

DAWSONS-TECH[®]

OVER 35 YEARS OF EXPERIENCE

HIGH PURITY METAL GASKET FACE SEAL FITTINGS



***Most Cost Effective, World Class Quality
Flow Control Components for Wide Range
of Industries and Applications***

THE COMPANY

DAWSONS-TECH is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent and Reliable World Class Quality Flow Control Components** used in Fluid / Gas Control systems in a wide range of Industries.

MANUFACTURING :

DAWSONS-TECH established its comprehensive state of art manufacturing and testing facility installing various CNC Turning Centre and CNC Turnmill Centre, Vertical Machining Centre, etc. with the highly motivated and dedicated team of employees in place. This facilitate us to design and manufacture our product range under stringent quality checks and measurements that ensures **“A TOTAL CUSTOMER SATISFACTIONS WITH ZERO DEFECT PRODUCTS”**.

QUALITY :

DAWSONS-TECH pursues not only performance of its products but also ensures **“TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE TO ISO 9001:2015”** which is achieved by alerting and educating each and every employee, the importance of quality and by implementing the quality control procedures at every stage of production to final inspection from incoming raw material to finish products.

		
OUR CAPABILITIES	CERTIFICATIONS	DEMAND IN INDUSTRIES
<ul style="list-style-type: none"> • Over 35 Years of Experience • Excellent Technical Knowledge • Latest Design Equipment's & Software • Modern Manufacturing Facilities • Highly Motivated Team of Employees • Excellent Inspection Facilities • Product Performance Testing Facilities 	<ul style="list-style-type: none"> • ISO 9001-2015 • PED 2014/68/EU • ASTM F1387-19 • MSS SP-99-2016a • Helium Leak Test • Hydro Static Proof Test • Pneumatic Proof Test 	<ul style="list-style-type: none"> • Original Equipment Manufacturers • Chemical & Petrochemical • Oil & Gas • Power • Compressed Natural Gas (CNG) • Pharmaceutical • Semiconductor
 <div>BENEFITS</div> <ul style="list-style-type: none"> • High Quality • Proven Design for Leak Free Connections • Effective Operations 	<ul style="list-style-type: none"> • High Efficiency • Technical Expertise • Prompt Reply 	<ul style="list-style-type: none"> • Maximum Flexibility • Maximum Safety in Operation • Substantial Cost Saving

RESEARCH & DEVELOPMENT :

With our long experience, expertise and continues Research & Development with incorporation of advanced technology and high-tech cutting-edge machineries, **DAWSONS-TECH** is committed to constant upgradation and expand its product range to meet the requirements of its customer to their entire satisfaction at every time.

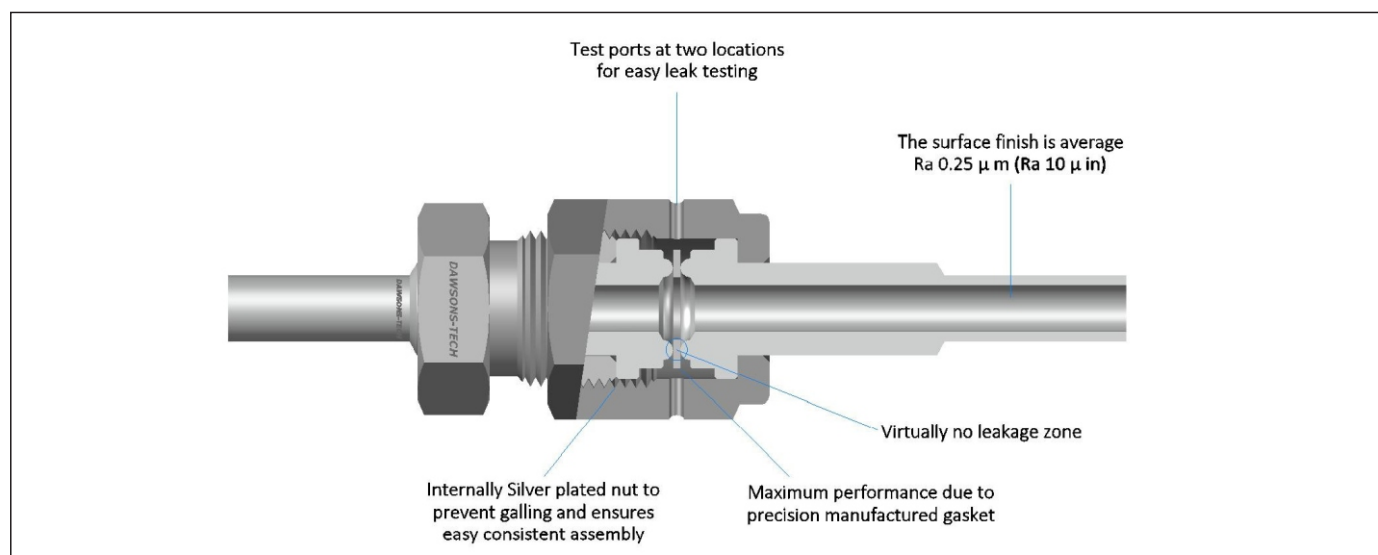
CUSTOMER SATISFACTION :

We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with very competitive price.

DAWSONS-TECH carefully design and manufacture Metal Gasket Face Seal Fittings and Clean Weld Fittings for High Purity and Ultra High Purity applications. We work towards achieving our common objectives by sharing knowledge, experience and expertise within ourselves as well as co-ordinated teamwork to develop our product line that reflects the company's deep understanding and the critical requirements of the Semiconductor, Biotech and Pharmaceutical Industries.

Features / Benefits :

FEMALE NUT: Internally Silver Plated to extend the Fittings life by preventing galling across a wide range of temperature and also reduce the torque during assembly.



Surface Finish :

Products	LEVEL 'E'			LEVEL 'NE'		
	Treatment	Ra (Microinch)		Treatment	Ra (Microinch)	
		Max	Average		Max	Average
Glands	Electropolished	10	5	Non-Electropolished	15	10
Mini Buttweld	Electropolished	10	5	Non-Electropolished	15	10
Shaped Unions	Electropolished	10	15	Non-Electropolished	20	15
Long Weld Shaped Connectors	Electropolished	10	5	Non-Electropolished	15	10
Threaded Straight Connectors	Electropolished	10	5	Non-Electropolished	20	10

Level 'E' – Electropolished / Level 'NE' – Non-Electropolished

Material :

Each and every components of Metal Gasket Face Seal Fittings and Clean Weld Fittings are manufactured from Heat Code traceable Material Grade SS316L confirming to ASTM A479 / A182.

Testing :

DAWSONS-TECH Face Seal Fittings are Helium Leak Tested and qualified to leak rate of 10^{-9} torr.

Temperature Rating :

Products	Material	PSIG	°C
GFS FITTINGS	316L	1000	538
GFS GASKETS	316SS	1000	538
GFS GASKETS	NICKEL	1000	538
GFS BUTTWELD	316L	1000	538

Pressure Rating :

Pressure Ratings are calculated in accordance with ANSI code of pressure piping ANSI B-31, for Stainless Steel Fittings. All working pressures are at 4:1 safety factor.

