

Cut&Weld



Pre-fabricated Manifolds

Ultra High Purity Manifolds



Semiconductor



Bio-Pharm



Hygienic

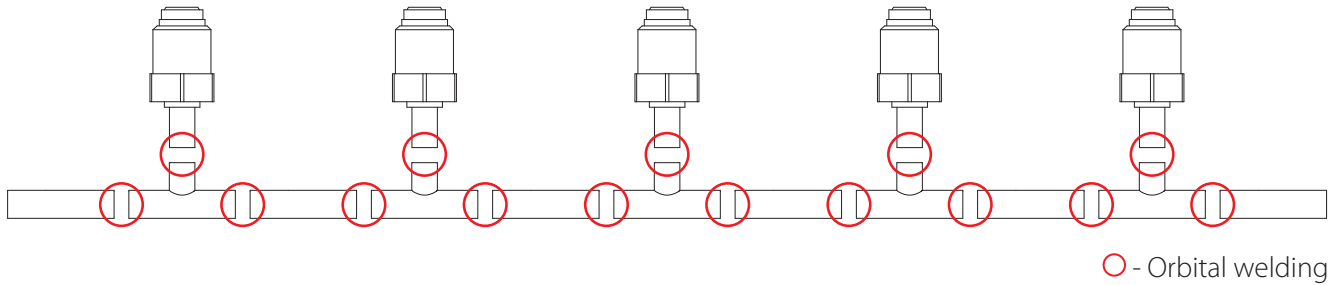
 **NEUMO**  **H.P.T.**  **EGMO**

NEUMO Ehrenberg Group

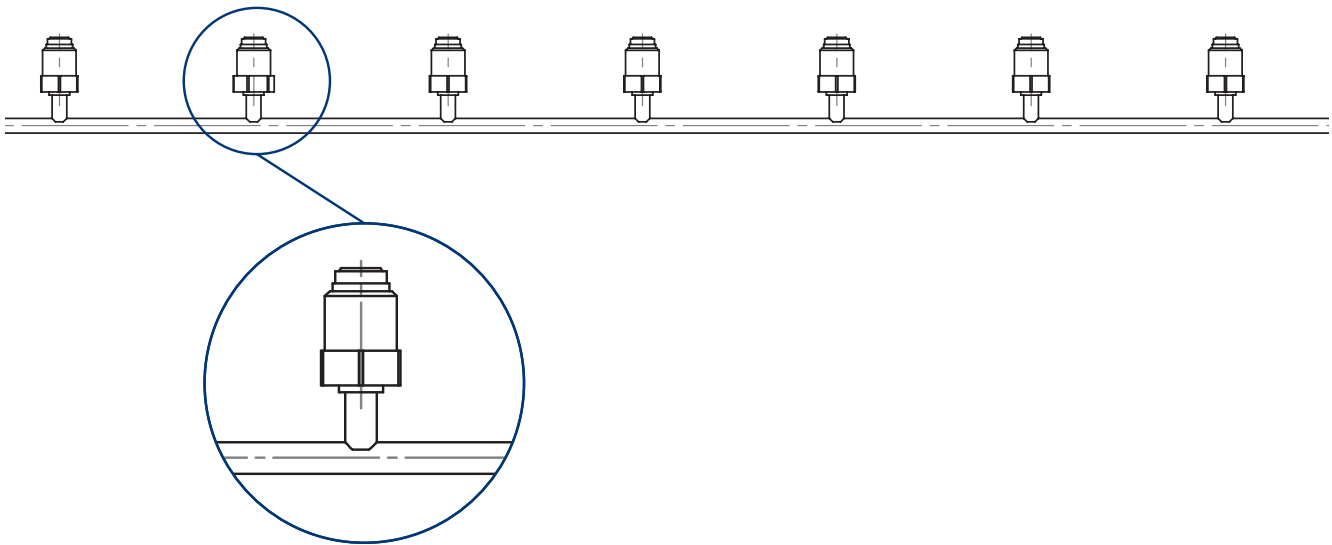
Cut&Weld The Concept



Existing Solution



Cut&Weld Solution

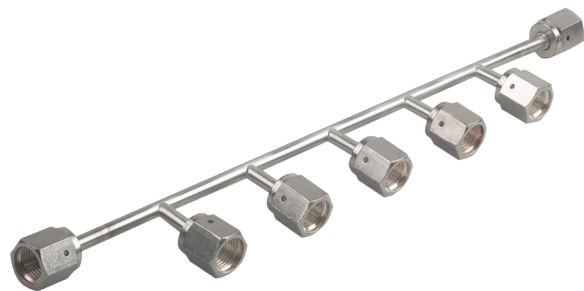


Advantages

- Pre-Fabricated
- Pre-Tested
- Cut-to-size according to your application
- Short fabrication time
- Minimum welds per manifold
- Minimum dead leg
- Reduced purge time

Applications

- VMB's
- Purge panels
- Gas panels
- Gas cabinets
- Index boxes
- Distribution boxes



How to order

S M 1 0 3 1 6 L E P E M N X 3 . 0 X 0 . 5 X 0 . 5 X 1 8 M G

Product Line Material Finish Manifold Length Main Size Branch Size No. Of POC Type of POC

