

# Green Thread Fittings®



Catalog No. 03-7  
Nov. 2009

Green Instrument thread Fittings have been developed based on ASME B31.3 for instrumentation and process control in sizes 1/8" to 2". Green Thread & weld fittings have a wrench flat allowing standard Hex wrench assembly. This is one of the Green Pipe fitting benefits.

## Features

- Attractive finishes to suit precision equipment
- Space-saving therefore less-weight design
- Each fitting is cleaned to remove particles, oil and grease.
- Fine NPT pipe thread construction equals or exceeds the requirement of ASME B1.20.1 to ensure maximum thread engagement.
- Service at greater pressure levels than the traditional class 3000 pipe fitting to ASME B16.11
- Male pipe threads are capped to be protected from damages
- Fitting material available in SS316, Brass and Carbon Steel

## Pipe End Pressure Rating

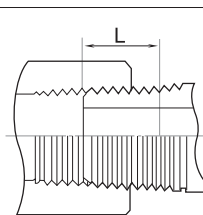
Size Designator	ISO/NPT Pipe Size	Stainless Steel 316				Brass				Carbon Steel			
		Male		Female		Male		Female		Male		Female	
		bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig
2	1/8	689	10,000	420	6,100	337	4,900	207	3,000	689	10,000	420	6,100
4	1/4	558	8,100	434	6,300	275	4,000	214	3,200	558	8,100	434	6,300
6	3/8	524	7,600	345	5,000	262	3,800	172	2,500	524	7,600	345	5,000
8	1/2	517	7,500	324	4,700	255	3,700	158	2,300	517	7,500	324	4,700
12	3/4	496	7,200	303	4,400	248	3,600	152	2,200	496	7,200	303	4,400
16	1	365	5,300	296	4,300	172	2,500	145	2,100	365	5,300	296	4,300

- Pressure ratings listed are for temperature up to 37.8°C (100°F)
- Based on Pressure Piping Code ASME B31.3 pressure rating is calculated with an allowable stress value of 20,000psi for SS316, 10,000psi for Brass, and 20,000psi for Carbon Steel.
- To determine the working pressure in accordance with Power Piping Code ASME B31.1, multiply psig by 0.94. Brass pressure ratings remain the same.
- Reducing Hex Bushing (GHB) pressure rating is not covered in this table. See the pressure rating in the dimensional table.

## Assembly Instructions

Pipe thread sealant is essential to ensure a leak-tight seal. Since Teflon tape is commonly used, we provide information of recommended tape width and numbers of threads to be wrapped.

Nominal Pipe Size	Recommended Tape Width	Effective Thread Length(External)L*	Number of Thread
1/8	1/8-1/4	0.2639	7
1/4	1/4	0.4018	7-1/4
3/8	1/4	0.4075	7-1/3
1/2	1/4-1/2	0.5337	7-1/2
3/4	1/4-1/2	0.5457	7-2/3
1	1/4-1/2	0.6828	8



UNIT: Inches

\* ASME/ANSI B1.20.1-NPT threads

\* Note : Wrap Teflon™ tape clockwise from first thread. Do not over hang the first thread, as the tape may get into the fluid system.

## How to order

Select the desired fitting basic part number, and add a material designator.  
Example: GL-2N-S

### Fitting Material designator

Material	S.Steel 316 / 316L Dual Grade	Carbon Steel	Brass
Designator	S	C	B

10 000 psig fittings are available only in stainless steel 316.  
The basic part numbers of these fittings include the material designator.

