

DAWSONS-TECH[®]

OVER 35 YEARS OF EXPERIENCE

'O' RING 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.

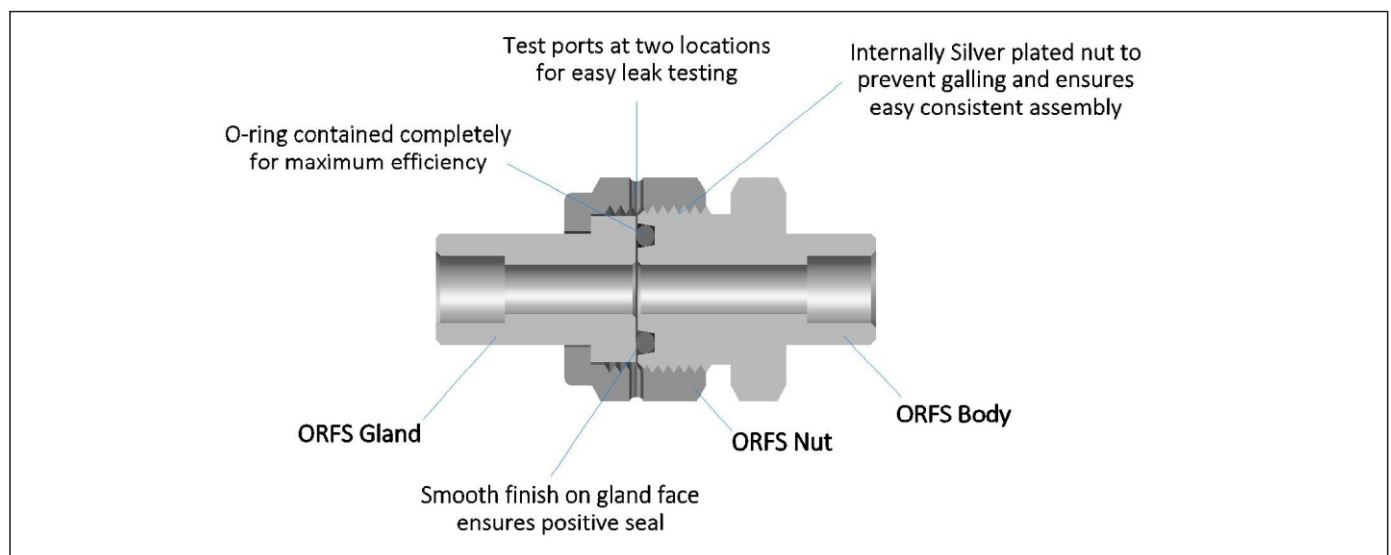
General Information :

DAWSONS-TECH 'O' Ring Face Seal Fittings (ORFS) are very versatile fluid connectors for liquids and gases from Vacuum to 6000 PSIG and works exceptionally in such applications.

ORFS are "Zero tolerance / clearance" Fittings and hence, can be inserted and removed from its position in the systems without requirement of cutting or flexing the pipe or tube making them ideal for systems requiring frequent maintenance / replacement for Valves and other components.

Features / Benefits :

- Zero tolerance / clearance system - No requirement of cutting or flexing the tubing to insert or remove Fittings, Valves or other components for installations and repeat maintenance.
- Unlimited remakes - ORFS Fittings can be disassembled and reassembled many times by simply replacing the 'O' Ring and tightened its recommended torque.
- Assembly Adaptability – Soft seal Fittings (ORFS) adjust to irregularities in the Fitting face or Sleeve. So during assembly with proper techniques and handling, the Tube Fitting is forgiving of assembly variations.
- Available in Material SS316L.



Product Range & Operating Parameters :

- Pressure Rating : Vacuum to 6000 PSIG (413 Bar) at CWP
- Temperature Rating : UPTO 400°F (204°C)
- End Connections - Fractional : 1/4" to 1" ORFS, Tube OD
- Metric : 6mm to 25mm ORFS, Tube OD
- Pipe Threads : 1/4" to 1" Male / Female SAE / BSPT / NPT

Applications :

- Gas Delivery System
- Instrumentation in Semiconductor Industries
- Vacuum

How 'O' Ring Face Seal Fittings Work :

'O' Ring Face Seal Fitting assembly consists of four parts i.e. threaded Fitting body with 'O' Ring grooves, 'O' Ring, Nut and Sleeve or tailpiece. The standard 'O' Ring material is Viton, but other materials 'O' Rings are also offered which are tested and compatible for special applications.

