

SMARTFLOW Aluminum Manifolds

General Description

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

Standard red and blue colors denote supply and return for cooling water lines. ¾", 1", and 1½" manifolds are equipped with dovetail locking channels, pre–drilled mounting holes, and bolts for ease in pairing and installation. Each manifold with NPT threads includes one bronze end plug.

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.
- Bronze End Plug is included for customer convenience (NPT only).
- Pre-Drilled Mounting Holes make the manifolds ready to install.
- 3/4 thru 1-1/2 manifolds dovetail together for ease in mounting.
- Common Manifold Configurations Stocked to provide quick delivery.

Specifications

Material	Aluminum (6000 Series)
Max. Pressure	150 psi (10 bar)
Max. Temperature	300°F (149°C)
Anodizing	Mil Spec Type II Class 2
Standard Colors	Red, Blue
Optional Colors	Black, Green, Gold, Clear

Assembly

Smartflow® aluminum manifolds are the platform for control of cooling water lines in most types of industrial process cooling. Injection molding is one example and our particular area of expertise. Flowmeters, Flow Regulators, Ball Valves, Quick Disconnect Fittings and more can be added to the manifolds to improve functionality and process control. See page 12 for ordering information.

Custom Manifolds

Special port sizes and locations are possible with Smartflow aluminum manifolds. All fabrication is done from extruded material at our factory in Kansas City. Contact your distributor for price and delivery on custom manifolds.

3D CAD Data is available on demand at **www.MANIFOLDBUILDER.com**







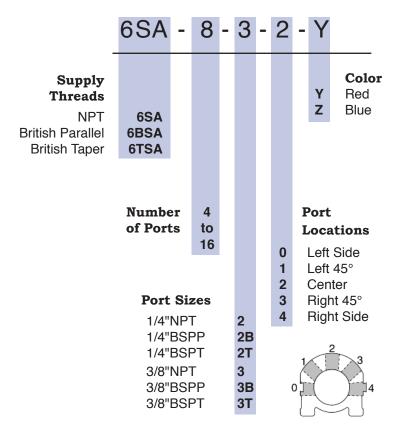


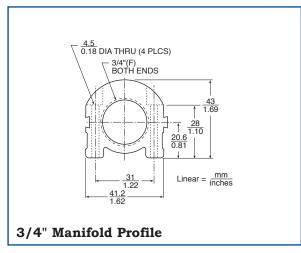


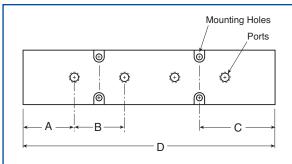


SMARTFLOW 3/4" Aluminum Manifolds

Model Number (manifold only, see page 12 to add port valves, quick connects and flowmeters)







Stocked 3/4" Manifolds								
Number of Ports	A = 3	1/4" Ports 8.1mm/1.5", B = 3 C = 57.2mm/2.		3/8" Ports A = 38.1mm/1.5", B = 50.8mm/2.0" C = 63.5mm/2.5"				
	model number	length (D) mm in.	weight each kg lbs.	model number	length (D) 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		

Contact your distributor for custom manifolds.

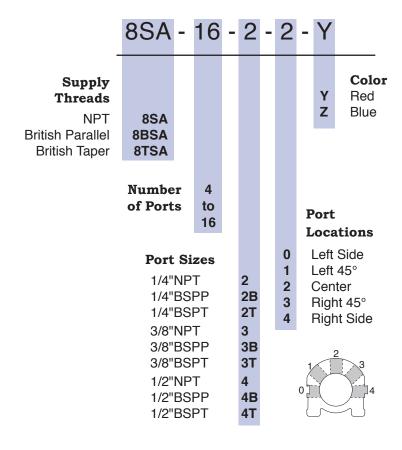


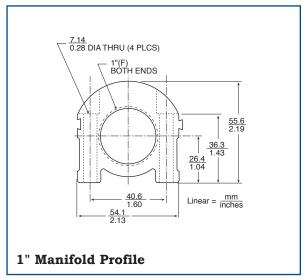
Design and specifications are subject to change without notice. See page 19 for manifold testing and use.