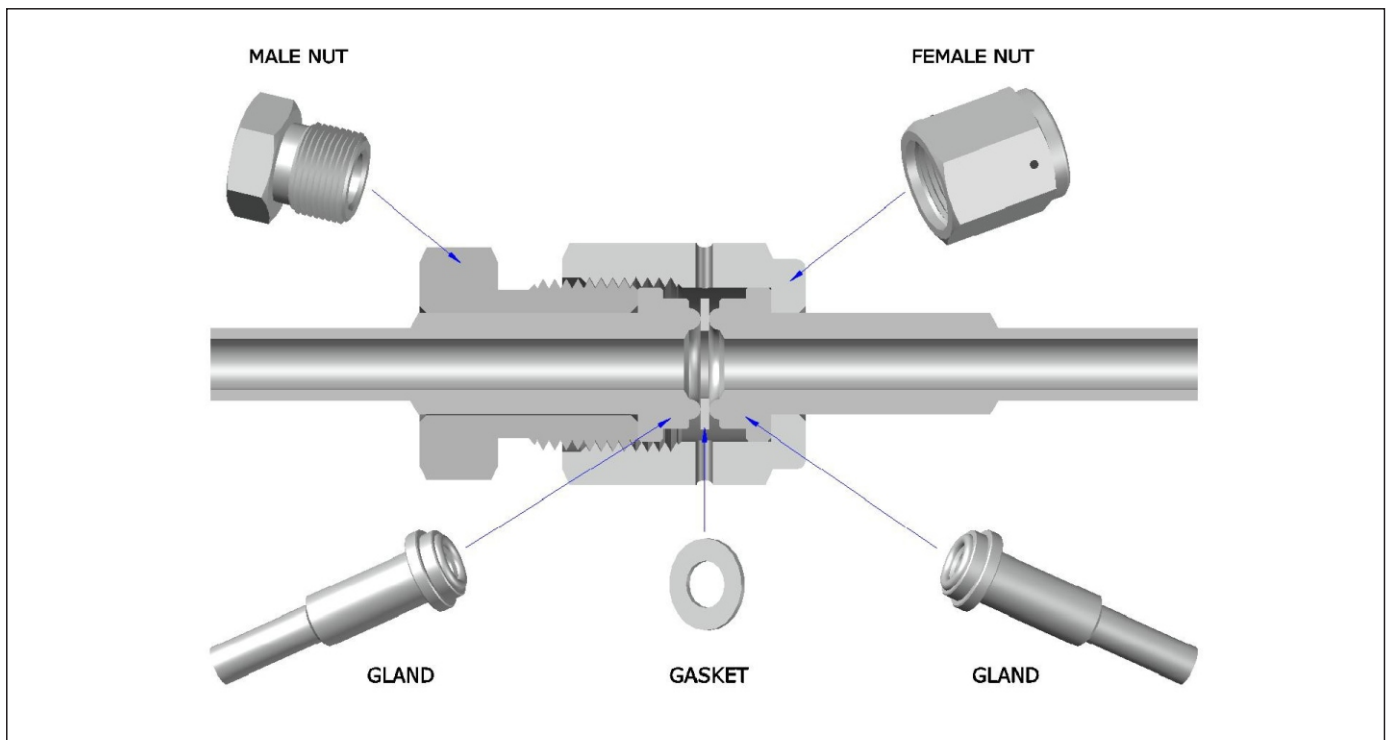
Cleaning :

Precision cleaning is done by Ultra Sonic cleaning process with D.I. water after the passivation.

Packing :

Each finished component is double bagged in a clean room to ensure cleanliness and protect it from environmental contamination.


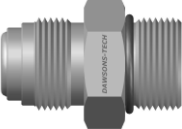



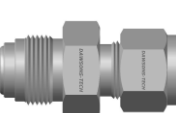

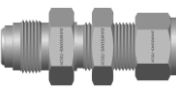

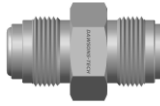

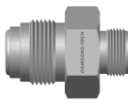

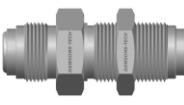


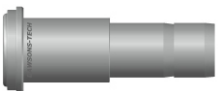







Assembly Instructions For Face Seal Fittings :



1. Be sure to protect all DAWSONS-TECH Face Seal Fittings until assembly and make-up. Extreme care should be taken so that the sealing surfaces are not scratched, damaged or contaminated in any way during handling and assembly.
2. Always use a clean environment and employ proper clean room environment for the make-up and assembly of Face Seal Fittings.
3. Finger tighten Female Nut to the Male Nut / Body assuring that all Components have made proper contact are in position for final tightening with wrenches.
4. Tighten the Female Nut $1/8 - 1/4$ turn past finger tight.
5. Face Seal Connections are remarkable. Always use a new gasket for each remake.

GLANDS :

BODIES :

	Short Tube Butt Weld	7		Straight Thread 'O' Ring Seal Male Connector	12
	Long Tube Butt Weld	8		Female NPT Connector	12
	Short Automatic Tube Butt Weld	8		Compression Tube Fitting Connector	13
	Long Automatic Tube Butt Weld	9		Compression Tube Fitting Bulkhead Connector	13
	Socket Weld	9		Union	13
	Short Socket Weld	10		Reducing Union	14
	Reducing Socket Weld	10		Bulkhead Union	14
	Male Weld	10		Tube Butt Weld Bulkhead Connector	14
	Tube Adapter	11		Coupling	15
	Blind	11		Male Elbow	15
	Male NPT Connector	11		Union Elbow	15
	Male NPT Bulkhead Connector	12		Union Tee	16

BODIES :



Union Cross

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NUTS, CUPS & PLUG :



Female Nut

16



Male Nut

17



Short Male Nut

17



Cap

17



Plug

18

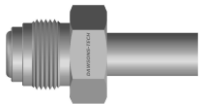
MAX FLOW - GLAND :



Tube Butt Weld

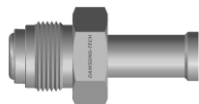
18

MAX FLOW - BODIES :



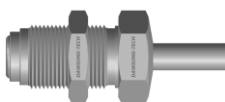
Tube Butt Weld

18



Automatic Tube Weld

19



Bulkhead Connector

19



Union Elbow

19



Union Tee

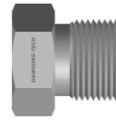
20

MAX FLOW - NUTS :



Female Nut

20



Male Nut

20

GASKETS :



Non-Retained (Silver Plated)

21



Non-Retained (Un-Plated)

21



Gasket Retainer Assembly
(Silver Plated)

21



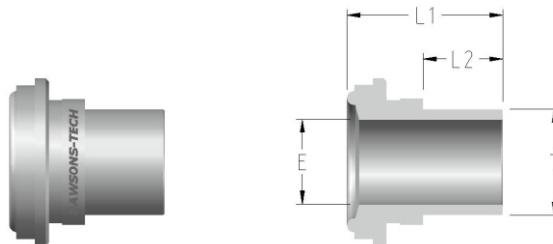
Gasket Retainer Assembly
(Un-Plated)

