5)
 Inlet Size3/4", 1", 1-1/2" or 2"
 NPT(F) standard
 British threads optional
 Port Sizesee pages 4-7

Maximum Working Pressure

Gas (air, inert gas).....1,000 psig (69 bar)
 Liquid (hydraulic oil, water, benign fluids)
 3,500 psig (241 bar)

Maximum Working Temperature

250°F (121°C)

Optional Ball Valves.....NPT only
 to match port size

Optional Flowmeters

(see page 15 for flowmeter details)
 with temperature gauges
 with pressure and temperature gauges
 flow rate options:
 1.5 gallons per minute
 2.5 gallons per minute
 8.0 gallons per minute
 10 liters per minute
 30 liters per minute

Supply Threads

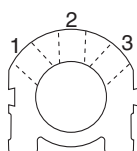
Manifold Styles

Single
Parallel

Total Number of Ports

Port Locations

1	Left
2	Center
3	Right



Port Sizes

2	1/4"NPT(F)
2B	1/4"BSPP(F)
2T	1/4"BSPT(F)
3	3/8"NPT(F)
3B	3/8"BSPP(F)
3T	3/8"BSPT(F)

Accessories (add accessory and anodizing designators to the end of the model number as needed)

A	Manifold only
B	Ball Valves only
C	Ball Valves and Plain Flowmeters *
D	Ball Valves and Flowmeters with Thermometers *
E	Ball valves and Flowmeters with Thermometers and Pressure Gauges*
F	Plain Flowmeters only *
H	Port Quick Connect Plugs
J	Port Hose Barbs
X	Special (consult the factory)

Anodizing





Y	Red
Z	Blue

* See page 15 for flowmeter information.
Specify flow rate when ordering.
Custom port spacing is required when using
1/4" ports with flowmeters. Flowmeters are
installed on the return (left) side of parallel
manifolds.

**Contact the
factory for other
thread styles
and sizes.**

**Quick delivery is standard for made-to-order manifolds.
Please call for availability.**

Stocked 3/4" Manifolds

Total Number of Ports	1/4" Ports				3/8" Ports			
								
	model number	length mm in.	model number	length mm in.	model number	length mm in.	model number	length mm in.
4	6SA- 4-2-2	190 7.5			6SA- 4-3-2	229 9		
6	6SA- 6-2-2	267 10.5			6SA- 6-3-2	330 13		
8	6SA- 8-2-2	343 13.5	6PA- 8-2-22	190 7.5	6SA- 8-3-2	432 17	6PA- 8-3-22	229 9
12			6PA-12-2-22	267 10.5			6PA-12-3-22	330 13
16			6PA-16-2-22	343 13.5			6PA-16-3-22	432 17

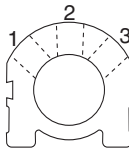
Ask us about custom configurations!

See page 8 for weights and dimensions.



1" ALUMINUM MANIFOLDS

Model Number

		SA - 16 - 2 - 2 - BHY							
Supply Threads	NPT	B			Port Locations				
	British Parallel								
	British Taper								
Manifold Styles	Single	SA							
	Parallel								
Total Number of Ports	4								
	to 32								

Port Sizes
2 1/4"NPT(F)
2B 1/4"BSPP(F)
2T 1/4"BSPT(F)
3 3/8"NPT(F)
3B 3/8"BSPP(F)
3T 3/8"BSPT(F)
4 1/2"NPT(F)
4B 1/2"BSPP(F)
4T 1/2"BSPT(F)

Contact the

Accessories (add accessory and anodizing designators to the end of the model number as needed)

- A** Manifold only
- B** Ball Valves only
- C** Ball Valves and Plain Flowmeters *
- D** Ball Valves and Flowmeters with Thermometers *
- E** Ball valves and Flowmeters with Thermometers and Pressure Gauges*
- F** Plain Flowmeters only *
- H** Port Quick Connect Plugs
- J** Port Hose Barbs
- X** Special (consult the factory)


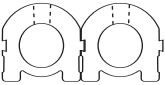


Anodizing

- Y** Red
 - Z** Blue
- * See page 15 for flowmeter information. Specify flow rate when ordering. Custom port spacing is required when using 1/4" ports with flowmeters. Flowmeters are installed on the return (left) side of parallel manifolds.

Contact the factory for other thread styles and sizes.

Quick delivery is standard for made-to-order manifolds. Please call for availability.

