

### **UltraSeal™ Fittings**

Catalog 4245-UltraSeal June 2006





### Introduction

Parker UHP products are designed as leak-free connections where ultrahigh pure conditions are required. UltraSeal<sup>™</sup> products, with their o-ring face seal design, and optional metal o-ring, provide a leak-free seal from vacuum to positive pressure.

### Cleaning and Packing

Ultra-High Purity 'OMEGA' cleaning and packing in a class 100 clean room environment validated per Federal Standard 209E, is standard for all electropolished UltraSeal<sup>™</sup> components.

### Performance

Parker High Purity Components are rated to a helium leak rate of 1 x

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10<sup>9</sup> cc/sec utilizing a helium mass spectrometer. Temperature ratings are governed by the choice of o-ring seal materials.

# 321 Stainless Steel (Silver or -350° to +1000° F Nickel plated): (-212° to +538° C) Fluorocarbon: -15° to +400° F (-26° to +204° C) PTFE: -50° to +400° F (-46° to +232° C)

Pressure

Pressure ratings will be governed by the gland selected for a particular system. Working pressures are rated at room temperature based on a 4-to-1 design factor. Pressure ratings are calculated in accordance with A.N.S.I. Power Piping Code B31.1.

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### **Materials**

UltraSeal components are available in standard 316L, 316L VAR, and 316L VIM/VAR Stainless Steels. Consult your local Parker distributor or factory for details. Refer to tables 1 and 2 for respective material specifications of gaskets and o-rings.

### Interior (I.D.) Surface Finishes

Parker High Purity components can be supplied with extremely low Ra internal surface finishes to meet requirements of ultra-high purity tubing systems. Electropolished internal surfaces can also be provided. Consult your local Parker distributor or the factory for more information.

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#### Offer of Sale

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### Make-Up

#### For Leak-tight UltraSeal

**Assemblies:** A positive seal is achieved by advancing the nut no less than 1/4 turn from finger-tight position. When a sharp rise in torque is felt, the sealing faces have met and the o-ring seal is compressed into its groove.

UltraSeal is capable of repeated remakes; advance the nut to a fingertight position and wrench until a sharp rise in torque is felt. No axial clearance is needed to remove components from a system; therefore, other system components are not disturbed.

### Design

The UltraSeal coupling is designed to effect a helium leak-tight seal when the face of the gland makes full metal-tometal contact with the face of the body, compressing the o-ring in the body groove.

The UltraSeal gland face and body o-ring groove are precision machined to accept either metallic (S.S.) or synthetic o-ring seals.

UltraSeal virtually eliminates turbulence and dead zones within the fitting. The bore diameter of body and gland are matched in all sizes, providing a smoother flow path. At no point does the O-ring seal intrude into the flow path.

### **Disassembly**

Position the o-ring UltraSeal Removal Tool against the seated o-ring and advance the nut to fingertight position. Continue to advance the nut until a sharp rise in torque is felt. The removal tool shoulder will seal against the body face preventing any over torque damage. The o-ring will "pinch" and release from the sealing groove.

#### TABLE 1

TYPICAL RAW Material SPECIFICATIONS						
FITTING Material	BAR STOCK	FORGINGS	RECOMMENDED TUBING SPECIFICATIONS			
Stainless Steel	ASTM A-276 TYPE 316	ASME SA-182 GRADE F316	ASME SA-213			
316	ASME SA-479 TYPE 316		ASTM A-213			
Stainless Steel 316L			ASTM A-249			
Stainless Steel 316L (VAR)	ASME SA-479 TYPE 316L	ASME SA-182 GRADE F316L	ASTM A-269 MIL T-8504 MIL T-8506			
Stainless Steel 316L (VIM/VAR)						

MATERIAL IS MARKED WITH HEAT CODE TO ENSURE MATERIAL TRACEABILITY

#### TABLE 2

O-RINGS TYPICAL RAW Material SPECIFICATIONS / TEMPERATURE RATINGS						
	Material SPECIFICATIONS TEMPERATURE RATINGS					
Metal O-Rings	SAE AMS-5570 TYPE 321-SS (silver plated) SAE AMS-5576 TYPE 321-SS (silver plated)	(-350° to + 1000° F) (-212° to + 538° C)				
Metal O-Rings	SAE AMS-5570 TYPE 321-SS (nickel plated) SAE AMS-5576 TYPE 321-SS (nickel plated)	(-350° to + 1000° F) (-212° to + 538° C)				
Fluorocarbon O-Rings	MIL-R-25897 TYPE 1	(-15° to + 400° F) (-26° to + 204° C)				
PTFE	SAE AMS-2651	(-50° to + 400° F) (-46° to + 232° C)				

