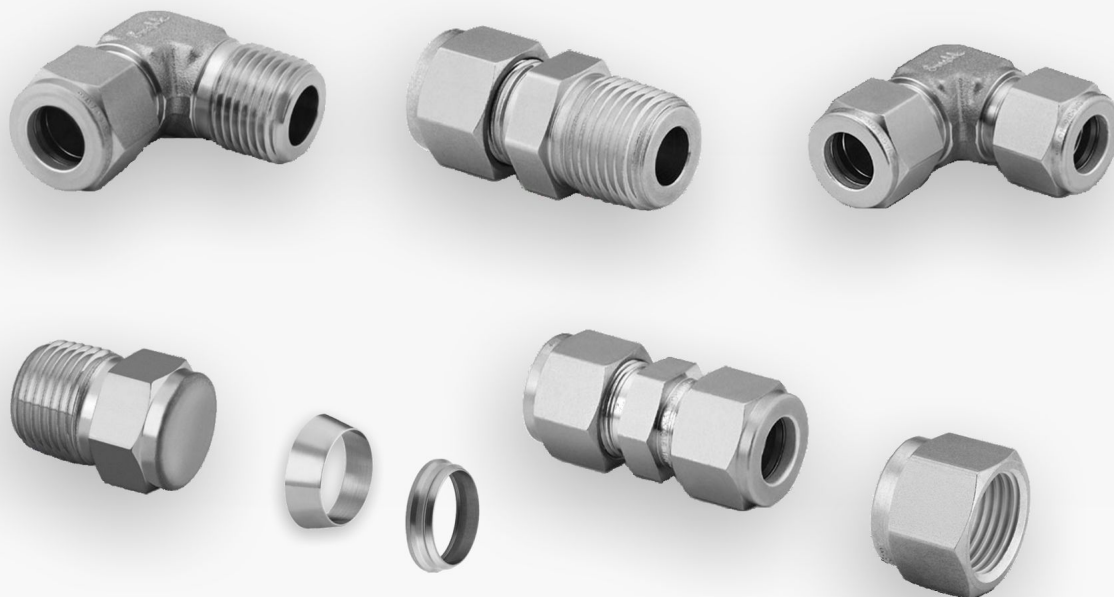




Pipe fittings and plugs made of stainless steel

The screw fittings are only for connecting and joining stainless steel tubes. Only screw fittings frequently used with our gas conditioning components are listed:

- Screw-in connections, straight and angled
- Tube adapter, straight and angled
- Sealing plug
- Spare parts

Please contact us for other types and dimensions!

Removable compression fittings; material: Stainless steel 316

Tapered thread (ISO/BSP); standard: 1/4" and 3/8"

NPT thread; standard: 1/4" and 3/8"

Metric tube sizes; standard: 6, 8, 10 and 12 mm

US tube sizes; standard: 1/4", 3/8" and 1/2"

Grease-less versions available upon request



Examples for using screw fittings and plugs

- Connecting stainless steel gas heat exchangers
- Probes: Connections for sample gas, calibrating gas, purge air, control air
- Connecting stainless steel filters
- Spare parts for gas pumps with stainless steel head

General Technical Data

Material: Stainless steel 316 (1.4401) or 1.4471.

All specifications in this data sheet in mm, US specifications in parentheses!

Permissible pressures

Permissible operating pressure in bar/psig for seamless stainless steel tubes.

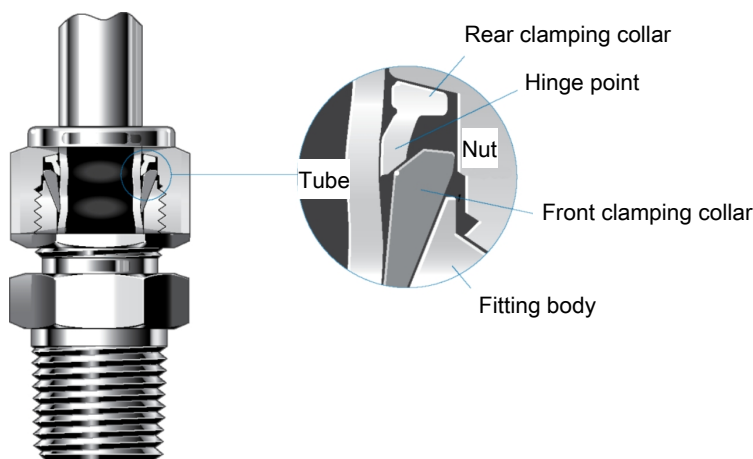
For single weld tubes, multiply the specified pressure by 0.8.