## Material Standards and Temperature Ratings

Fitting Materials	Bar Stock	Forgings	Temperature Ratings
Stainless Steel 316	ASTM A479 ASTM A276	ASTM A182 JIS G3214	537° C (998° F)
Brass	ASTM B16 ASTM B453 JIS H3250	ASTM B124, ASTM B283 JIS H3250	204° C (399° F)
Carbon Steel	ASTM A675 JIS G4051	ASTM A181 JIS G4051	190° C (374° F)

## O-ring, Gasket and Thread Sealant Temperature Ratings

Component	Material	Temperature Ratings
O-ring	Buna N	-25 to 110° C (-13 to 230° F)
	FKM (Viton®)	-28 to 204° C (-18.4 to 399° F)
DGC-	Copper	-196 to 204° C (-320 to 399° F)
DGB-	Buna N	-40 to 121° C (-40 to 250° F)
	FKM (Viton®)	-28 to 204° C (-20 to 400° F)

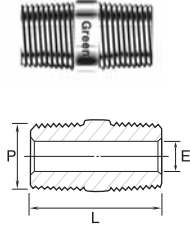
## Pipe Thread Symbol & Designator

Pipe Size	Designator	NPT	ISO Thread	
			Tapered (7/1)	Parallel (228/1)
1/8	2	2N	2R	2G
1/4	4	4N	4R	4G
3/8	6	6N	6R	6G
1/2	8	8N	8R	8G
3/4	12	12N	12R	12G
1	16	16N	16R	16G

# Green Thread Fittings

## CLOSE NIPPLE - GNC

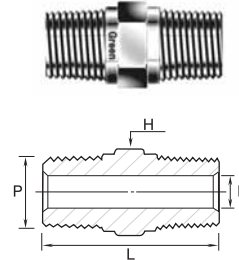
Male NPT both ends



Basic Part Number	P Pipe Size	L	E
GNC- 2N	1/8	19.05	4.8
GNC- 4N	1/4	28.4	7.1
GNC- 6N	3/8	28.4	9.6
GNC- 8N	1/2	38.1	11.9
GNC-12N	3/4	38.1	15.7
GNC-16N	1	47.8	22.4

## HEX NIPPLE - GNH

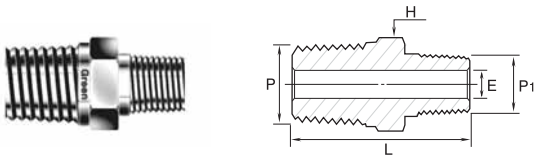
Male NPT both ends



Basic Part Number	P Pipe Size	L	E	H Hex
GNH- 2N	1/8	25.65	4.8	11.1
GNH- 4N	1/4	35.56	7.1	14.2
GNH- 6N	3/8	36.32	9.6	17.4
GNH- 8N	1/2	46.73	11.9	22.2
GNH-12N	3/4	46.73	15.7	26.9
GNH-16N	1	58.92	22.3	34.9
<b>10 000 psig HEX NIPPLE</b>				
GNH-4N-10K-S	1/4	35.56	5.8	14.28

## HEX REDUCING NIPPLE - GNR

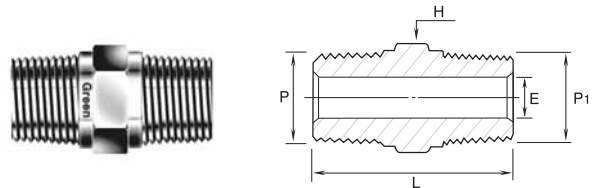
Male NPT to reduced male NPT



Basic Part Number	P Pipe Size	P1 Reduced Pipe Size	L	E	H Hex
GNR 4-2N	1/4	1/8	30.7	4.8	14.2
GNR 6-2N	3/8	1/8	32.0	4.8	17.4
GNR 6-4N	3/8	1/4	36.1	7.1	17.4
GNR 8-2N	1/2	1/8	37.2	4.8	22.2
GNR 8-4N	1/2	1/4	41.7	7.1	22.2
GNR 8-6N	1/2	3/8	41.7	9.6	22.2
GNR 12-4N	3/4	1/4	41.7	7.1	26.9
GNR 12-8N	3/4	1/2	46.7	11.9	26.9
GNR 16-4N	1	1/4	49.3	7.1	34.9
GNR 16-8N	1	1/2	54.1	11.9	34.9
<b>10 000 psig HEX REDUCING NIPPLE</b>					
GNR8-4N-10K-S	1/2	1/4	41.7	5.8	22.2

