Nano Pure

FITTINGS

ULTRA HIGH PURITY

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"NanoPure" is a brand of Gas Delivery Total Solution, belongs to King Lai Group, who was founded 1991 in Taiwan and expanded production facility in Kunshan, Jiangsu Province, China. Supplying tubing/piping and fitting materials service for Semiconductor, FPD, LED and Photovoltaic industries, the core idea of ***"NanoPure"*** is providing "High purity materials" with high quality components for gas delivery applications.

Gas supply and delivery is always the topic to study in Semiconductor processing. To ensure the accuracy of the processing, the purity of gas sources is the vital factors. Keeping the purity while the gas has been transferred into processing tools is highly monitored by process engineers.

"NanoPure" is composed of people who are specialist in stainless steels fabrication. By making sure the selection of finest materials, we provide finest products. The key point is how to control the quality of materials which

Introduction

makes big difference of welding quality while installing or welding assembly. There will be the potential impurity or inclusion in welding process. Therefore, electropolish is the solvable process for increasing reliability of stainless steel to against corrosion gases.

"NanoPure" aims to provide the highest quality products, so the quality control and uniformity are essential points to promise customers. In the meantime, we do put emphasis on the details of products such as dimension and tolerance which are important for quality control and therefore remain the high yield rate for assembly. Operational packages can be followed according to the customer's instruction, the ranging from normal standard clean package to Ultra High Purity clean room package.

"NanoPure" In addition to UHP products, we also provide various products needed by various Industries, such as Oil & Gas Industries, Process Instrumentation, Power Generation, Pulp & Paper, Chemical, Analytical Instrumentation, Hydrogen Fuel Cells and Natural Gas.

"NanoPure" considers every single key processing during the fabrication.

Our goal is keeping
continually improvement to reach customers' satisfaction!