Information in the pressure tables are guidelines!

	Tube wall thickness	6 mm	8 mm	10 mm	12 mm	1/8"	1/4"	3/8"	Pressure
metric	1 mm	420	310	240	200	-	-	-	bar
		6094	4498	3482	2902	-	-	-	psig
	1.5 mm	710	520	400	330	-	-	-	bar
		10302	7545	5804	4788	-	-	-	psig
	2 mm	-	-	580	470	-	-	-	bar
		-	-	8415	6819	-	-	-	psig
US	0.89 mm (0.035")	-	-	-	-	720	341.5	227	bar
		-	-	-	-	10900	5100	3300	psig
	1.25 mm (0.049")	-	-	-	-	-	517	330	bar
		-	-	-	-	-	7500	4800	psig
	1 mm (0.065")	-	-	-	-	-	703	448	bar
		-	-	-	-	-	10200	6500	psig

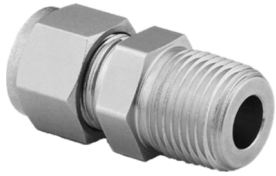
Special properties

- Spring-loaded design with two clamping collars.
- Easy installation.
- No torque is applied to the tube during installation.



When installing the design with the new geometry the front clamping collar is pressed onto the fitting body and the tube, creating primary seals, whilst the rear clamping collar folds inward to firmly clamp around the tube. The geometry of the rear clamping collars creates a better hinge-tension effect, which converts axial movement into radial pressure onto the tube, requiring little torque.

Straight screw-in connection



See table for dimensions

A Outside tube diameter

B Threaded connection

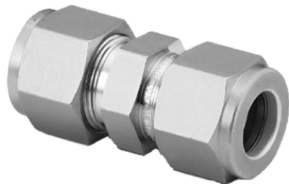
L Total length

SW Spanner size

Other dimensions available upon request

	A	B (inch)	L mm / (inch)		SW mm / (inch)		Item no.
Tapered ISO / BSP thread (RT)	6 mm	1/4"	37.9	(1.492)	14	(0.55)	9029007
		3/8"	38.4	(1.51)	18	(0.708)	9029009
Metric tube	8 mm	1/4"	38.7	(1.52)	15	(0.59)	9029041
		3/8"	39.2	(1.54)	18	(0.708)	9029042
	10 mm	3/8"	40.9	(1.61)	18	(0.708)	9029043
	12 mm	3/8"	43.4	(1.7)	22	(0.866)	9029044
US tube	1/4"	1/4"	37.9	(1.49)	9/16"	(0.56)	9029006
		3/8"	38.4	(1.51)	11/16"	(0.688)	9029045
	3/8"	1/4"	39.87	(1.57)	5/8"	(0.625)	9029046
		3/8"	39.87	(1.57)	11/16"	(0.688)	9029047
	1/2"	3/8"	43.4	(1.71)	13/16"	(0.813)	9029048
NPT thread Metric tube	6 mm	NPT 1/4	37.9	(1.492)	14	(0.55)	9029000
		NPT 3/8	38.4	(1.51)	18	(0.708)	9029049
	8 mm	NPT 1/4	38.7	(1.52)	15	(0.59)	9029001
		NPT 3/8	39.2	(1.54)	18	(0.708)	9029050
		NPT 1/2	45.6	(1.8)	22	(0.866)	9029068
	10 mm	NPT 3/8	40.9	(1.61)	18	(0.708)	9029051
US tube	1/4"	NPT 3/8	43.4	(1.7)	22	(0.866)	9029052
		NPT 1/4	37.9	(1.49)	9/16"	(0.56)	9029003
	3/8"	NPT 3/8	38.4	(1.5)	11/16"	(0.688)	9029053
		NPT 1/4	39.87	(1.57)	5/8"	(0.625)	9029011
		NPT 3/8	39.87	(1.57)	11/16"	(0.688)	9029054
	1/2"	NPT 3/8	43.4	(1.71)	13/16"	(0.813)	9029055

Straight connector



See table for dimensions

A Outside tube diameter 1

B Outside tube diameter 2

L Length

Other dimensions available upon request

	A	B	L	Item no.
metric	6 mm	6 mm	41 mm	9029024
		8 mm	39.4 mm	9029056
	8 mm	8 mm	43.2 mm	9029057
	10 mm	10 mm	46.2 mm	9029058
US	1/4"	1/4"	1.61"	9029059
		3/8"	1.70"	9029060
	3/8"	3/8"	1.77"	9029061

