

December 2021

aerospace
climate control
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filtration
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pneumatics
process control
sealing & shielding



Parker Veriflo Division



Index

IntroductionPage 3		
Standard Features / Materials / Specifications Page 3		
ReducerPage 4	Page No. 1	
ElbowPages 4-5	Pales Pales 1300 75	PANCER PRIMU XXXX FE
TeePage 6	PARKETS PRIBE 33000 7500 75	
CrossPage 7		
Ordering Instructions Page 7		

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Introduction

Parker UHP fittings are designed as leak-free components for applications where ultra-high pure applications are required. MiniButtweld™ fittings provide compact ultra-high pure designs for use with orbital weld equipment. Their unique machining and surface enhancement prevent outgassing and inhibit corrosion.

Standard Features

- 316L VIM/VAR Material
- Permanently Heat Code marked; traceable to original mill certificate of test.
- Components permanently marked with designator PE on cube have controlled surface finishes to meet requirements of ultra-high purity systems.
- Critical surfaces are 100% visually inspected using magnification and lighting.
- · Material composition printed on bag.





Materials

 316L VIM/VAR Material complies with ASTM A276 and ASME SA479. Recommended tubing specifications include ASME SA213, ASTM A213, ASTM A249, ASTM A269, MIL T8504, and MIL T8506.

Specifications

 Pressure Ratings will be governed by the tubing selected for a particular application. Working Pressures are calculated below for tubing using maximum allowable stress levels in accordance with ASME/ANSI B31.3. at ambient temperature.

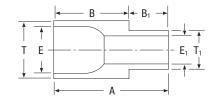
Tube	Press Rat		Normal Wall
O.D.	psig	bar	Thickness
1/8 in.	8500	580	.028 in.
1/4 in.	5100	350	.035 in.
3/8 in.	3300	220	.035 in.
1/2 in.	3500	240	.049 in.
6mm	6600	460	1 mm

- Dimensions are for reference only and are subject to change.
- Internal Surface Finishes: Standard finish MiniButtweld™ fittings have an internal Surface Roughness of 15 µinch Ra. PE MiniButtweld fittings have an internal Surface Roughness of 5µinch Ra.
- Cleaning and Packaging:
 - High Purity: All MiniButtweld™
 components are specially cleaned
 to remove non-volatile residues and
 packaged per ASTM G93-03 Level C.
 - Ultra-High Purity: MiniButtweld™ components can be ordered with a "-PE" designation signifying improved wetted surface condition and ultra-high purity cleaning/packaging in a Class 100 Cleanroom environment.



Reducing Union For fractional tube

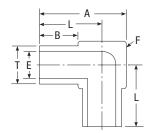




T Tube	T₁ Tube	Parker Part	,	4	E	3	В	3 ₁	ı	E	Е	1
O.D.	O.D.	Number	in.	mm	in.	mm	in.	mm	in.	mm.	in.	mm.
1/4	1/8	4-2 MHM-SSV .035 .028	0.75	19.1	0.50	12.7	0.25	6.4	0.18	4.6	0.07	1.8
3/8	1/4	6-4 MHM-SSV .035	0.75	19.1	0.50	12.7	0.25	6.4	0.30	7.7	0.18	4.6
1/2	1/4	8-4 MHM-SSV .049 .035	0.75	19.1	0.50	12.7	0.25	6.4	0.40	10.2	0.18	4.6
1/2	3/8	8-6 MHM-SSV .049 .035	0.75	19.1	0.50	12.7	0.25	6.4	0.40	10.2	0.30	7.7

90° Union Elbow For fractional tube

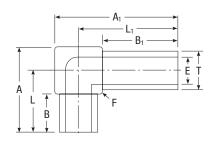




	Т	Parker	-	4	E	3			F		_
	Tube	Part							Body		
	O.D.	Number	in.	mm	in.	mm	in.	mm.	Cube	in.	mm.
	1/8	2-2 MEM-SSV .028	0.56	14.2	0.25	6.4	0.07	1.8	5/16	0.41	10.4
	1/4	4-4 MEM-SSV .035	0.56	14.2	0.25	6.4	0.18	4.6	5/16	0.41	10.4
	3/8	6-6 MEM-SSV .035	0.69	17.5	0.25	6.4	0.30	7.7	7/16	0.47	11.9
	1/2	8-8 MEM-SSV .049	0.81	20.6	0.25	6.4	0.40	10.2	9/16	0.53	13.5
(6 mm	6M-6M MEM-SSV	0.56	14.2	0.25	6.4	0.16	4.1	5/16	0.41	10.4