22

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GLANDS

Short Tube Butt Weld



Standard Configuration Dimensions

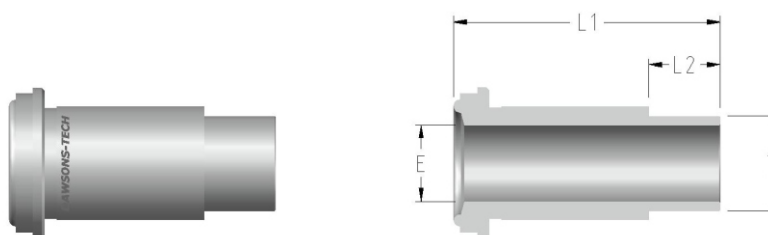
Face Seal Size	Tube OD	Wall Thickness	Dimensions in mm			Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T		E	L1	L2		
Fractional							
1/4	1/4	0.035	4.6	15.2	6.4	5100 (351)	GFSSTG-4-4BW/15
1/4	1/4	0.035	4.6	18.3	9.6	5100 (351)	GFSSTG-4-4BW/18
1/4	1/4	0.035	4.6	27.9	19.1	5100 (351)	GFSSTG-4-4BW/27
1/2	1/4	0.035	4.6	28.4	19.1	4300 (296)	GFSSTG-8-4BW
1/2	3/8	0.035	7.9	15.7	6.4	3300 (227)	GFSSTG-8-6BW/15
1/2	1/2	0.049	10.2	15.7	6.4	3700 (254)	GFSSTG-8-8BW/15
1/2	1/2	0.049	10.2	18.8	9.6	3700 (254)	GFSSTG-8-8BW/18
1/2	1/2	0.049	10.2	28.4	19.1	3700 (254)	GFSSTG-8-8BW/28
Metric							
1/4	6mm	1.0mm	4.0	29.5	19.1	6800 (468)	GFSSTG-4-6MBW
1/4	8mm	1.0mm	6.0	29.5	19.1	4900 (337)	GFSSTG-4-8MBW
1/2	10mm	1.0mm	8.0	29.5	19.1	3500 (241)	GFSSTG-8-12MBW
1/2	12mm	1.0mm	10.0	29.5	19.1	3100 (213)	GFSSTG-8-12MBW
3/4	18mm	1.5mm	15.0	31.0	19.1	3000 (206)	GFSSTG-12-18MBW

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GLANDS

Long Tube Butt Weld

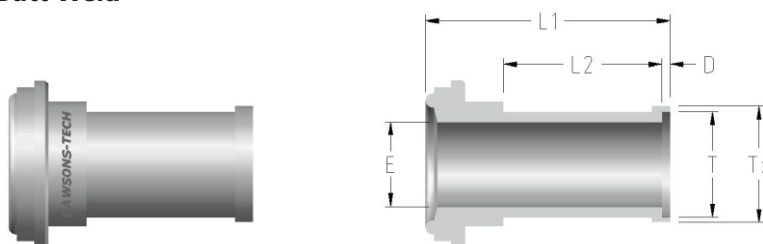


Standard Configuration Dimensions

Face Seal Size	Tube OD	Wall Thickness	Dimensions in mm			Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T		E	L1	L2		
Fractional							
1/4	1/4	0.035	4.6	30.5	6.4	5100 (351)	GFSLTG-4-4BW/30
1/4	1/4	0.035	4.6	33.3	9.1	5100 (351)	GFSLTG-4-4BW/33
1/4	1/4	0.035	4.6	33.5	9.6	5100 (351)	GFSLTG-4-4BW/34
1/4	1/4	0.035	4.6	43.2	19.1	5100 (351)	GFSLTG-4-4BW/43
1/2	1/4	0.035	4.6	45.7	19.1	4300 (296)	GFSLTG-8-4BW
1/2	3/8	0.035	7.9	32.8	6.4	3300 (227)	GFSLTG-8-6BW/32
1/2	3/8	0.035	7.9	45.5	19.4	3300 (227)	GFSLTG-8-6BW/45
1/2	1/2	0.049	10.2	32.8	6.4	3700 (254)	GFSLTG-8-8BW/32
1/2	1/2	0.049	10.2	35.8	9.6	3700 (254)	GFSLTG-8-8BW/35
1/2	1/2	0.049	10.2	45.5	19.1	3700 (254)	GFSLTG-8-8BW/45
3/4	3/4	0.049	16.5	51.6	19.1	2400 (165)	GFSLTG-12-12BW
1	1	0.065	22.1	58.9	19.1	2400 (165)	GFSLTG-16-16BW
Metric							
1/4	6mm	1.0mm	4.0	43.2	19.1	6800 (468)	GFSLTG-4-6MBW
1/4	8mm	1.0mm	6.0	43.2	19.1	4900 (337)	GFSLTG-4-8MBW
1/2	10mm	1.0mm	8.0	45.5	19.1	3500 (241)	GFSLTG-8-10MBW
1/2	12mm	1.0mm	10.0	45.5	19.1	3100 (213)	GFSLTG-8-12MBW
3/4	18mm	1.5mm	15.0	51.6	19.1	3000 (206)	GFSLTG-12-18MBW

Dimensions are for reference only and are subject to change.

Short Automatic Tube Butt Weld



Standard Configuration Dimensions

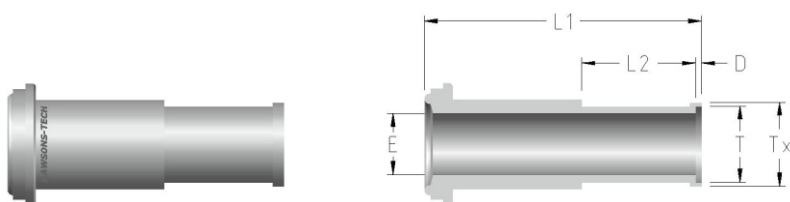
Face Seal Size	Tube OD	Wall Thickness	Dimensions in mm					Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T		D	E	L1	L2	Tx		
Fractional									
1/4	1/4	0.035	0.5	4.6	28.4	19.1	7.4	5100 (351)	GFSSATG-4-4BW
1/2	3/8	0.035	0.8	7.9	29.2	19.1	10.4	3300 (227)	GFSSATG-8-6BW
1/2	1/2	0.049	1.0	10.2	29.5	19.1	14.0	3500 (241)	GFSSATG-8-8BW
Metric									
1/4	6mm	1.0mm	0.5	4.0	30.0	19.1	6.8	6800 (468)	GFSSATG-4-6MBW
1/4	8mm	1.0mm	0.8	6.0	30.2	19.1	8.9	4900 (337)	GFSSATG-4-8MBW
1/2	10mm	1.0mm	0.8	8.0	31.0	19.1	10.9	3500 (241)	GFSSATG-8-10MBW
1/2	12mm	1.0mm	1.0	10.0	30.5	19.1	13.2	3100 (213)	GFSSATG-8-12MBW

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GLANDS

Long Automatic Tube Butt Weld

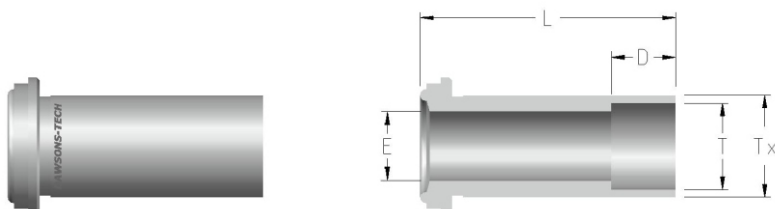


Standard Configuration Dimensions

Face Seal Size	Tube OD	Wall Thickness	Dimensions in mm					Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T		D	E	L1	L2	Tx		
Fractional									
1/4	1/4	0.035	0.5	4.6	43.7	19.1	7.4	5100 (351)	GFSLATG-4-4BW/43
1/2	1/4	0.035	0.5	4.6	46.2	19.1	7.4	3500 (241)	GFSLATG-8-4BW/46
1/2	3/8	0.035	0.8	7.9	46.2	19.1	10.4	3300 (227)	GFSLATG-8-6BW
1/2	1/2	0.049	1.0	10.2	46.5	19.1	14.0	3500 (241)	GFSLATG-8-8BW
3/4	3/4	0.049	1.0	16.5	52.6	19.1	20.3	2400 (165)	GFSLATG-12-12BW
1	1	0.065	1.0	22.1	65.3	24.4	26.9	2400 (165)	GFSLATG-16-16BW
Metric									
1/4	6mm	1.0mm	0.5	4.0	43.7	19.1	6.8	6800 (468)	GFSLATG-4-6MBW
1/2	12mm	1.0mm	1.0	10.0	46.5	19.1	13.2	3100 (213)	GFSLATG-8-12MBW
3/4	18mm	1.0mm	1.0	15.0	52.6	19.1	19.3	3000 (206)	GFSLATG-12-18MBW

Dimensions are for reference only and are subject to change.