The Fitting assembly seals when the bottom of the Sleeve or tailpiece, which are been fixed to the Tubing, compresses the 'O' Ring in the face of the threaded Fitting body when the Fitting Nut is threaded onto the external threads of the Fittings body. The threading action brings the Sleeve to full contact with the face of the Fitting. The Sleeve or the tailpiece is secured to the Tubing either by welding, Brazing or Mechanically by Flanging the Tubing.

Installation Torque :

Size	Tube OD (Inch)	Torque (in./lb.)
-4	1/4	20 - 40
-6	3/8	25 - 50
-8	1/2	40 - 75
-10	5/8	60 - 120
-12	3/4	110 - 220
-16	1	180 - 350

Typical Applications For 'O' Ring Seal Tube Fittings :

'O' Ring Seal Tube Fittings are highly recommended on high vibration systems and since the 'O' Ring Seal absorbs shock better than any metallic (Metal to Metal) sealing system.

While the SAE Soft-Seal were used in off-road construction machinery, it is now widely encouraged in other transportation related applications such as Alternate Fuel Systems (LPG / CNG) for vehicles. It is also endorsed by ISO Technical committee 131 for all new Hydraulic system design.

Testing :

ORFS Fittings assemblies have been Helium Leak tested at Vacuum level of 10⁻⁹ torr.

NUTS & PLUG :



Female Nut

6



Blind Nut

6



Blind Plug

6

GLANDS :



Tube Adapter

7



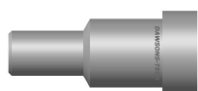
Tube Socket Weld Gland

7



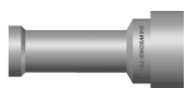
Reducing Gland Tube Socket Weld

7



Male Gland Tube Weld

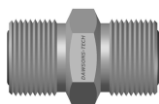
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Automatic Gland Tube Weld

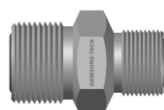
8

BODIES :



Union

8



Reducing Union

9



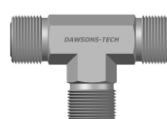
Bulkhead Union

9



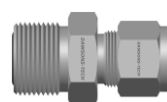
Union Elbow

9



Union Tee

10



Compression Tube Fitting Connector

10



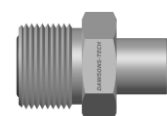
Compression Tube Fitting Bulkhead Connector

10



Compression Tube Fitting Elbow

11



Tube Socket Weld Connector

11



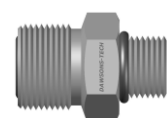
Automatic Tube Weld Connector

11



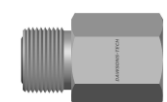
Male Connector (NPT Thread)

12



Male Connector (SAE-MS Straight Thread)

12



Female Connector (NPT Thread)

12



Male Elbow (NPT Thread)

13

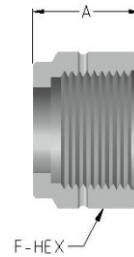


Positionable Male Elbow (SAE-MS Straight Thread)

13

NUTS

Female Nut - ORFFN

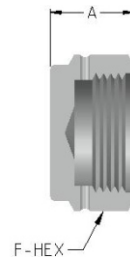


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm	F-Hex (Inch)	Dawsons-Tech Part No.
	A		
1/8	16.8	11/16	ORFFN-2
1/4	16.8	11/16	ORFFN-4
3/8	17.5	1	ORFFN-6
1/2	17.5	1	ORFFN-8
3/4	20.6	1-1/2	ORFFN-12
1	20.6	1-3/4	ORFFN-16

Dimensions are for reference only and are subject to change.