## HEX NIPPLE - GNH

Male NPT to ISO tapered

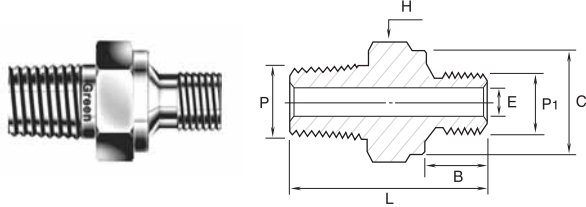


Basic Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	L	E	H Hex
GNH- 2NR	1/8	1/8-28 7/1	24.6	4.8	11.1
GNH- 4NR	1/4	1/4-19 7/1	35.6	7.1	14.2
GNH- 6NR	3/8	3/8-19 7/1	36.3	9.6	17.4
GNH- 8NR	1/2	1/2-14 7/1	46.7	11.9	22.2
GNH-12NR	3/4	3/4-14 7/1	46.7	15.7	26.9
GNH-16NR	1	1-11 7/1	58.9	22.4	34.9

# Green Thread Fittings

## HEX NIPPLE - GNH

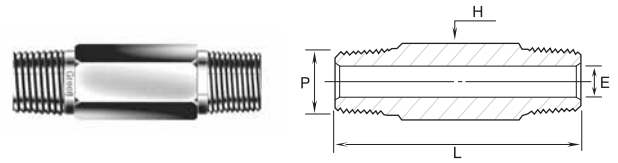
Male NPT to male ISO parallel



Basic Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	L	B	C	E	H Hex
GNH- 2NG	1/8	1/8-28 (228/1)	27.4	7.1	13.7	4.1	14.2
GNH- 4NG	1/4	1/4-19 (228/1)	36.8	11.2	17.8	5.8	19.05
GNH- 6NG	3/8	3/8-19 (228/1)	37.6	11.2	21.8	7.9	22.2
GNH- 8NG	1/2	1/2-14 (228/1)	45.0	14.2	26.1	11.9	26.9
GNH-12NG	3/4	3/4-14 (228/1)	49.0	15.7	31.5	15.7	33.3
GNH-16NG	1	1-11 (228/1)	56.9	18.3	38.9	19.8	41

## HEX LONG NIPPLE - GNL

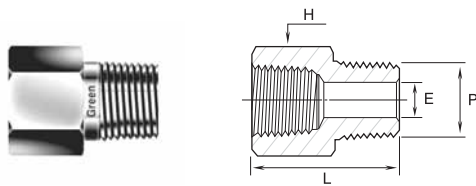
Male NPT both ends



Basic Part Number	P Pipe Size	L	E	H Hex
GNL- 2N	1/8	★	4.8	11.1
GNL- 4N	1/4	★	7.1	14.2
GNL- 6N	3/8	★	9.7	17.4
GNL- 8N	1/2	★	11.9	22.2
GNL-12N	3/4	★	15.7	26.9
GNL-16N	1	★	22.4	34.9

## ADAPTER - GAAMF

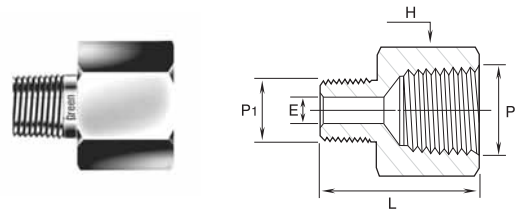
Female NPT to male NPT



Basic Part Number	P Pipe Size	L	E	H Hex
GAAMF- 2N	1/8	27.94	4.8	14.2
GAAMF- 4N	1/4	35.56	7.1	19.05
GAAMF- 6N	3/8	38.35	9.6	22.2
GAAMF- 8N	1/2	49.27	11.9	26.9
GAAMF-12N	3/4	51.3	15.7	33.3
GAAMF-16N	1	57.91	22.3	41.2