Socket Weld



Standard Configuration Dimensions

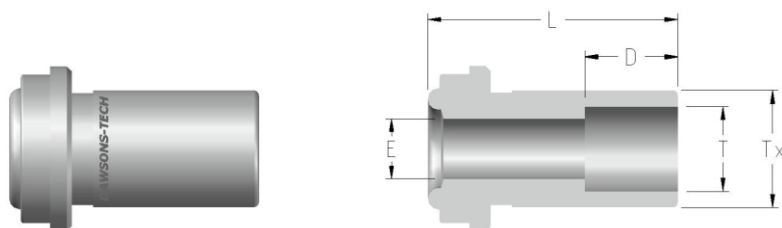
Face Seal Size	Tube Socket	Dimensions in mm				Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	D	E	L	Tx		
1/4	1/4	7.1	4.6	33.3	8.9	5500 (378)	GFSG-4-4SW
1/2	3/8	7.9	7.1	38.1	15.2	4300 (296)	GFSG-8-6SW
1/2	1/2	9.6	10.2	38.1	15.2	3000 (206)	GFSG-8-8SW
5/8	5/8	10.4	12.7	39.6	18.3	2800 (192)	GFSG-10-10SW
3/4	3/4	11.2	15.7	50.8	22.4	2800 (192)	GFSG-12-12SW
1	1	15.7	22.1	56.4	30.2	3000 (206)	GFSG-16-16SW

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GLANDS

Short Socket Weld

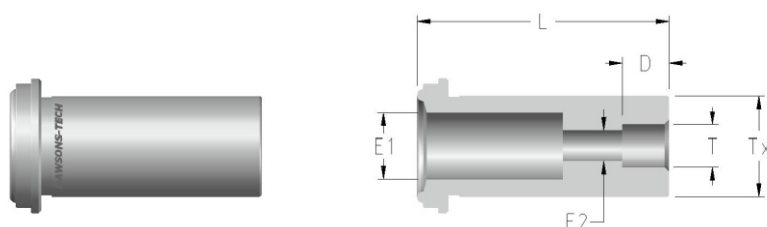


Standard Configuration Dimensions

Face Seal Size	Tube Socket	Dimensions in mm				Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	D	E	L	Tx		
1/4	1/4	7.1	4.6	12.7	8.9	5500 (378)	GFSSG-4-4SW/12
1/4	1/4	7.1	4.6	19.1	8.9	5500 (378)	GFSSG-4-4SW/19

Dimensions are for reference only and are subject to change.

Reducing Socket Weld

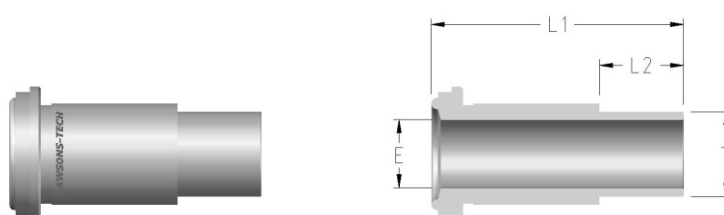


Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm					Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	D	E1	E2	L	Tx		
1/4	1/4	2.5	4.6	2.3	33.3	8.9	8000 (378)	GFSRG-4-4SW
1/2	1/4	7.1	10.2	4.6	38.1	15.2	3500 (241)	GFSRG-8-4SW

Dimensions are for reference only and are subject to change.

Male Weld



Standard Configuration Dimensions

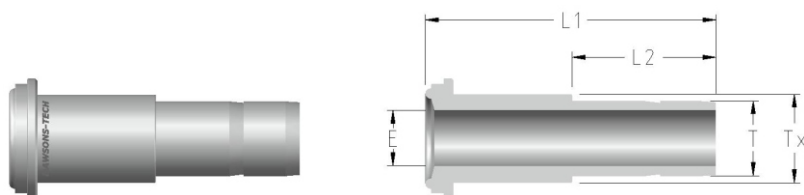
Face Seal Size	Tube Socket	Dimensions in mm			Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E	L1	L2		
1/4	1/4	3.0	33.3	10.1	10,000 (689)	GFSC-4-4MW
1/2	1/4	3.0	38.1	10.4	4300 (296)	GFSC-8-4MW
1/2	3/8	7.1	38.1	10.4	4300 (296)	GFSC-8-6MW
1/2	1/2	10.2	38.1	12.7	3500 (241)	GFSC-8-8MW
3/4	3/4	13.5	50.8	15.7	3700 (254)	GFSC-12-12MW
1	1	19.1	56.4	20.6	3000 (206)	GFSC-16-16MW

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GLANDS

Tube Adapter

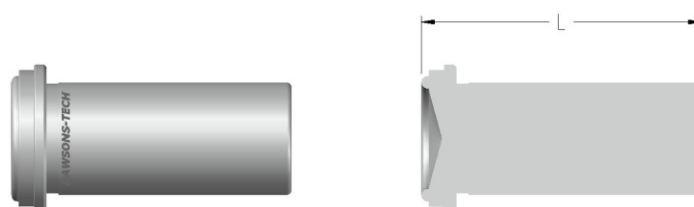


Standard Configuration Dimensions

Face Seal Size	Tube Socket	Dimensions in mm				Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E	L1	L2	Tx		
1/4	1/4	4.3	41.0	16.2	8.9	10,000 (689)	GFST AG-4-4
1/2	3/8	6.8	46.0	17.8	15.2	4300 (296)	GFST AG-8-6
1/2	1/2	9.4	49.0	24.4	15.2	3500 (241)	GFST AG-8-8

Dimensions are for reference only and are subject to change.

Blind (Undrilled) Gland



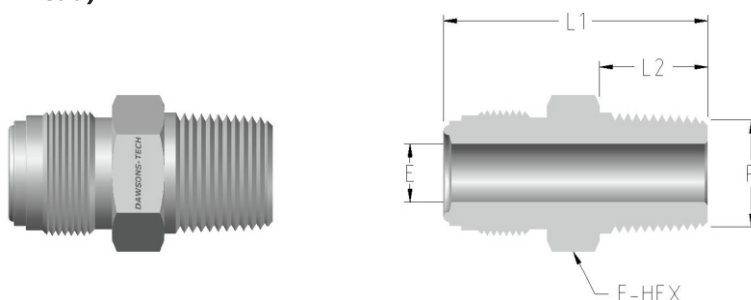
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm	Dawsons-Tech Part No.
	L	
1/4	33.3	GFSBG-4
1/2	38.1	GFSBG-8
3/4	50.8	GFSBG-12
1	56.4	GFSBG-16

Dimensions are for reference only and are subject to change.