Extended Leg 90° Union Elbow For fractional tube



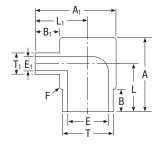


Т	Parker	-	4	Δ	\ ₁	E	3	Е	3 ₁	E		F	ı	_	L	-1
Tube O.D.	Part Number	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm.	Body Cube	in.	mm	in.	mm.
1/4	4-4 MEM1-SSV .035	0.56	14.2	0.76	19.3	0.25	6.4	.45	0.5	0.18	4.6	5/16	0.41	10.41	0.61	15.5
1/4	4-4 MEM2-SSV .035	0.56	14.2	0.81	20.6	0.25	6.4	.50	0.5	0.18	4.6	5/16	0.41	10.41	0.66	16.8
1/4	4-4 M1EM1-SSV .035	0.76	19.3	0.76	19.3	0.45	11.4	.45	0.5	0.18	4.6	5/16	0.61	15.49	0.61	15.5
1/4	4-4 M2EM2-SSV .035	0.81	20.6	0.81	20.6	0.50	12.7	.50	0.5	0.18	4.6	5/16	0.66	16.76	0.66	16.8



Reducing Elbow For fractional tube

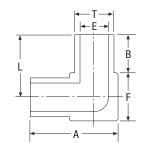




Т	T,	Parker	-	4	Α	\	E	3	В	1	E		E	1	F	ı	-	L	- 1
Tube	Tube	Part													Body				
O.D.	O.D.	Number	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm.	in.	mm.	Cube	in.	mm	in.	mm.
3/8	1/4	6-4 MEM-SSV .035	0.69	17.5	0.69	17.5	0.25	6.4	0.25	6.4	0.30	7.7	0.18	4.6	7/16	0.47	11.9	0.47	11.9
1/2	1/4	8-4 MEM-SSV .049 .035	0.81	20.6	0.81	20.6	0.25	6.4	0.25	6.4	0.40	10.2	0.18	4.6	9/16	0.53	13.5	0.53	13.5
1/2	3/8	8-6 MEM-SSV .049 .035	0.81	20.6	0.81	20.6	0.25	6.4	0.25	6.4	0.40	10.2	0.30	7.7	9/16	0.53	13.5	0.53	13.5

Tribow *For fractional tube*

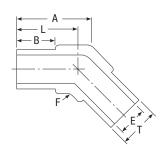




Т	Parker		4	E	3			F	I	
Tube O.D		in.	mm	in.	mm	in.	mm.	Body Cube	in.	mm.
1/4	4-4-4 MOJM-SSV .035	0.56	14.2	0.25	6.4	0.18	4.6	5/16	0.41	10.4
3/8	6-6-6 MOJM-SSV .035	0.69	17.5	0.25	6.4	0.30	7.7	7/16	0.47	11.9
1/2	8-8-8 MOJM-SSV .049	0.81	20.6	0.25	6.4	0.40	10.2	9/16	0.53	13.5

45° Union Elbow For fractional tube



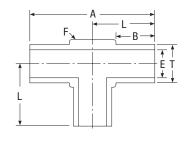


	T	Parker	-	4	E	3	E		F		
	Tube	Part							Body		
	O.D.	Number	in.	mm	in.	mm	in.	mm.	Cube	in.	mm.
ſ	1/4	4-4 MVM-SSV .035	0.47	11.9	0.25	6.4	0.18	4.6	5/16	0.41	10.4
	3/8	6-6 MVM-SSV .035	0.56	14.2	0.25	6.4	0.30	7.7	7/16	0.47	11.9
	1/2	8-8 MVM-SSV .049	0.64	16.3	0.25	6.4	0.40	10.2	9/16	0.53	13.5



Union Tee For fractional tube

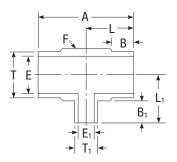




Т	Parker		4	E	3	E		F	I	L
Tube	Part							Body		
O.D.	Number	in.	mm	in.	mm	in.	mm.	Cube	in.	mm.
1/8	2-2-2 MJM-SSV .028	0.82	20.8	0.25	6.4	0.07	1.8	5/16	0.41	10.4
1/4	4-4-4 MJM-SSV .035	0.82	20.8	0.25	6.4	0.18	4.6	5/16	0.41	10.4
3/8	6-6-6 MJM-SSV .035	0.94	23.9	0.25	6.4	0.30	7.7	7/16	0.47	11.9
1/2	8-8-8 MJM-SSV .049	1.06	26.9	0.25	6.4	0.40	10.2	9/16	0.53	13.5
6 mm	6M-6M-6M MJM-SSV	0.82	20.8	0.25	6.4	0.16	4.1	5/16	0.41	10.4