SciMax	Material	Finish	Manifold	Length [Ft]	X	Main Size	X	Branch Size	X	No. Of POC	Type of POC
SM10 - 10Ra	316L	EP - Electro Polish	EMN - Equal Manifold	3.0		0.5		0.5		18	MG
SM20 - 20Ra	304L*	BA - Bright Annealed	RMN - Reduce Manifold	6.0		0.25		0.375		32	FG
				8.0*				0.25		36	BW*
										48	

* Optional - According to request

For Example: SM10 316L EP EMN 3.0X0.5X0.5X18MG

Ra Options

SciMax10 - Electro Polish 10Ra
SciMax20 - Bright Annealed 20Ra

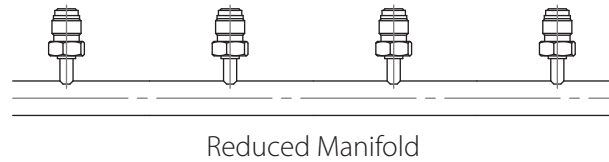
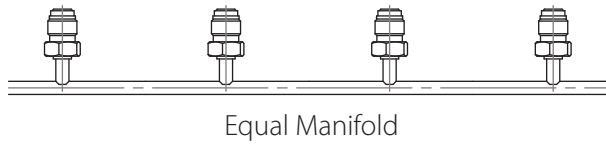
Material Options

316L
 304L*

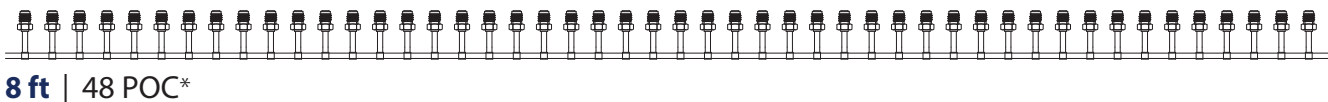
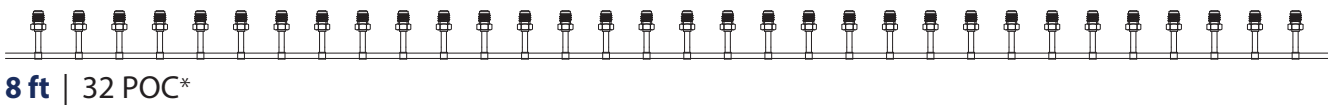
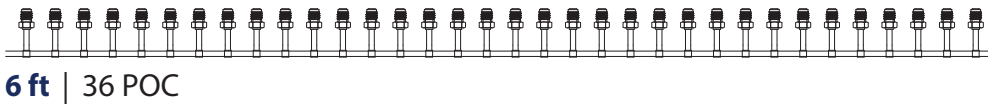
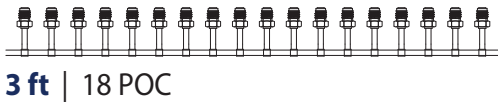
Finish