## REDUCING ADAPTER - GABMF

Female NPT to reduced male NPT

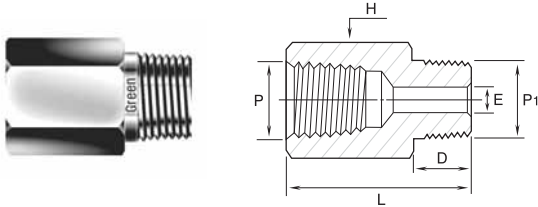


Basic Part Number	P1 Male Pipe Size	P Female Pipe Size	L	E	H Hex
GABMF 2- 4N	1/8	1/4	31.5	4.8	19.05
GABMF 2- 6N	1/8	3/8	33.5	4.8	22.2
GABMF 4- 6N	1/4	3/8	37.8	7.1	22.2
GABMF 2- 8N	1/8	1/2	40.0	4.8	26.9
GABMF 4- 8N	1/4	1/2	44.5	7.1	26.9
GABMF 6- 8N	3/8	1/2	44.5	9.6	26.9
GABMF 4-12N	1/4	3/4	45.7	7.1	33.3
GABMF 6-12N	3/8	3/4	45.7	9.6	33.3
GABMF 8-12N	1/2	3/4	51.1	11.9	33.3
GABMF 4-16N	1/4	1	50.8	7.1	41.2
GABMF 8-16N	1/2	1	54.9	11.9	41.2
GABMF 12-16N	3/4	1	55.1	15.7	41.2
<b>10 000 psig REDUCING ADAPTER</b>					
GABMF2-4N-10K-S	1/8	1/4	32.2	3.2	25.4
GABMF2-6N-10K-S	1/8	3/8	34.2	3.2	31.75
GABMF4-6N-10K-S	1/4	3/8	38.5	5.8	31.75
GABMF6-8N-10K-S	3/8	1/2	46.0	7.1	38.1

# Green Thread Fittings

## ADAPTER - GACMF

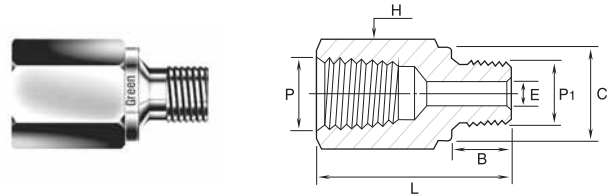
Female NPT to male ISO tapered



Basic Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	L	D	E	H Hex
GACMF- 2RN	1/8	1/8-28(7/1)	27.4	9.7	4.8	14.2
GACMF- 4RN	1/4	1/4-19(7/1)	35.8	14.2	7.1	19.05
GACMF- 6RN	3/8	3/8-19(7/1)	37.6	14.2	9.7	22.2
GACMF- 8RN	1/2	1/2-14(7/1)	49.0	19.1	11.9	26.9
GACMF-12RN	3/4	3/4-14(7/1)	50.3	19.1	15.7	33.3
GACMF-16RN	1	1-11(7/1)	58.0	23.9	22.3	41.2

## ADAPTER - GADMF

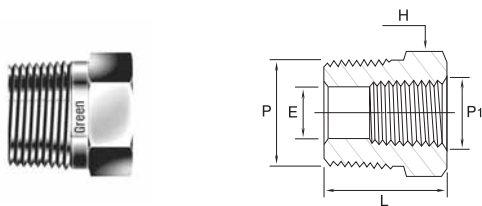
Female NPT to male ISO parallel



Basic Part Number	P NPT Thread Size	P1 BSP/ISO Thread Size	L	B	C	E	H Hex
GADMF- 2GN	1/8	1/8-28 (228/1)	24.9	7.1	13.7	4.1	14.2
GADMF- 4GN	1/4	1/4-19 (228/1)	33.3	11.2	17.8	5.8	19.05
GADMF- 6GN	3/8	3/8-19 (228/1)	37.8	11.2	21.8	7.9	22.2
GADMF- 8GN	1/2	1/2-14 (228/1)	43.9	14.2	26.1	11.9	26.9
GADMF-12GN	3/4	3/4-14 (228/1)	50.8	15.7	31.5	15.7	33.3
GADMF-16GN	1	1-11 (228/1)	53.1	18.3	38.9	19.8	41.2

