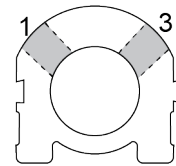
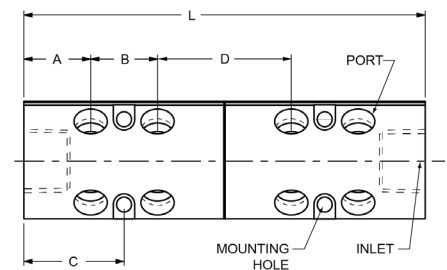


Duoflow® Aluminum Manifolds

PCS Company provides Duoflow® Aluminum Manifolds that are divided internally with a stainless steel plug and O-rings. The anodized red and blue colors protect the manifold from corrosion and denotes the coolant supply and return sides. This easy identification of the manifold also helps with consistent and repeatable coolant connections for faster mold changes. The Duoflow® manifolds have a short footprint to help mount in small areas and on the mold. The narrow port spacing will only accommodate hose barbs or quick connection fitting.

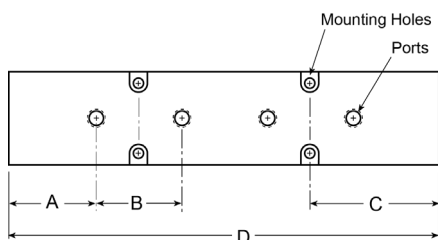
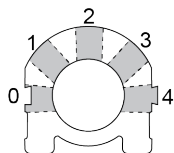


- 3/4", 1", and 1-1/2" inlet sizes (NPT)
- 1/4", 3/8" and 1/2" port sizes (NPT)
- Red & Blue Anodized to identify Supply and Return circuits
- Port spacing for quick disconnect and hose barb fittings
- 150 psi - Max operating pressure
- 210°F - Max operating temperature
- Body Material - Anodized Aluminum
- Divider - Stainless Steel
- O-Rings - EPDM
- Port Location - Sides 1 and 3



Item Number	Inlet Size NPT	Total Ports	Port Size NPT	Ports Per End	A	B	C	D	Overall Length L
6SDA-8-2-13-YZ	3/4"	8	1/4"	4	1"	1"	1.5"	2"	6"
6SDA-12-2-13-YZ	3/4"	12	1/4"	6	1"	1"	1.5"	2"	8"
6SDA-16-2-13-YZ	3/4"	16	1/4"	8	1"	1"	1.5"	2"	10"
8SDA-8-3-13-YZ	1"	8	3/8"	4	1.25"	1.25"	1.875"	2.25"	7.25"
8SDA-12-3-13-YZ	1"	12	3/8"	6	1.25"	1.25"	1.875"	2.25"	9.75"
8SDA-16-3-13-YZ	1"	16	3/8"	8	1.25"	1.25"	1.875"	2.25"	12.25"
12SDA-8-4-13-YZ	1 1/2"	8	1/2"	4	1.75"	1.5"	2.5"	2.5"	9"
12SDA-12-4-13-YZ	1 1/2"	12	1/2"	6	1.75"	1.5"	2.5"	2.5"	12"
12SDA-16-4-13-YZ	1 1/2"	16	1/2"	8	1.75"	1.5"	2.5"	2.5"	15"

3/4" Aluminum Water Manifolds



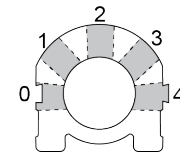
PCS Company offers Smartflow® 3/4" Aluminum Manifolds which are constructed from unique extruded aluminum, machined pre-cisely and then anodized for corrosion resistance. These manifolds are standardized in both red and blue to denote supply and return lines. Choose from a wide selection of standard Aluminum Manifolds or contact PCS for a custom manifold. The 3/4" manifolds have pre-drilled mounting holes and supplied with bolts for ease of installation.

