MaxCore

Special Alloys

Maximum Corrosion Resistance

ASME BPE

MaxCore 6Mo

MaxCore 904L

MaxCore Alloy 22

NEUMO | VNE | EGMO

NEUMO Ehrenberg Group

MaxCore Special Alloys

MaxCore Alloy tubes and fittings are manufactured in full compliance with the ASME-BPE Standard, providing enhanced corrosion resistance for the most demanding sanitary and high-purity environments.

MaxCore Alloy - Key Advantages

Corrosion Resistance

MaxCore Alloy products contain an elevated molybdenum content that significantly improves resistance to localized corrosion, including pitting and crevice attack. Higher molybdenum levels enhance the passive film on the material surface, strengthening it and enabling rapid re-passivation when exposed to chlorides.

Cleanliness and Packaging

Every MaxCore Alloy fitting undergoes a nine-step cleaning process, including passivation in accordance with **ASME BPE and ASTM A967.**

After cleaning, each tube or fitting is capped with color-coded end caps for easy identification:

Orange for electropolished and white for mechanically polished.

All parts are sealed in individual zip-lock bags, each labeled with a QR code providing immediate access to MTRs for on-site QA/QC.

Full Traceability

We maintain complete traceability for every product by documenting the entire production process: raw-material certifications, incoming inspections, in-process quality control, final inspection, marking, and packaging. Each ASME-BPE component is assigned a unique job number to ensure full documentation and accountability.

Every Fitting is Quality Inspected

Strict quality controls and meticulous inspection guarantee that every fitting meets the highest standards and complies fully with **ASME BPE.**

All MaxCore Alloy fittings receive **100% visual inspection.**

Additional High Purity Offerings

MaxPure ASME BPE is a leading brand of stainless-steel fittings for the pharmaceutical industry. Manufactured from 316L stainless steel with a controlled sulfur content of 0.005%–0.017% at the weld ends.

MaxPure fittings fully comply with all requirements of the latest ASME BPE edition.

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Introduction

Corrosion costs the high-purity and sanitary industries millions of dollars each year in replacement parts and lost production. This has driven growing demand for alloys that provide superior corrosion resistance compared to traditional 300-series stainless steels.

In high-purity and sanitary processing, such as pharmaceuticals, personal care, and food, where high chloride concentrations, elevated temperatures, and low pH are common, corrosion-resistant alloys have become standard.

Super-austenitic steels classified under **UNS N08367** are widely used in applications prone to chloride-induced corrosion. Containing **6% molybdenum**, these materials offer enhanced resistance to pitting and crevice corrosion and are commercially available under trade names such as **MaxCore 6Mo®** and **Ultra6XN®.**

Alloy Chemical Composition

Type	UNS	Grade	**similar** EN-(European) Grade	C (max)	N	Cr	Ni	Mo	Cu	Typical trade names
Austenitic	S31603	316L	1.4404	0.03	0.1	16.0-18.0	10.0-14.0	2.0-3.0	-	
Duplex	S32205	2205	1.4462	0.03	0.14-0.20	22.0-23.0	4.5-6.5	2.5-3.5	-	
Superaustenitic	N08904	**904L**	1.4539	0.02	-	19.0-23.0	23.9-28.0	4.0-5.0	1.0-2.0	**MaxCore 904L** URANUS B6
Superduplex	S32750	2507	1.4410	0.03	0.24-0.32	24.0-26.0	6.0-8.0	3.0-5.0	0.5	
Superaustenitic	S31254	SMO254	1.4547	0.02	0.18-0.22	19.5-20.5	17.5-18.5	6.0-6.5	0.5-1.0	
Superaustenitic	**N08367**	**6Mo**	**1.4529**	0.03	0.18-0.25	20.0-22.0	23.5-25.5	6.0-7.0	0.75	**MaxCore 6Mo** Ultra 6XN® AL-6XN®
Superaustenitic	N08926	6Mo	1.4529	0.02	0.15-0.25	19.0-21.0	24.0-26.0	6.0-7.0	0.5-1.5	Ultra 6XN® Alloy 926
Nickel Base	N10276	Alloy C276	2.4819	0.01	-	16	57	16	0.5	Hastelloy C276®
Nickel Base	N06022	**Alloy 22**	2.4602	0.01	-	22	56	13	0.5	**MaxCore Alloy22** Hastelloy C22®

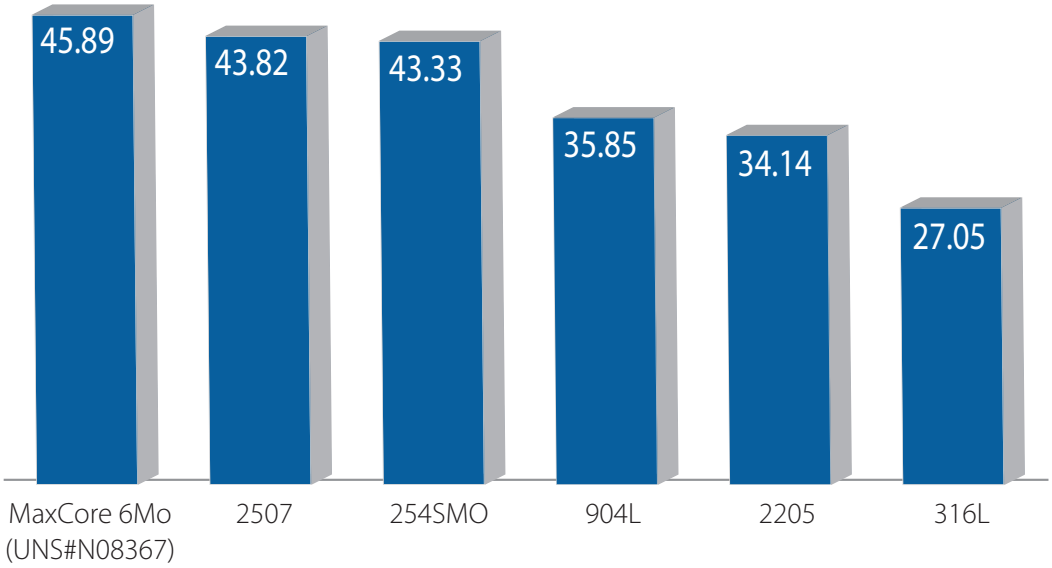
The Unified Numbering System (UNS) for metals and alloys standardizes the correlation of numerous international metal and alloy numbering systems, managed by societies, trade associations, and individual producers and users. Developed jointly by SAE International and ASTM International, it ensures uniformity for efficient indexing, record-keeping, data storage, and cross-referencing.

The desired pitting corrosion resistance of MaxCore 6Mo (UNS N08367) welds can be achieved by using filler metals with Pitting Resistance Equivalent Number (PREN) values at least ten times higher than the base metal, regardless of the arc welding process used (see Figure 2). Higher PREN values indicate better corrosion resistance.

