



PRECISION PIPE FITTINGS

316 STAINLESS STEEL

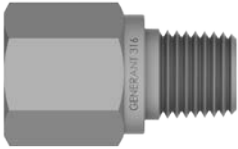

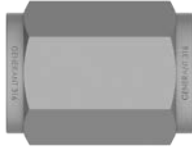
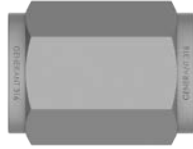





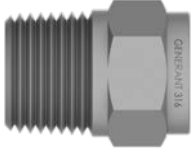







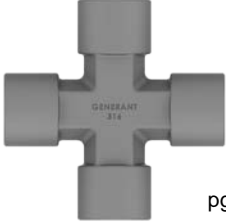
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PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designer.

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Visual index			
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Features

Generant Precision Pipe Fittings are manufactured in Meadville, PA using state of the art production equipment and techniques. All fittings go through a rigorous inspection process to ensure the highest quality and workmanship. Generant Precision Pipe Fittings are ultrasonically cleaned and passivated to remove all oils or impurities.

- * Available in 1/8"-1" NPT in various configurations
- * High quality threads ensure leak free connections
- * Pipe fittings are manufactured using 316 stainless steel bar stock and forgings
- * All materials are traceable to the mill and the mill certificate is available upon request
- * Fittings come packaged individually in heat-sealed bags
- * All male threads are supplied with protective thread caps
- * Tapered pipe threads (NPT) are machined per the requirements of ANSI/ASME B1.20.1
- * Interchangeable and compatible with Swagelok®, SSP TruFit®, and Parker® instrument pipe fittings

Quality

Generant Precision Pipe Fittings are produced in Meadville, Pennsylvania, USA. The manufacturing facility is certified by DNV to the requirements of ISO 9001.



Materials

Generant Precision Pipe Fittings are made from 316 stainless steel bar stock and forgings. All materials conform to industry standards as follows:

Component	316 stainless steel
Fitting body – hexagon	ASTM A479, ASTM A276
Fitting body - forged	ASTM A182

Traceability

Generant Precision Pipe Fittings are permanently marked to allow for raw material heat/lot traceability. Material certifications and test reports are available upon request.

Pressure Rating

Generant Precision Pipe Fittings are pressure rated based on ASME B-31.3 Process Piping, using the allowable stress for 316 SS of 20,000 PSI. Each fitting is rated independently via calculation. This catalog provides the fitting pressure rating for each part number.

Temperature Rating

Generant Precision Pipe Fittings are designed to be used between -320°F and 680°F (-196°C and 360°C).

At temperatures above 400°F the pressure rating should be derated as follows:

Temperature °F (°C)	Derating Factor*
-320° to 400° (-196° to 204°)	1.00
400° to 500° (204° to 260°)	0.94
500° to 600° (260° to 316°)	0.88
600° to 680° (316° to 360°)	0.81

* multiply pressure rating by Derating Factor to determine Actual Pressure Rating at Temperature.

Ordering Instructions

1. Style Designator

Choose a fitting type from the visual index page. Generant Precision Pipe Fittings use up to five letters to indicate the specific configuration or shape desired.

GA = Adapter

GCP = Pipe Cap

GCS = Cross

GE = Elbow

GHCG = Hex Coupling

GHLN = Hex Long Nipple

GHN = Hex Nipple

GHRCG = Hex Reducing Coupling

GHRN = Hex Reducing Nipple

GME = Male Elbow

GP = Plug

GRA = Reducing Adapter

GRB = Reducing Bushing

GSE = Street Elbow

GST = Street Tee

GT = Tee

2. Size

Indicate the pipe size by using the Size Designator listed in the following table. For fittings that utilize more than one port size, Size Designators are separated by dashes. All part numbers are listed in the catalog.

Pipe Size	Generant Size Designator
1/8"	2
1/4"	4
3/8"	6
1/2"	8
3/4"	12
1"	16

3. Material

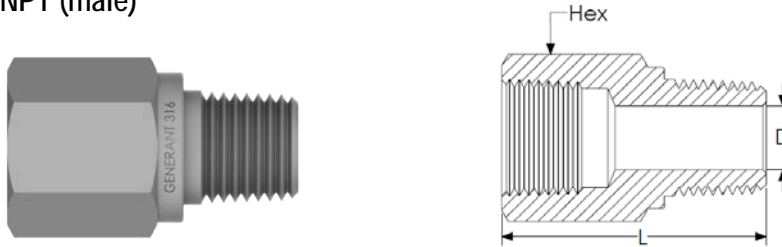
Generant Precision Pipe Fittings are currently only offered in 316SS. Use designator "-SS" at the end of the part number. For other materials, please consult factory.