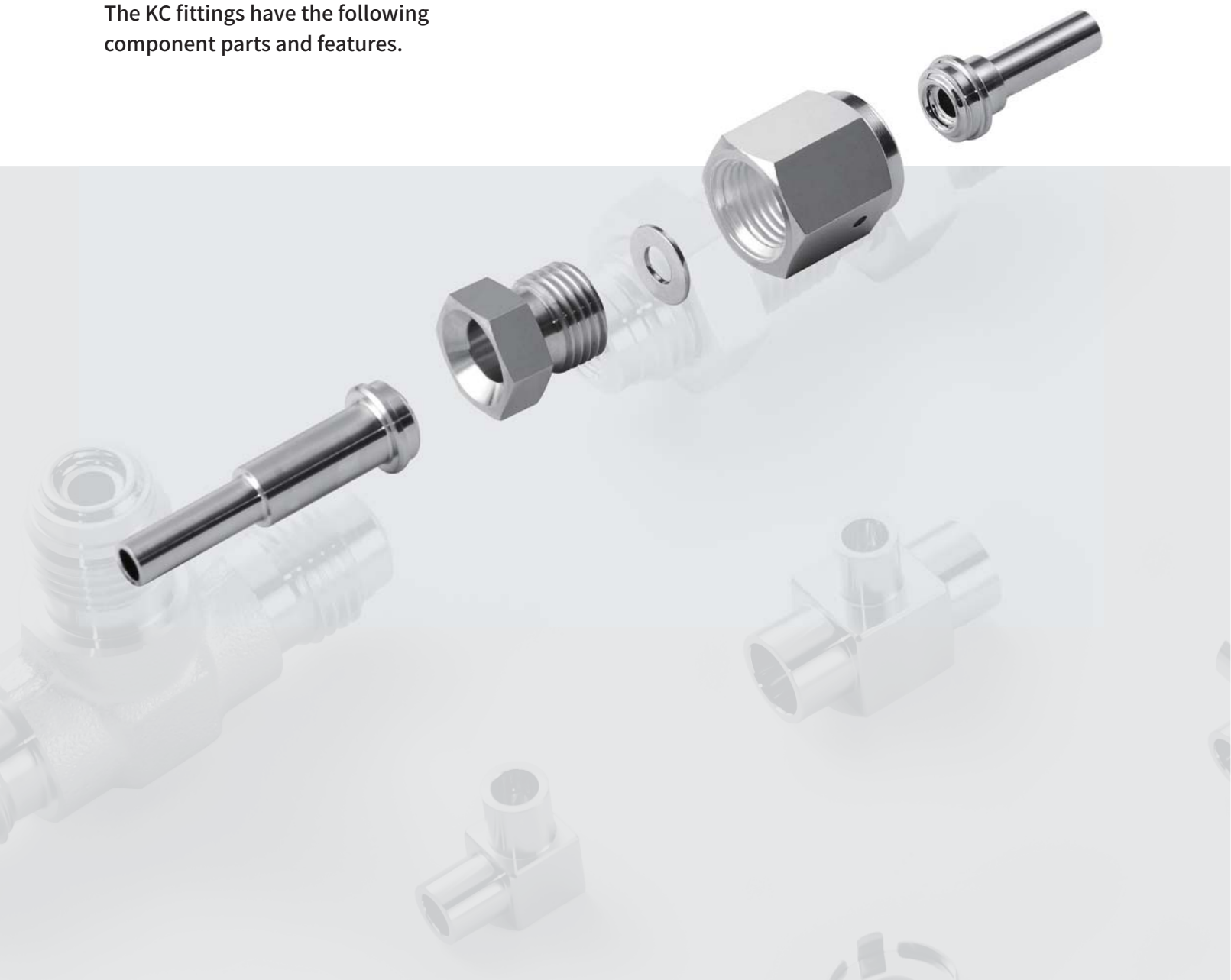
Overview

Reliable enough to handle high purity gas VC series of fittings In the semiconductor related products are becoming more advanced at an accelerated pace and the requirements placed on gas piping system materials have become more diverse KMC offers a wide range supply of UHP fittings to accommodate highpurity gases and meets the needs of the application precisely The products presented here are the VC series of mechanically welded joints the KMC (Clean Micro Fittings) series of primarily weld fittings All product groups are high-reliability high- quality products that are based on each type of semiconductor-use piping material and underwent a rigorous production process .

Fittings are fittings with mechanical metal gasket sealing surface. VC & KMC series unique electropolishing and cleaning, testing, and packaging are done in a clean room.

This make them suitable for use in applications.

The KC fittings have the following component parts and features.



Assembly Instruction

Gasket Assembly

Step 1

Place the gasket into the female nut, and make sure the gasket is settled in proper position.

Step 2

Assemble the components as shown in the picture.
Screw tight the components as shown in the picture.

Step 3

Make sure male nut and female nut are tightened, and scribe an aligned line of the hex face of male nut and female nut.

Step 4

Final tightening requires assembly tools such as wrenches or spanners. Hold the male nut with the tool and screw the female nut 1/8 turn.

Product Grade

Grade	STD	EP
Material	SUS316, SUS316L, SUS316L VAR (Double melt material)	
Surface Roughness	Ra ≤ Max 10 µinch (0.25µm) Ra ≤ Average 20 µinch (0.5µm)	Ra ≤ Max 5 µinch (0.13µm) Ra ≤ Average 10 µinch (0.25µm)
Polish	Mechanical Polished	Electro Polished
Cleaning	Degreasing + Precision cleaning	
Clean Room Environment	Class100	
Packaging	Single bagged package	Double bagged package

Temperature Rating

Products	Material	° F	° C
VC	316 or 316L	1000	538
	316L VAR or VIM / VAR	1000	538
KMC	316L VAR or VIM / VAR	1000	538
Gasket	316	1000	538
	Nickel	1000	538

Pressure Rating
Internation Certification
ISO 9001, Certified by S.I.I

Products	Material	Size	Wall Thickness	Pressure Rating	
				Psig	Bar
VC Series	316L or 316L VIM/VAR	1/8”	0.028”(0.71mm)	8550	590
		1/4”	0.035”(0.89mm)	5200	359
		3/8”	0.035”(0.89mm)	3350	231
		1/2”	0.049”(1.24mm)	3750	259
		3/4”	0.049”(1.24mm)	2400	165
		3/4”	0.065”(1.65mm)	3350	231
		1”	0.065”(1.65mm)	2400	165

PLATING

Female threads are silver plated in order to reduce the risk of galling and to improve the remakeability of the fitting. This high-quality plating also reduces the torque required for the fitting assembly.

These solutions damage the silver plating and invalidate any expressed or implied warranty.

WELDING

Reference Specs: All welded products are manufactured and welded according to SEMI F75,F81.

TESTING

Follows the relevant ASTM, ANSI, ASME, ISO, SEMI & SEMASPEC standards for testing and for qualifying processes and results.

HELIUM LEAK

VC products are tested and qualified to a helium leak rate of less than 3x10-10 std cm3/sec. Reference Spec: SEMI F1.

SURFACE FINISH

Reference Spec: ANSI B46.1 and ISO 4288.

SURFACE ANALYSIS

SEM/EDX/AES analysis is used to monitor surface defects per ASTM F1372 and ASTM F1375.

MOISTURE ANALYSIS

Based on ASTM F1397.

PARTICLE CONTRIBUTION TEST

Based on Semaspec 90120390 B.