PREN = % Cr + 3.3% Mo + 30% N

Using such filler metals ensures that the welds exhibits pitting and crevice corrosion resistance comparable to the parent metal.

PREN - Pitting Resistance Equivalent Number



MaxCore Fittings Specifications

Product:

MaxCore fittings comply with ASME BPE standards.

Gaskets are made from compounds which are FDA approved and USP 87, 88 Pharmaceutical Class VI certified.

Sizes:

MaxCore fittings are available in sizes ½" - 4" O.D. tube size.

Material:

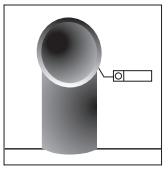
Fittings are fabricated in (UNS N08367) (UNS N08904) and (UNS N06022) for superior corrosion resistance.

Dimensions & Tolerances:

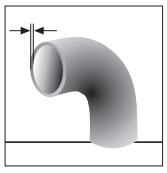
Dimensions as specified in ASME BPE Part DT-3-1

Nominal Size	O.D.		Wall Thickness Mechanical Polish (MP)		Wall Thickness Electropolish (EP)		Squareness Face to Tangent, B		Off Angle, 0		Equivalent Angle (for O)	Off Plane, P		Centerline Radius (CLR), R	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	deg	in.	mm	in.	mm
½"	± 0.005	± 0.13	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.005	0.13	0.014	0.36	1.6	0.030	0.76	1.125	28.58
¾"	± 0.005	± 0.13	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.005	0.13	0.018	0.46	1.4	0.030	0.76	1.125	28.58
1"	± 0.005	± 0.13	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.008	0.20	0.025	0.64	1.4	0.030	0.76	1.500	38.10
1½"	± 0.008	± 0.20	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.008	0.20	0.034	0.86	1.3	0.050	1.27	2.250	57.15
2"	± 0.008	± 0.20	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.008	0.20	0.043	1.09	1.2	0.050	1.27	3.000	76.20
2½"	± 0.010	± 0.25	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.010	0.25	0.054	1.37	1.2	0.050	1.27	3.750	95.25
3"	± 0.010	± 0.25	+0.005/-0.008	+0.13/-0.20	+0.005/-0.010	+0.13/-0.25	0.016	0.41	0.068	1.73	1.3	0.050	1.27	4.500	114.30
4"	± 0.015	± 0.38	+0.008/-0.010	+0.20/-0.25	+0.008/-0.012	+0.20/-0.30	0.016	0.41	0.086	2.18	1.2	0.060	1.52	6.000	152.40

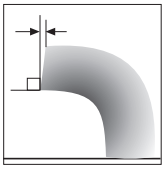
Roundness



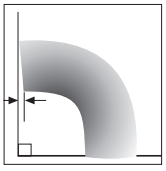
Wall Thickness



Squareness Face to Tangent

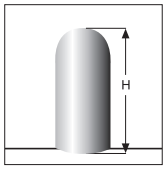


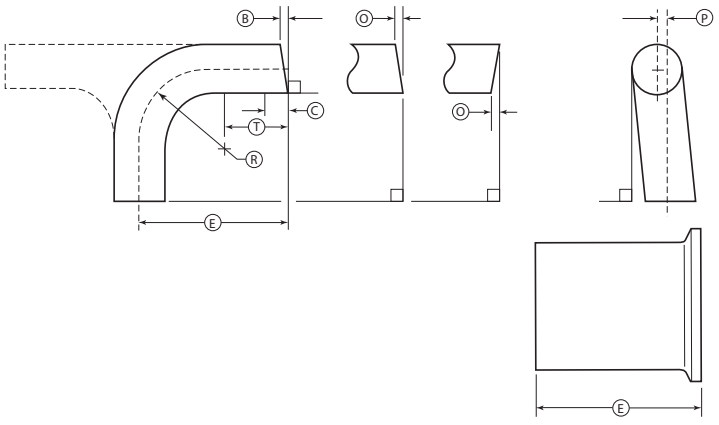
Off Angle



Off Plane

Height





General Notes:

a. Tolerance on (E) end-to-end and center-to-end: 0.050 in. (1.27 mm)

b. Tolerance for centerline radius (CLR) is ±10% of the nominal dimension

Fittings Specifications

Surface Finish:

Reference: ASME BPE Standard, Part SF.

Surface Finish Code	BPE Surface Designation	Inside Surface			Outside Surface
		Ra Maximum		Surface Condition	Surface Condition
		µ-in.	µm		
PL	SF1	20	0.51	Mechanically Polished [1]	Mechanically polished to 32 Ra µ-in.
PO	SF5	20	0.51	Mechanically Polished [1] & Electropolished	Mechanically polished to 32 Ra µ-in.

[1] Or any other finishing method that meets the Ra max.

- MaxCore fittings guarantee the Ra on all internal surfaces.
- All Ra measurements are taken across the lay, wherever possible.
- No single reading exceeds the specified maximum Ra value.
- Additional Ra specifications are available upon request.

Fittings undergo a **multi-step cleaning cycle** to remove greases and manufacturing fluids. This process includes **degreasing, pickling, electropolishing, and passivation** (if required). During the final stage, all fittings are **double rinsed with deionized water** to ensure maximum cleanliness.

Inspection Procedures:

All fittings produced by EGMO undergo 100% visual inspection to ensure compliance with Part SF of the ASME BPE Standard. All dimensional characteristics are verified against the tolerances specified in Part DT of the standard.

Fitting Marking Information:

Each fitting and process component is permanently laser marked with the following details:

a. Job number
b. Heat number/code, traceable to the Material Test Report (MTR) for each product contact surface
c. Material type
d. Manufacturer's name, logo, and trademark
e. Product contact surface designation according to the applicable BPE specification
f. ASME BPE mark

Packaging & Labeling:

Each fitting is capped, bagged, and labeled in full compliance with the ASME BPE Standard.
Every label includes a QR code linking directly to the fitting's Material Test Report (see page 26).

Documentation:

Complete Material Test Reports (MTRs) are provided with all finished products and are also available online https://www.egmo.co.il/MAXCORE-SPECIAL-ALLOYS

MaxCore Tube Specifications

Standards:

- ASME BPE
- Alloy tubing is provided in random lengths 17'-0" minimum to 21'-0" maximum.
- 6Mo Tube complies with ASTM A270/A249/ B676 and ASME SA249/ SB676 (welded), ASTM B690 and ASME SB690 (seamless).
- Alloy 22 Tube complies with ASMEA270/ SB622/ B626 CL 2A/ ASTMB622/B626 CL 2A (welded)

Surface Finish:

Surface finish specifications are the same for fittings & tubes.

Please refer to page 8 for further information.