EXAMPLE PART NUMBERS

GCP-4-SS Pipe Cap, 1/4" NPT, 316SS

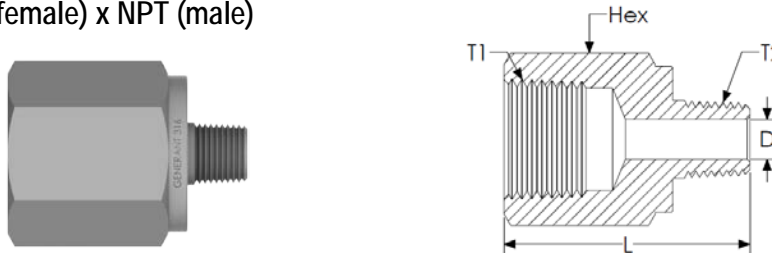
GRA-12-8-SS Male Reducing Adapter, 3/4" NPT Female x 1/2" NPT, 316SS

GA
Adapter – NPT (female) x NPT (male)



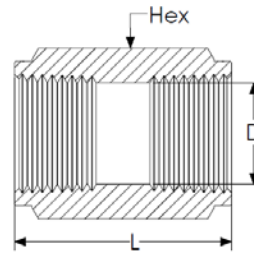
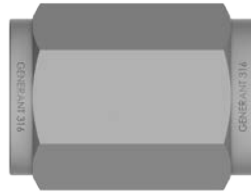
Part No.	NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
		L	Hex	D	
GA-2-SS	1/8-27	1.10 (27.9)	9/16	0.19 (4.8)	6,900 (469)
GA-4-SS	1/4-18	1.40 (35.6)	3/4	0.28 (7.1)	6,850 (466)
GA-6-SS	3/8-18	1.51 (38.4)	7/8	0.38 (9.6)	5,450 (371)
GA-8-SS	1/2-14	1.94 (49.3)	1-1/16	0.47 (11.9)	4,900 (333)
GA-12-SS	3/4-14	2.02 (51.3)	1-5/16	0.63 (16.0)	4,750 (323)
GA-16-SS	1-11.5	2.28 (57.9)	1-5/8	0.88 (22.4)	4,400 (299)

GRA
Reducing Adapter – NPT (female) x NPT (male)



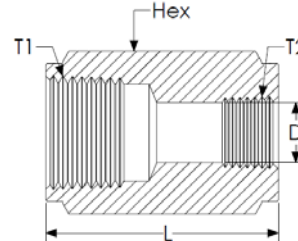
Part No.	T1 NPT	T2 NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
			L	Hex	D	
GRA-4-2-SS	1/4-18	1/8-27	1.26 (32.0)	3/4	0.19 (4.8)	6,850 (466)
GRA-6-2-SS	3/8-18	1/8-27	1.33 (33.8)	7/8	0.19 (4.8)	5,450 (371)
GRA-6-4-SS		1/4-18	1.50 (38.1)		0.28 (7.1)	5,450 (371)
GRA-8-2-SS	1/2-14	1/8-27	1.58 (40.1)	1-1/16	0.19 (4.8)	4,900 (333)
GRA-8-4-SS		1/4-18	1.76 (44.7)		0.28 (7.1)	4,900 (333)
GRA-8-6-SS		3/8-18	1.75 (44.4)		0.38 (9.6)	4,900 (333)
GRA-12-4-SS	3/4-14	1/4-18	1.85 (47.0)	1-5/16	0.28 (7.1)	4,750 (323)
GRA-12-6-SS		3/8-18	1.82 (46.2)		0.38 (9.6)	4,750 (323)
GRA-12-8-SS		1/2-14	2.02 (51.3)		0.47 (11.9)	4,750 (323)
GRA-16-4-SS	1-11.5	1/4-18	1.96 (49.8)	1-5/8	0.28 (7.1)	4,400 (299)
GRA-16-8-SS		1/2-14	2.16 (54.9)		0.47 (11.9)	4,400 (299)
GRA-16-12-SS		3/4-14	2.17 (55.1)		0.63 (16.0)	4,400 (299)