Production Range Table

Type	Description		Materials (Ni Gasket Only)		
			316	316L	VAR or VIM/VAR
Gland	GL	Long Gland	X	O	O
	GS	Short Gland			
	GH	High Flow Gland			
	GLR	Long Gland Reducer			
	GLS	Short Gland Reducer			
	GB	Blind Gland			
Nut	FN	Female Nut	O	X	
	MN	Male Nut			
	SMN	Short Male Nut			
	HFN	High Flow Female Nut			
	HFNS	High Flow Female Nut			
	HMN	High Flow Male Nut			
	CN	Coupling Nut			
Cap	C	Cap			
Plug	P	Plug			
Gasket	SS-G	SS Gasket	O	X	X
Union	UM	Male Union	X	O	
	RMU	Reducing Male Union			
	BUM	Bulkhead Male Union			
	BUT	Bulkhead Male To Tube			
	UE	Male Elbow			
	UT	Male Tee			
	UC	Male Cross			
Rotating Union	RUF	Female Union	X	O	O
	RUEF	Female Elbow			
	RUTF	Female Tee			
	RUCF	Female Cross			
	RUM	Male Union			
	RUEM	Male Elbow			
	RUTM	Male Tee			
	RUCM	Male Cross			
KMC Fitting	RD	Reducing Union	X	O	
	UE	90°Union Elbow			
	UEE	90°Union Elbow Extended			
	RU	90°Reducing Elbow			
	HVE	45° Union Elbow			
	UT	Union Tee			
	RT	Reducing Tee			
	BET	Branch Extended Tee			
	RET	Run Exteded Tee			
	UC	Union Cross			
	TT	Tribow Tee			

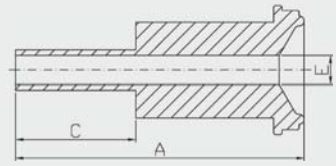
PRODUCT

VC Series

KMC Series

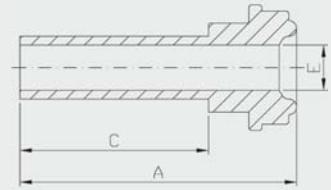
Long Gland

Ordering	VC Size	OD	A	C	E	
-04-VC-GL-04-B-	1/4	1/4	1.20 (30.5)	0.25 (6.4)	0.18 (4.6)	
-04-VC-GL-04-1.31-	1/4	1/4	1.31 (33.3)	0.36 (9.1)	0.18 (4.6)	
-04-VC-GL-04-C-	1/4	1/4	1.32 (33.5)	0.38 (9.6)	0.18 (4.6)	
-04-VC-GL-04-D-	1/4	1/4	1.70 (43.2)	0.75 (19.1)	0.18 (4.6)	
-08-VC-GL-04-D-	1/2	1/4	1.80 (45.7)	0.75 (19.1)	0.18 (4.6)	
-08-VC-GL-06-E-	1/2	3/8	1.29 (32.8)	0.25 (6.4)	0.31 (7.9)	
-08-VC-GL-06-F-	1/2	3/8	1.79 (45.5)	0.75 (19.1)	0.31 (7.9)	
-08-VC-GL-08-G-	1/2	1/2	1.29 (32.8)	0.25 (6.4)	0.40 (10.2)	
-08-VC-GL-08-H-	1/2	1/2	1.41 (35.8)	0.38 (9.6)	0.40 (10.2)	
-08-VC-GL-08-I-	1/2	1/2	1.79 (45.5)	0.75 (19.1)	0.40 (10.2)	
-12-VC-GL-12-J-	3/4	3/4	2.03 (51.6)	0.75 (19.1)	0.65 (16.5)	
-16-VC-GL-16-K-	1	1	2.32 (58.9)	0.75 (19.1)	0.87 (22.1)	

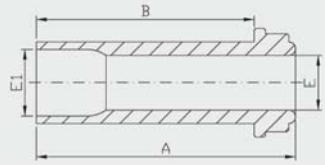


Short Gland

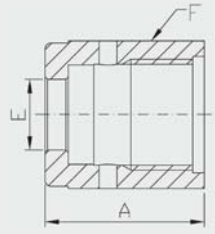
Ordering	VC Size	OD	A	C	E	
-04-VC-GS-04-B-	1/4	1/4	0.60 (15.2)	0.25 (6.4)	0.18 (4.6)	
-04-VC-GS-04-C-	1/4	1/4	0.72 (18.3)	0.38 (9.6)	0.18 (4.6)	
-04-VC-GS-04-D-	1/4	1/4	1.10 (27.9)	0.75 (19.1)	0.18 (4.6)	
-08-VC-GS-04-D-	1/2	1/4	1.12 (28.4)	0.75 (19.1)	0.18 (4.6)	
-08-VC-GS-06-E-	1/2	3/8	0.62 (15.7)	0.25 (6.4)	0.31 (7.9)	
-08-VC-GS-06-F-	1/2	3/8	1.12 (28.4)	0.75 (19.1)	0.31 (7.9)	
-08-VC-GS-08-G-	1/2	1/2	0.62 (15.7)	0.25 (6.4)	0.40 (10.2)	
-08-VC-GS-08-H-	1/2	1/2	0.74 (18.8)	0.38 (9.6)	0.40 (10.2)	
-08-VC-GS-08-I-	1/2	1/2	1.12 (28.4)	0.75 (19.1)	0.40 (10.2)	
-12-VC-GS-12-J-	3/4	3/4	1.14 (29.0)	0.75 (19.1)	0.62 (15.8)	
-16-VC-GS-16-K-	3/4	3/4	1.26 (32.0)	0.75 (19.1)	0.87 (22.1)	