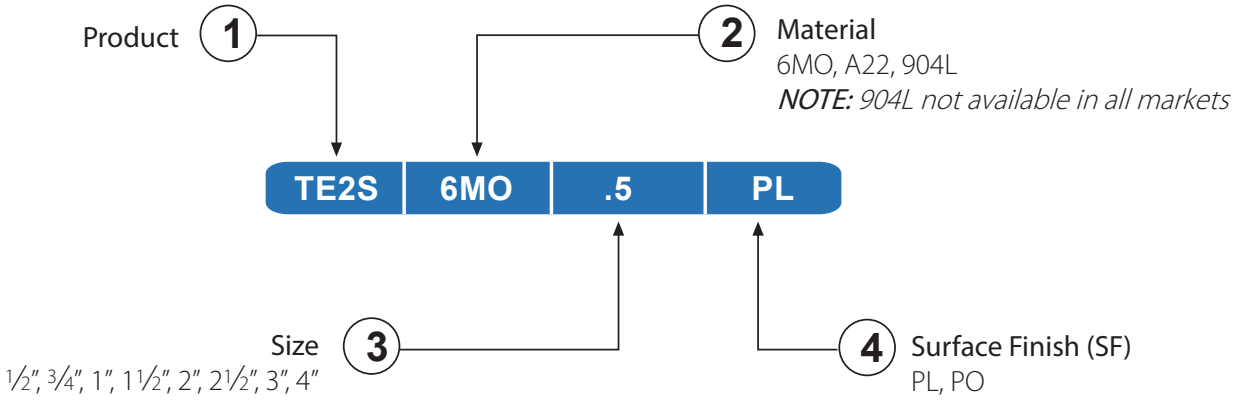
Tubing Dimensional Tolerances

Tubing Diameter		Wall Thickness		OD Tolerance Length (ASTM Spec.)		Length (ASTM Spec.)		Wall Thickness Tolerance
inch	mm.	inch	mm.	inch	mm.	inch	mm.	ASTM Spec.
½"	12.70	0.065	1.65	+/- 0.005	+/- 0.129	0.125	3.175	+/- 10%
¾"	19.05	0.065	1.65	+/- 0.005	+/- 0.130	0.125	3.175	+/- 10%
1"	25.40	0.065	1.65	+/- 0.005	+/- 0.131	0.125	3.175	+/- 10%
1½"	38.10	0.065	1.65	+/- 0.008	+/- 0.203	0.125	3.175	+/- 10%
2"	50.80	0.065	1.65	+/- 0.008	+/- 0.204	0.125	3.175	+/- 10%
2½"	63.50	0.065	1.65	+/- 0.010	+/- 0.254	0.125	3.175	+/- 10%
3"	76.20	0.065	1.65	+/- 0.015	+/- 0.381	0.125	3.175	+/- 10%
4"	101.60	0.083	2.11	+/- 0.015	+/- 0.381	0.188	4.763	+/- 10%

MaxCore Special Alloys How to Order

To specify the part completely, start with the product description and select the additional options as shown below:

Ordering example (Fitting): 90° weld ends elbow 6Mo Alloy, ½" size, PL surface finish



Ordering Information

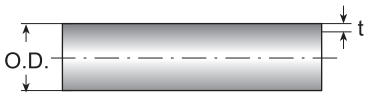
Description	Product	Material	Size	Wall Thickness*	Surface finish
Tube	TUBE	6Mo, A22	.5	0.065	PL
Weld Insert Ring A22**	AR22	A22	.75	0.065	PO
90° Weld Elbow	TE2S	6Mo, A22	1	0.065	
90° Elbow Clamp One End	TE2C		1.5	0.065	
90° Elbow Clamp Both Ends	TEG2C		2	0.065	
45° Weld Elbow	TE2KS		2.5	0.065	
45° Elbow Clamp One End	TE2KC		3	0.065	
45° Elbow Clamp Both Ends	TEG2K		4	0.083	
Tee Equal Weld	TE7WWW				
Short Outlet Tee, Weld x Weld X Clamp Outlet	TE7WWCS				
Tee Reducing Weld	TE7RWWW				
Short Outlet Reducing Tee, Weld x Weld X Clamp Outlet	TE7RWWCS				
Instrument Tee, Weld x Weld X Clamp Outlet	TE7IWWCS				
Short Concentric Weld Reducer	TE31SWW				
Short Eccentric Weld Reducer	TE32SWW				
Short Concentric Reducer Clamp Both Ends	TEG31SCC				
Short Eccentric Reducer Clamp Both Ends	TEG32SCC				
Short Concentric Reducer Clamp Large End	TE31SCW				
Short Eccentric Reducer Clamp Large End	TE32SCW				
Clamp Ferrule Short	TEG2CS				
Clamp Ferrule Medium	TEG14BM7				
Clamp Ferrule Long	TEG14AM7				
Solid End Cap	TEG16A				

* *Refers to Tubes*
** *Surface finishes not applicable on weld insert rings.*

Tubes

6Mo / A22 ALLOY TUBING

Size	Part Number	Wall Thickness
½"	TUBE6MO.5x.065..	0.065
¾"	TUBE6MO.75x.065..	0.065
1"	TUBE6MO1.0x.065..	0.065
1½"	TUBE6MO1.5x.065..	0.065
2"	TUBE6MO2.0x.065..	0.065
2½"	TUBE6MO2.5x.065..	0.065
3"	TUBE6MO3.0x.065..	0.065
4"	TUBE6MO4.0x.083..	0.083

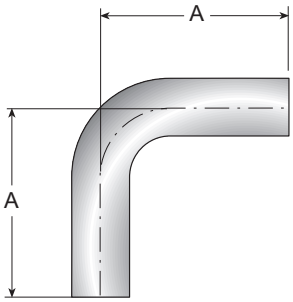


Weld Insert Rings

WELD INSERT RING A22

Size	Part Number	Material
½"	AR22-0.5	A22
¾"	AR22-0.75	A22
1"	AR22-1.0	A22
1½"	AR22-1.5	A22
2"	AR22-2.0	A22
2½"	AR22-2.5	A22
3"	AR22-3.0	A22
4"	AR22-4.0	A22

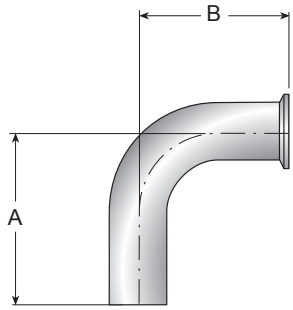
Elbows - 90°



BPE TABLE # DT-4.1.1-1

TE2S - 90° WELD ELBOW

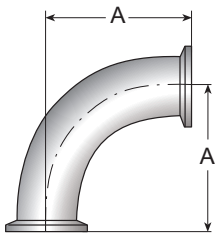
Size	Dimensions		Part Number
	A in.	A mm	
½"	3.000	76.20	TE2S6MO.5-..
¾"	3.000	76.20	TE2S6MO.75-..
1"	3.000	76.20	TE2S6MO1.0-..
1½"	3.750	95.30	TE2S6MO1.5-..
2"	4.750	120.70	TE2S6MO2.0-..
2½"	5.500	139.70	TE2S6MO2.5-..
3"	6.250	158.80	TE2S6MO3.0-..
4"	8.000	203.20	TE2S6MO4.0-..