GHCG
Hex Coupling – NPT (female)



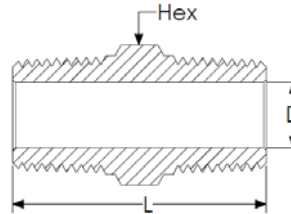
Part No.	NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
		L	Hex	D	
GHCG-2-SS	1/8-27	0.81 (20.6)	9/16	0.34 (8.6)	6,900 (469)
GHCG-4-SS	1/4-18	1.19 (30.2)	3/4	0.45 (11.4)	6,850 (466)
GHCG-6-SS	3/8-18	1.31 (33.3)	7/8	0.59 (15.0)	5,450 (371)
GHCG-8-SS	1/2-14	1.56 (39.6)	1-1/16	0.73 (18.5)	4,900 (333)
GHCG-12-SS	3/4-14	1.62 (41.1)	1-5/16	0.94 (23.9)	4,750 (323)
GHCG-16-SS	1-11.5	2.00 (50.8)	1-5/8	1.17 (29.7)	4,400 (299)

GHRCG
Hex Reducing Coupling – NPT (female) x NPT (female)



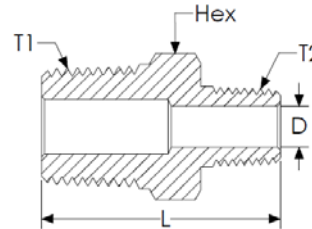
Part No.	T1 NPT	T2 NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
			L	Hex	D	
GHRCG-4-2-SS	1/4-18	1/8-27	1.22 (31.0)	3/4	0.34 (8.6)	6,850 (466)
GHRCG -6-2-SS	3/8-18	1/8-27	1.31 (33.3)	7/8	0.34 (8.6)	5,450 (371)
GHRCG -6-4-SS		1/4-18	1.38 (35.1)		0.45 (11.4)	5,450 (371)
GHRCG -8-2-SS	1/2-14	1/8-27	1.56 (39.6)	1-1/16	0.34 (8.6)	4,900 (333)
GHRCG -8-4-SS		1/4-18	1.75 (44.4)		0.45 (11.4)	4,900 (333)
GHRCG -8-6-SS		3/8-18	1.78 (45.2)		0.59 (15.0)	4,900 (333)
GHRCG -12-4-SS	3/4-14	1/4-18	1.81 (46.0)	1-5/16	0.45 (11.4)	4,750 (323)
GHRCG -12-6-SS		3/8-18	1.81 (46.0)		0.59 (15.0)	4,750 (323)
GHRCG -12-8-SS		1/2-14	2.06 (52.3)		0.73 (18.5)	4,750 (323)
GHRCG -16-8-SS	1-11.5	1/2-14	2.19 (55.6)	1-5/8	0.73 (18.5)	4,400 (299)
GHRCG -16-12-SS		3/4-14	2.25 (57.2)		0.94 (23.9)	4,400 (299)

GHN
Hex Nipple – NPT (male)



Part No.	NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
		L	Hex	D	
GHN-2-SS	1/8-27	1.01 (25.6)	7/16	0.19 (4.8)	10,350 (704)
GHN-4-SS	1/4-18	1.40 (35.6)	9/16	0.28 (7.1)	8,500 (578)
GHN-6-SS	3/8-18	1.43 (36.3)	11/16	0.38 (9.6)	7,950 (541)
GHN-8-SS	1/2-14	1.84 (46.7)	7/8	0.47 (11.9)	7,900 (537)
GHN-12-SS	3/4-14	1.84 (46.7)	1-1/16	0.63 (16.0)	7,500 (510)
GHN-16-SS	1-11.5	2.32 (58.9)	1-3/8	0.88 (22.4)	5,450 (371)

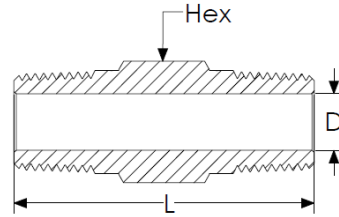
GHRN
Hex Reducing Nipple – NPT (male) x NPT (male)