BODIES

Male Connector (NPT Thread)



Standard Configuration Dimensions

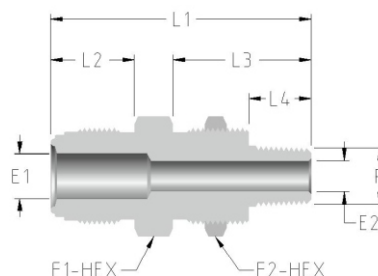
Face Seal Size	NPT Male Thread	Dimensions in mm			F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	P	E	L1	L2			
1/4	1/4	4.6	37.8	14.2	5/8	10,000 (689)	GFSMC-4-4N
1/2	1/4	7.1	41.9	14.2	15/16	4300 (296)	GFSMC-8-4N
1/2	3/8	9.6	41.9	14.2	15/16	4300 (296)	GFSMC-8-6N
1/2	1/2	10.2	46.7	19.1	15/16	4300 (296)	GFSMC-8-8N
3/4	3/4	15.7	55.6	19.1	15/16	3700 (254)	GFSMC-12-12N
1	1	22.1	62.7	23.9	1-5/8	3000 (206)	GFSMC-16-16N

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

BODIES

Bulkhead Male Connector (NPT Thread)

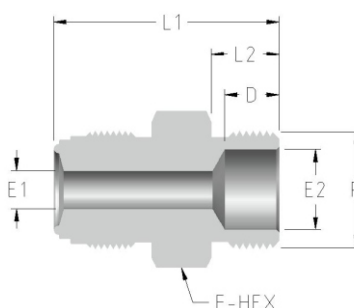
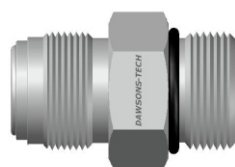


Standard Configuration Dimensions

Face Seal Size	NPT Male Thread	Dimensions in mm								F1-Hex (Inch)	F2-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		E1	E2	L1	L2	L3	L4	Max Panel Hole Size	Max Panel Thickness				
1/4	1/4	4.6	7.1	56.1	15.7	31.5	14.2	16.8	9.7	13/16	13/16	8000 (551)	GFSBHMC-4-4N
1/2	1/4	10.2	7.1	59.4	19.1	31.5	14.2	16.8	9.7	15/16	13/16	4300 (296)	GFSBHMC-8-4N

Dimensions are for reference only and are subject to change

Straight Thread O-Ring Seal Male Connector

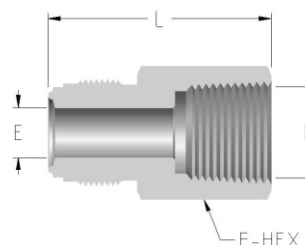


Standard Configuration Dimensions

Face Seal Size	SAE/MS Straight Thread	Dimensions in mm						F-Hex (Inch)	Uniform 'O' Ring Size	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		P	D	E1	E2	L1	L2				
1/4	9/16-18		6.4	4.6	7.1	33.8	9.9	3/4	906 Fluorocarbon	4500 (310)	GFSMC-4-9SE
1/2	7/8-14		10.2	7.1	15.0	42.2	12.7	1	910 Fluorocarbon	3500 (241)	GFSMC-8-14SE
1/2	9/16-18		-	7.1	7.1	37.6	9.9	15/16	906 Fluorocarbon	3500 (241)	GFSMC-8-9SE

Dimensions are for reference only and are subject to change

Female Connector (NPT Thread)



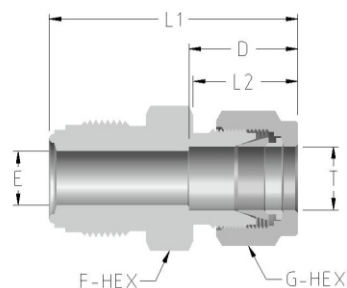
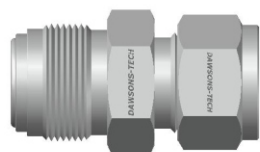
Standard Configuration Dimensions

Face Seal Size	NPT Female Thread	Dimensions in mm		F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		E	L			
1/4	1/4	4.6	39.1	5/8	6600 (454)	GFSFC-4-4N
1/2	3/8	10.2	44.7	15/16	4300 (296)	GFSFC-8-6N
1/2	1/2	10.2	50.5	15/16	4300 (296)	GFSFC-8-8N
3/4	3/4	15.7	59.9	15/16	3700 (254)	GFSFC-12-12N
1	1	22.1	63.8	1-5/8	3000 (206)	GFSFC-16-16N

Dimensions are for reference only and are subject to change

HIGH PURITY METAL GASKET FACE SEAL FITTINGS BODIES

Compression Tube Fitting Connector

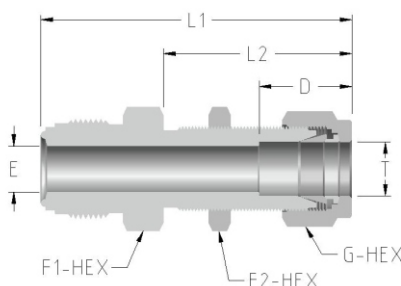
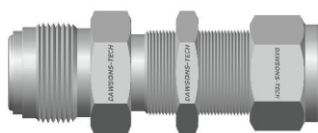


Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm				F-Hex (Inch)	G-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		T	D	E	L1				
1/4	1/4	15.2	4.6	41.1	17.8	5/8	9/16	10,000 (689)	GFSTFC-4-4
1/2	3/8	16.8	7.1	46.7	19.3	15/16	11/16	4300 (296)	GFSTFC-8-6
1/2	1/2	22.9	10.2	49.5	21.8	15/16	7/8	4300 (296)	GFSTFC-8-8

Dimensions are for reference only and are subject to change.

Compression Tube Fitting Bulkhead Connector

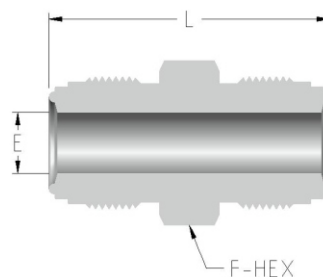
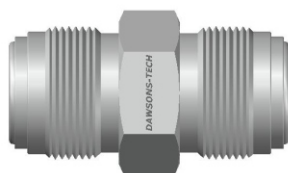


Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm						F1-Hex (Inch)	F2-Hex (Inch)	G-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		T	D	E	L1	L2	Panel Hole Size	Max Panel Thickness				
1/4	1/4	15.2	4.6	57.2	33.5	11.9	10.2	5/8	5/8	9/16	10,000 (689)	GFSTFBC-4-4/57
1/4	1/4	15.2	4.6	47.8	26.7	11.9	3.3	5/8	5/8	9/16	10,000 (689)	GFSTFBC-4-4/47
1/2	3/8	16.8	7.1	64.5	36.8	15.0	11.2	15/16	3/4	11/16	4300 (296)	GFSTFBC-8-6
1/2	1/2	22.9	10.2	69.6	41.9	19.8	12.7	15/16	15/16	7/8	4300 (296)	GFSTFBC-8-8

Dimensions are for reference only and are subject to change.

Male Union



Standard Configuration Dimensions

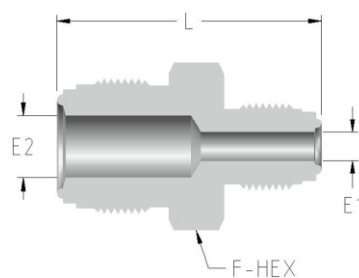
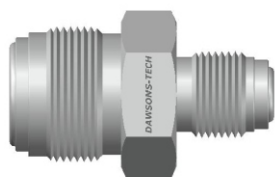
Face Seal Size	Dimensions in mm		F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L			
1/4	4.6	39.4	5/8	10,000 (689)	GFSMU-4
1/2	10.2	46.7	15/16	4300 (296)	GFSMU-8
3/4	15.7	62.0	15/16	3700 (254)	GFSMU-12
1	22.1	65.8	1-5/8	3000 (206)	GFSMU-16

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

BODIES

Male Reducing Union

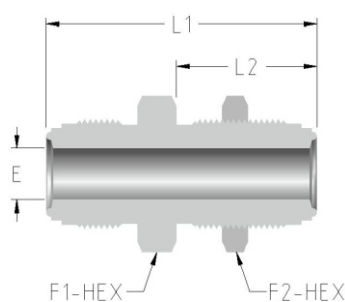
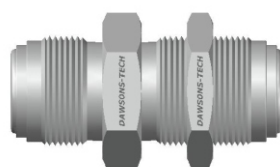