BPE TABLE # DT-4.1.1-2

TE2C - 90° ELBOW CLAMP ONE END

Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
½"	3.000	76.20	1.625	41.30	TE2C6MO.5-..
¾"	3.000	76.20	1.625	41.30	TE2C6MO.75-..
1"	3.000	76.20	2.000	50.80	TE2C6MO1.0-..
1½"	3.750	95.30	2.750	69.90	TE2C6MO1.5-..
2"	4.750	120.70	3.500	88.90	TE2C6MO2.0-..
2½"	5.500	139.70	4.250	108.00	TE2C6MO2.5-..
3"	6.250	158.80	5.000	127.00	TE2C6MO3.0-..
4"	8.000	203.20	6.625	168.30	TE2C6MO4.0-..



BPE TABLE # DT-4.1.1-3

TEG2C - 90° CLAMP ELBOW

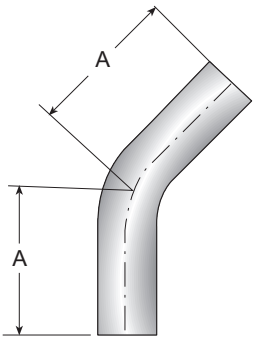
Size	Dimensions		Part Number
	A in.	A mm	
½"	1.625	41.30	TEG2C6MO.5-..
¾"	1.625	41.30	TEG2C6MO.75-..
1"	2.000	50.80	TEG2C6MO1.0-..
1½"	2.750	69.90	TEG2C6MO1.5-..
2"	3.500	88.90	TEG2C6MO2.0-..
2½"	4.250	108.00	TEG2C6MO2.5-..
3"	5.000	127.00	TEG2C6MO3.0-..
4"	6.625	168.30	TEG2C6MO4.0-..

Note: *Available upon request*

Elbows - 45°

TE2KS - 45° WELD ELBOW

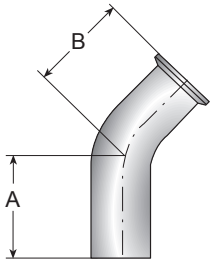
Size	Dimensions		Part Number
	A in.	A mm	
½"	2.250	57.2	TE2KS6MO.5-..
¾"	2.250	57.2	TE2KS6MO.75-..
1"	2.250	57.2	TE2KS6MO1.0-..
1½"	2.500	63.5	TE2KS6MO1.5-..
2"	3.000	76.2	TE2KS6MO2.0-..
2½"	3.375	85.7	TE2KS6MO2.5-..
3"	3.625	92.1	TE2KS6MO3.0-..
4"	4.500	114.3	TE2KS6MO4.0-..



BPE TABLE # DT-4.1.1-4

TE2KC - 45° ELBOW CLAMP ONE END

Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
½"	2.250	57.20	1.000	25.40	TE2KC6MO.5-..
¾"	2.250	57.20	1.000	25.40	TE2KC6MO.75-..
1"	2.250	57.20	1.125	28.60	TE2KC6MO1.0-..
1½"	2.500	63.50	1.438	36.50	TE2KC6MO1.5-..
2"	3.000	76.20	1.750	44.50	TE2KC6MO2.0-..
2½"	3.375	85.70	2.063	52.40	TE2KC6MO2.5-..
3"	3.625	92.10	2.375	60.30	TE2KC6MO3.0-..
4"	4.500	114.30	3.125	79.40	TE2KC6MO4.0-..

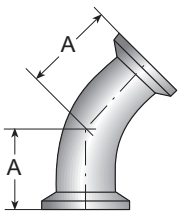


BPE TABLE # DT-4.1.1-5

TEG2K - 45° CLAMP ELBOW

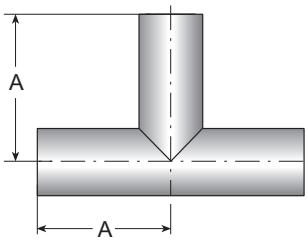
Size	Dimensions		Part Number
	A in.	A mm	
½"	1.000	25.40	TEG2K6MO.5-..
¾"	1.000	25.40	TEG2K6MO.75-..
1"	1.125	28.60	TEG2K6MO1.0-..
1½"	1.438	36.50	TEG2K6MO1.5-..
2"	1.750	44.50	TEG2K6MO2.0-..
2½"	2.063	52.40	TEG2K6MO2.5-..
3"	2.375	60.30	TEG2K6MO3.0-..
4"	3.125	79.40	TEG2K6MO4.0-..

Note: *Available upon request*



BPE TABLE # DT-4.1.1-6

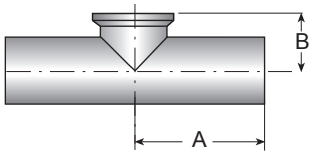
Tees



BPE TABLE # DT-4.1.2-1

TE7WWW - EQUAL TEE

Size	Dimensions		Part Number
	A in.	A mm	
½"	1.875	47.60	TE7WWW6MO.5-..
¾"	2.000	50.80	TE7WWW6MO.75-..
1"	2.125	54.00	TE7WWW6MO1.0-..
1½"	2.375	60.30	TE7WWW6MO1.5-..
2"	2.875	73.00	TE7WWW6MO2.0-..
2½"	3.125	79.40	TE7WWW6MO2.5-..
3"	3.375	85.70	TE7WWW6MO3.0-..
4"	4.125	104.80	TE7WWW6MO4.0-..



BPE TABLE # DT-4.1.2-2

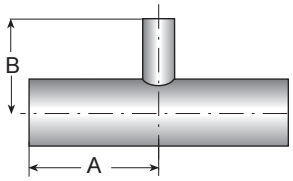
TE7WWCS - SHORT OUTLET TEE

Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
½"	1.875	47.60	1.000	25.40	TE7WWCS6MO.5-..
¾"	2.000	50.80	1.125	28.60	TE7WWCS6MO.75-..
1"	2.125	54.00	1.125	28.60	TE7WWCS6MO1.0-..
1½"	2.375	60.30	1.375	34.90	TE7WWCS6MO1.5-..
2"	2.875	73.00	1.625	41.30	TE7WWCS6MO2.0-..
2½"	3.125	79.40	1.875	47.60	TE7WWCS6MO2.5-..
3"	3.375	85.70	2.125	54.00	TE7WWCS6MO3.0-..
4"	4.125	104.80	2.750	69.90	TE7WWCS6MO4.0-..