Part No.	T1 NPT	T2 NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
			L	Hex	D	
GHRN-4-2-SS	1/4-18	1/8-27	1.22 (31.0)	9/16	0.19 (4.8)	10,350 (704)
GHRN -6-2-SS	3/8-18	1/8-27	1.25 (31.8)	11/16	0.19 (4.8)	10,350 (704)
GHRN -6-4-SS		1/4-18	1.43 (36.3)		0.28 (7.1)	8,500 (578)
GHRN -8-2-SS	1/2-14	1/8-27	1.47 (37.3)	7/8	0.19 (4.8)	10,350 (704)
GHRN -8-4-SS		1/4-18	1.65 (41.9)		0.28 (7.1)	8,500 (578)
GHRN -8-6-SS		3/8-18	1.65 (41.9)		0.38 (9.6)	7,950 (541)
GHRN -12-4-SS	3/4-14	1/4-18	1.65 (41.9)	1-1/16	0.28 (7.1)	8,500 (578)
GHRN -12-6-SS		3/8-18	1.65 (41.9)		0.38 (9.6)	7,950 (541)
GHRN -12-8-SS		1/2-14	1.84 (46.7)		0.47 (11.9)	7,900 (537)
GHRN -16-4-SS	1-11.5	1/4-18	1.94 (49.3)	1-3/8	0.28 (7.1)	8,500 (578)
GHRN -16-8-SS		1/2-14	2.13 (54.1)		0.47 (11.9)	7,900 (537)
GHRN -16-12-SS		3/4-14	2.13 (54.1)		0.63 (16.0)	7,500 (510)

GHLN

Long Hex Nipple – NPT (male)

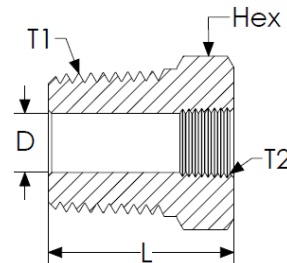


Part No.	NPT	Dimensions inch, (mm)		L (sizes offered) inch					Pressure Ratings psig (bar)
		Hex	D	1.5	2.0	2.5	3.0	4.0	
GHLN-4-*-SS	1/4-18	9/16	0.28 (7.1)	✓	✓	✓	✓	✓	8,500 (578)
GHLN-6-*-SS	3/8-18	11/16	0.38 (9.6)	✓	✓	✓	✓	✓	7,950 (541)
GHLN-8-*-SS	1/2-14	7/8	0.47 (11.9)	-	✓	✓	✓	✓	7,900 (537)
GHLN-12-*-SS	3/4-14	1-1/16	0.63 (16.0)	-	✓	-	✓	✓	7,500 (510)

*To order, insert desired length (L) in place of asterisk (e.g. GHLN-6-2.0-SS).

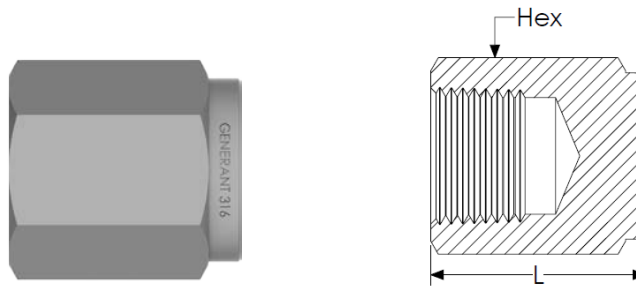
GRB

Reducing Bushing – NPT (male) x NPT (female)



