

# **ALUMINUM MANIFOLDS**







3/4" manifolds with ball valves

2" manifolds with and without ball valves

### **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 1½" 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. ٠
- Brass End Plug is included for customer convenience. ٠
- Pre-Drilled Mounting Holes make the manifolds ready ٠ 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.

Design and specifications are subject to change without notice. See the back page for special manifold pressure rating notes.

### **Specifications**

#### Material

¾", 1", 1½"Aluminum (6105-T	5)
2"Aluminum (6005-T	5)
Inlet Size	2"
NPT(F) standa	rd
British threads option	al
Port Sizesee pages 5	-8
Max. Pressure150 psig (10 ba	.r)
Max. Temperature	C)

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

#### **Optional Flowmeters or Flow Regulators**

(see page 16 for flowmeter details)

with temperature gauges

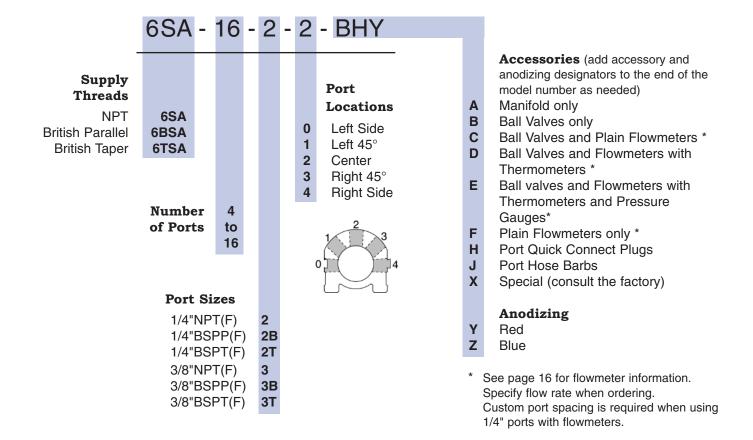
with pressure and temperature gauges flow rate options:

- 1.5 gallons per minute
- 2.5 gallons per minute
- 8.0 gallons per minute
- 10 liters per minute
- 30 liters per minute
- (see page 24 for flow regulator details)



# 3/4" ALUMINUM MANIFOLDS

### **Model Number**



<b>Contact the</b>					
factory for other					
thread styles					
and sizes.					

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

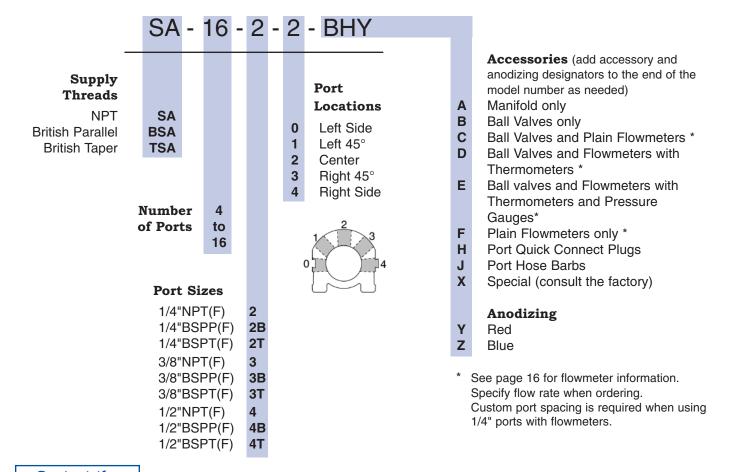
	Stocked 3/4" Manifolds								
Number		1/4"			3/8"				
of Ports		Ports			Ports				
	model number	length mm in.	weight each kg lbs.	model number	length mm in.	weight each kg lbs.			
4	6SA- 4-2-2	190 7.5	0.5 1.1	6SA- 4-3-2	229 9	0.6 1.4			
6	6SA- 6-2-2	267 10.5	0.7 1.6	6SA- 6-3-2	330 13	0.9 2.0			
8	6SA- 8-2-2	343 13.5	0.9 2.0	6SA- 8-3-2	432 17	1.2 2.6			

For paired installation, slide manifolds together using dovetail lock along the side of each manifold.