Tees

TE7RWWW - TEE REDUCING

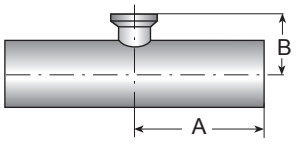
Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
¾ x ½	2.000	50.80	2.000	50.80	TE7RWWW6MO.75x.5-..
1 x ½	2.125	54.00	2.125	54.00	TE7RWWW6MO1.0x.5-..
1 x ¾	2.125	54.00	2.125	54.00	TE7RWWW6MO1.0x.75-..
1½ x ½	2.375	60.30	2.375	60.30	TE7RWWW6MO1.5x.5-..
1½ x ¾	2.375	60.30	2.375	60.30	TE7RWWW6MO1.5x.75-..
1½ x 1	2.375	60.30	2.375	60.30	TE7RWWW6MO1.5x1.0-..
2 x ½	2.875	73.00	2.625	66.70	TE7RWWW6MO2.0x.5-..
2 x ¾	2.875	73.00	2.625	66.70	TE7RWWW6MO2.0x.75-..
2 x 1	2.875	73.00	2.625	66.70	TE7RWWW6MO2.0x1.0-..
2 x 1½	2.875	73.00	2.625	66.70	TE7RWWW6MO2.0x1.5-..
2½ x 1	3.125	79.40	2.875	73.00	TE7RWWW6MO2.5x1.0-..
2½ x 1½	3.125	79.40	2.875	73.00	TE7RWWW6MO2.5x1.5-..
2½ x 2	3.125	79.40	2.875	73.00	TE7RWWW6MO2.5x2.0..
3 x ½	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x.5-..
3 x ¾	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x.75-..
3 x 1	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x1.0-..
3 x 1½	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x1.5-..
3 x 2	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x2.0-..
3 x 2½	3.375	85.70	3.125	79.40	TE7RWWW6MO3.0x2.5-..
4 x 1	4.125	104.80	3.625	92.10	TE7RWWW6MO4.0x1.0-..
4 x 1½	4.125	104.80	3.625	92.10	TE7RWWW6MO4.0x1.5-..
4 x 2	4.125	104.80	3.875	98.40	TE7RWWW6MO4.0x2.0-..
4 x 3	4.125	104.80	3.875	98.40	TE7RWWW6MO4.0x3.0-..



BPE TABLE # DT-4.1.2-6

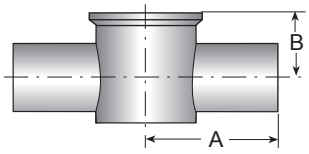
TE7RWWCS - SHORT OUTLET REDUCING TEE

Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
¾ x ½	2.000	50.80	1.000	25.40	TE7RWWCS6MO.75x.5-..
1 x ½	2.125	54.00	1.125	28.60	TE7RWWCS6MO1.0x.5-..
1 x ¾	2.125	54.00	1.125	28.60	TE7RWWCS6MO1.0x.75-..
1½ x ½	2.375	60.30	1.375	34.90	TE7RWWCS6MO1.5x.5-..
1½ x ¾	2.375	60.30	1.375	34.90	TE7RWWCS6MO1.5x.75-..
1½ x 1	2.375	60.30	1.375	34.90	TE7RWWCS6MO1.5x1.0-..
2 x ½	2.875	73.00	1.625	41.30	TE7RWWCS6MO2.0x.5-..
2 x ¾	2.875	73.00	1.625	41.30	TE7RWWCS6MO2.0x.75-..
2 x 1	2.875	73.00	1.625	41.30	TE7RWWCS6MO2.0x1.0-..
2 x 1½	2.875	73.00	1.625	41.30	TE7RWWCS6MO2.0x1.5-..
2½ x 1	3.125	79.40	1.875	47.60	TE7RWWCS6MO2.5x1.0-..
2½ x 1½	3.125	79.40	1.875	47.60	TE7RWWCS6MO2.5x1.5-..
2½ x 2	3.125	79.40	1.875	47.60	TE7RWWCS6MO2.5x2.0..
3 x ½	3.375	85.70	2.125	54.00	TE7RWWCS6MO3.0x.5-..
3 x ¾	3.375	85.70	2.125	54.00	TE7RWWCS6MO3.0x.75-..
3 x 1	3.375	85.70	2.125	54.00	TE7RWWCS6MO3.0x1.0-..
3 x 1½	3.375	85.70	2.125	54.00	TE7RWWCS6MO3.0x1.5-..
3 x 2	3.375	85.70	2.125	54.00	TE7RWWCS6MO3.0x2.0-..
4 x ½	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x.5-..
4 x ¾	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x.75-..
4 x 1	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x1.0-..
4 x 1½	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x1.5-..
4 x 2	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x2.0-..
4 x 2½	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x2.5-..
4 x 3	4.125	104.80	2.625	66.70	TE7RWWCS6MO4.0x3.0-..



BPE TABLE # DT-4.1.2-7

Tees



BPE TABLE # DT-4.1.2-10

TE7IWWCS - INSTRUMENT TEE

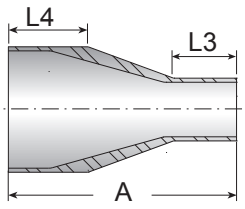
Size	Dimensions				Part Number
	A in.	A mm	B in.	B mm	
½ x 1½	2.500	63.50	0.875	22.20	TE7IWWCS6MO.5x1.5-..
½ x 2	2.500	63.50	1.000	25.40	TE7IWWCS6MO.5x2.0-..
¾ x 1½	2.500	63.50	1.125	28.60	TE7IWWCS6MO.75x1.5-..
¾ x 2	2.750	69.90	1.000	25.40	TE7IWWCS6MO.75x2.0-..
1 x 1½	2.750	69.90	1.125	28.60	TE7IWWCS6MO1.0x1.5-..
1 x 2	2.750	69.90	1.250	31.80	TE7IWWCS6MO1.0x2.0-..
1½ x 2	2.750	69.90	1.500	38.10	TE7IWWCS6MO1.5x2.0-..