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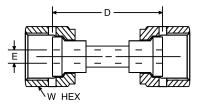
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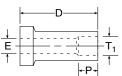
### UltraSeal Gland Union (Welded) Q1HBQ1



	Inches			
Part No.	W Hex	D	*E Bore	
4-4 Q1HBQ1	11/16	1.33	.18	
6-6 Q1HBQ1	7/8	1.25	.25	
8-8 Q1HBQ1	1	1.25	.31	

\*Note: Machined bore diameters to match machined bore in body.

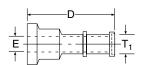
### UltraSeal Gland to Weld-lok Socket Q1W



	T <sub>1</sub>	Inches			
Part No.	Tube OD	D	Р	*E Bore	Working Pressure
4-2 Q1W	1/8	1	.16	.09	10,000
4-4 Q1W	1/4	1	.25	.18	7,700
6-4 QIW	1/4	1	.28	.18	10,000
6-6 QIW	3/8	1	.31	.25	5,000
8-4 Q1W	1/4	1	.25	.18	10,000
8-6 Q1W	3/8	1	.34	.31	9,500
8-8 Q1W	1/2	1	.41	.38	4,300
12-12 Q1W	3/4	1.50	.50	.50	4,600

\*Note: Machined bore diameters to match machined bore in body.

### UltraSeal Gland to Automatic Buttweld Q1Y



		Inches		**Auto	
Part No.	T <sub>1</sub>	D	*E Bore	Buttweld Wall Size	Working Pressure
4-4 Q1Y	1/4	1.13	.18	.035	7,700
6-4 Q1Y	1/4	1.19	.18	.035	7,700
6-6 Q1Y	3/8	1.19	.31	.035	4,900
8-4 Q1Y	1/4	1.19	.18	.035	7,700
8-6 Q1Y	3/8	1.19	.31	.035	4,900
8-8 Q1Y	1/2	1.34	.41	.049	5,000
12-12 Q1Y	3/4	1.50	.50	.065	3,900

\*Note: Machine bore diameters to match machined bore in body.

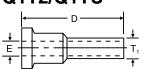
### UltraSeal Gland to MiniButtweld Q1M



#### Inches \*E Working Bore Part No. D Т K Pressure 4-4 Q1M .60 .25 .25 5,400 .18 6-6 Q1M .62 .25 .38 .25 4,300 8-8 Q1M .62 .31 .50 .25 3,600

\*Note: Machined bore diameters to match machined bore in body.

### UltraSeal Gland to Tube Stub Adapter Q1T2/Q1TU



Part No.	T,	D	*E Bore	Working Pressure
4-4 Q1T2 (CPI™)	1/4	1.25	.18	4,500
6-6 Q1T2	3/8	1.38	.25	6,700
8-8 Q1T2	1/2	1.68	.31	6,250
12-12 Q1T2	3/4	2.31	.50	6,250
4-4 Q1TU (A-lok®)	1/4	1.21	.18	4,500
6-6 Q1TU	3/8	1.38	.25	6,700
8-8 Q1TU	1/2	1.56	.31	6,250
12-12 Q1TU	3/4	2.25	.50	6,250

\*Note: Machined bore diameters to match machined bore in body.



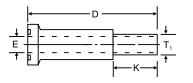


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### UltraSeal™ Components

### UltraSeal Inverted Gland to Male Tube Weld Q1RT3



	Inches					
Part No.	D	E	T <sub>1</sub>	K		
4-4 Q1RT3	1.70	.18	.25	.75		

\*Note: Machined bore diameters to match machined bore in body.

### UltraSeal Inverted Gland to Automatic Buttweld Q1RY

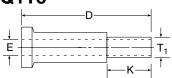
	Inches			**Auto	
Part No.	T <sub>1</sub>	D	*E Bore	Buttweld Wall Size	Working Pressure
4-4 Q1RY	1/4	1.72	.18	.035	7,700
****					

\*Note: Machine bore diameters to match machined bore in body.

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### UltraSeal Gland to Male Tube Weld

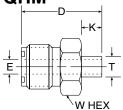
Q1T3



	Inches						
Part No.	D	E	T <sub>1</sub>	K			
4-4 Q1T3	1.25	.18	.25	.75			
8-6 Q1T3	1.50	.31	.38	.75			
8-8 Q1T3	1.50	.41	.50	.75			
12-12 Q1T3	1.22	.50	.75	.75			

\*Note: Machined bore diameters to match machined bore in body.