Stocked 1" Manifolds

Total Number of Ports	1/4" Ports				3/8" Ports			
								
	model number	length mm in.	model number	length mm in.	model number	length mm in.	model number	length mm in.
4	SA- 4-2-2	190 7.5			SA- 4-3-2	229 9		
6	SA- 6-2-2	267 10.5			SA- 6-3-2	330 13		
8	SA- 8-2-2	343 13.5	PA- 8-2-22	190 7.5	SA- 8-3-2	432 17	PA- 8-3-22	229 9
10	SA- 10-2-2	419 16.5			SA- 10-3-2	533 21		
12	SA- 12-2-2	495 19.5	PA- 12-2-22	267 10.5	SA- 12-3-2	635 25	PA- 12-3-22	330 13
16	SA- 16-2-2	648 25.5	PA- 16-2-22	343 13.5	SA- 16-3-2	838 33	PA- 16-3-22	432 17
20			PA- 20-2-22	419 16.5			PA- 20-3-22	533 21
24			PA- 24-2-22	495 19.5			PA- 24-3-22	635 25
32			PA- 32-2-22	648 25.5			PA- 32-3-22	838 33



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Website: www.plastixx.com

See page 8 for weights and dimensions.



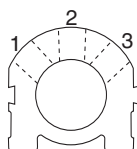
1-1/2" ALUMINUM MANIFOLDS

Model Number

		12	SA	-	16	-	2	-	2	-	BHY
Supply Threads											
NPT		12									
British Parallel		12B									
British Taper		12T									
Manifold Styles											
Single			SA								
Parallel			PA								
Total Number of Ports					4		to		32		
					3		3B		3T		
					4		4B		4T		
					6		6B		6T		

Port Locations

- 1 Left
- 2 Center
- 3 Right



Port Sizes

- | | |
|----|-------------|
| 3 | 3/8"NPT(F) |
| 3B | 3/8"BSPP(F) |
| 3T | 3/8"BSPT(F) |
| 4 | 1/2"NPT(F) |
| 4B | 1/2"BSPP(F) |
| 4T | 1/2"BSPT(F) |
| 6 | 3/4"NPT(F) |
| 6B | 3/4"BSPP(F) |
| 6T | 3/4"BSPT(F) |

Accessories (add accessory and anodizing designators to the end of the model number as needed)

- A Manifold only
- B Ball Valves only
- C Ball Valves and Plain Flowmeters *
- D Ball Valves and Flowmeters with Thermometers *
- E Ball valves and Flowmeters with Thermometers and Pressure Gauges*
- F Plain Flowmeters only *
- H Port Quick Connect Plugs
- J Port Hose Barbs
- X Special (consult the factory)

Anodizing


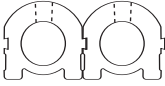
- Y Red
- Z Blue

* See page 15 for flowmeter information. Specify flow rate when ordering. Custom port spacing is required when using 1/4" ports with flowmeters. Flowmeters are installed on the return (left) side of parallel manifolds.

Contact the factory for other thread styles and sizes.

Quick delivery is standard for made-to-order manifolds. Please call for availability.

Stocked 1-1/2" Manifolds

Total Number of Ports	1/2" Ports					
						
	model number	length		model number	length	
		mm	in.		mm	in.
4	12SA- 4-4-2	254	10			
6	12SA- 6-4-2	356	14			
8	12SA- 8-4-2	457	18	12PA- 8-4-22	254	10
10	12SA- 10-4-2	559	22			
12	12SA- 12-4-2	660	26	12PA- 12-4-22	356	14
16	12SA- 16-4-2	864	34	12PA- 16-4-22	457	18
20				12PA- 20-4-22	559	22
24				12PA- 24-4-22	660	26
32				12PA- 32-4-22	864	34



2" ALUMINUM MANIFOLDS

Model Number

	A	16	-	4	-	BHY
Supply Threads						
NPT	A					
British Parallel	BA					
British Taper	TA					
Total Number of Ports		4 to 16				
				Port Sizes		
			4	1/2" NPT(F)		
			4B	1/2" BSPP(F)		
			4T	1/2" BSPT(F)		
			6	3/4" NPT(F)		
			6B	3/4" BSPP(F)		
			6T	3/4" BSPT(F)		
			8	1" NPT(F)		
			8B	1" BSPP(F)		
			8T	1" BSPT(F)		

Accessories (add accessory and anodizing designators to the end of the model number as needed)

A	Manifold only
B	Ball Valves only
C	Ball Valves and Plain Flowmeters *
D	Ball Valves and Flowmeters with Thermometers *
E	Ball valves and Flowmeters with Thermometers and Pressure Gauges *
F	Plain Flowmeters only *
H	Quick Connect Plugs
J	Port Hose Barbs
X	Special (consult the factory)

Anodizing

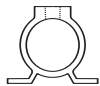
Y	Red
Z	Blue

* See page 15 for flowmeter information.
Specify flow rate when ordering.

Contact the factory for other thread styles and sizes.