Note: *Available upon request*

Reducers

TE31SWW - SHORT CONCENTRIC REDUCER

Size	Dimensions						Part Number
	A In.	A mm.	L3 In.	L3 mm.	L4 In.	L4 mm.	
¾ x ½	2.125	53.97	1.000	25.4	1.000	25.40	TE31SWW6MO.75x.5-..
1 x ½	2.500	63.50	1.000	25.4	1.000	25.40	TE31SWW6MO1.0x.5-..
1 x ¾	2.125	53.97	1.000	25.4	1.000	25.40	TE31SWW6MO1.0x.75-..
1½ x ¾	3.000	76.20	1.000	25.4	1.000	25.40	TE31SWW6MO1.5x.75-..
1½ x 1	2.500	63.50	1.000	25.4	1.000	25.40	TE31SWW6MO1.5x1.0-..
2 x 1	3.375	85.72	1.000	25.4	1.000	25.40	TE31SWW6MO2.0x1.0-..
2 x 1½	2.500	63.50	1.000	25.4	1.000	25.40	TE31SWW6MO2.0x1.5-..
2½ x 1½	3.375	85.72	1.000	25.4	1.000	25.40	TE31SWW6MO2.5x1.5-..
2½ x 2	2.500	63.50	1.000	25.4	1.000	25.40	TE31SWW6MO2.5x2.0..
3 x 1½	4.250	107.95	1.000	25.4	1.500	38.10	TE31SWW6MO3.0x1.5-..
3 x 2	3.375	85.72	1.000	25.4	1.500	38.10	TE31SWW6MO3.0x2.0-..
3 x 2½	2.625	66.67	1.000	25.4	1.500	38.10	TE31SWW6MO3.0x2.5-..
4 x 2	5.125	130.17	1.000	25.4	1.500	38.10	TE31SWW6MO4.0x2.0-..
4 x 2½	4.250	107.95	1.000	25.4	1.500	38.10	TE31SWW6MO4.0x2.5-..
4 x 3	3.875	98.42	1.500	38.1	1.500	38.10	TE31SWW6MO4.0x3.0-..

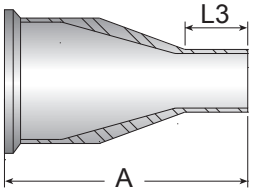


BPE TABLE # DT-4.1.3-1

TE31SCW - SHORT CONCENTRIC REDUCER 0NE CLAMP

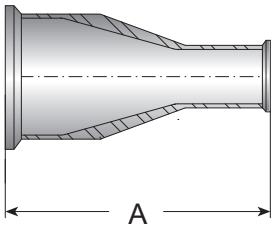
Size	Dimensions				Part Number
	A In.	A mm.	L3 In.	L3 mm.	
¾ x ½	2.625	66.67	1.000	25.40	TE31SCW6MO.75x.5-..
1 x ½	3.000	76.20	1.000	25.40	TE31SCW6MO1.0x.5-..
1 x ¾	2.625	66.67	1.000	25.40	TE31SCW6MO1.0x.75-..
1½ x ¾	3.500	88.90	1.000	25.40	TE31SCW6MO1.5x.75-..
1½ x 1	3.000	76.20	1.000	25.40	TE31SCW6MO1.5x1.0-..
2 x 1	3.875	98.42	1.000	25.40	TE31SCW6MO2.0x1.0-..
2 x 1½	3.000	76.20	1.000	25.40	TE31SCW6MO2.0x1.5-..
2½ x 1½	3.875	98.42	1.000	25.40	TE31SCW6MO2.5x1.5-..
2½ x 2	3.000	76.20	1.000	25.40	TE31SCW6MO2.5x2.0..
3 x 2	3.875	98.42	1.000	25.40	TE31SCW6MO3.0x2.0-..
3 x 2½	3.125	79.37	1.000	25.40	TE31SCW6MO3.0x2.5-..
4 x 2½	4.875	123.82	1.000	25.40	TE31SCW6MO4.0x2.5-..
4 x 3	4.500	114.30	1.500	38.10	TE31SCW6MO4.0x3.0-..

Note: *Available upon request*



BPE TABLE # DT-4.1.3-2

Reducers

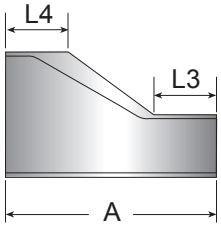


BPE TABLE # DT-4.1.3-3

TEG31SCC - SHORT CONCENTRIC REDUCER CLAMP

Size	Dimensions		Part Number
	A In.	A mm.	
¾ x ½	3.125	79.37	TEG31SCC6MO.75x.5-..
1 x ½	3.500	88.90	TEG31SCC6MO1.0x.5-..
1 x ¾	3.125	79.37	TEG31SCC6MO1.0x.75-..
1½ x ¾	4.000	101.60	TEG31SCC6MO1.5x.75-..
1½ x 1	3.500	88.90	TEG31SCC6MO1.5x1.0-..
2 x 1	4.375	111.13	TEG31SCC6MO2.0x1.0-..
2 x 1½	3.500	88.90	TEG31SCC6MO2.0x1.5-..
2½ x 2	3.500	88.90	TEG31SCC6MO2.5x2.0..
3 x 1½	5.250	133.35	TEG31SCC6MO3.0x1.5-..
3 x 2	4.375	111.12	TEG31SCC6MO3.0x2.0-..
3 x 2½	3.625	92.07	TEG31SCC6MO3.0x2.5-..
4 x 3	5.000	127.00	TEG31SCC6MO4.0x3.0-..

Note: *Available upon request*



BPE TABLE # DT-4.1.3-1

TE32SWW - SHORT ECCENTRIC REDUCER

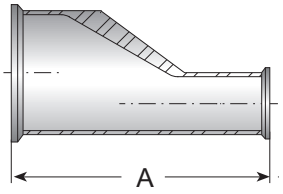
Size	Dimensions						Part Number
	A In.	A mm.	L3 In.	L3 mm.	L4 In.	L4 mm.	
¾ x ½	2.125	53.97	1.000	25.40	1.000	25.40	TE32SWW6MO.75x.5-..
1 x ½	2.500	63.50	1.000	25.40	1.000	25.40	TE32SWW6MO1.0x.5-..
1 x ¾	2.125	53.97	1.000	25.40	1.000	25.40	TE32SWW6MO1.0x.75-..
1½ x ¾	3.000	76.20	1.000	25.40	1.000	25.40	TE32SWW6MO1.5x.75-..
1½ x 1	2.500	63.50	1.000	25.40	1.000	25.40	TE32SWW6MO1.5x1.0-..
2 x 1	3.375	85.72	1.000	25.40	1.000	25.40	TE32SWW6MO2.0x1.0-..
2 x 1½	2.500	63.50	1.000	25.40	1.000	25.40	TE32SWW6MO2.0x1.5-..
2½ x 1½	3.375	85.72	1.000	25.40	1.000	25.40	TE32SWW6MO2.5x1.5-..
2½ x 2	2.500	63.50	1.000	25.40	1.000	25.40	TE32SWW6MO2.5x2.0..
3 x 1½	4.250	107.95	1.000	25.40	1.500	38.10	TE32SWW6MO3.0x1.5-..
3 x 2	3.375	85.72	1.000	25.40	1.500	38.10	TE32SWW6MO3.0x2.0-..
3 x 2½	2.625	66.67	1.000	25.40	1.500	38.10	TE32SWW6MO3.0x2.5-..
4 x 2	5.125	130.17	1.000	25.40	1.500	38.10	TE32SWW6MO4.0x2.0-..
4 x 2½	4.250	107.95	1.000	25.40	1.500	38.10	TE32SWW6MO4.0x2.5-..
4 x 3	3.875	98.42	1.500	38.10	1.500	38.10	TE32SWW6MO4.0x3.0-..