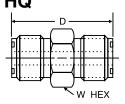
### UltraSeal Body to MiniButtweld QHM



	Inches				
Part No.	Т	D	K	*E Bore	W Hex
4-4 QHM .035	.25	1.00	.25	.18	5/8
6-6 QHM .035	.38	1.03	.25	.25	15/16
8-8 QHM .049	.50	1.00	.25	.31	15/16

\*Note: Machined bore diameters to match machined bore in body.

### UltraSeal Union HQ



	Inches		
Part No.	W Hex	D	
4-4 HQ	5/8	1.19	
6-4 HQ	13/16	1.22	
6-6 HQ	13/16	1.22	
8-4 HQ	15/16	1.25	
8-8 HQ	15/16	1.25	
12-12 HQ	1-3/8	1.59	

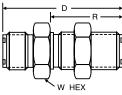




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### UltraSeal to Bulkhead Connector WBQ



D

W HEX

R

UltraSeal Bulkhead to
Automatic Buttweld Connector
YH2BQ

	Inches				
Part No.	W Hex	D	R		
4-4 WBQ	3/4	1.59	.88		
6-6 WBQ	15/16	2.00	.88		
8-8 WBQ	1-1/16	1.69	.91		
12-12 WBQ	1-9/16	2.09	1.06		

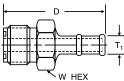
Note: Fitting includes WLZ bulkhead lock nut.

#### Inches W Part No. Hex D R $\mathbf{I}_1$ 4-4 YH2BQ 3/4 2.11 1/4 .88 6-6 YH2BQ 15/16 1.91 3/8 .88 8-8 YH2BQ 1-1/16 2.13 1/2 .91

Note: Fitting includes WLZ bulkhead lock nut.

# UltraSeal to Automatic Buttweld Connector

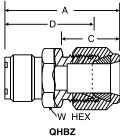
### QHY

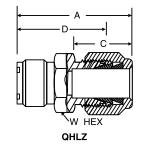


	Inches			*Auto
Part No.	T,	W Hex	D	Buttweld Wall Size
4-4 QHY	1/4	5/8	1.47	.035
6-4 QHY	1/4	13/16	1.50	.035
6-6 QHY	3/8	13/16	1.53	.049
8-4 QHY	1/4	15/16	1.66	.035
8-6 QHY	3/8	15/16	1.53	.035
8-8 QHY	1/2	15/16	1.66	.049
12-12 QHY	3/4	1-3/8	2.03	.065

# UltraSeal to Compression Tube Union

### QHBZ/QHLZ





		Inches				
Part No.	Tube O.D.	W Hex	C	A	D	
4-4 QHBZ (CPI™)	1/4	5/8	.70	1.42	1.13	
6-4 QHBZ	1/4	13/16	.70	1.45	1.16	
6-6 QHBZ	3/8	13/16	.76	1.51	1.22	
8-4 QHBZ	1/4	15/16	.70	1.48	1.19	
8-6 QHBZ	3/8	15/16	.76	1.55	1.25	
8-8 QHBZ	1/2	15/16	.87	1.65	1.25	
12-12 QHBZ	3/4	1-3/8	.87	1.89	1.49	

	Inches				
Part No.	Tube O.D.	W Hex	C	A	D
4-4 QHLZ (A-lok®)	1/4	5/8	.70	1.42	1.13
6-4 QHLZ	1/4	13/16	.70	1.45	1.16
6-6 QHLZ	3/8	13/16	.76	1.51	1.22
8-4 QHLZ	1/4	15/16	.70	1.48	1.19
8-6 QHLZ	3/8	15/16	.76	1.55	1.25
8-8 QHLZ	1/2	15/16	.87	1.65	1.25
12-12 QHLZ	3/4	1-3/8	.87	1.89	1.49



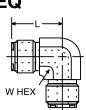


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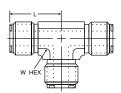
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### UltraSeal<sup>™</sup> Components