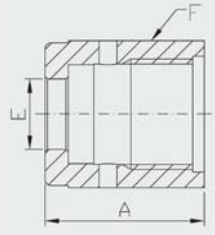
High Flow Gland

Ordering	VC Size	OD	A	B	E	E1	
-04-VC-GH-06-L-	1/4	3/8	0.60 (15.2)	0.41 (10.4)	0.25 (0.64)	0.31 (7.9)	
-04-VC-GH-06-M-	1/4	3/8	1.19 (30.2)	1.00 (25.4)	0.25 (0.64)	0.31 (7.9)	
-04-VC-GH-06-N-	1/4	3/8	1.31 (33.3)	1.12 (28.4)	0.25 (0.64)	0.31 (7.9)	

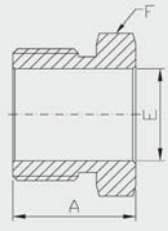
Female Nut

Ordering	VC Size	A	F	E	
6L-04-VC-FN	1/4	0.81 (20.6)	3/4	0.36 (9.1)	
6L-08-VC-FN	1/2	0.88 (22.4)	1 1/16	0.61 (15.5)	
6L-12-VC-FN	3/4	1.12 (28.4)	1 1/2	0.89 (22.6)	
6L-16-VC-FN	1	1.34 (34.0)	1 3/4	1.20 (30.5)	

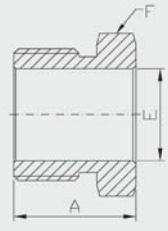
High Flow Female

Ordering	VC Size	A	F	E	
6L-04-VC-HFNS	1/4	0.81 (20.6)	3/4	0.36 (9.1)	
6L-08-VC-HFN	1/4	0.81 (20.6)	3/4	0.46 (11.7)	

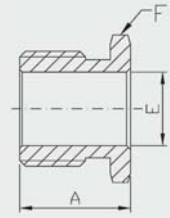
Male Nut

Ordering	VC Size	A	F	E	
6L-04-VC-MN	1/4	0.71 (18.0)	5/8	0.36 (9.1)	
6L-08-VC-MN	1/2	0.81 (20.6)	15/16	0.61 (15.5)	
6L-12-VC-MN	3/4	1.00 (25.4)	1 5/16	0.89 (22.6)	
6L-16-VC-MN	1	1.19 (30.2)	1 5/8	1.20 (30.5)	

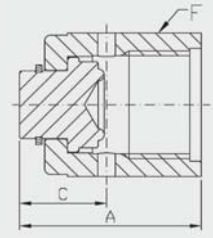
High Flow Male

Ordering	VC Size	A	F	E	
6L-04-VC-HMN	1/4	0.7 (18.0)	5/8	0.39 (9.9)	

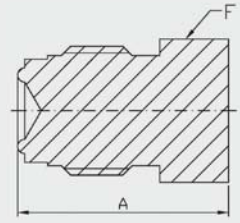
Male Short Nut

Ordering	VC Size	A	F	E	
6L-04-VC-SMN-.54	1/4	0.54 (13.7)	5/8	0.36 (9.1)	
6L-04-VC-SMN-.65	1/4	0.65 (16.5)	5/8	0.36 (9.1)	

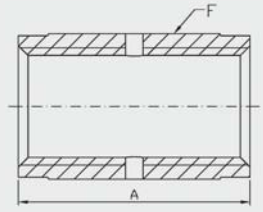
Cap

Ordering	VC Size	A	C	F	
6L-04-VC-C	1/4	0.94 (23.9)	0.44 (11.2)	3/4	
6L-08-VC-C	1/2	1.01 (25.6)	0.45 (11.4)	1 1/16	
6L-12-VC-C	3/4	1.29 (32.8)	0.54 (13.7)	1 1/2	
6L-16-VC-C	1	1.54 (39.1)	0.63 (16.0)	1 3/4	

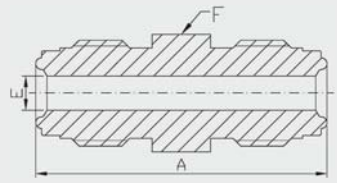
Plug

Ordering	VC Size	A	F	
6L-04-VC-P	1/4	0.92 (23.4)	5/8	
6L-08-VC-P	1/2	1.08 (27.4)	15/16	
6L-12-VC-P	3/4	1.43 (36.3)	1 5/16	
6L-16-VC-P	1	1.52 (38.6)	1 5/8	

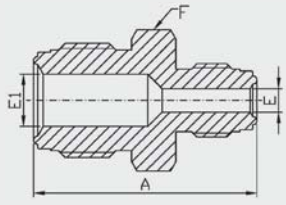
Coupling

Ordering	VC Size	A	F	
6L-04-VC-CN	1/4	1.19 (30.2)	3/4	
6L-08-VC-CN	1/2	1.31 (33.3)	1 1/16	
6L-12-VC-CN	3/4	1.68 (42.7)	1 1/2	
6L-16-VC-CN	1	2.04 (51.8)	1 3/4	