Blind Nut - ORFBN



STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm	F-Hex (Inch)	Dawsons-Tech Part No.
	A		
1/8	11.2	11/16	ORFBN-2
1/4	11.2	11/16	ORFBN-4
3/8	14.2	1	ORFBN-6
1/2	14.2	1	ORFBN-8
3/4	19.1	1-1/2	ORFBN-12
1	20.6	1-3/4	ORFBN-16

Dimensions are for reference only and are subject to change.

Blind Plug - ORFBP



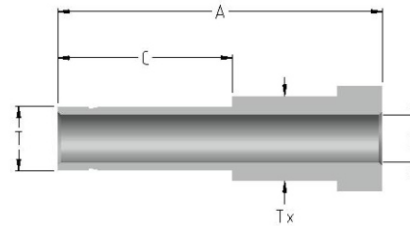
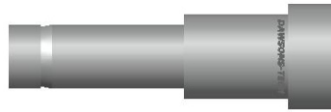
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm	F-Hex (Inch)	Dawsons-Tech Part No.
	A		
1/4	19.6	5/8	ORFBP-4
1/2	22.6	15/16	ORFBP-8
3/4	25.1	1-5/16	ORFBP-12
1	25.9	1-5/8	ORFBP-16

Dimensions are for reference only and are subject to change.

GLANDS

Tube Adapter - ORFTA

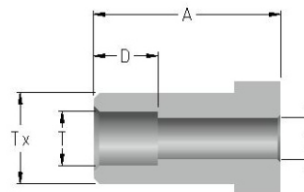


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	C	E	Tx		
1/4	1/4	33.3	16.3	4.6	9.6	10,200 (702)	ORFTA-4-4
1/2	3/8	35.1	17.8	6.8	15.2	6500 (447)	ORFTA-8-6
1/2	1/2	41.1	24.4	9.3	15.2	6700 (461)	ORFTA-8-8
3/4	3/4	45.7	25.9	14.7	23.4	5800 (399)	ORFTA-12-12
1	1	52.1	33.0	20.3	30.2	4700 (323)	ORFTA-16-16

Dimensions are for reference only and are subject to change.

Tube Socket Weld Gland - ORFG

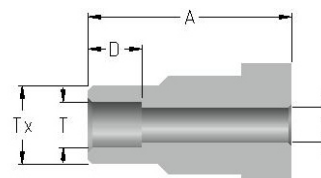


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	D	E	Tx		
1/4	1/4	19.6	7.1	4.6	9.7	6800 (468)	ORFG-4-4TSW
3/8	3/8	20.6	7.9	7.1	15.2	8100 (558)	ORFG-6-6TSW
1/2	1/2	20.6	9.7	10.2	15.2	3000 (206)	ORFG-8-8TSW
3/4	3/4	23.9	11.2	15.7	23.4	3700 (255)	ORFG-12-12TSW
1	1	24.9	15.7	22.1	30.2	3000 (206)	ORFG-16-16TSW

Dimensions are for reference only and are subject to change.

Reducing Gland Tube Socket Weld - ORFRG



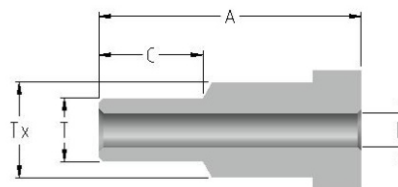
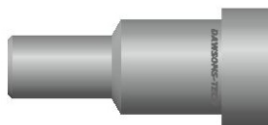
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	D	E	Tx		
1/2	1/4	20.6	7.1	4.6	12.2	10,700 (737)	ORFRG-8-4TSW

Dimensions are for reference only and are subject to change.

GLANDS

Male Gland Tube Weld - ORFMG

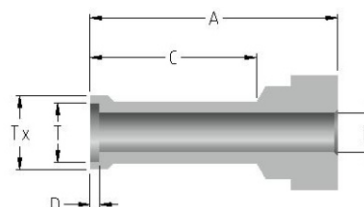
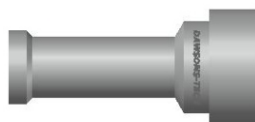


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	C	E	Tx		
1/4	1/4	28.4	10.4	3.0	9.7	11,200 (771)	ORFMG-4-4TW
1/2	1/4	23.1	10.4	3.0	15.2	11,200 (771)	ORFMG-8-4TW
1/2	3/8	21.3	10.4	5.8	15.2	8200 (564)	ORFMG-8-6TW
1/2	1/2	26.9	12.7	8.4	15.2	7500 (516)	ORFMG-8-8TW

Dimensions are for reference only and are subject to change.