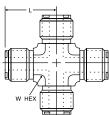
### **UltraSeal Union Elbow** EQ



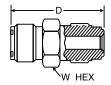
### **UltraSeal Union Tee** JQ



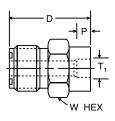
### **UltraSeal Union Cross** KQ



### **UltraSeal to VacuSeal** VHQ



### **UltraSeal to Socket Weld Connector** QHW



		Inches				
Part No.	T₁ Tube O.D.	W Hex	D	P		
4-2 QHW	1/8	5/8	1.02	.16		
4-4 QHW	1/4	5/8	1.09	.25		
6-4 QHW	1/4	13/16	1.06	.28		
6-6 QHW	3/8	13/16	1.16	.31		
8-4 QHW	1/4	15/16	1.03	.25		
8-6 QHW	3/8	15/16	1.13	.34		
8-8 QHW	1/2	15/16	1.19	.41		
12-12 QHW	3/4	1-3/8	1.53	.50		

Inches

D

1.39

1.55





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	Inches		
Part No.	W Hex	L	
4-4 EQ	9/16	.84	
6-6 EQ	3/4	.97	
8-8 EQ	7/8	1.03	
12-12 EQ	1-3/8	1.46	

	Inches		
Part No.	W Hex	-	
4-4-4 JQ	9/16	.84	
6-6-6 JQ	3/4	.97	
8-8-8 JQ	7/8	1.03	
12-12-12 JQ	1-5/16	1.31	

	Inches		
	W		
Part No.	Hex	L	
4 KQ	9/16	.84	
6 KQ	3/4	.97	
8 KQ	7/8	1.03	

	W	
Part No.	Hex	L
4 KQ	9/16	.84
6 KQ	3/4	.97
8 KQ	7/8	1.03
8 KQ	7/8	1.03

W

Hex

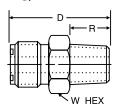
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15/16

Part No. 4-4 VHQ

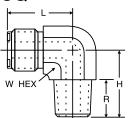
8-8 VHQ

### UltraSeal to Male Pipe Connector FQ



	Inches			
Part No.	Pipe Thread	W Hex	D	R
4-2 FQ	1/8	5/8	1.09	.38
4-4 FQ	1/4	5/8	1.28	.56
6-4 FQ	1/4	13/16	1.31	.56
6-6 FQ	3/8	13/16	1.31	.56
8-4 FQ	1/4	15/16	1.34	.56
8-6 FQ	3/8	15/16	1.34	.56
8-8 FQ	1/2	15/16	1.53	.75
12-8 FQ	1/2	1-3/8	1.78	.75
12-12 FQ	3/4	1-3/8	1.78	.75

### UltraSeal to Male Elbow CQ



	Inches				
Part No.	Pipe Thread	W Hex	н	L	R
4-4 CQ	1/4	9/16	1.00	.84	.56
6-4 CQ	1/4	3/4	1.13	.97	.56
6-6 CQ	3/8	3/4	1.13	.97	.56
8-6 CQ	3/8	7/8	1.25	1.03	.56
8-8 CQ	1/2	7/8	1.31	1.03	.75
12-12 CQ	3/4	1-5/16	1.66	1.31	.75

### UltraSeal to Tube Stub Weld Elbow QET3



	Inches					
		*E	_		W	
Part No.	H	Bore	L	R	Hex	
4-4 QET3	1.03	.18	.84	.65	9/16	.25

### UltraSeal to Male Connector Straight Thread QHAO

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W HEX

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	Inches				
Part No.	Straight Thread Size	W Hex	D	R	
4-2 QHAO*	5/16-24	5/8	1.03	.30	
4-4 QHAO	7/16-20	5/8	1.09	.36	
4-6 QHAO	9/16-18	11/16	1.13	.39	
6-6 QHAO	9/16-18	7/8	1.14	.39	
6-8 QHAO	3/4-16	7/8	1.19	.44	
8-8 QHAO	3/4-16	15/16	1.31	.47	

\*Note: Mass flow controller fitting with .125" orifice in straight thread end. Fitting is assembled with Fluorocarbon O-Ring. Other materials are available upon request.





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### UltraSeal™ Components

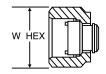
Inches W

Hex 11/16

7/8

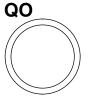
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### **UltraSeal O-Ring Removal Tool**



Note: For O-Ring removal instructions, see page 3.