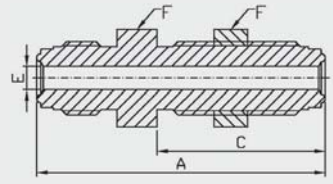
Male Union

Ordering	VC Size	A	E	F	
6L-04-VC-UM-	1/4	1.55(39.4)	0.18(4.6)	5/8	
6L-08-VC-UM-	1/2	1.84(46.7)	0.40(10.2)	15/16	
6L-12-VC-UM-	3/4	2.44(62.0)	0.62(15.7)	1 5/16	
6L-16-VC-UM-	1	2.59(65.8)	0.87(22.1)	1 5/8	

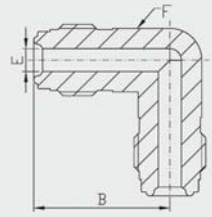
Reducing Union

Ordering	VC Size		A	E	E1	F	
6L-08-04-VC-RMU-	1/2	1/4	1.71 (43.4)	0.18 (4.6)	0.40 (10.2)	15/16	

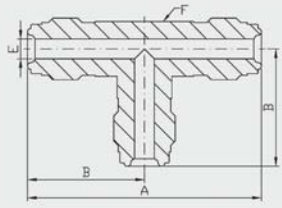
Bulkhead Union

Ordering	VC Size	A	C	E	F	Panel Hole Dia	Max Panel Thickness	
6L-04-VC-BUM-	1/4	2.23 (56.6) 1.82 (46.2)	1.30 (33.0) 0.99 (25.1)	0.18 (4.6)	3/4	19/32 (15.0)	0.44 (11.2) 0.13 (3.3)	
6L-08-VC-BUM-	1/2	2.57 (65.3) 2.14 (54.4)	1.48 (37.6) 1.11 (28.2)	0.40 (10.2)	1 1/16	29/32 (23.1)	0.50 (12.7) 0.13 (3.3)	

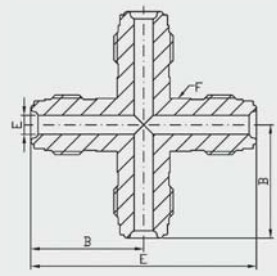
Union Elbow

Ordering	Face Seal Size	B	E	F	
6L-04-VC-UE-	1/4	1.07 (27.2)	0.18 (4.6)	1/2	
6L-08-VC-UE-	1/2	1.45 (36.8)	0.40 (10.2)	13/16	
6L-12-VC-UE-	3/4	1.92 (48.8)	0.62 (15.7)	1 1/4	
6L-16-VC-UE-	1	2.00 (50.8)	0.87 (22.1)	1 11/16	

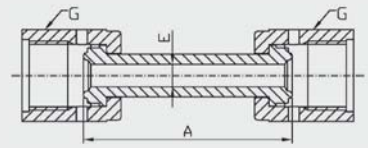
Union Tee

Ordering	VC Size	A	B	E	F	
6L-04-VC-UT-	1/4	2.14 (54.4)	1.07 (27.2)	0.18 (4.6)	1/2	
6L-08-VC-UT-	1/2	2.90 (73.7)	1.45 (36.8)	0.40 (10.2)	13/16	
6L-12-VC-UT-	3/4	3.84 (97.5)	1.92 (48.8)	0.62 (15.7)	1 1/4	
6L-16-VC-UT-	1	4.00 (102)	2.00 (50.8)	0.87 (22.1)	1 11/16	

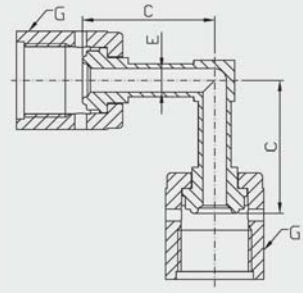
Union Cross

Ordering	VC Size	A	B	E	F	
6L-04-VC-UC-	1/4	2.14 (54.4)	1.07 (27.2)	0.18 (4.6)	1/2	
6L-08-VC-UC-	1/2	2.90 (73.7)	1.45 (36.8)	0.40 (10.2)	13/16	
6L-12-VC-UC-	3/4	3.84 (97.5)	1.92 (48.8)	0.62 (15.7)	1 1/4	
6L-16-VC-UC-	1	4.00 (102)	2.00 (50.8)	0.87 (22.1)	1 11/16	

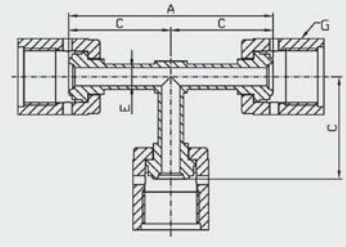
Rotation Female Union

Ordering	VC Size	A	E	G	
-04-VC-RUF-	1/4	1.71 (43.4)	0.18 (4.6)	3/4	
-08-VC-RUF-	1/2	1.84 (46.7)	0.40 (10.2)	1 1/16	