Automatic Gland Tube Weld - ORFAG



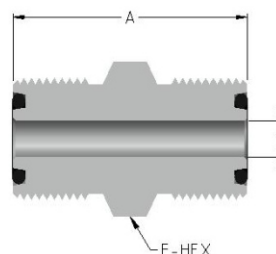
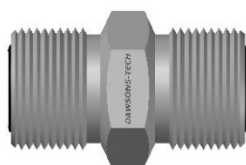
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Wall Thickness	Dimensions in mm					Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T		A	C	D	E	Tx		
1/4	1/4	0.035	28.4	19.8	0.51	4.6	7.4	5100 (351)	ORFAG-4-4TW
1/2	3/8	0.035	28.7	20.0	0.76	7.9	10.4	3300 (227)	ORFAG-8-6TW
1/2	1/2	0.049	29.0	20.3	1.0	10.2	14.0	3500 (241)	ORFAG-8-8TW
3/4	3/4	0.049	30.5	20.3	1.0	16.5	20.3	2200 (151)	ORFAG-12-12TW
1	1	0.065	35.8	25.4	1.0	22.1	26.9	2200 (151)	ORFAG-16-16TW

Dimensions are for reference only and are subject to change.

BODIES

Union - ORFU



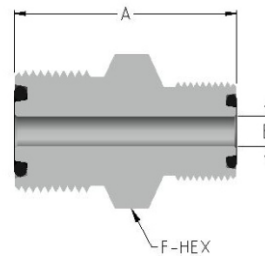
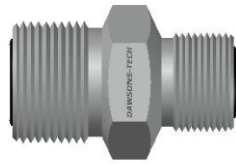
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm		F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	A	E			
1/4	31.8	4.6	5/8	14,300 (985)	ORFU-4
1/2	48.1	10.2	15/16	11,100 (764)	ORFU-8

Dimensions are for reference only and are subject to change.

BODIES

Reducing Union - ORFRU

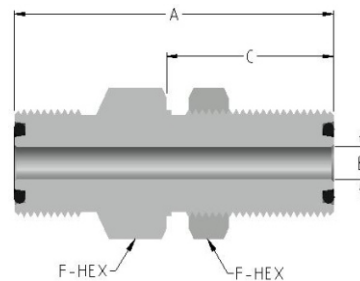
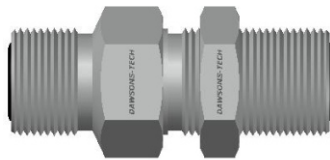


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	ORFS Size	Dimensions in mm		F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
		A	E			
1/2	1/4	36.3	4.6	15/16	11,100 (764)	ORFRU-8-4

Dimensions are for reference only and are subject to change.

Bulkhead Union - ORFBU

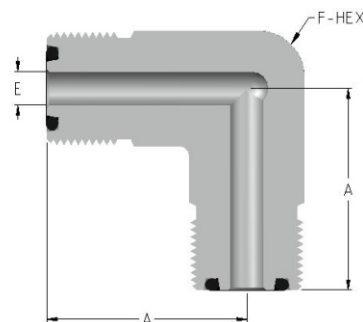


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm			F-Hex (Inch)	Panel Hole Drill Size	Max Panel Thickness	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	A	C	E					
1/4	47.8	26.9	4.6	3/4	37/64	9.1	14,300 (985)	ORFBU-4
1/2	53.1	30.2	10.2	1-1/16	57/64	10.2	11,100 (764)	ORFBU-8

Dimensions are for reference only and are subject to change.