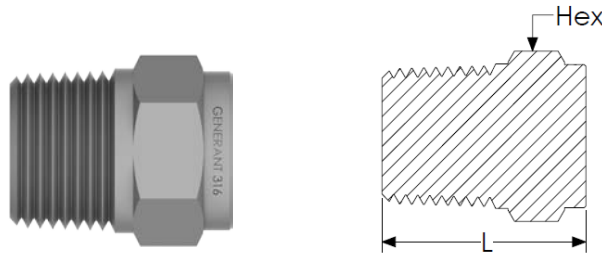
Part No.	T1 NPT	T2 NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
			L	Hex	D	
GRB-4-2-SS	1/4-18	1/8-27	1.06 (26.9)	9/16	0.28 (7.1)	6,900 (469)
GRB-6-2-SS	3/8-18	1/8-27	0.86 (21.8)	11/16	0.34 (8.6)	9,600 (653)
GRB-6-4-SS		1/4-18	1.19 (30.2)	3/4	0.38 (9.6)	6,850 (466)
GRB-8-2-SS	1/2-14	1/8-27	1.08 (27.4)	7/8	0.34 (8.6)	12,550 (854)
GRB-8-4-SS		1/4-18			0.45 (11.4)	8,650 (588)
GRB-8-6-SS		3/8-18			0.47 (11.9)	5,450 (371)
GRB-12-4-SS	3/4-14	1/4-18	1.08 (27.4)	1-1/16	0.45 (11.4)	12,150 (827)
GRB-12-6-SS		3/8-18			0.59 (15.0)	8,650 (588)
GRB-12-8-SS		1/2-14			1.63 (41.4)	0.63 (16.0)
GRB-16-4-SS	1-11.5	1/4-18	1.37 (34.8)	1-3/8	0.45 (11.4)	14,750 (1,003)
GRB-16-6-SS		3/8-18			0.59 (15.0)	11,900 (810)
GRB-16-8-SS		1/2-14			0.73 (18.5)	8,850 (602)
GRB-16-12-SS		3/4-14			1.85 (47.0)	0.88 (22.4)

GCP
Cap – NPT (female)



Part No.	NPT	Dimensions – inch, (mm)		Pressure Ratings psig (bar)
		L	Hex	
GCP-2-SS	1/8-27	0.75 (19.1)	9/16	6,900 (469)
GCP-4-SS	1/4-18	0.91 (23.1)	3/4	6,850 (466)
GCP-6-SS	3/8-18	1.03 (26.2)	7/8	5,450 (371)
GCP-8-SS	1/2-14	1.34 (34.0)	1-1/16	4,900 (333)
GCP-12-SS	3/4-14	1.44 (36.6)	1-5/16	4,750 (323)
GCP-16-SS	1-11.5	1.62 (41.1)	1-5/8	4,400 (299)

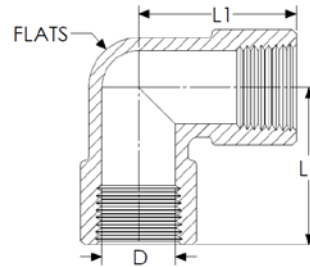
GP
Plug – NPT (male)



Part No.	NPT	Dimensions – inch, (mm)	
		L	Hex
GP-2-SS	1/8-27	0.75 (19.1)	7/16
GP-4-SS	1/4-18	0.96 (24.4)	9/16
GP-6-SS	3/8-18	0.99 (25.1)	11/16
GP-8-SS	1/2-14	1.21 (30.7)	7/8
GP-12-SS	3/4-14	1.21 (30.7)	1-1/16
GP-16-SS	1-11.5	1.50 (38.1)	1-3/8

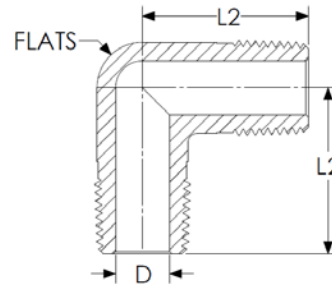
NOTE: Pressure ratings Not Applicable, (no critical pressure bearing wall).

GE
Female Elbow – NPT (female)



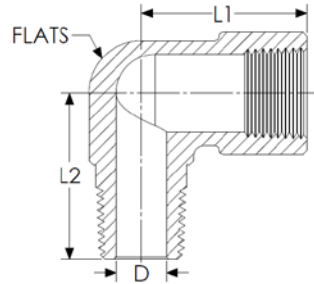
Part No.	NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
		L1	Flats	D	
GE-2-SS	1/8-27	1.04 (26.4)	1/2	0.34 (8.6)	6,450 (439)
GE-4-SS	1/4-18	1.17 (29.7)	11/16	0.45 (11.4)	7,400 (503)
GE-6-SS	3/8-18	1.42 (36.1)	13/16	0.59 (15.0)	5,600 (381)
GE-8-SS	1/2-14	1.56 (39.6)	1	0.73 (18.5)	5,700 (388)
GE-12-SS	3/4-14	1.92 (48.8)	1-1/4	0.94 (23.9)	5,250 (357)
GE-16-SS	1-11.5	1.91 (48.5)	1-11/16	1.17 (29.7)	6,650 (452)