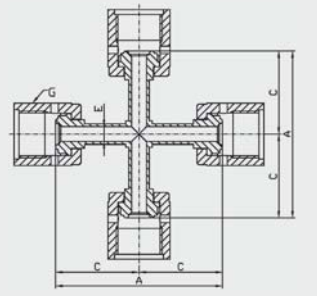
Rotation Female Elbow

Ordering	VC Size	C	E	G	
-04-VC-RUEF-	1/4	1.00 (25.4)	0.18 (4.6)	3/4	
-12-VC-RUEF-	1/2	1.15 (29.2)	0.40 (10.2)	1 1/16	

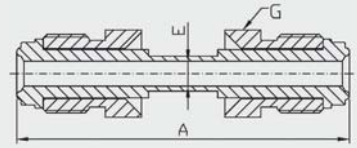
Rotation Female

Ordering	VC Size	A	C	E	G	
-04-VC-RUTF-	1/4	2.00 (50.8)	1.00 (25.4)	0.18 (4.6)	3/4	
-08-VC-RUTF-	1/2	2.30 (58.4)	1.15 (29.2)	0.40 (10.2)	1 1/16	

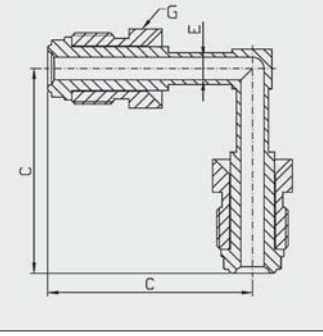
Rotation Female Cross

Ordering	VC Size	A	C	E	G	
-04-VC-RUCF-	1/4	2.00 (50.8)	1.00 (25.4)	0.18 (4.6)	3/4	
-08-VC-RUCF-	1/2	2.30 (58.4)	1.15 (29.2)	0.40 (10.2)	1 1/16	

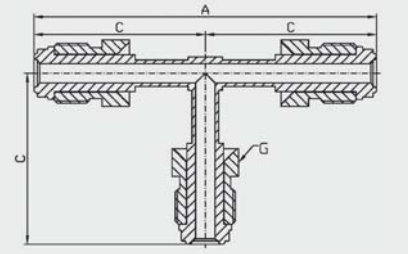
Rotation Male Union

Ordering	VC Size	A	E	G	
-04-VC-RUM-	1/4	2.40 (60.96)	0.18 (4.6)	5/8	
-08-VC-RUM-	1/2	2.58 (65.64)	0.40 (10.2)	15/16	

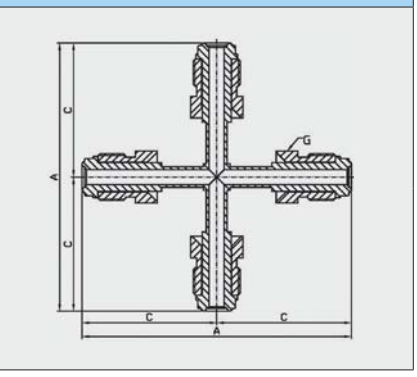
Rotation Male Elbow

Ordering	VC Size	C	E	G	
-04-VC-RUEM-	1/4	1.61 (40.9)	0.18 (4.6)	5/8	
-08-VC-RUEM-	1/2	1.82 (46.2)	0.40 (10.2)	15/16	

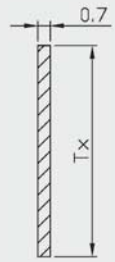
Rotation Male Tee

Ordering	VC Size	A	C	E	G	
-04-VC-RUTM-	1/4	3.22 (81.8)	1.61 (40.9)	0.18 (4.6)	5/8	
-08-VC-RUTM-	1/2	3.64 (92.5)	1.82 (46.2)	0.40 (10.2)	15/16	

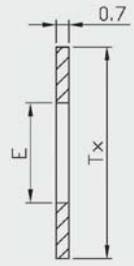
Rotation Male Cross

Ordering	VC Size	A	C	E	G	
-04-VC-RUCM-	1/4	3.22 (81.8)	1.61 (40.9)	0.18 (4.6)	5/8	
-08-VC-RUCM-	1/2	3.64 (92.5)	1.82 (46.2)	0.40 (10.2)	15/16	

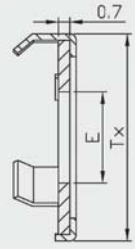
Blind Gasket

Ordering	VC Size	Tx	
-04-VC-BG-	1/4	0.47 (11.9)	
-08-VC-BG-	1/2	0.78 (19.8)	
-12-VC-BG-	3/4	1.14 (29.0)	
-16-VC-BG-	1	1.40 (35.6)	