Reducers

TEG32SCC - SHORT ECCENTRIC REDUCER CLAMP

Size	Dimensions		Part Number
	A In.	A mm.	
¾ x ½	3.125	79.37	TEG32SCC6MO.75x.5-..
1 x ½	3.500	88.90	TEG32SCC6MO1.0x.5-..
1 x ¾	3.125	79.37	TEG32SCC6MO1.0x.75-..
1½ x ¾	4.000	101.60	TEG32SCC6MO1.5x.75-..
1½ x 1	3.500	88.90	TEG32SCC6MO1.5x1.0-..
2 x 1	4.375	111.12	TEG32SCC6MO2.0x1.0-..
2 x 1½	3.500	88.90	TEG32SCC6MO2.0x1.5-..
3 x 2	4.375	111.12	TEG32SCC6MO3.0x2.0-..
3 x 2½	3.625	92.07	TEG32SCC6MO3.0x2.5-..
4 x 2	6.250	158.75	TEG32SCC6MO4.0x2.0-..
4 x 3	5.000	127.00	TEG32SCC6MO4.0x3.0-..

Note: *Available upon request*

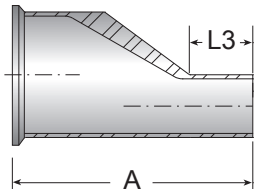


BPE TABLE # DT-4.1.3-3

TE32SCW - SHORT ECCENTRIC REDUCER ONE CLAMP

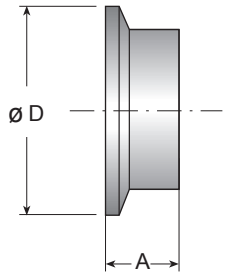
Size	Dimensions				Part Number
	A In.	A mm.	L3 In.	L3 mm.	
¾ x ½	2.625	66.67	1.000	25.40	TE32SCW6MO.75x.5-..
1 x ½	3.000	76.20	1.000	25.40	TE32SCW6MO1.0x.5-..
1 x ¾	2.625	66.67	1.000	25.40	TE32SCW6MO1.0x.75-..
1½ x ¾	3.500	88.90	1.000	25.40	TE32SCW6MO1.5x.75-..
1½ x 1	3.000	76.20	1.000	25.40	TE32SCW6MO1.5x1.0-..
2 x 1	3.875	98.42	1.000	25.40	TE32SCW6MO2.0x1.0-..
2 x 1½	3.000	76.20	1.000	25.40	TE32SCW6MO2.0x1.5-..
2½ x 1½	3.875	98.42	1.000	25.40	TE32SCW6MO2.5x1.5-..
2½ x 2	3.000	76.20	1.000	25.40	TE32SCW6MO2.5x2.0-..
3 x 2	3.875	98.42	1.000	25.40	TE32SCW6MO3.0x2.0-..
3 x 2½	3.125	79.37	1.000	25.40	TE32SCW6MO3.0x2.5-..
4 x 2	5.750	146.05	1.000	25.40	TE32SCW6MO4.0x2.0-..
4 x 3	4.500	114.30	1.500	38.10	TE32SCW6MO4.0x3.0-..

Note: *Available upon request*



BPE TABLE # DT-4.1.3-2

Ferrules

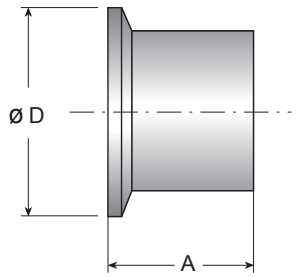


BPE TABLE # DT-4.1.4-1(C)

TEG2CS - CLAMP FERRULE SHORT

Size	Dimensions				Part Number
	A in.	A mm	D in.	D mm	
½"	0.500	12.70	0.984	24.90	TEG2CS6MO.5-..
¾"	0.500	12.70	0.984	24.90	TEG2CS6MO.75-..
1"	0.500	12.70	1.984	50.30	TEG2CS6MO1.0-..
1½"	0.500	12.70	1.984	50.30	TEG2CS6MO1.5-..
2"	0.500	12.70	2.516	63.90	TEG2CS6MO2.0-..
2½"	0.500	12.70	3.047	77.30	TEG2CS6MO2.5-..
3"	0.500	12.70	3.579	90.90	TEG2CS6MO3.0-..
4"	0.625	15.90	4.682	118.90	TEG2CS6MO4.0-..

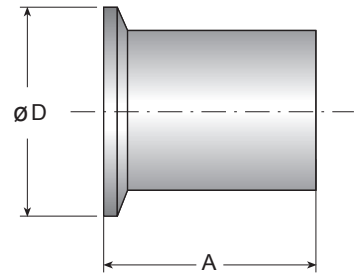
Note: *Available upon request*



BPE TABLE # DT-4.1.4-1(B)

TEG14BM7 - CLAMP FERRULE MEDIUM

Size	Dimensions				Part Number
	A in.	A mm	D in.	D mm	
½"	1.130	28.70	0.984	24.90	TEG14BM76MO.5-..
¾"	1.130	28.70	0.984	24.90	TEG14BM76MO.75-..
1"	1.130	28.70	1.984	50.30	TEG14BM76MO1.0-..
1½"	1.130	28.70	1.984	50.30	TEG14BM76MO1.5-..
2"	1.130	28.70	2.516	63.90	TEG14BM76MO2.0-..
2½"	1.130	28.70	3.047	77.30	TEG14BM76MO2.5-..
3"	1.130	28.70	3.579	90.90	TEG14BM76MO3.0-..
4"	1.130	28.70	4.682	118.90	TEG14BM76MO4.0-..



BPE TABLE # DT-4.1.4-1(A)

TEG14AM7 - CLAMP FERRULE LONG

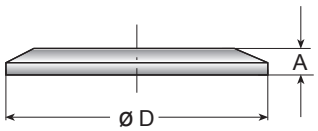
Size	Dimensions				Part Number
	A in.	A mm	D in.	D mm	
½"	1.750	44.50	0.984	24.90	TEG14AM76MO.5-..
¾"	1.750	44.50	0.984	24.90	TEG14AM76MO.75-..
1"	1.750	44.50	1.984	50.30	TEG14AM76MO1.0-..
1½"	1.750	44.50	1.984	50.30	TEG14AM76MO1.5-..
2"	2.250	57.20	2.516	63.90	TEG14AM76MO2.0-..
2½"	2.250	57.20	3.047	77.30	TEG14AM76MO2.5-..
3"	2.250	57.20	3.579	90.90	TEG14AM76MO3.0-..
4"	2.250	57.20	4.682	118.90	TEG14AM76MO4.0-..