Standard Configuration Dimensions

Face Seal Size	Face Seal Size	Dimensions in mm			F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
		E1	E2	L			
1/2	1/4	10.2	4.6	43.4	15/16	4300 (296)	GFSMRU-8-4

Dimensions are for reference only and are subject to change

Male Bulkhead Union

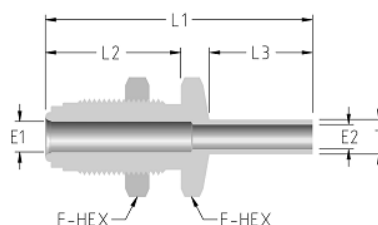
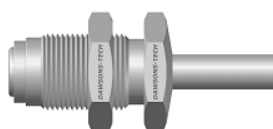


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm					F1-Hex (Inch)	F2-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L1	L2	Panel Hole Size	Max Panel Thickness				
1/4	4.6	56.6	33.0	15.0	11.2	3/4	3/4	10,000 (689)	GFSMBU-4/56
1/4	4.6	46.2	25.1	15.0	3.3	3/4	3/4	10,000 (689)	GFSMBU-4/46
1/2	10.2	65.3	37.6	23.1	12.7	1-1/16	1-1/16	4300 (296)	GFSMBU-8/65
1/2	10.2	54.4	28.2	23.1	3.3	1-1/16	1-1/16	4300 (296)	GFSMBU-8/54

Dimensions are for reference only and are subject to change.

Tube Butt Weld Bulkhead Connector



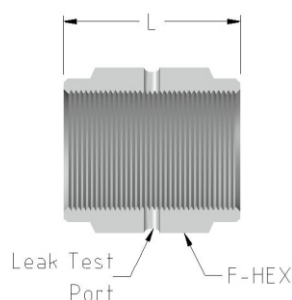
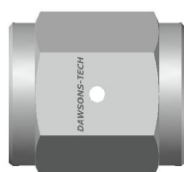
Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm/inch							F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E1	E2	L1	L2	L3	Panel Hole Size	Max Panel Thickness			
1/4	1/4	5.6	4.6	59.9	33.0	19.1	15.0	11.2	3/4	5100 (351)	GFSTBC-4-4BW59
1/4	1/4	5.6	4.6	49.5	25.1	19.1	15.0	3.3	3/4	5100 (351)	GFSTBC-4-4BW49

Dimensions are for reference only and are subject to change.

BODIES

Coupling

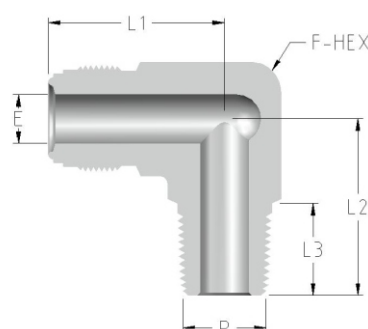


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm	F-Hex (Inch)	Dawsons-Tech Part No.
	L		
1/4	30.2	3/4	GFSBG-4
1/2	33.3	1-1/16	GFSBG-8
3/4	42.7	1-1/2	GFSBG-12
1	51.8	1-3/4	GFSBG-16

Dimensions are for reference only and are subject to change.

Male Elbow (NPT Thread)

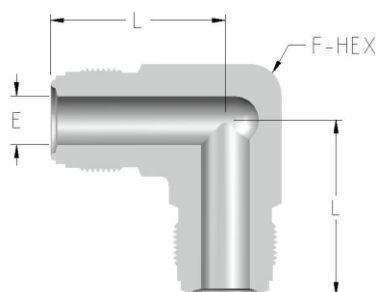


Standard Configuration Dimensions

Face Seal Size	NPT Male Thread	Dimensions in mm/inch				F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	P	E	L1	L2	L3			
1/4	1/4	4.6	27.2	26.7	14.2	1/2	8000 (551)	GFSME-4-4N
1/2	3/8	10.2	36.8	32.0	14.2	13/16	4300 (296)	GFSME-8-6N
1/2	1/2	10.2	36.8	36.8	19.1	13/16	4300 (296)	GFSME-8-8N

Dimensions are for reference only and are subject to change.

Union Elbow



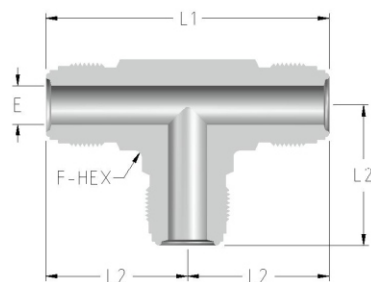
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L			
1/4	4.6	27.2	1/2	10,000 (689)	GFSUE-4
1/2	10.2	36.8	13/16	4300 (296)	GFSUE-8
3/4	15.7	48.8	1-1/4	3700 (254)	GFSUE-12
1	22.1	50.8	1-11/16	3000 (206)	GFSUE-16

Dimensions are for reference only and are subject to change.

BODIES

Union Tee

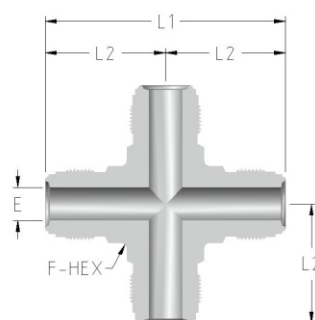


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm			F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L1	L2			
1/4	4.6	54.4	27.2	1/2	10,000 (689)	GFSUT-4
1/2	10.2	73.7	36.8	13/16	4300 (296)	GFSUT-8
3/4	15.7	97.5	48.8	1-1/4	3700 (254)	GFSUT-12
1	22.1	102.0	50.8	1-11/16	3000 (206)	GFSUT-16

Dimensions are for reference only and are subject to change.

Union Cross



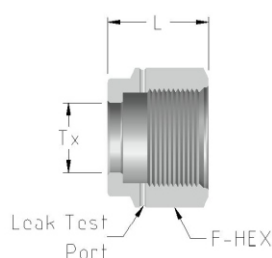
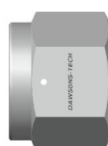
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm			F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L1	L2			
1/4	4.6	54.4	27.2	1/2	10,000 (689)	GFSUC-4
1/2	10.2	73.7	36.8	13/16	4300 (296)	GFSUC-8
3/4	15.7	97.5	48.8	1-1/4	3700 (254)	GFSUC-12
1	22.1	102.0	50.8	1-11/16	3000 (206)	GFSUC-16

Dimensions are for reference only and are subject to change.

NUTS, CAPS & PLUGS

Female Nut



Standard Configuration Dimensions

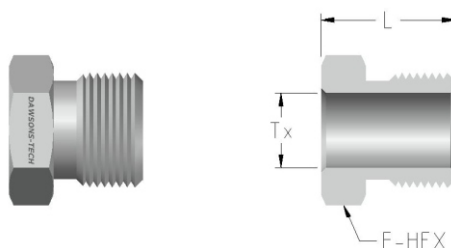
Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	L	TX		
1/4	20.6	9.1	3/4	GFSFN-4
1/2	22.4	15.5	1-1/16	GFSFN-8
5/8	22.4	18.8	1-3/16	GFSFN-10
3/4	28.4	22.6	1-1/2	GFSFN-12
1	34.0	30.5	1-3/4	GFSFN-16

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

NUTS, CAPS & PLUGS

Male Nut

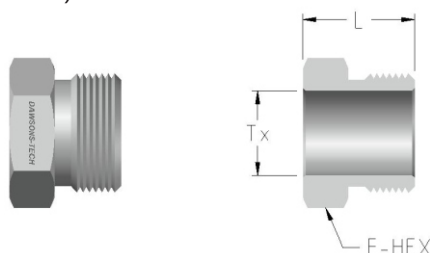


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	L	TX		
1/4	18.0	9.1	5/8	GFSMN-4
1/2	20.6	15.5	15/16	GFSMN-8
5/8	20.6	18.8	1-1/16	GFSMN-10
3/4	25.4	22.6	1-5/16	GFSMN-12
1	30.2	30.5	1-5/8	GFSMN-16

Dimensions are for reference only and are subject to change.