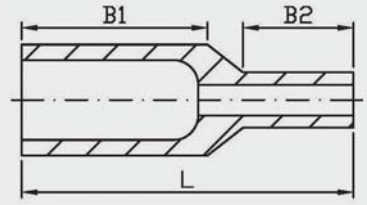
Gasket

Ordering	VC Size	E	Tx	
-04-VC-GA-	1/4	0.22 (5.6)	0.47 (11.9)	
-08-VC-GA-	1/2	0.44 (11.2)	0.78 (19.8)	
-12-VC-GA-	3/4	0.66 (16.8)	1.14 (29.0)	
-16-VC-GA-	1	0.89 (22.6)	1.40 (35.6)	

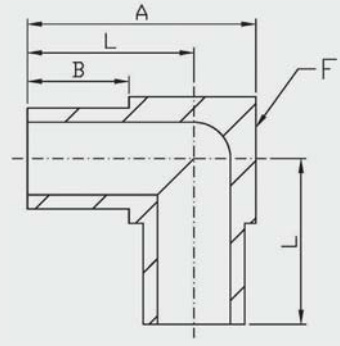
Retainer Gasket

Ordering	VC Size	E	Tx	
-04-VC-RGA-	1/4	0.24 (6.1)	0.50 (12.7)	
-08-VC-RGA-	1/2	0.44 (11.2)	0.79 (20.1)	
-12-VC-RGA-	3/4	0.66 (16.8)	1.14 (29.0)	
-16-VC-RGA-	1	0.89 (22.6)	1.40 (35.6)	

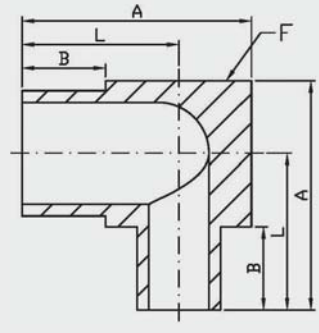
Reducer

Ordering	KMC Size		A	B1	B2	
-KMC-06-RD-04-	3/8	1/4	0.75 (19.0)	0.42 (10.7)	0.25 (6.4)	
-KMC-08-RD-04-	1/2	1/4	0.75 (19.0)	0.42 (10.7)	0.25 (6.4)	
-KMC-08-RD-06-	1/2	3/8	0.75 (19.0)	0.42 (10.7)	0.25 (6.4)	

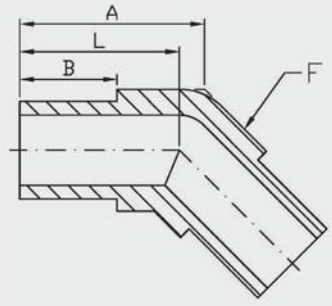
90° Elbow

Ordering	KMC Size	A	B	F	L	
-KMC-04-UE-04-	1/4	0.56 (14.2)	0.25 (6.4)	5/16	0.41 (10.4)	
-KMC-06-UE-06-	3/8	0.69 (17.5)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-UE-08-	1/2	0.81 (20.6)	0.25 (6.4)	9/16	0.53 (13.5)	

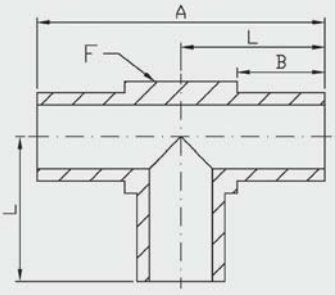
90° Reducing Elbow

Ordering	KMC Size		A	B	F	L	
-KMC-06-RU-04-	3/8	1/4	0.69 (17.5)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-RU-04-	1/2	1/4	0.81 (20.6)	0.25 (6.4)	9/16	0.53 (13.5)	
-KMC-08-RU-06-	1/2	3/8	0.81 (20.6)	0.25 (6.4)	9/16	0.53 (13.5)	

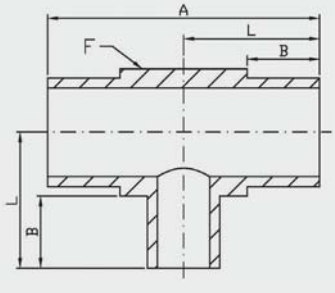
45° Elbow

Ordering	KMC Size	A	B	F	L	
-KMC-04-HUE-04-	1/4	0.47 (11.9)	0.25 (6.4)	5/16	0.41 (10.4)	
-MC-06-HUE-06-	3/8	0.56 (14.2)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-HUE-08-	1/2	0.64 (16.3)	0.25 (6.4)	9/16	0.53 (13.5)	

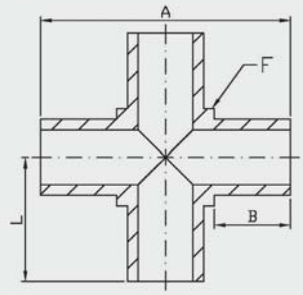
Tee

Ordering	KMC Size	A	B	F	L	
-KMC-04-UT-04-	1/4	0.82 (20.8)	0.25 (6.4)	5/16	0.41 (10.4)	
-KMC-06-UT-06-	3/8	0.94 (23.9)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-UT-08-	1/2	1.06 (26.9)	0.25 (6.4)	9/16	0.53 (13.5)	