Note: *Available upon request*

Solid End Caps

TEG16A - SOLID END CAP

Size	Dimensions				Part Number
	A in.	A mm	D in.	D mm	
½" - ¾"	0.187	4.70	0.984	24.90	TEG16A6MO.75-..
1" - 1½"	0.250	6.40	1.984	50.30	TEG16A6MO1.5-..
2"	0.250	6.40	2.516	63.90	TEG16A6MO2.0-..
2½"	0.250	6.40	3.047	77.30	TEG16A6MO2.5-..
3"	0.250	6.40	3.579	90.90	TEG16A6MO3.0-..
4"	0.312	7.90	4.682	118.90	TEG16A6MO4.0-..



BPE TABLE # DT-4.1.5-2

6Mo Welding Considerations

Alloys containing 6% molybdenum, such as MaxCore 6Mo (UNS N08367) and Ultra 6XN® (UNS N08367), require special attention during welding. To compensate for alloy dilution during cooling, welds should be "over-alloyed" using a weld insert ring or weld wire. The recommended filler for over-alloying 6Mo welds is Alloy 22. The table below lists acceptable filler metals for use with 6Mo materials.

Approved Arc Welding Processes for 6Mo Alloys:

- GTAW – Gas Tungsten Arc Welding
- GMAW – Gas Metal Arc Welding
- SMAW – Shielded Metal Arc Welding
- FCAW – Flux Cored Arc Welding
- SAW – Submerged Arc Welding
- Autogenous Welding

Consumables					
Welding Process	Filler Metal	Specifications		Classifications	
	Alloy	AWS	ASME	AWS	UNS
GTAW	625	A5.14	SFA5.14	ERNiCrMo-3	N06625
	276			ERNiCrMo-4	N10276
	22			ERNiCrMo-10	N06022
GMAW	625	A5.14	SFA5.14	ERNiCrMo-3	N06625
	276			ERNiCrMo-4	N10276
	22			ERNiCrMo-10	N06022
SMAW	112	A5.11	SFA5.11	ERNiCrMo-3	W86112
	276			ERNiCrMo-4	W80276
	22			ERNiCrMo-10	W86022

Inert Gas Requirements

For welding 6Mo alloys, inert gas must be used for both shielding and purge. To prevent nitride formation, which can cause a straw-colored weld surface, it is recommended to use 100% argon for both purge and backing gases.

General Technical Information

Pressure service ratings for sanitary stainless steel clamps

Size Tube OD	13MHHM(-H)				13MHHS				13MHP			
	@70°F / 21°C		@250°F / 121°C		@70°F / 21°C		@250°F / 121°C		@70°F / 21°C		@250°F / 121°C	
	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar	PSI	bar
½ & ¾"	1500	103	1200	83	-	-	-	-	1500	103	1200	83
1 & 1½"	500	34	250	17	600	41	300	21	1500	103	1200	83
2"	450	31	250	17	550	38	275	19	1000	69	800	55
2½"	400	28	200	14	450	31	225	16	1000	69	800	55
3"	350	24	150	10	350	24	160	11	1000	69	800	55
4"	200	14	125	9	250	17	150	10	1000	69	800	55
5"	175	12	100	7	-	-	-	-	-	-	-	-
6"	150	10	75	5	-	-	-	-	-	-	-	-
8"	100	7	50	3	-	-	-	-	-	-	-	-
10"	40	3	30	2	-	-	-	-	-	-	-	-
12"	30	2	25	2	-	-	-	-	-	-	-	-

Note: The pressure information doesn't refer to the gaskets.

Gasket Material Properties

Property	PTFE®	VITON®	SILICON	EPDM
Temperature Range	-40 to 450° F -40 to 232° C	-20 to 400° F -29 to 204° C	-80 to 450° F -62 to 232° C	-55 to 275° F -48 to 135° C
Acid Resistance	Excellent	Good	Good	Good - excellent
Alkali Resistance	Excellent	Poor - good	Poor - fair	Good - excellent
Abrasion Resistance	Excellent	Good	Good - excellent	Good - excellent
Compression Set	Cold flows	Good - excellent	Good - excellent	Fair

Conversion Table Of Surface Finishes

Mechanical Finish		
µ-in.	µm	Grit
32 Ra	0.8 Ra	150
24 Ra	0.6 Ra	180
20 Ra	0.5 Ra	240
12 Ra	0.3 Ra	320

Available upon request in Special Alloys (Not available in all markets)

Bio- Connect

Connect S

Ball Valves

Single Seat Valves

Double Seat Valves

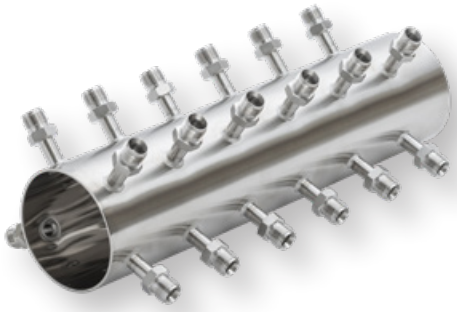
Butterfly Valves

Check Valves

Diaphragm Valves

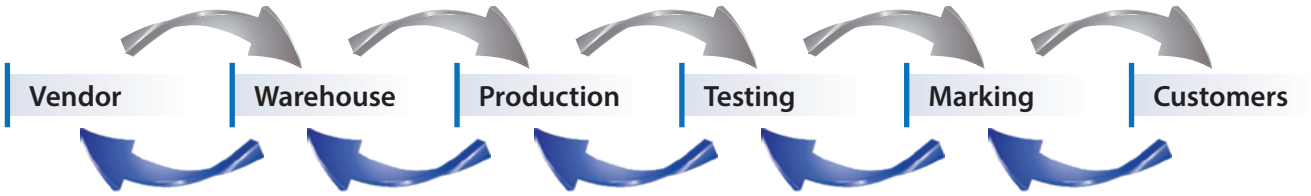
Sampling Valves

Specials



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 MaxCore 6Mo component.



The MTR document is easily generated on-line via https://www.egmo.co.il/MAXCORE-SPECIAL-ALLOYS 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:

2002147813 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

ASME BPE - Certificate

The American Society of Mechanical Engineers

ASME BPE

CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope shown below in accordance with the applicable rules of the ASME BPE Standard on Bioprocessing Equipment. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any component certified under this authorization shall have been produced, assembled, and tested in accordance with the provisions of the ASME BPE Standard on Bioprocessing Equipment.

COMPANY:

EGMO LTD.
Registered Trademark: MaxPure or MaxCore
1 Hayotsrim St.
Nahariya 2231101
Israel

SCOPE:

Manufacture of ferrous and nonferrous tubing
(excluding circumferential welds) and fittings at the above location only

AUTHORIZED: **May 21, 2023**
EXPIRES: **May 21, 2028**
CERTIFICATE NUMBER: **BPE-102**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services

NEUMO EHRENBERG GROUP

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