GME
Male Elbow – NPT (male)



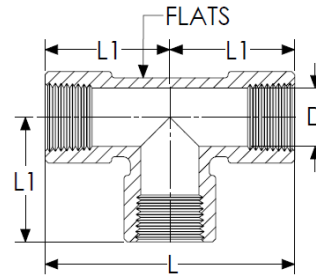
Part No.	NPT	Dimensions – inch, (mm)			Pressure Ratings psig (bar)
		L2	Flats	D	
GME-4-SS	1/4-18	1.05 (26.7)	1/2	0.28 (7.1)	8,500 (578)
GME-6-SS	3/8-18	1.17 (29.7)	11/16	0.38 (9.6)	7,950 (541)
GME-8-SS	1/2-14	1.45 (36.8)	13/16	0.47 (11.9)	7,900 (537)
GME-12-SS	3/4-14	1.56 (39.6)	1	0.63 (16.0)	7,500 (510)
GME-16-SS	1-11.5	1.92 (48.8)	1-1/4	0.88 (22.4)	5,450 (371)

GSE
Street Elbow – NPT (male) x NPT (female)



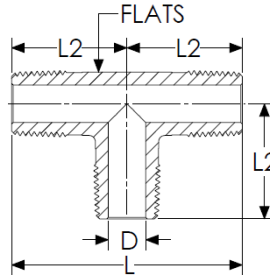
Part No.	NPT	Dimensions – inch, (mm)				Pressure Ratings psig (bar)
		L1	L2	Flats	D	
GSE-2-SS	1/8-27	1.04 (26.4)	0.87 (22.1)	1/2	0.19 (4.8)	6,450 (439)
GSE-4-SS	1/4-18	1.17 (29.7)	1.17 (29.7)	11/16	0.28 (7.1)	7,400 (503)
GSE-6-SS	3/8-18	1.42 (36.1)	1.26 (32.0)	13/16	0.38 (9.6)	5,600 (381)
GSE-8-SS	1/2-14	1.56 (39.6)	1.56 (39.6)	1	0.47 (11.9)	5,700 (388)
GSE-12-SS	3/4-14	1.92 (48.8)	1.67 (42.4)	1-1/4	0.63 (16.0)	5,250 (357)
GSE-16-SS	1-11.5	1.91 (48.5)	1.94 (49.3)	1-11/16	0.88 (22.4)	5,450 (371)

GT
Female Tee – NPT (female)



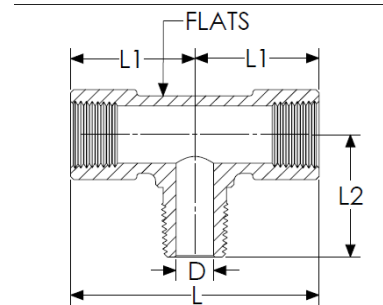
Part No.	NPT	Dimensions – inch, (mm)				Pressure Ratings psig (bar)
		L	L1	Flats	D	
GT-2-SS	1/8-27	2.08 (52.8)	1.04 (26.4)	1/2	0.34 (8.6)	6,450 (439)
GT-4-SS	1/4-18	2.34 (59.4)	1.17 (29.7)	11/16	0.45 (11.4)	7,400 (503)
GT-6-SS	3/8-18	2.84 (72.1)	1.42 (36.1)	13/16	0.59 (15.0)	5,600 (381)
GT-8-SS	1/2-14	3.12 (79.2)	1.56 (39.6)	1	0.73 (18.5)	5,700 (388)
GT-12-SS	3/4-14	3.84 (97.5)	1.92 (48.8)	1-1/4	0.94 (23.9)	5,250 (357)
GT-16-SS	1-11.5	3.82 (97.0)	1.91 (48.5)	1-11/16	1.17 (29.7)	6,650 (452)

GMT
Male Tee – NPT (male)