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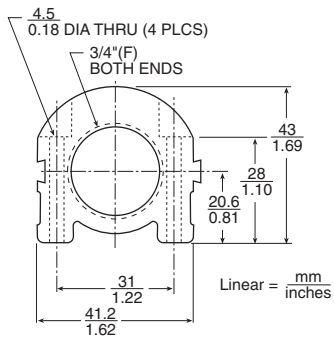
Ask us about custom configurations!

Stocked 2" Manifolds			
Total Number of Ports	1/2" Ports		
			
	model number	length	
		mm	in.
4	A4-4	254	10
6	A6-4	356	14
8	A8-4	457	18
12	A12-4	660	26
16	A16-4	864	34

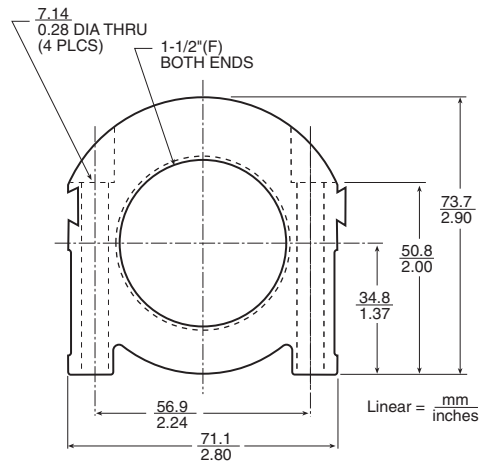
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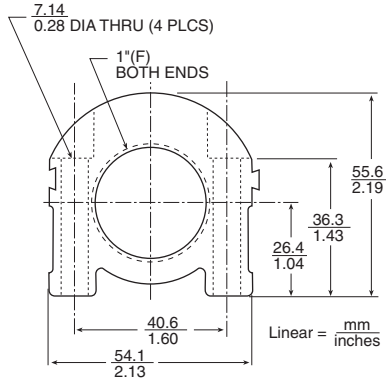
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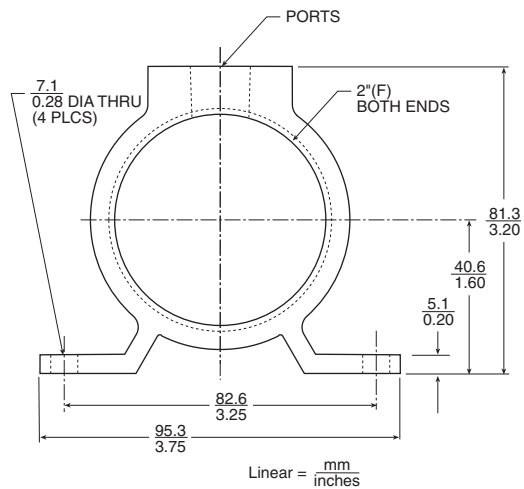
3/4" Manifold



1-1/2" Manifold



1" Manifold

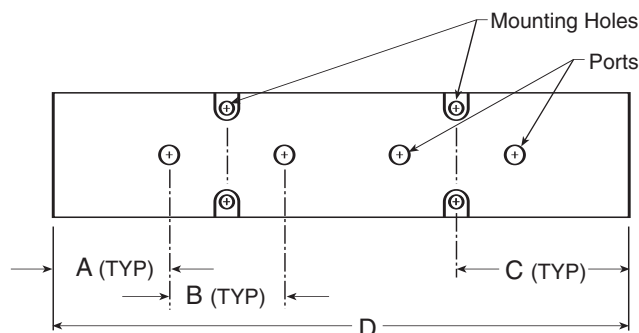


2" Manifold

Ask us about custom configurations!



STANDARD ALUMINUM MANIFOLD DIMENSIONS



Manifold Length (all sizes)

Dimension Chart (mm/inches)

MANIFOLD SIZE	PORT SIZE	A	B	C
3/4" & 1"	1/8"	38.1 1.5	25.4 1.0	50.8 2.0
	1/4"		38.1 1.5	57.2 2.25
	3/8"		50.8 2.0	63.5 2.5
	1/2"		50.8 2.0	63.5 2.5
1-1/2"	1/4"	38.1 1.5	38.1 1.5	57.2 2.25
	3/8"		50.8 2.0	63.5 2.5
	1/2"	50.8 2.0	50.8 2.0	76.2 3.0
	3/4"		76.2 3.0	88.9 3.5
2"	1/2"	50.8 2.0	50.8 2.0	25.4 1.0
	3/4"		76.2 3.0	
	1"		76.2 3.0	

Total Manifold Length

$$D = [(\text{number of ports} - 1) \times B] + (2 \times A)$$

Manifold Weight

3/4"	.15 lbs/in	2.65 g/mm
1"	.27 lbs/in	4.78 g/mm
1-1/2"	.44 lbs/in	7.79 g/mm
2"	.29 lbs/in	5.13 g/mm