Union Elbow - ORFUE



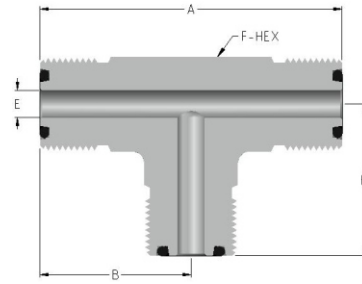
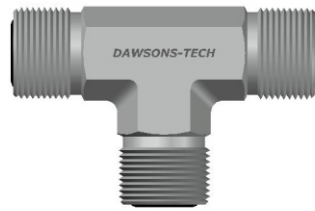
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm		F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	A	E			
1/4	24.4	4.6	1/2	14,300 (985)	ORFUE-4
1/2	32.0	10.2	13/16	11,100 (764)	ORFUE-8
3/4	37.6	15.7	1-1/4	10,900 (751)	ORFUE-12
1	39.6	22.1	1-11/16	8800 (606)	ORFUE-16

Dimensions are for reference only and are subject to change.

BODIES

Union Tee - ORFUT

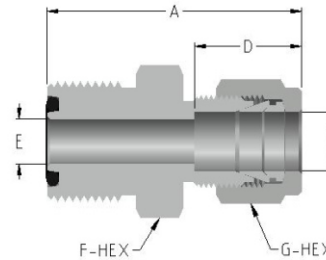
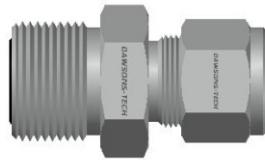


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Dimensions in mm			F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	A	B	E			
1/4	48.8	24.4	4.6	1/2	14,300 (985)	ORFUT-4
1/2	64.0	32.0	10.2	13/16	11,100 (764)	ORFUT-8
3/4	75.2	37.6	15.7	1-1/4	10,900 (751)	ORFUT-12
1	79.2	39.6	22.1	1-11/16	8800 (606)	ORFUT-16

Dimensions are for reference only and are subject to change.

Compression Tube Fitting Connector - ORFTFC

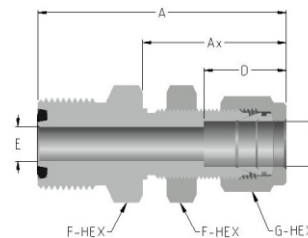
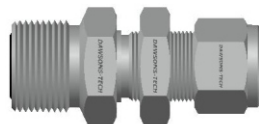


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm			F-Hex (Inch)	G-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	D	E				
1/4	1/4	37.3	15.2	4.6	5/8	9/16	10,200 (702)	ORFTFC-4-4
1/2	3/8	41.9	16.8	7.1	15/16	11/16	6500 (447)	ORFTFC-8-6
1/2	1/2	45.2	22.9	10.2	15/16	7/8	6700 (461)	ORFTFC-8-8
3/4	3/4	47.2	24.4	15.7	1-5/16	1-1/8	5800 (399)	ORFTFC-12-12
1	1	52.3	31.2	22.1	1-5/8	1-1/2	4700 (323)	ORFTFC-16-16

Dimensions are for reference only and are subject to change.

Compression Tube Fitting Bulkhead Connector - ORFTBC



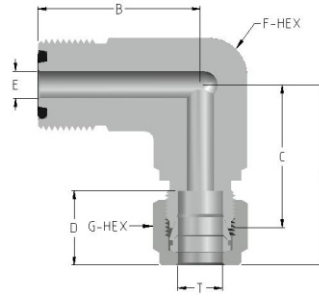
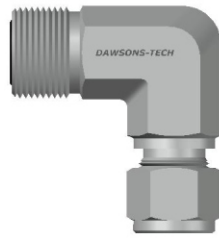
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				F-Hex (Inch)	G-Hex (Inch)	Panel Hole Drill Size	Max Panel Thickness	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	Ax	D	E						
1/4	1/4	53.3	33.5	15.2	4.6	5/8	9/16	29/64	10.2	10,200 (702)	ORFTBC-4-4
3/8	3/8	59.4	36.8	16.8	7.1	15/16	11/16	37/64	11.2	6500 (447)	ORFTBC-8-6
1/2	1/2	64.8	41.9	22.9	10.2	15/16	7/8	49/64	12.7	6700 (461)	ORFTBC-8-8
3/4	3/4	72.6	47.5	24.4	15.7	1-5/16	1-1/8	1-1/64	16.8	5800 (399)	ORFTBC-12-12
1	1	83.6	57.4	31.2	22.1	1-5/8	1-1/2	1-21/64	19.1	4700 (323)	ORFTBC-16-16

Dimensions are for reference only and are subject to change.