EP - Electro Polish
BA - Bright Annealed

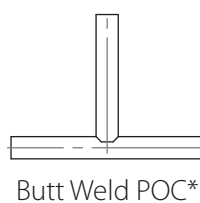
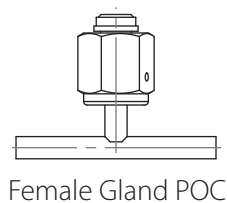
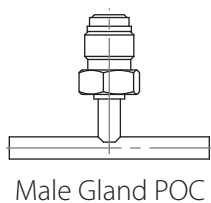
Manifold Type



Manifold Length

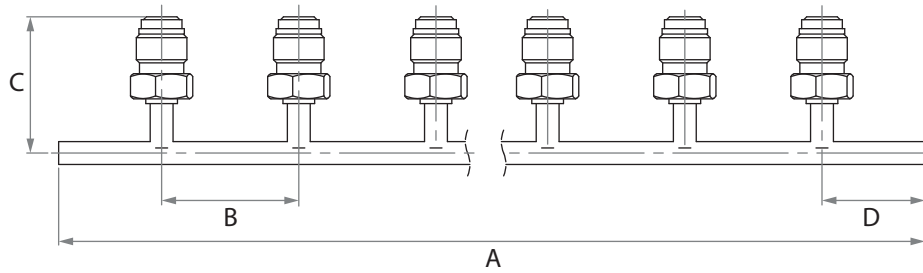


Type of POC



* Optional - According to request

Structure Options



- A** - Manifold Length
- B** - Distance between POC
- C** - Height Of POC
- D** - End Distance


Equal Manifold

Main Size	Branch Size	A [FT]	B [Inch]	C [Inch]	D [Inch]	No. Of POC	Type
1/4"	1/4"	3.0	2.0	1.5	1.0	18	Male
1/4"	1/4"	3.0	2.0	1.5	1.0	18	Female
1/4"	1/4"	6.0	2.0	1.5	1.0	36	Male
1/4"	1/4"	6.0	2.0	1.5	1.0	36	Female
3/8"	3/8"	3.0	2.0	1.5	1.0	18	Male
3/8"	3/8"	3.0	2.0	1.5	1.0	18	Female
3/8"	3/8"	6.0	2.0	1.5	1.0	36	Male
3/8"	3/8"	6.0	2.0	1.5	1.0	36	Female
1/2"	1/2"	3.0	2.0	1.5	1.0	18	Male
1/2"	1/2"	3.0	2.0	1.5	1.0	18	Female
1/2"	1/2"	6.0	2.0	1.5	1.0	36	Male
1/2"	1/2"	6.0	2.0	1.5	1.0	36	Female
1/2"	1/2"	8.0	3.0	1.5	1.0	32	Male
1/2"	1/2"	8.0	3.0	1.5	1.0	32	Female

Reduced Manifold

Main Size	Branch Size	A [FT]	B [Inch]	C [Inch]	D [Inch]	No. Of POC	Type
3/8"	1/4"	3.0	2.0	1.5	1.0	18	Male
3/8"	1/4"	3.0	2.0	1.5	1.0	18	Female
3/8"	1/4"	6.0	2.0	1.5	1.0	36	Male
3/8"	1/4"	6.0	2.0	1.5	1.0	36	Female
1/2"	1/4"	3.0	2.0	1.5	1.0	18	Male
1/2"	1/4"	3.0	2.0	1.5	1.0	18	Female
1/2"	1/4"	6.0	2.0	1.5	1.0	36	Male
1/2"	1/4"	6.0	2.0	1.5	1.0	36	Female
1/2"	1/4"	8.0	2.0	1.5	1.0	48	Male
1/2"	1/4"	8.0	2.0	1.5	1.0	48	Female
1/2"	1/4"	8.0	3.0	1.5	1.0	32	Male
1/2"	1/4"	8.0	3.0	1.5	1.0	32	Female
1/2"	3/8"	3.0	2.0	1.5	1.0	18	Male
1/2"	3/8"	3.0	2.0	1.5	1.0	18	Female
1/2"	3/8"	6.0	2.0	1.5	1.0	36	Male
1/2"	3/8"	6.0	2.0	1.5	1.0	36	Female
1/2"	3/8"	8.0	2.0	1.5	1.0	48	Male
1/2"	3/8"	8.0	2.0	1.5	1.0	48	Female
1/2"	3/8"	8.0	3.0	1.5	1.0	32	Male
1/2"	3/8"	8.0	3.0	1.5	1.0	32	Female