Reducing Tee For fractional tube



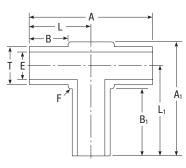


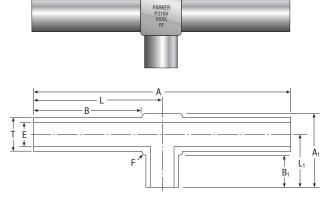
	Т	T,	Parker	1	Α		3	В	B ₁			E	1	_F	ı	-	L	-1
	Tube	Tube	Part											Body				
	O.D.	O.D.	Number	in.	mm	in.	mm	in.	mm	in.	mm.	in.	mm.	Cube	in.	mm	in.	mm.
	3/8	1/4	6-6-4 MJM-SSV .035	0.94	23.9	0.25	6.4	0.25	6.4	0.30	7.7	0.18	4.6	7/16	0.47	11.9	0.47	11.9
	1/2	1/4	8-8-4 MJM-SSV049049035	1.06	26.9	0.25	6.4	0.25	6.4	0.40	10.2	0.18	4.6	9/16	0.53	13.5	0.53	13.5
L	1/2	3/8	8-8-6 MJM-SSV049049035	1.06	26.9	0.25	6.4	0.25	6.4	0.40	10.2	0.30	7.7	9/16	0.53	13.5	0.53	13.5

Extended Leg Union Tee







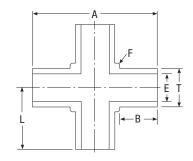


Т	Parker	1	4	A	\ ₁	E	3	В	B ₁	ı		F	ı	-	L	-1
Tube	Part											Body Cube				
O.D.	Number	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm.	Gubo	in.	mm	in.	mm.
1/4	4-4-4 MJM1-SSV .035	0.82	20.8	0.76	19.3	0.25	6.4	0.45	11.4	0.18	4.6	5/16	0.41	10.4	0.61	15.5
1/4	4-4-4 M3JM-SSV .035	1.97	50.0	0.56	14.2	0.83	21.1	0.25	6.4	0.18	4.6	5/16	0.98	24.9	0.41	10.4



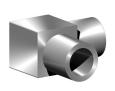
Union Cross For fractional tube





Т	Parker	1	4	E	3	E		F	L	_
Tube	Part							Body		
O.D.	Number	in.	mm	in.	mm	in.	mm.	Cube	in.	mm.
1/8	2 MKM-SSV .028	0.82	20.8	0.25	6.4	0.07	1.8	5/16	0.41	10.4
1/4	4 MKM-SSV .035	0.82	20.8	0.25	6.4	0.18	4.6	5/16	0.41	10.4
3/8	6 MKM-SSV .035	0.94	23.9	0.25	6.4	0.30	7.7	7/16	0.47	11.9
1/2	8 MKM-SSV .049	1.06	26.9	0.25	6.4	0.40	10.2	9/16	0.53	13.5
6 mm	6M MKM-SSV	0.82	20.8	0.25	6.4	0.16	4.1	5/16	0.41	10.4

Ordering Instructions



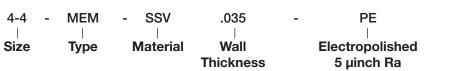








Example: If your system requires an electropolished 90° Elbow orbital tube weld fitting connecting from 1/4" O.D. tubing to 1/4" O.D. tubing, .035" wall thickness, you would order the following part:





Size: Tube sizes are designated by the number of sixteenths of an inch. (i.e. 1/4" O.D. tube=4/16"=4) Metric Tube O.D. is designated in millimeters and prefixed by "M". (i.e. 6M-6M MEM-SSV)

Type: Designates shape of component: H=Union, E=90° Elbow, V= 45° Elbow, J=Tee, K=Cross, OJ=Tribow.

Material: 316L VIM/VAR Stainless Steel. High-purity Nickel and Hastelloy C-22® available upon request.

Wall Thickness: Fittings must be specified to match tube wall thicknesses. See page 3 for standard wall thicknesses, other sizes available upon request.

Hastelloy C-22® is a registered trademark of Haynes International, Inc.

How To Order - Parker MiniButtweld™ Components are ordered by Part Number, as listed in this catalog.



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