Short Male Nut (For use with short Gland)

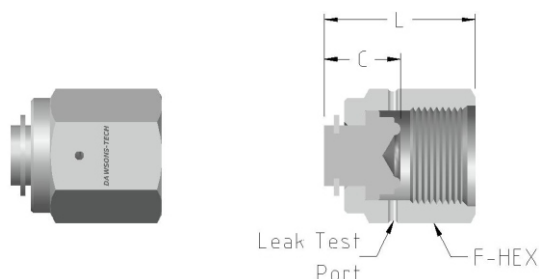


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	L	TX		
1/4	13.7	9.1	5/8	GFSSMN-4/13
1/4	16.5	9.1	5/8	GFSSMN-4/16

Dimensions are for reference only and are subject to change.

Cap



Standard Configuration Dimensions

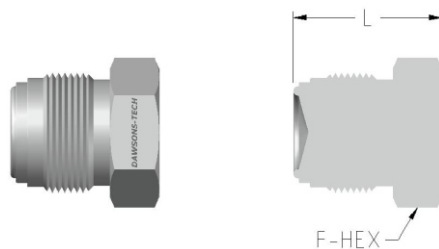
Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	C	L		
1/4	11.2	23.9	3/4	GFSCP-4
1/2	11.4	25.6	1-1/16	GFSCP-8
3/4	13.7	32.8	1-1/2	GFSCP-12
1	16.0	39.1	1-3/4	GFSCP-16

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

NUTS, CAPS & PLUGS

Plug



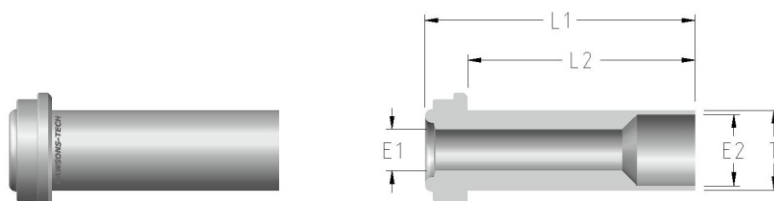
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm	F-Hex (Inch)	Dawsons-Tech Part No.
	L		
1/4	23.4	5/8	GFSP-4
1/2	27.4	15/16	GFSP-8
3/4	36.3	1-5/16	GFSP-12
1	38.6	1-5/8	GFSP-16

Dimensions are for reference only and are subject to change.

MAX FLOW - GLAND

Tube Butt Weld



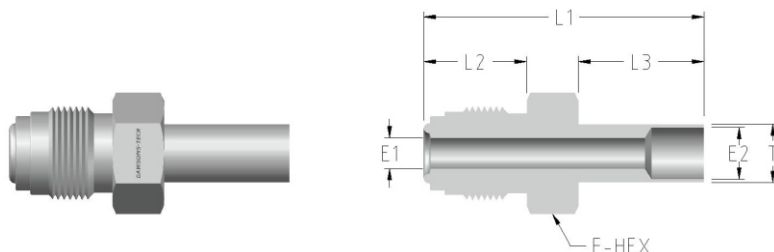
Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm/inch				Wall Thickness	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E1	E2	L1	L2			
1/4	3/8	6.4	7.9	15.2	10.4	0.035	3300 (227)	GFSMFTG-4-6BW/15
1/4	3/8	6.4	7.9	30.2	25.4	0.035	3300 (227)	GFSMFTG-4-6BW/30
1/4	3/8	6.4	7.9	33.3	28.4	0.035	3300 (227)	GFSMFTG-4-6BW/33

Dimensions are for reference only and are subject to change.

MAX FLOW - BODIES

Tube Butt Weld



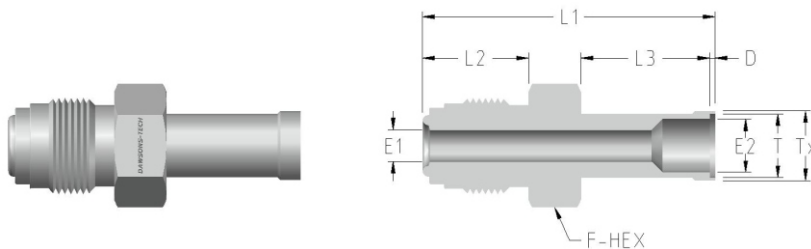
Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm					F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E1	E2	L1	L2	L3			
1/4	3/8	6.4	7.9	42.7	15.7	19.1	5/8	3300 (227)	GFSMFB-4-6BW

Dimensions are for reference only and are subject to change.

MAX FLOW - BODIES

Automatic Tube Weld

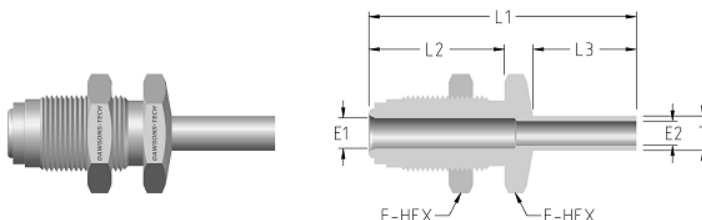


Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm							F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	D	E1	E2	L1	L2	L3	Tx			
1/4	3/8	0.8	6.4	7.9	43.4	15.7	19.1	10.4	5/8	3300 (227)	GFSMFA-4-6TW

Dimensions are for reference only and are subject to change.

Bulkhead Connector

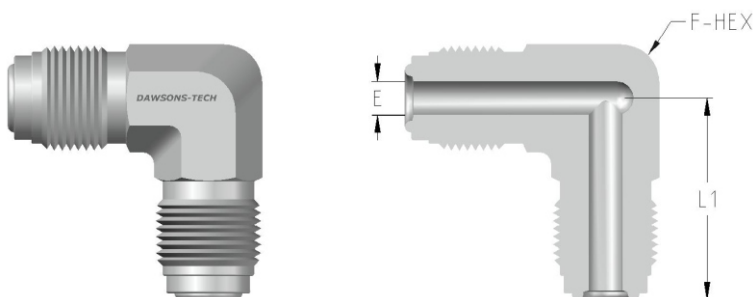


Standard Configuration Dimensions

Face Seal Size	Tube OD	Dimensions in mm							F-Hex	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	E1	E2	L1	L2	L3	Panel Hole Size	Max Panel Thickness			
1/4	3/8	7.9	6.4	59.9	33.0	19.1	15.0	11.2	3/4	3300 (227)	GFSMFBC-4-6

Dimensions are for reference only and are subject to change.

Union Elbow



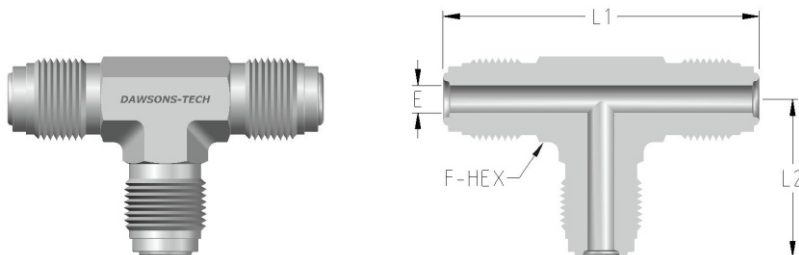
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L			
1/4	6.4	27.2	1/2	10,000 (689)	GFSMFUE-4

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS MAX FLOW - BODIES

Union Tee



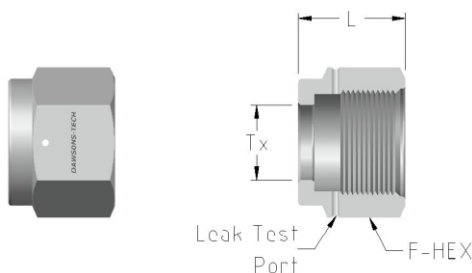
Standard Configuration Dimensions

Face Seal Size	Dimensions in mm			F-Hex (Inch)	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	E	L1	L2			
1/4	6.4	54.4	27.2	1/2	10,000 (689)	GFSMFUT-4

Dimensions are for reference only and are subject to change.