**1" ALUMINUM MANIFOLDS** 

## **Model Number**



Contact the factory for other thread styles and sizes.

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

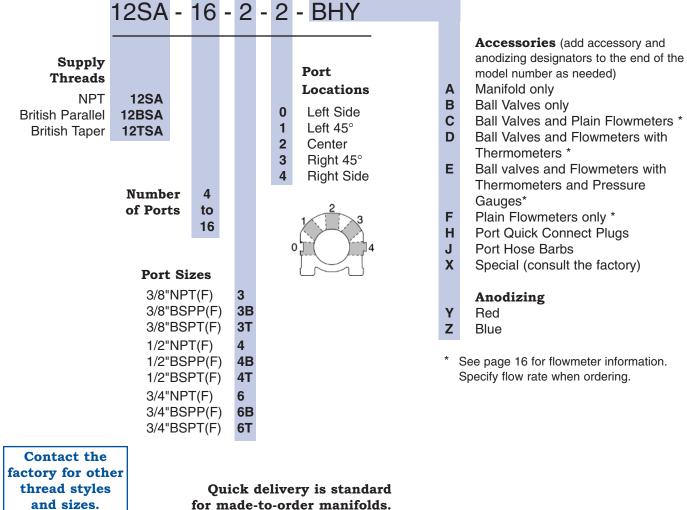
	Stocked 1" Manifolds										
Number of Ports	1/4" Ports							3/8" Ports			
	model number	len mm	gth in.	weigh kg	t each Ibs.		model number	len mm	gth in.	weight kg	each Ibs.
4	SA- 4-2-2	190	7.5	0.9	2.0		SA- 4-3-2	229	9	1.1	2.4
6	SA- 6-2-2	267	10.5	1.3	2.8		SA- 6-3-2	330	13	1.6	3.5
8	SA- 8-2-2	343	13.5	1.6	3.6		SA- 8-3-2	432	17	2.1	4.6
10	SA-10-2-2	419	16.5	2.0	4.5		SA-10-3-2	533	21	2.6	5.7
12	SA-12-2-2	495	19.5	2.4	5.3		SA-12-3-2	635	25	3.1	6.8
16	SA-16-2-2	648	25.5	3.1	6.9		SA-16-3-2	838	33	4.0	8.9

For paired installation, slide manifolds together using dovetail lock along the side of each manifold.



# 1-1/2" ALUMINUM MANIFOLDS

### **Model Number**



Please call for availability.

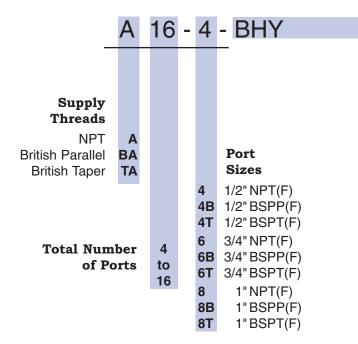
Stocked 1-1/2" Manifolds								
Number of Ports	1/2" Ports							
	model number	len mm	gth in.	weight each kg lbs.				
4	12SA- 4-4-2	254	10	2.0 4.4				
6	12SA- 6-4-2	356	14	2.8 6.2				
8	12SA- 8-4-2	457	18	3.6 7.9				
10	12SA-10-4-2	559	22	4.4 9.7				
12	12SA-12-4-2	660	26	5.1 11.4				
16	12SA-16-4-2	864	34	6.7 15.0				

For paired installation, slide manifolds together using dovetail lock along the side of each manifold.