BODIES

Compression Tube Fitting Elbow - ORFTE

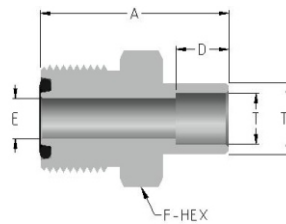
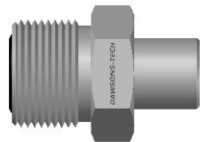


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm					F-Hex (Inch)	G-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	B	C	D	E				
1/4	1/4	30.2	24.4	22.9	15.2	4.6	1/2	9/16	10,200 (702)	ORFTE-4-4
1/2	3/8	35.3	32.0	27.9	16.8	7.1	13/16	13/16	6500 (447)	ORFTE-8-6
1/2	1/2	38.1	32.0	27.9	22.9	10.2	13/16	7/8	6700 (461)	ORFTE-8-8
3/4	3/4	45.7	37.6	35.6	24.4	15.7	1-3/8	1-1/8	5800 (399)	ORFTE-12-12
1	1	51.8	39.6	39.6	31.2	22.1	1-11/16	1-1/2	4700 (323)	ORFTE-16-16

Dimensions are for reference only and are subject to change.

Tube Socket Weld Connector - ORFWC

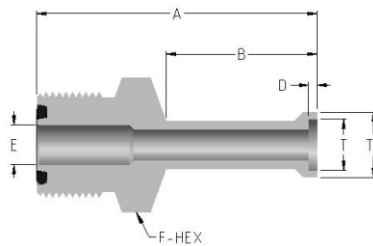
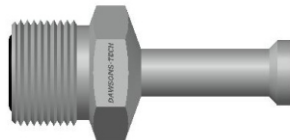


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm				F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	T	A	D	E	Tx			
1/4	1/4	27.7	7.1	4.6	9.7	5/8	6800 (468)	ORFWC-4-4TSW
3/8	3/8	32.5	7.9	7.1	15.2	15/16	8100 (558)	ORFWC-6-6TSW
1/2	1/2	34.0	9.7	10.2	15.2	15/16	3000 (206)	ORFWC-8-8TSW
3/4	3/4	38.1	11.2	15.7	23.4	1-5/16	3700 (255)	ORFWC-12-12TSW
1	1	43.7	15.7	22.1	30.2	1-5/8	3000 (206)	ORFWC-16-16TSW

Dimensions are for reference only and are subject to change.

Automatic Tube Weld Connector - ORFAC



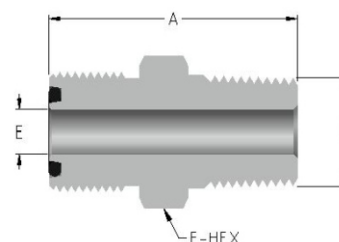
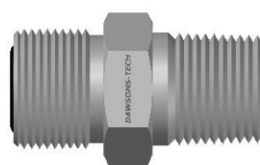
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	Tube O.D.	Dimensions in mm					F-Hex (Inch)	Wall Thickness	Working Pressure PSIG (Bar)	Dawsons-Tech Part No.
	T	A	B	D	E	Tx				
1/4	1/4	40.4	19.8	0.5	4.6	7.4	5/8	0.035	6800 (468)	ORFAC-4-4TW
1/2	3/8	44.2	20.0	0.8	7.9	10.4	15/16	0.035	8100 (558)	ORFAC-8-6TW
1/2	1/2	44.4	20.3	1.0	10.2	14.0	15/16	0.049	3000 (206)	ORFAC-8-8TW
3/4	3/4	45.2	20.3	1.0	16.5	20.3	1-5/16	0.049	3700 (255)	ORFAC-12-12TW
1	1	51.6	25.4	1.0	22.1	26.9	1-5/8	0.065	3000 (206)	ORFAC-16-16TW

Dimensions are for reference only and are subject to change.