Product Specification

	SCiMax20	SCiMax10
Application	CFOS	Ultra High Purity
Material	316L	316L
ID Ra (Inch/meter)	20 /0.5	10 /0.25
Surface Treatment	BA	EP
Final Cleaning	DI-WATER	UPW 18MΩ
Packing Environment Area	Class 1,000	Class 10
Packing & Capping	N2 purge +PE cap + PE bag	UHP N2 purge + PE cap + Double PE bag
Marking	All SCiMax products are marked as follows: • Brand name • Job number • Material grade • Dimensions • Heat number	

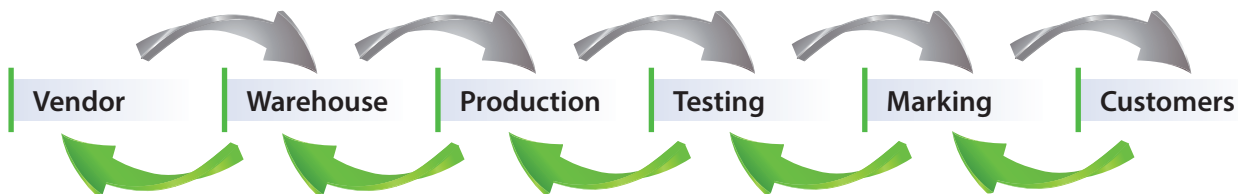
Inspection Tests and Documentation

Summary table of testing, inspection and certification that can be given per our process.

Description	Standard / Value		
		SCiMax20	SCiMax10
Material Composition	ASTM A269/A270, A632	✓	✓
Mechanical Tests	ASTM A269, A632	✓	✓
Visual Inspection 100%	Internal procedure	✓	✓
Dimensional Measurements	ANSI B31.3	✓	✓
Hydrocarbon Cleaning Inspection	CGA G-4.1	✓	✓
Helium Leak Test for Welded Fittings	1*10 ⁻⁹ scc/sec	✓	✓
Inspection Certification	EN 10204 3.1	✓	✓
Ra Measurements	ASME B46.1	✓	✓
Particles Test	<10 particles (greater than 0.1 μ ft ³)		✓
Moisture Test for Tube: Additional Moisture on UHP N2 Purged Gas	Δ0.5 ppm		✓
Ultra Pure Water Resistivity	18 MΩ		✓
SEM TEST - Scanning Electron Microscopy for Defects	SEMATECH 90120401B 40 defects (magnification*3500)		✓
XPS TEST - X Ray Photoelectron Spectroscopy for Analysis of Cr/Fe	SEMATECH 90120403B 1.5/1<		✓
XPS TEST - X Ray Photoelectron Spectroscopy for Analysis of CrO/FeO	SEMATECH 90120403B 3/1 <		✓
AES TEST - Auger Electron Spectroscopy for Measuring of Oxide Thickness	SEMATECH 91060573B / 20 A<		✓

MTR - Material Test Report

The MTR is the reference document for the entire history of the production processes and the raw materials used to make the SCiMax component.



The MTR document is easily generated on-line via www.egmo.co.il using only the job number as input. The job number is the product identification number which represents all processes and raw materials related to the specific item.