# 2" ALUMINUM MANIFOLDS

## **Model Number**



**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)

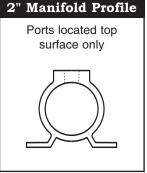
### Anodizing

- Y Red
- Z Blue
- \* See page 16 for flowmeter information. Specify flow rate when ordering.



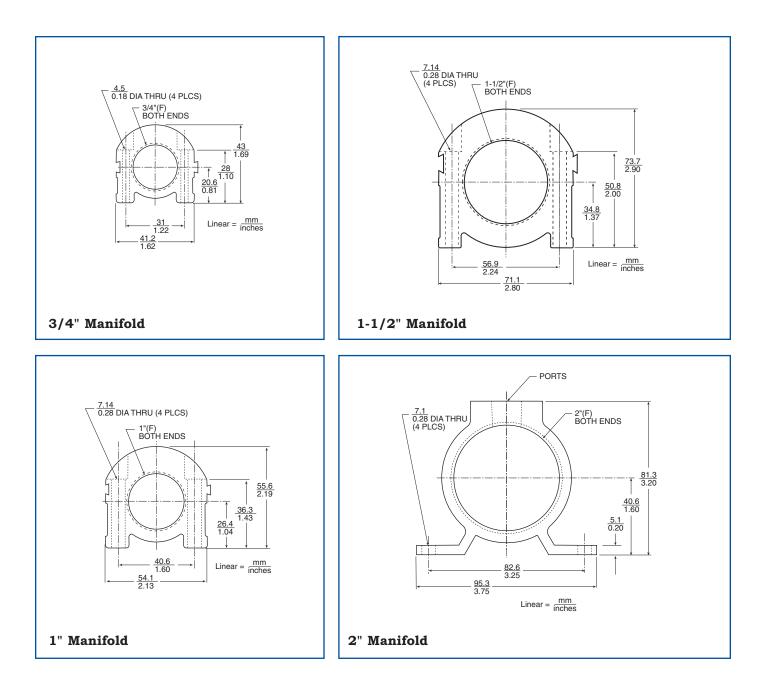
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	Stocke	d 2" Ma	anifold	ls		2" I
Number of Ports			1/2" Ports			F
	model number	len mm	igth in.	weight kg	each lbs.	
4	A4-4	254	10	1.3	2.9	
6	A6-4	356	14	1.8	4.1	
8	A8-4	457	18	2.4	5.2	
12	A12-4	660	26	3.4	7.5	
16	A16-4	864	34	4.5	9.9	



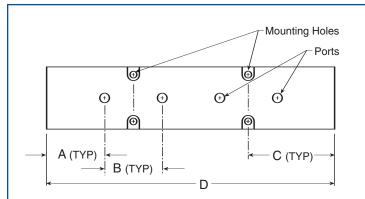


## **STANDARD ALUMINUM MANIFOLD DIMENSIONS**





## **STANDARD ALUMINUM MANIFOLD DIMENSIONS**



### Manifold Length (all sizes)

Dimension	<b>Chart</b> (mm/i	inches)		
MANIFOLD SIZE	PORT SIZE	A	В	с
	1/8"		25.4 1.0	50.8 2.0
3/4" & 1"	1/4"	38.1	<u>38.1</u> 1.5	<u>57.2</u> 2.25
3/4 & I	3/8"	1.5	50.8	<u>63.5</u>
	1/2"		2.0	2.5
	1/4"	38.1	<u>38.1</u> 1.5	<u>57.2</u> 2.25
1 1/0	3/8"	1.5	50.8 2.0	<u>63.5</u> 2.5
1-1/2"	1/2"	50.8	50.8 2.0	76.2 3.0
	3/4"	2.0	76.2 3.0	88.9 3.5
2"	1/2"		50.8 2.0	
	3/4"	<u>50.8</u> 2.0	76.2	<u>25.4</u> 1.0
	1"		3.0	

### Total Manifold Length

D = [(number of ports - 1) x B] + (2 x A)

Manifold W	Veight		
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	