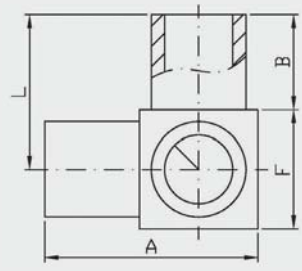
Reducing Tee

Ordering	KMC Size		A	B	F	L	
-KMC-06-RT-04-	3/8	1/4	0.94 (23.9)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-RT-04-	1/2	1/4	1.06 (26.9)	0.25 (6.4)	9/16	0.53 (13.5)	
-KMC-08-RT-06-	1/2	3/8	1.06 (26.9)	0.25 (6.4)	9/16	0.53 (13.5)	

Cross

Ordering	KMC Size	A	B	F	L	
-KMC-04-UC-04-	1/4	0.82 (20.8)	0.25 (6.4)	5/16	0.41 (10.4)	
-KMC-06-UC-06-	3/8	0.94 (23.9)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-UC-08-	1/2	1.06 (26.9)	0.25 (6.4)	9/16	0.53 (13.5)	

Tribow Tee

Ordering	KMC Size	A	B	F	L	
-KMC-04-TT-04-	1/4	0.56 (14.2)	0.25 (6.4)	5/16	0.41 (10.4)	
-KMC-06-TT-06-	3/8	0.69 (17.5)	0.25 (6.4)	7/16	0.47 (11.9)	
-KMC-08-TT-08-	1/2	0.81 (20.6)	0.25 (6.4)	9/16	0.53 (13.5)	

VC Fitting For example

6V - 04 - VC - GL - D - FA

A		B		C	D			E		F			G	
Materials		VC Size		Series	Type			Tube Size		Gland Length			Electropolished	
SS	SS 316	02	1/8”	VC	Gland	GL	Long Gland	02	1/8"	A	1/8"	19.1mm	BA	Without EP Ra ≤ 20 µin (0.5 µm)
6L	316L	04	1/4”			GS	Short Gland	04	1/4"	B	1/4"	6.4mm	FA	EP Ra ≤ 5 µin (0.13 µm) < 6V only
6V	316L VAR	06	3/8”			GH	High Flow Gland	06	3/8"	C		9.6mm	FB	EP Ra ≤ 10 µin (0.25 µm)
NI	Nickel	08	1/2”			GLR	Long Gland Reducer	08	1/2"	D		19.1mm		
		12	3/4”			GLS	Short Gland Reducer	12	3/4"	E	3/8"	6.4mm		
		16	1”			GB	Blind Gland	16	1"	F		19.1mm		
					Nut	FN	Female Nut			G	1/2"	6.4mm		
						MN	Male Nut			H		9.6mm		
						SMN	Short Male Nut			I		19.1mm		
						HFN	High Flow Female Nut			J	3/4"	19.1mm		
						HFNS	High Flow Female Nut			K	1"	19.1mm		
						HMN	High Flow Male Nut			High Gland Length				
						CN	Coupling Nut			L	3/8"	10.4mm		
					Cap	C	Cap			M		25.4mm		
					Plug	P	Plug			N		28.4mm		
					Gasket	BG	Blind Gasket							
						GA	Gasket							
						RGA	Retainer Gasket							
					Union	UM	Male Union							
						RMU	Reducing Male Union							
						BUM	Bulkhead Male Union							
						BUT	Bulkhead Male To Tube							
						UE	Male Elbow							
						UT	Male Tee							
						UC	Male Cross							
					Rotating Union	RUF	Female Union							
						RUEF	Female Elbow							
						RUTF	Female Tee							
						RUCF	Female Cross							
						RUM	Male Union							
						RUEM	Male Elbow							
						RUTM	Male Tee							
						RUCM	Male Cross							

Micro Fitting For example

6VV - KMC - 04 - UT - 2 - FA

A		Type	B		C		D		E	
Materials			Size		Type		Size		Electropolished	
6L	316L		02	1/8"	RD	Reducer Union	02	1/8"	FA	Ra ≤ 5µin (0.13µm)
6VV	316L VIM / VAR		04	1/4"	UE	90° Union Elbow	04	1/4"	FB	Ra ≤ 10 µin (0.25 µm)
			06	3/8"	UEE	90° Union Elbow Extended	06	3/8"		
			08	1/2"	RU	90° Reducing Elbow	08	1/2"		
		KMC			TT	Tribow Tee				
					HUE	45° Union Elbow				
					UT	Union Tee				
					RT	Reducing Tee				
					BET	Branch Extended Tee				
					RET	Run Extended Tee				
					UC	Union Cross				

KL® GROUP

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