Valex

Manifolds

ONE Trusted SOURCE
COMPONENTS • MANUFACTURING • ASSEMBLY • TESTING

Valex Manifolds

- PCW, CFOS, UHP Configurations with ball valve, diaphragm valve & bellows valve options
- Main run lengths up to 24 feet & 12 inch in diameter
- Fully leak tested & certified manifold assemblies
- Built to your custom drawings & specifications
- Full documentation package of each manifold identified in accordance with plant drawings

Take traditional individual components to the next level, and eliminate up to 3-field welds per POC (point-of-connection) by using a Valex Manifold.

Field welds

One Trusted Source

Our manifolds are born from the pedigree of world-class components that have been the overwhelming first choice of end users for over 35 years.

From building valves, to joining branch connections – we perform every step of crafting a manifold into an integrated assembly in order to ensure the same legendary quality that customers have depended upon us to provide for decades. After processing to customer's specifications, each manifold is then thoroughly tested to ensure trouble-free installation in the field.

Built from Valex tube, pipe, and valves – by Valex.

From One Trusted Source, in the USA.

Increased Quality

- Decreased particle contamination by reducing number of field cutting, facing and welding operations
- Reduced number of total lateral weld seams
- Reduced chance of system contamination
- Faster system qualification

Increased Savings

Valex manifolds minimize your operating costs, increase productivity and enhance overall safety.

- Reduced on-site Argon weld purge gas usage
- Reduced critical skilled labor time and total time of system installation
- Reduced QA/QC weld inspections
- Reduced material handling and purchase orders

PCW Applications

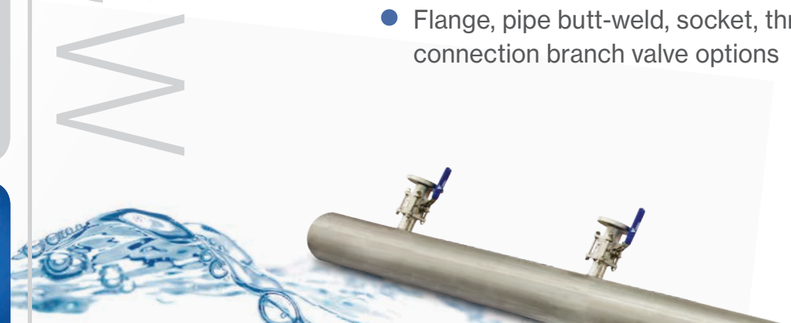
- Process Cooling Water (PCW), City Water, Potable Water.

Benefits & Features

- Built from quality Valex PCW pipe and valves.
- Minimized “dead-leg” volume between main pipe run and branch connections.
- Automatically TIG welded using ValWeld™ process.
- Completed manifolds are 100% leak tested.
- Includes a Certificate-of-Compliance.

Standard Configurations

- Main run lengths up to 24 feet and 12 inch in diameter
- Branch (Point-of-Connection) sizes up to 6 inch
- Offered in 304L or 316L Stainless Steel, in both ASTM tube and NPS pipe sizes
- Flange, pipe butt-weld, socket, threaded connection branch valve options



PCW

CFOS Applications

- Cost-effective systems where cleaning for oxygen-grade services are required, such as: Clean-Dry Air (CDA), Oil-Free Air (OFA), General Nitrogen (GN2), Utility Nitrogen (UN2), and other inert gas applications.

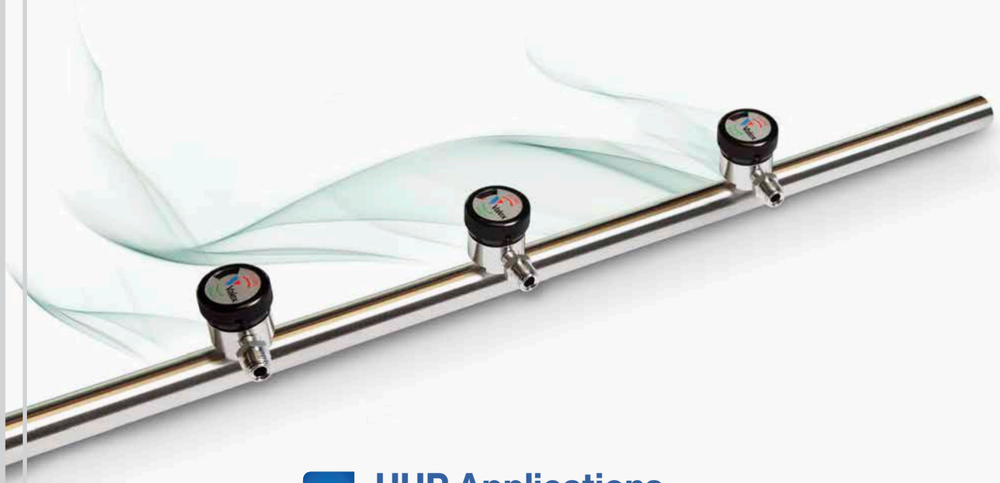
Benefits & Features

- Built using Valex High-Purity ball valves, and Valex CFOS tube or pipe.
- Minimized “dead-leg” volume between main run and branch.
- Automatically TIG welded using ValWeld™ process.
- Completed manifolds are 100% leak tested.
- CFOS manifolds are assembled, tested and bagged in an ISO Class 5 cleanroom.
- Includes a Certificate-of-Compliance.