MAX FLOW - NUTS

Female Nut

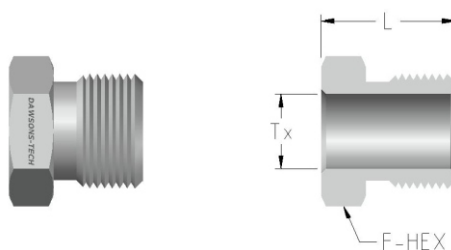


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	L	Tx		
1/4	20.6	9.9	3/4	GFSMFFN-4/9
1/4	20.6	11.7	3/4	GFSMFFN-4/11

Dimensions are for reference only and are subject to change.

Male Nut



Standard Configuration Dimensions

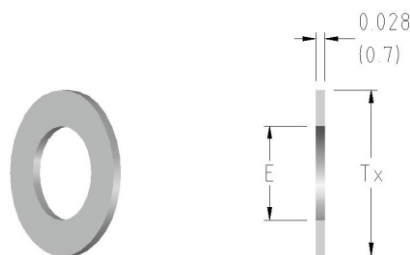
Face Seal Size	Dimensions in mm		F-Hex (Inch)	Dawsons-Tech Part No.
	L	Tx		
1/4	18.0	9.9	5/8	GFSMFMN-4

Dimensions are for reference only and are subject to change.

HIGH PURITY METAL GASKET FACE SEAL FITTINGS

GASKETS

Non-retained (Silver Plated) (Cannot be used in a Gasket Retainer Assembly)

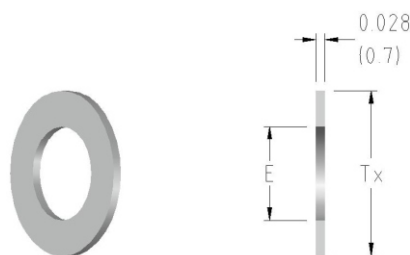


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		Dawsons-Tech Part No.
	E	Tx	
1/4	5.6	11.9	GFSGNR-4SP
1/2	11.2	19.8	GFSGNR-8SP
5/8	14.7	23.1	GFSGNR-10SP
3/4	16.8	29.0	GFSGNR-12SP
1	22.6	35.6	GFSGNR-16SP

Dimensions are for reference only and are subject to change.

Non-retained (Un-Plated)

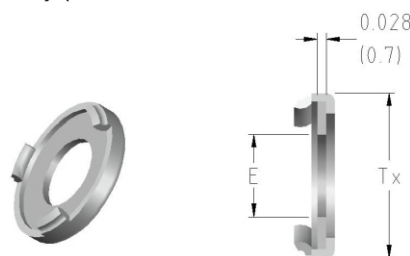


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		Dawsons-Tech Part No.
	E	Tx	
1/4	5.6	11.9	GFSGNR-4UP
1/2	11.2	19.8	GFSGNR-8UP
5/8	14.7	23.1	GFSGNR-10UP
3/4	16.8	29.0	GFSGNR-12UP
1	22.6	35.6	GFSGNR-16UP

Dimensions are for reference only and are subject to change.

Gasket Retainer Assembly (Silver Plated) (Retainer & Gasket must be used as an assembly)

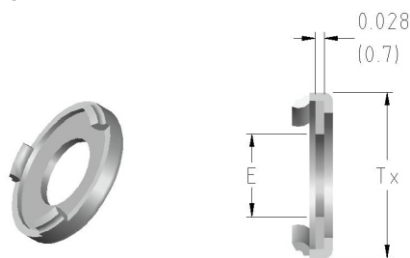


Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		Dawsons-Tech Part No.
	E	Tx	
1/4	6.1	12.7	GFSGRA-4SP
1/2	11.2	20.1	GFSGRA-8SP
3/4	16.8	29.0	GFSGRA-12SP
1	22.6	35.6	GFSGRA-16SP

Dimensions are for reference only and are subject to change.

Gasket Retainer Assembly (Un-Plated)



Standard Configuration Dimensions

Face Seal Size	Dimensions in mm		Dawsons-Tech Part No.
	E	Tx	
1/4	6.1	12.7	GFSGRA-4UP
1/2	11.2	20.1	GFSGRA-8UP
3/4	16.8	29.0	GFSGRA-12UP
1	22.6	35.6	GFSGRA-16UP

Dimensions are for reference only and are subject to change.

ORDERING INFORMATION : (GLANDS - FRACTIONAL)

For Example : PART NO. : GFSLTG-12-12BW-SS

Type of Fittings	Face Seal Size	Tube OD Size	Tube OD Type	Material of Construction
GFSLTG	12	12	BW	SS
Long Tube Gland	3/4"	3/4"	Butt Weld	SS316

ORDERING INFORMATION : (GLANDS - METRIC)

For Example : PART NO. : GFSLTG-8-12MBW-SS

Type of Fittings	Face Seal Size	Tube OD Size	Tube OD Type	Material of Construction
GFSLTG	8	12M	BW	SS
Long Tube Gland	1/2"	12mm	Butt Weld	SS316

ORDERING INFORMATION : (BODIES - FRACTIONAL)

For Example : PART NO. : GFSSMC-8-8N-SS

Type of Fittings	Face Seal Size	End Connection Thread Size	End Connection Thread Type	Material of Construction
GFSSMC	8	8	N	SS
Male Connector	1/2"	1/2"	NPT	SS316

PART NO. CODE DESCRIPTION :

Face Seal Size			
Fractional Tube		Metric Tube	
4	1/4"	6M	6mm
6	3/8"	8M	8mm
8	1/2"	10M	10mm
12	3/4"	12M	12mm
16	1"	18M	18mm

End Connection Size Tube OD			
Fractional Tube		Metric Tube	
4	1/4"	6M	6mm
6	3/8"	8M	8mm
8	1/2"	10M	10mm
12	3/4"	12M	12mm
16	1"	18M	18mm

Pipe End Connection Thread Size	Fractional	
	4	1/4"
	6	3/8"
	8	1/2"
	9	9/16"
	12	3/4"
	14	7/8"
	16	1"

End Connection Thread Type	N : NPT
	SE : Straight Thread
	BW : Butt Weld
	SW : Socket Weld
	MW : Male Weld

Material of Construction	SS : SS316
	SSL : SS316L

End Connection Thread Type	V : Fluorocarbon
	R : Nitrile
	E : EPDM
	Z : Neoprene



Twin Ferrule Tube Fittings



Precision Thread / Weld Pipe Fittings



37° Flare / BSPP 60° Cone Fittings



**High Purity Metal Gasket
Face Seal Fittings**



**High Purity 'O' Ring
Face Seal Fittings**



High Purity Weld Fittings



Instrumentation / UHP Ball Valves



Instrumentation / UHP Check Valves



**Instrumentation
Needle / Gauge Valves**



**High Pressure Wellhead
Grease / Bleed Fittings**



Gauge Cock & Accessories



Quick Connect Couplings

NOTES : _____

NOTES : _____

[illegible]

NOTES : _____



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