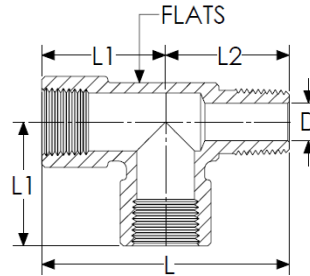
Part No.	NPT	Dimensions – inch, (mm)				Pressure Ratings psig (bar)
		L	L2	Flats	D	
GMT-4-SS	1/4-18	2.10 (53.3)	1.05 (26.7)	1/2	0.28 (7.1)	8,500 (578)
GMT-6-SS	3/8-18	2.34 (59.4)	1.17 (29.7)	11/16	0.38 (9.6)	7,950 (541)
GMT-8-SS	1/2-14	2.90 (73.7)	1.45 (36.8)	13/16	0.47 (11.9)	7,900 (537)
GMT-12-SS	3/4-14	3.12 (79.2)	1.56 (39.6)	1	0.63 (16.0)	7,500 (510)
GMT-16-SS	1-11.5	3.80 (97.6)	1.92 (48.8)	1-1/4	0.88 (22.4)	5,450 (371)

GBT
Branch Tee – NPT (male) x NPT (female)



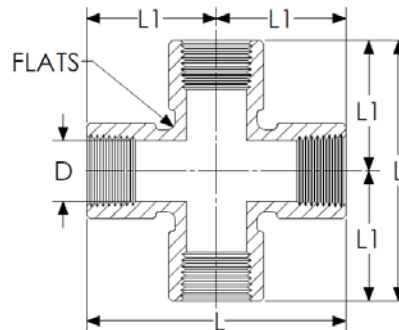
Part No.	NPT	Dimensions – inch, (mm)					Pressure Ratings psig (bar)
		L	L1	L2	Flats	D	
GBT-2-SS	1/8-27	2.08 (52.8)	1.04 (26.4)	0.87 (22.1)	1/2	0.19 (4.8)	6,450 (439)
GBT-4-SS	1/4-18	2.34 (59.4)	1.17 (29.7)	1.17 (29.7)	11/16	0.28 (7.1)	7,400 (503)
GBT-6-SS	3/8-18	2.84 (72.1)	1.42 (36.1)	1.26 (32.0)	13/16	0.38 (9.6)	5,600 (381)
GBT-8-SS	1/2-14	3.12 (79.2)	1.56 (39.6)	1.56 (39.6)	1	0.47 (11.9)	5,700 (388)
GBT-12-SS	3/4-14	3.84 (97.6)	1.92 (48.8)	1.70 (42.4)	1-1/4	0.63 (16.0)	5,250 (357)
GBT-16-SS	1-11.5	3.82 (97.0)	1.91 (48.5)	1.94 (49.3)	1-11/16	0.88 (22.4)	5,450 (371)

GST
Street Tee – NPT (male) x NPT (female)



Part No.	NPT	Dimensions – inch, (mm)					Pressure Ratings psig (bar)
		L	L1	L2	Flats	D	
GST-2-SS	1/8-27	1.91 (48.5)	1.04 (26.4)	0.87 (22.1)	1/2	0.19 (4.8)	6,450 (439)
GST-4-SS	1/4-18	2.34 (59.4)	1.17 (29.7)	1.17 (29.7)	11/16	0.28 (7.1)	7,400 (503)
GST-6-SS	3/8-18	2.68 (68.1)	1.42 (36.1)	1.26 (32.0)	13/16	0.38 (9.6)	5,600 (381)
GST-8-SS	1/2-14	3.12 (79.2)	1.56 (39.6)	1.56 (39.6)	1	0.47 (11.9)	5,700 (388)
GST-12-SS	3/4-14	3.59 (91.2)	1.92 (48.8)	1.67 (42.4)	1-1/4	0.63 (16.0)	5,250 (357)
GBT-16-SS	1-11.5	3.85 (97.8)	1.91 (48.5)	1.94 (49.3)	1-11/16	0.88 (22.4)	5,450 (371)

GCS
Cross – NPT (female)



Part No.	NPT	Dimensions – inch, (mm)				Pressure Ratings psig (bar)
		L	L1	Flats	D	
GCS-4-SS	1/4-18	2.34 (59.4)	1.17 (29.7)	11/16	0.45 (11.4)	7,400 (503)
GCS-6-SS	3/8-18	2.84 (72.1)	1.42 (36.1)	13/16	0.59 (15.0)	5,600 (381)
GCS-8-SS	1/2-14	3.12 (79.2)	1.56 (39.6)	1	0.73 (18.5)	5,700 (388)

PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designer.