- 300°F - Maximum operating temperature
- 150 psi maximum pressure rating
- One piece / no seams
- Brass end plugs included (NPT only)
- Anodized Red and Blue
- Pre-drilled mounting holes
(3/4" Profile - .180" thru hole and all others - .280" thru hole)
- Center Port Location

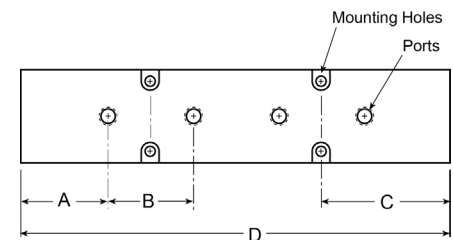
Item Number	Inlet/Outlet Size NPT	Number of Ports	Port Size NPT	Port Location	Color	A	B	C	Overall Length D
6SA-4-2-2-Y	3/4"	4	1/4"	2	Red	1.5"	1.5"	2.25"	7.5"
6SA-4-2-2-Z	3/4"	4	1/4"	2	Blue	1.5"	1.5"	2.25"	7.5"
6SA-6-2-2-Y	3/4"	6	1/4"	2	Red	1.5"	1.5"	2.25"	10.5"
6SA-6-2-2-Z	3/4"	6	1/4"	2	Blue	1.5"	1.5"	2.25"	10.5"
6SA-8-2-2-Y	3/4"	8	1/4"	2	Red	1.5"	1.5"	2.25"	13.5"
6SA-8-2-2-Z	3/4"	8	1/4"	2	Blue	1.5"	1.5"	2.25"	13.5"
6SA-12-2-2-Y	3/4"	12	1/4"	2	Red	1.5"	1.5"	2.25"	19.5"
6SA-12-2-2-Z	3/4"	12	1/4"	2	Blue	1.5"	1.5"	2.25"	19.5"
6SA-16-2-2-Y	3/4"	16	1/4"	2	Red	1.5"	1.5"	2.25"	25.5"
6SA-16-2-2-Z	3/4"	16	1/4"	2	Blue	1.5"	1.5"	2.25"	25.5"
6SA-4-3-2-Y	3/4"	4	3/8"	2	Red	1.5"	2.0"	2.5"	9"
6SA-4-3-2-Z	3/4"	4	3/8"	2	Blue	1.5"	2.0"	2.5"	9"
6SA-6-3-2-Y	3/4"	6	3/8"	2	Red	1.5"	2.0"	2.5"	13"
6SA-6-3-2-Z	3/4"	6	3/8"	2	Blue	1.5"	2.0"	2.5"	13"
6SA-8-3-2-Y	3/4"	8	3/8"	2	Red	1.5"	2.0"	2.5"	17"
6SA-8-3-2-Z	3/4"	8	3/8"	2	Blue	1.5"	2.0"	2.5"	17"

1" Aluminum Water Manifolds

PCS Company offers Smartflow® 1" Aluminum Manifolds which are constructed from unique extruded aluminum, machined pre-cisely and then anodized for corrosion resistance. These manifolds are standardized in both red and blue to denote supply and return lines. Choose from a wide selection of standard Aluminum Manifolds or contact PCS for a custom manifold. The 1" manifolds have pre-drilled mounting holes and supplied with bolts for ease of installation.



- 300°F - Maximum operating temperature
- 150 psi maximum pressure rating
- One piece / no seams
- Brass end plugs included (NPT only)
- Anodized Red and Blue
- Pre-drilled mounting holes
(3/4" Profile - .180" thru hole and all others - .280" thru hole)
- Center Port Location



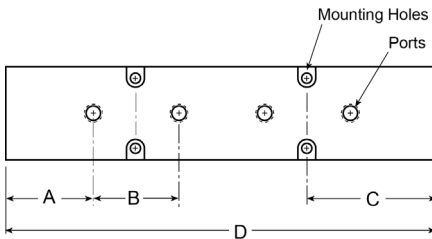
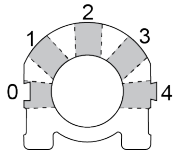
Item Number	Inlet/Outlet Size NPT	Number of Ports	Port Size NPT	Port Location	Color	A	B	C	Overall Length D
8SA-4-2-2-Y	1"	4	1/4"	2	Red	1.5"	1.5"	2.25"	7.5"
8SA-4-2-2-Z	1"	4	1/4"	2	Blue	1.5"	1.5"	2.25"	7.5"
8SA-6-2-2-Y	1"	6	1/4"	2	Red	1.5"	1.5"	2.25"	10.5"
8SA-6-2-2-Z	1"	6	1/4"	2	Blue	1.5"	1.5"	2.25"	10.5"
8SA-8-2-2-Y	1"	8	1/4"	2	Red	1.5"	1.5"	2.25"	13.5"
8SA-8-2-2-Z	1"	8	1/4"	2	Blue	1.5"	1.5"	2.25"	13.5"
8SA-10-2-2-Y	1"	10	1/4"	2	Red	1.5"	1.5"	2.25"	16.5"
8SA-10-2-2-Z	1"	10	1/4"	2	Blue	1.5"	1.5"	2.25"	16.5"
8SA-12-2-2-Y	1"	12	1/4"	2	Red	1.5"	1.5"	2.25"	19.5"
8SA-12-2-2-Z	1"	12	1/4"	2	Blue	1.5"	1.5"	2.25"	19.5"
8SA-16-2-2-Y	1"	16	1/4"	2	Red	1.5"	1.5"	2.25"	25.5"
8SA-16-2-2-Z	1"	16	1/4"	2	Blue	1.5"	1.5"	2.25"	25.5"