Elbow screw fitting



See table for dimensions

- A Outside tube diameter
 - B ISO threaded connection
 - C Screw-in connection pivoting radius
 - SW Screw-in connection spanner size
- Other dimensions available upon request

	A	B (inch)	C mm / (inch)		SW mm / (inch)		Item no.
Tapered ISO / BSP thread (RT)	6 mm	1/4"	27	(1.06)	12.7	(0.5)	9029017
		3/8"	29.8	(1.17)	17.5	(0.688)	9029062
Metric tube	8 mm	1/4"	28.8	(1.134)	14.29	(0.563)	9029063
		3/8"	30.6	(1.2)	17.5	(0.688)	9029064
	10 mm	3/8"	31.5	(1.24)	17.5	(0.688)	9029065
	12 mm	3/8"	36	(1.42)	20.64	(0.813)	9029066
US tube	1/4"	1/4"	27	(1.06)	1/2"	(0.5)	9029067
		3/8"	29.8	(1.17)	11/16"	(0.688)	9029069
	3/8"	1/4"	30.48	(1.20)	5/8"	(0.625)	9029070
		3/8"	31.24	(1.23)	11/16"	(0.688)	9029071
	1/2"	3/8"	36.07	(1.42)	13/16"	(0.813)	9029072
NPT thread Metric tube	6 mm	NPT 1/4	27	(1.06)	12.7	(0.5)	9029016
		NPT 3/8	29.8	(1.17)	17.5	(0.688)	9029073
	8 mm	NPT 1/4	28.8	(1.134)	14.29	(0.563)	9029074
		NPT 3/8	30.6	(1.29)	17.5	(0.688)	9029075
	10 mm	NPT 3/8	31.5	(1.24)	17.5	(0.688)	9029076
	12 mm	NPT 3/8	36	(1.42)	20.64	(0.813)	9029077
US tube	1/4"	NPT 1/4	27	(1.06)	1/2"	(0.5)	9029078
		NPT 3/8	29.8	(1.17)	11/16"	(0.688)	9029079
	3/8"	NPT 1/4	30.48	(1.20)	5/8"	(0.625)	9029080
		NPT 3/8	31.24	(1.23)	11/16"	(0.688)	9029081
	1/2"	NPT 3/8	36.07	(1.42)	13/16"	(0.813)	9029082

Angled connector



See table for dimensions

- A Outside tube diameter 1
 - B Outside tube diameter 2
 - C Screw-in connection pivoting radius
 - SW Screw-in connection spanner size
- Other dimensions available upon request

	A	B	C	SW	Item no.
metric	6 mm	6 mm	27 mm	1/2"	9029083
	8 mm	8 mm	28.8 mm	9/16"	9029084
	10 mm	10 mm	31.5 mm	11/16"	9029085
US	1/4"	1/4"	1.06"	1/4"	9029086
	3/8"	3/8"	1.2"	5/8"	9029087

Spare parts: Swivel nuts and cutting rings



Swivel nut



Front clamping collar



Rear clamping collar

	Tube OD	Spanner size SW mm / (inch)		Swivel nut	Clamping collars set = 10 count
metric	6 mm	14	(0.55)	9029091	9029032
	8 mm	16	(0.63)	9029092	9029033
	10 mm	19	(0.75)	9029093	9029034
	12 mm	22	(0.866)	9029094	9029035
US	1/8"	7/16"	(0.44)	9029095	9029036
	1/4"	9/16"	(0.56)	9029096	9029037
	3/8"	11/16"	(0.687)	9029097	9029038

Screw-in plug



US (NPT thread)



cylindrical pipe thread
(G thread)

See table for dimensions

SW Screw-in connection spanner size

L Length

Other dimensions available upon request

		SW mm / (inch)		L mm / (inch)		Item no.
metric	G 1/8"	10	(0.4)	17	(0.67)	9008471
	G 1/4"	13	(0.51)	21	(0.83)	9008472
	G 3/8"	17	(0.67)	21	(0.83)	9008456
US	NPT 1/8"	7/16"	(0.44)	19.1	(0.75)	9029039
	NPT 1/4"	9/16"	(0.56)	24.4	(0.96)	9029022
	NPT 3/8"	11/16"	(0.687)	25.1	(0.99)	9029040