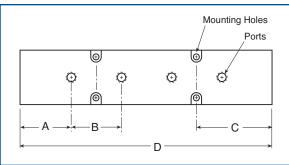


SMARTFLOW[®] 1" Aluminum Manifolds

Model Number (manifold only, see page 12 to add port valves, quick connects and flowmeters)







Stocked 1" Manifolds									
Number of Ports	1/4" Ports A = 38.1mm/1.5", B = 38.1mm/1.5" C = 57.2mm/2.25"				3/8" Ports A = 38.1mm/1.5", B = 50.8mm/2.0" C = 63.5mm/2.5"				
	model number	length (E mm ir		ght each lbs.	model number	leng mm	th (D) in.	weight kg	each lbs.
4	8SA- 4-2-2	190 7	.5 0.9	2.0	8SA- 4-3-2	229	9	1.1	2.4
6	8SA- 6-2-2	267 10	.5 1.3	2.8	8SA- 6-3-2	330	13	1.6	3.5
8	8SA- 8-2-2	343 13	.5 1.6	3.6	8SA- 8-3-2	432	17	2.1	4.6
10	8SA-10-2-2	419 16	.5 2.0	4.5	8SA-10-3-2	533	21	2.6	5.7
12	8SA-12-2-2	495 19	.5 2.4	5.3	8SA-12-3-2	635	25	3.1	6.8
16	8SA-16-2-2	648 25	.5 3.1	6.9	8SA-16-3-2	838	33	4.0	8.9

Contact your distributor for custom manifolds.

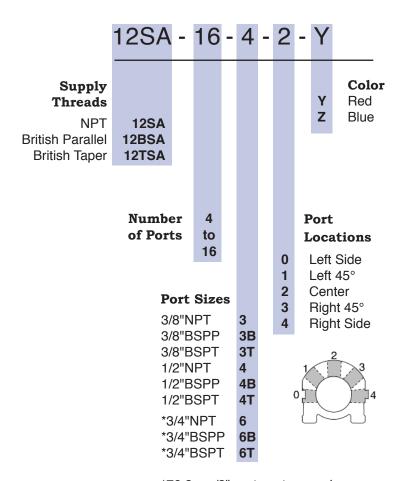


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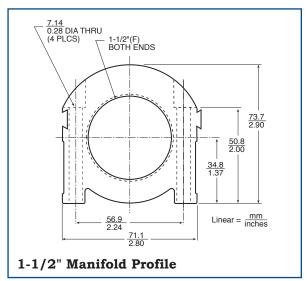
SMARTFLOW [®] 1-1/2" Aluminum Manifolds

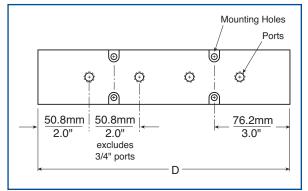
Model Number (manifold only, see page 12 to add port valves, quick connects and flowmeters)



^{*76.2}mm/3" port center spacing

Stocked 1-1/2" Manifolds						
Number of Ports	1/2" Ports					
	model number	length (D)	weight each			
	model number	mm in.	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			





Contact your distributor for custom manifolds.

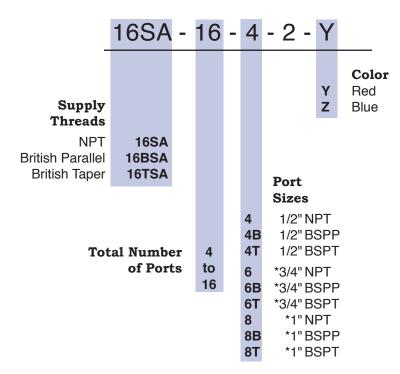


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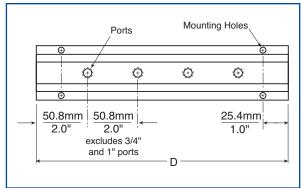
SMARTFLOW[®] 2" Aluminum Manifolds

Model Number (manifold only, see page 12 to add port valves, quick connects and flowmeters)



*76.2mm/3" port center spacing

— PORTS
7.1 0.28 DIA THRU (4 PLCS) 81.3 3.20 40.6 1.60 5.1 0.20 Linear = mm nches
2" Manifold Profile
(ports located on the top surface only)



Stocked 2" Manifolds						
Number of Ports	1/2" Ports					
	model number	lengtl	n (D)	weight	each	
	model number	mm	in.	kg	lbs.	
4	16SA- 4-4-2	254	10	1.3	2.9	
6	16SA- 6-4-2	356	14	1.8	4.1	
8	16SA- 8-4-2	457	18	2.4	5.2	
12	16SA-12-4-2	660	26	3.4	7.5	
16	16SA-16-4-2	864	34	4.5	9.9	

Contact your distributor for custom manifolds.



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