BODIES

Male Connector (NPT Thread) - ORFMC

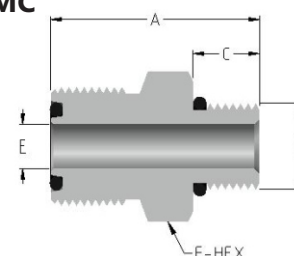
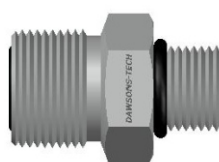


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	NPT Male Thread	Dimensions in mm		F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	P	A	E			
1/4	1/4	34.0	4.6	5/8	13,400 (923)	ORFMC-4-4N
1/2	3/8	37.1	9.7	15/16	7800 (537)	ORFMC-8-6N
1/2	1/2	41.9	10.2	15/16	10,000 (689)	ORFMC-8-8N
3/4	3/4	44.4	15.7	1-5/16	7300 (502)	ORFMC-12-12N
1	1	50.0	22.1	1-5/8	5300 (365)	ORFMC-16-16N

Dimensions are for reference only and are subject to change.

Male Connector (SAE/MS Straight Thread) - ORFMC

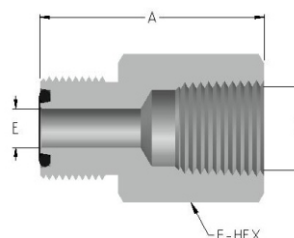
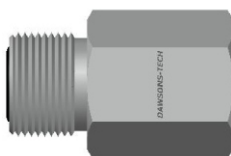


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	SAE/MS Straight Thread	Dimensions in mm			F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	P	A	C	E			
1/4	7/16 - 20	31.5	9.1	4.6	11/16	4500 (310)	ORFMC-4-7SE
1/4	9/16 - 18	29.7	9.9	4.6	11/16	4500 (310)	ORFMC-4-9SE
1/2	7/16 - 20	34.5	9.1	4.6	15/16	4500 (310)	ORFMC-8-7SE
1/2	9/16 - 18	35.3	9.9	7.6	15/16	4500 (310)	ORFMC-8-9SE
1/2	3/4 - 16	37.3	11.2	10.2	1	3600 (248)	ORFMC-8-12SE
3/4	1-1/16 - 12	43.9	15.0	15.7	1-3/8	3600 (248)	ORFMC-12-17SE
1	1-5/16 - 12	45.5	15.0	21.6	1-5/8	2900 (199)	ORFMC-16-21SE

Dimensions are for reference only and are subject to change.

Female Connector (NPT Thread) - ORFFC



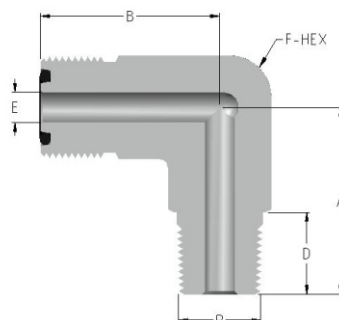
STANDARD CONFIGURATION DIMENSIONS

ORFS Size	NPT Female Thread	Dimensions in mm		F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	P	A	E			
1/4	1/4	35.3	4.6	3/4	6600 (454)	ORFFC-4-4N
1/2	3/8	39.9	10.2	15/16	6600 (454)	ORFFC-8-6N
1/2	1/2	45.0	10.2	1-1/16	4900 (337)	ORFFC-8-8N
3/4	3/4	49.0	15.7	1-5/16	4600 (316)	ORFFC-12-12N
1	1	51.3	22.1	1-5/8	4400 (303)	ORFFC-16-16N

Dimensions are for reference only and are subject to change.