### **UltraSeal O-Rings**



Material			
321 (SILVER PLATED)			
Nickel			
Material			
321 (NICKEL PLATED)			
321 (NICKEL PLATED)			
321 (NICKEL PLATED)			

Fluorocarbon Rubber		
Part No.	Material Compound	
4QO-VI	FLUOROCARBON	

4QO-VI	FLUOROCARBON
6QO-VI	FLUOROCARBON
8QO-VI	FLUOROCARBON
12QO-VI	FLUOROCARBON
PTFE	
Part No.	Material Compound
Part No. 4QO-TE	Material Compound PTFE
4QO-TE	PTFE

### **UltraSeal Plug**

FNQ1		Inches
← A →	Part No.	Α
	4 FNQ1	.69
	6 FNQ1	.81
+-1  ++	8 FNQ1	.84
	12 FNQ1	1.00

.

### **UltraSeal Nuts**

Part No.

4 O-Ring Removal Tool

6 O-Ring Removal Tool

8 O-Ring Removal Tool



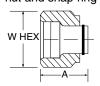
		Inches		
Part No.	W Hex	A	Straight Thread Size	
4 BQ	11/16	.56	9/16-20	
6 BQ	7/8	.69	3/4-20	
8 BQ	1	.69	7/8-20	
12 BQ	1-1/2	.81	1-5/16-20	

Note: UltraSeal nuts are silver plated (I.D.) only to provide for lubrication during assembly.

	Inches		
Part No.	W Hex	A	Straight Thread Size
4 BQI*	5/8	.65	9/16-20

### UltraSeal Plug Assembly FNQ

Assembly includes plug, nut and snap ring



**PNQ** 

	Inches		
Part No.	A	W Hex	
4 FNQ	1.02	11/16	
6 FNQ	1.19	7/8	
8 FNQ	1.21	1	
12 FNQ	1/42	1-1/2	

BQI*	
	A──→
	$\neg$
STRAIGHT THREAD	`W HEX

		Inches			
	Part No.	W Hex	A	Straight Thread Size	
1	4 PNQ	5/8	.72	9/16-20	
÷	6 PNQ	13/16	.75	3/4-20	
4	8 PNQ	15/16	.81	7/8-20	





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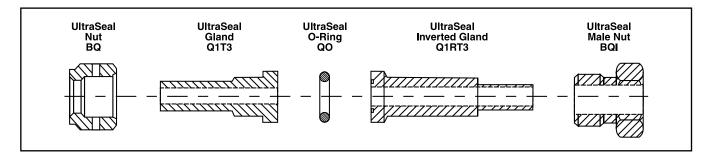
### Nomenclature

UltraSeal coupler part numbers are constructed from symbols that identify the size and configuration of the fitting and material used.

### **How To Order**

Parker UltraSeal components are ordered by part number, as listed in this catalog. Note: Each component must be ordered separately.

Example: If your system requires an UltraSeal coupler going from 1/4" tubing to 1/4" tubing, you would order the following part. (Keep in mind that you must order each component separately.)



### To Order:

4 BQ-SS	Size 4 UltraSeal Nut Stainless Steel
4-4 Q1T3-SSR	Size 4 UltraSeal Gland to Size 4 Male
	Tube Weld – Stainless Steel
4 QO-SS	Size 4 Stainless Steel O-Ring
4-4 Q1RT3-SSR.035	Size 4 UltraSeal Inverted Gland to
	Size 4 Male Tube – Stainless Steel
4 BQI-SS	Size 4 UltraSeal Male Nut Weld

*Size:* Tube and Pipe Thread sizes are designated by the number of sixteenths of an inch (1/4" Pipe Thread = 4/16" = 4).

*Straights, Elbows and Tees:* Call out the UltraSeal end first, followed by the corresponding Pipe Thread size or Weld-lok end.

UltraSeal End Data Information

	UltraSeal	Inches			
Size	Straight Thread	*L	**C	W Hex	E Diameter
4	9/16-20	.46	.73	11/16	.18
8	7/8-20	.47	.85	1	.31
12	1-5/16-20	.57	1.05	1-3/8	.50

\*Average Value

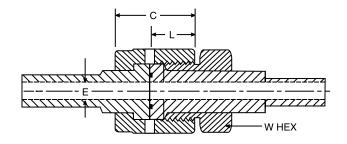
\*\*Dimension C is shown in the finger tight position

used to designate the type of UltraSeal fitting (i.e., F = MaleConnector, H = Union, etc.). See Visual Index for other type fittings.

**Special Fittings:** If there is any question as to the fitting desired, particularly for special fitting configurations, it is suggested that a customer print be submitted with the request for quote.

Type: A letter or combination of letters and numbers are

**Availability:** Only items as standard are carried in stock. Non-standard items can be quoted on request for quantities or materials specified.







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