Continues on next page

1" Aluminum Water Manifolds



PCS Company offers Smartflow® 1" Aluminum Manifolds which are constructed from unique extruded aluminum, machined pre-cisely and then anodized for corrosion resistance. These manifolds are standardized in both red and blue to denote supply and return lines. Choose from a wide selection of standard Aluminum Mani-folds or contact PCS for a custom manifold. The 1" manifolds have pre-drilled mounting holes and supplied with bolts for ease of installation.

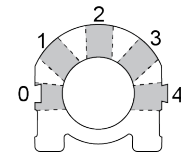


- 300°F - Maximum operating temperature
- 150 psi maximum pressure rating
- One piece / no seams
- Brass end plugs included (NPT only)
- Anodized Red and Blue
- Pre-drilled mounting holes
(3/4" Profile - .180" thru hole and all others - .280" thru hole)
- Center Port Location

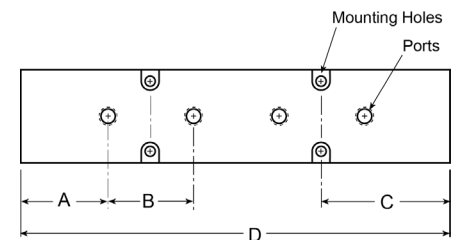
Item Number	Inlet/Outlet Size NPT	Number of Ports	Port Size NPT	Port Location	Color	A	B	C	Overall Length D
8SA-4-3-2-Y	1"	4	3/8"	2	Red	1.5"	2.0"	2.5"	9.0"
8SA-4-3-2-Z	1"	4	3/8"	2	Blue	1.5"	2.0"	2.5"	9.0"
8SA-6-3-2-Y	1"	6	3/8"	2	Red	1.5"	2.0"	2.5"	13.0"
8SA-6-3-2-Z	1"	6	3/8"	2	Blue	1.5"	2.0"	2.5"	13.0"
8SA-8-3-2-Y	1"	8	3/8"	2	Red	1.5"	2.0"	2.5"	17.0"
8SA-8-3-2-Z	1"	8	3/8"	2	Blue	1.5"	2.0"	2.5"	17.0"
8SA-10-3-2-Y	1"	10	3/8"	2	Red	1.5"	2.0"	2.5"	21.0"
8SA-10-3-2-Z	1"	10	3/8"	2	Blue	1.5"	2.0"	2.5"	21.0"
8SA-12-3-2-Y	1"	12	3/8"	2	Red	1.5"	2.0"	2.5"	25.0"
8SA-12-3-2-Z	1"	12	3/8"	2	Blue	1.5"	2.0"	2.5"	25.0"
8SA-16-3-2-Y	1"	16	3/8"	2	Red	1.5"	2.0"	2.5"	33.0"
8SA-16-3-2-Z	1"	16	3/8"	2	Blue	1.5"	2.0"	2.5"	33.0"

1 1/2" Aluminum Water Manifolds

PCS Company offers Smartflow® 1-1/2" Aluminum Manifolds which are constructed from unique extruded aluminum, machined precisely and then anodized for corrosion resistance. These manifolds are standardized in both red and blue to denote supply and return lines. Choose from a wide selection of standard Aluminum Manifolds or contact PCS for a custom manifold. The 1-1/2" manifolds have pre-drilled mounting holes and supplied with bolts for ease of installation.