BODIES

Male Elbow (NPT Thread) - ORFME

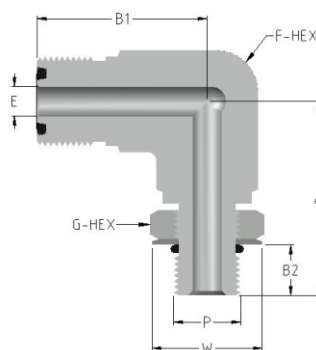


STANDARD CONFIGURATION DIMENSIONS

ORFS Size	NPT Male Thread	Dimensions in mm				F-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	P	A	B	D	E			
1/4	1/4	26.7	24.4	14.2	4.6	1/2	8000 (551)	ORFME-4-4N
1/2	3/8	32.0	32.0	14.2	9.7	13/16	7800 (537)	ORFME-8-6N
1/2	1/2	36.8	32.0	19.1	10.2	13/16	7700 (530)	ORFME-8-8N
3/4	3/4	42.4	37.6	19.1	15.7	1-1/4	7300 (502)	ORFME-12-12N
1	1	49.3	39.6	23.9	22.0	1-11/16	5300 (365)	ORFME-16-16N

Dimensions are for reference only and are subject to change.

Positionable Male Elbow (SAE/MS Straight Thread) - ORFPME



STANDARD CONFIGURATION DIMENSIONS

ORFS Size	SAE/MS Straight Thread	Dimensions in mm					F-Hex (Inch)	G-Hex (Inch)	Pressure Rating PSIG (Bar)	Dawsons-Tech Part No.
	P	A	B1	B2	E	W				
1/4	7/16 - 20	30.2	24.4	9.9	4.6	16.5	5/8	9/16	4500 (310)	ORFPME-4-7SE
1/2	9/16 - 18	39.1	33.8	11.2	7.6	20.1	1-1/16	11/16	3600 (248)	ORFPME-8-9SE
1/2	3/4 - 16	41.9	33.8	12.7	10.2	25.7	1-1/16	7/8	3600 (248)	ORFPME-8-12SE
3/4	1-1/16 - 12	54.1	38.9	16.8	15.7	36.6	1-3/8	1-1/4	2900 (199)	ORFPME-12-17SE
1	1-5/16 - 12	58.7	43.7	16.8	22.1	43.9	1-11/16	1-1/2	2300 (158)	ORFPME-16-21SE

Dimensions are for reference only and are subject to change.

ORDERING INFORMATION :

For Example : PART NO. : ORFG-8-8TSW-SSV (GLANDS)

Type of Fittings	ORFS Size	Tube OD Size	Tube OD Type	Material of Construction	Seal Material
ORFG	8	8	TSW	SS	V
Tube Socket Weld Gland	1/2"	1/2"	Tube Socket Weld	SS316	Fluorocarbon

For Example : PART NO. : ORFSMC-8-8N-SSV (SWIVEL CONNECTORS)

Type of Fittings	ORFS Size	End Connection Thread Size	End Connection Thread Type	Material of Construction	Seal Material
ORFSMC	8	8	N	SS	V
Swivel Male Connector	1/2"	1/2"	NPT	SS316	Fluorocarbon

For Example : PART NO. : ORFMC-8-8N-SSV (BODIES)

Type of Fittings	ORFS Size	End Connection Thread Size	End Connection Thread Type	Material of Construction	Seal Material
ORFMC	8	8	N	SS	V
Male Connector	1/2"	1/2"	NPT	SS316	Fluorocarbon

Part No. Code Description :

ORFS Size	Fractional	
	4	1/4"
	6	3/8"
	8	1/2"
	12	3/4"
	16	1"

End Connection Tube OD Size	Fractional	
	4	1/4"
	6	3/8"
	8	1/2"
	12	3/4"
	16	1"

End Connection Thread Type	N : NPT
	SE : Straight Thread
	TSW : Tube Socket Weld
	TW : Tube Weld

End Connection Tube OD Size	Fractional	
	4	1/4"
	6	3/8"
	7	7/16"
	8	1/2"
	9	9/16"
	12	3/4"
	14	7/8"
	16	1"
	17	1-1/16"
	21	1-5/16"

Seal Material	SS : SS316
	SSL : SS316L

Seal Material	V : Fluorocarbon
	R : Nitrile
	E : EPDM
	Z : Neoprene



Twin Ferrule Tube Fittings



Precision Thread / Weld Pipe Fittings



37° Flare / BSPP 60° Cone Fittings



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