Standard Configurations

- Main run lengths up to 24 feet and 6 inch in diameter
- Branch (Point-of-Connection) sizes up to 4 inch
- Offered in 304L or 316L Stainless Steel
- Finish Options: 25 Ra, 40 Ra, 150 Ra and AP
- Tube butt-weld, compression fitting, face-seal, capped tube, and flanged branch valve connection options
- Various branch valve purge-port and purge-valve options

CFOS



UHP Applications

- Ultra-High Purity (UHP) Gas, Corrosive Gas, Specialty Gas and gas systems requiring the highest grade of materials and certifications.

Benefits & Features

- Built using Ultra-High Purity Valex EP tubing.
- Minimized “dead-leg” volume between main run and branch.
- Automatically TIG welded using ValWeld™ process.
- Completed manifolds are 100% helium-leak tested to 1 x 10-9 atm • cc/sec after assembly.
- Nitrogen purged, and double-bagged in an ISO Class 5 cleanroom.
- Includes a Certificate-of-Compliance and Inspection Certificate.

Standard Configurations

- Main run diameters up to 6 inch
- Branch (Point-of-Connection) sizes up to 4 inch
- Offered in 316L Stainless Steel
- Finish Options: 10 Ra EP, 20 Ra EP
- Tube butt-weld and face-seal branch valve connection options
- Various purge-port and purge-valve options

EP · Assembly Tested · He Tested · 316L · ISO Class 5

Quality Inside & Out

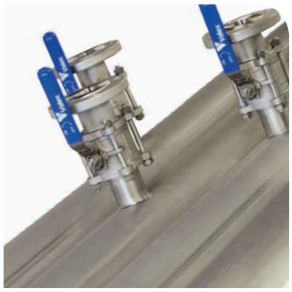
ValWeld™

State-of-the-art innovative welding technology that produces clean, consistent, and repeatable high-quality automatic welds. ValWeld™ technology breaks away from traditional orbital welding by utilizing an internal electrode, allowing us to seamlessly integrate branch connections onto full length manifolds.

ValWeld™ Weld I.D.

ValWeld™ Weld O.D.

Innovative Manufacturing



Ordering Information

I– E 8 2 A 7 4 6 – 2 4 0 – X X X X

I
Product Line

I = Integrated Manifolds

E
Run Alloy & ID Finish

A = 304L AP (PCW per SP-9236)
B = 304L 150 Ra (CFOS per SP-9234)
C = 304L 40 Ra (CFOS per SP-9234)
D = 304L 25 Ra (CFOS per SP-9206)
E = 316L AP (CFOS per SP-9234)
F = 316L 150 Ra (CFOS per SP-9234)
G = 316L 40 Ra (CFOS per SP-9234)
H = 316L 25 Ra (CFOS per SP-9206)
I = 316L 20 Ra (EP per SP-9235)
J = 316L 10 Ra (EP per SP-9220)

8 | 2
Main Run Size

ASTM Tube	NPS Pipe
08 = 1/2"	75 = NPS 2
12 = 3/4"	77 = NPS 3
16 = 1"	79 = NPS 4
24 = 1-1/2"	80 = NPS 5
32 = 2"	81 = NPS 6
40 = 2-1/2"	82 = NPS 8
48 = 3"	83 = NPS 10
64 = 4"	84 = NPS 12
96 = 6"	

A
Branch Type

A = Ball Valve
B = Diaphragm Valve
C = Bellows Valve
D = Pipe/Tube Stub
E = ASME B16.5 Class 300 Flange
F = ASME B16.5 Class 150 Flange

7 | 4
Branch Size

ASTM Tube	NPS Pipe
04 = 1/4"	70 = NPS 1/2
06 = 3/8"	71 = NPS 3/4
08 = 1/2"	72 = NPS 1
12 = 3/4"	73 = NPS 1-1/4
16 = 1"	74 = NPS 1-1/2
24 = 1-1/2"	75 = NPS 2
32 = 2"	77 = NPS 3
48 = 3"	79 = NPS 4
64 = 4"	80 = NPS 5
96 = 6"	81 = NPS 6

6
Branch Quantity

Number of branch connections on manifold

2 | 4 | 0
Main Run Length

In inches, one number per box

X | X | X | X
Valex Unique Identifier

Unique number supplied by Valex

Not all possible part number combinations are available. Please contact Valex for availability.

MANUFACTURED IN THE USA

Neither ozone-depleting nor mercury-bearing compounds are used during Valex processing or testing of any product.

C1510

Valex

www.valex.com

Valex Corporate Offices & Manufacturing
6080 Leland Street
Ventura, CA 93003
Phone: 805-658-0944

32, Hansan-Gil
Chungbuk-Myon
Pyongtaek-City
Kyonggi Province, Korea
Phone: 86-31-683-0119

559 Yuanzhong Road
Pudong New District
Shanghai, China 201300
Phone: 021-58183189