- 300°F - Maximum operating temperature
- 150 psi maximum pressure rating
- One piece / no seams
- Brass end plugs included (NPT only)
- Anodized Red and Blue
- Pre-drilled mounting holes
(3/4" Profile - .180" thru hole and all others - .280" thru hole)
- Center Port Location



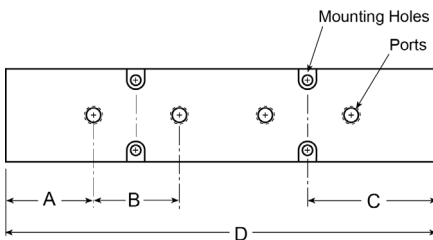
Item Number	Inlet/Outlet Size NPT	Number of Ports	Port Size NPT	Port Location	Color	A	B	C	Overall Length D
12SA-4-4-2-Y	1 1/2"	4	1/2"	2	Red	2.0"	2.0"	3.0"	10.0"
12SA-4-4-2-Z	1 1/2"	4	1/2"	2	Blue	2.0"	2.0"	3.0"	10.0"
12SA-6-4-2-Y	1 1/2"	6	1/2"	2	Red	2.0"	2.0"	3.0"	14.0"
12SA-6-4-2-Z	1 1/2"	6	1/2"	2	Blue	2.0"	2.0"	3.0"	14.0"
12SA-8-4-2-Y	1 1/2"	8	1/2"	2	Red	2.0"	2.0"	3.0"	18.0"
12SA-8-4-2-Z	1 1/2"	8	1/2"	2	Blue	2.0"	2.0"	3.0"	18.0"
12SA-10-4-2-Y	1 1/2"	10	1/2"	2	Red	2.0"	2.0"	3.0"	22.0"
12SA-10-4-2-Z	1 1/2"	10	1/2"	2	Blue	2.0"	2.0"	3.0"	22.0"
12SA-12-4-2-Y	1 1/2"	12	1/2"	2	Red	2.0"	2.0"	3.0"	26.0"
12SA-12-4-2-Z	1 1/2"	12	1/2"	2	Blue	2.0"	2.0"	3.0"	26.0"
12SA-16-4-2-Y	1 1/2"	16	1/2"	2	Red	2.0"	2.0"	3.0"	34.0"
12SA-16-4-2-Z	1 1/2"	16	1/2"	2	Blue	2.0"	2.0"	3.0"	34.0"

2" Aluminum Water Manifolds



PCS Company offers Smartflow® 2" Aluminum Manifolds which are constructed from unique extruded aluminum, machined pre-cisely and then anodized for corrosion resistance. These manifolds are standardized in both red and blue to denote supply and return lines. Choose from a wide selection of standard Aluminum Manifolds or contact PCS for a custom manifold. The 2" manifolds are supplied with pre-drilled mounting holes and bolts for ease of installation.

- 300°F - Maximum operating temperature
- 150 psi maximum pressure rating
- One piece / no seams
- Brass end plugs included (NPT only)
- Anodized Red and Blue
- Pre-drilled mounting holes
(3/4" Profile - .180" thru hole and all others - .280" thru hole)



Item Number	Inlet/Outlet Size NPT	Number of Ports	Port Size NPT	Port Location	Color	A	B	C	Overall Length D
16SA-4-4-2-Y	2"	4	1/2"	Center	Red	2.0"	2.0"	1.0"	10.0"
16SA-4-4-2-Z	2"	4	1/2"	Center	Blue	2.0"	2.0"	1.0"	10.0"
16SA-6-4-2-Y	2"	6	1/2"	Center	Red	2.0"	2.0"	1.0"	14.0"
16SA-6-4-2-Z	2"	6	1/2"	Center	Blue	2.0"	2.0"	1.0"	14.0"
16SA-8-4-2-Y	2"	8	1/2"	Center	Red	2.0"	2.0"	1.0"	18.0"
16SA-8-4-2-Z	2"	8	1/2"	Center	Blue	2.0"	2.0"	1.0"	18.0"
16SA-10-4-2-Y	2"	10	1/2"	Center	Red	2.0"	2.0"	1.0"	22"
16SA-10-4-2-Z	2"	10	1/2"	Center	Blue	2.0"	2.0"	1.0"	22"
16SA-12-4-2-Y	2"	12	1/2"	Center	Red	2.0"	2.0"	1.0"	26.0"
16SA-12-4-2-Z	2"	12	1/2"	Center	Blue	2.0"	2.0"	1.0"	26.0"
16SA-16-4-2-Y	2"	16	1/2"	Center	Red	2.0"	2.0"	1.0"	34.0"
16SA-16-4-2-Z	2"	16	1/2"	Center	Blue	2.0"	2.0"	1.0"	34.0"