ON-LINE MTR

Please, enter job/certificate number:

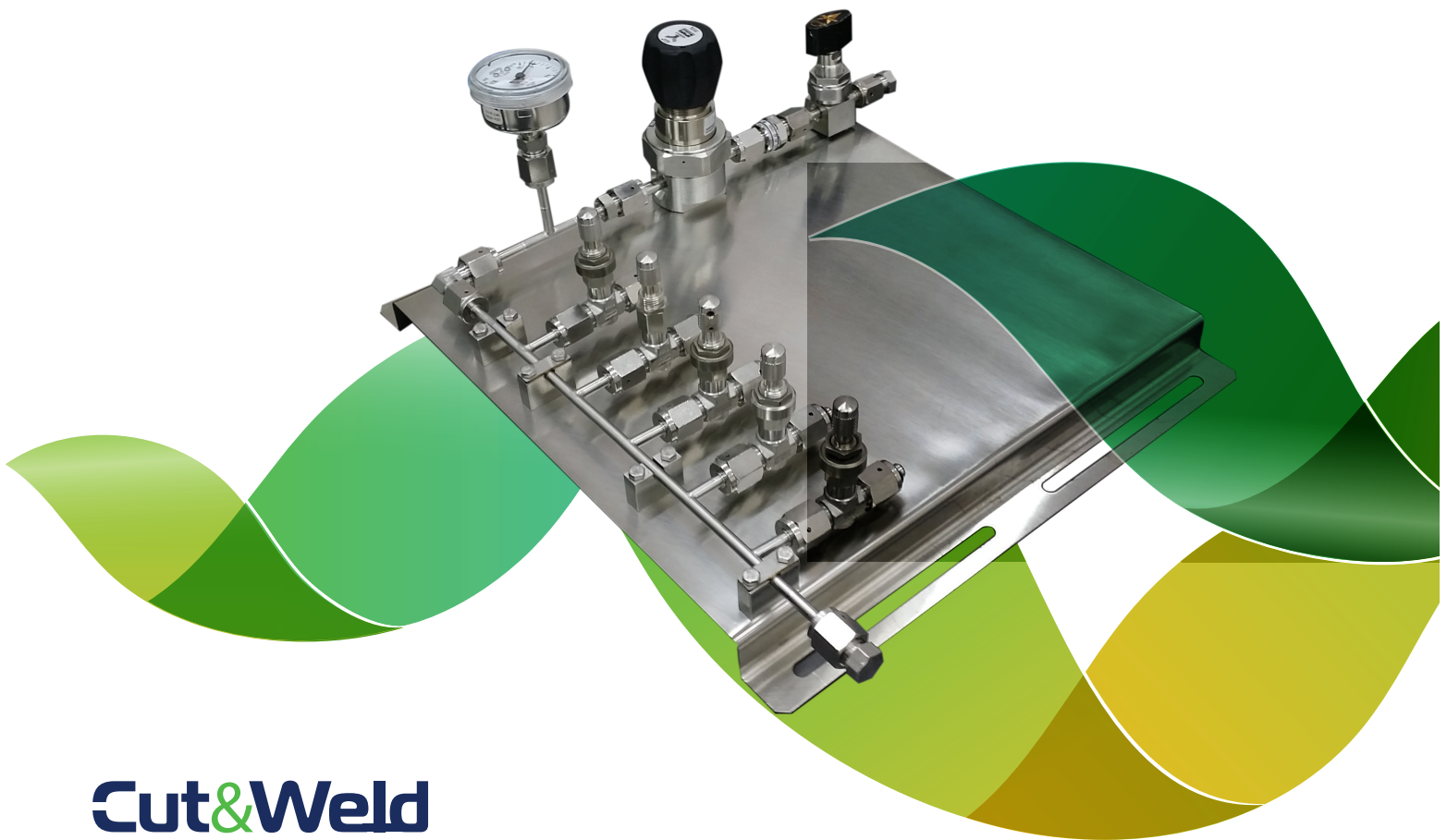
[CREATE CERTIFICATE >](#)



The MTR is also available for download with QR CODE

The MTR format provides the following information:

- Part number, part description and job number
- Material type
- Heat Number per each component describing the fitting and its associated properties:
 - Tube dimensions and standards
 - Chemical composition
 - Mechanical properties
 - Visual, dimensional, corrosion, EDDY current testing, flaring and flattening, PMI Test
- Certificate of Compliance



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Pre-fabricated
Cut-to-size according to application

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