## REDUCING HEX BUSHING - GHB

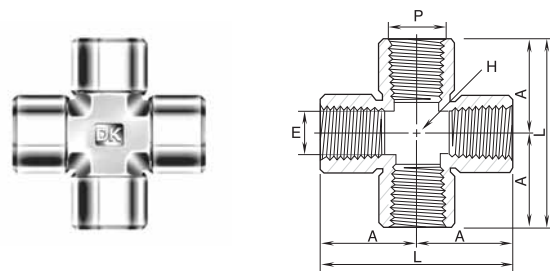
Male NPT to reduced female NPT



Basic Part Number	P Male Pipe Size	P1 Female Pipe Size	L	E	H Hex	Working Pressure bar (psig)	
						SS316,C.Steel	Brass
GHB 4- 2N	1/4	1/8	26.7	7.1	14.2	447 (6400)	227(3200)
GHB 6- 2N	3/8	1/8	21.8	8.5	17.4	633(9100)	323(4600)
GHB 6- 4N	3/8	1/4	30.0	9.6	19.05	454(6500)	227(3200)
GHB 8- 2N	1/2	1/8	27.4	8.5	22.2	840(12100)	427(6100)
GHB 8- 4N	1/2	1/4	27.4	11.7	22.2	571(8200)	303(4300)
GHB 8- 6N	1/2	3/8	35.6	11.9	22.2	365(5200)	179(2500)
GHB12- 4N	3/4	1/4	27.4	11.4	26.9	826(11900)	413(5900)
GHB12- 6N	3/4	3/8	27.4	15.0	26.9	564(8100)	296(4200)
GHB12- 8N	3/4	1/2	41.4	15.7	26.9	337(4800)	165(2300)
GHB16- 4N	1	1/4	34.8	11.4	34.9	999(14400)	509(7300)
GHB16- 8N	1	1/2	34.8	18.5	34.9	592(8500)	296(4200)
GHB16-12N	1	3/4	34.8	22.4	34.9	365(5200)	179(2500)

## CROSS - GX

Female NPT

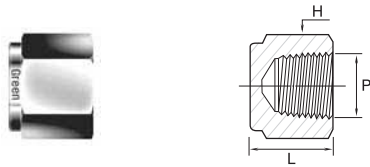


Basic Part Number	P Thread Size	L	A	E	H Wrench Flat
GX- 2N	1/8	48.2	24.1	8.6	12.7
GX- 4N	1/4	58.0	29.0	11.4	17.5
GX- 6N	3/8	69.0	34.5	15.0	20.6
GX- 8N	1/2	74.0	37.0	18.5	25.4
GX-12N	3/4	93.0	46.5	23.9	31.8
GX-16N	1	97.6	48.8	29.7	42.9

# Green Thread Fittings

## PIPE CAP - GC

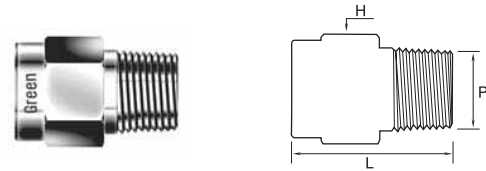
Female NPT



Basic Part Number	P Pipe Size	L	H Hex
GC- 2N	1/8	19.1	14.2
GC- 4N	1/4	22.9	19.05
GC- 6N	3/8	26.2	22.2
GC- 8N	1/2	34.0	26.9
GC-12N	3/4	36.6	33.3
GC-16N	1	41.1	41.2

## PIPE PLUG - GP

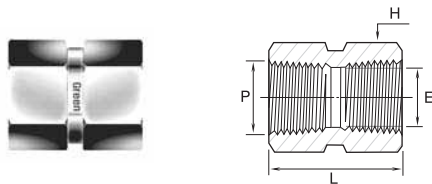
Male NPT



Basic Part Number	P Pipe Size	L	H Hex
GP- 2N	1/8	19.05	11.1
GP- 4N	1/4	24.1	14.2
GP- 6N	3/8	25	17.4
GP- 8N	1/2	30.5	22.2
GP-12N	3/4	30.5	26.9
GP-16N	1	38.1	34.9

## HEX COUPLING - GCG

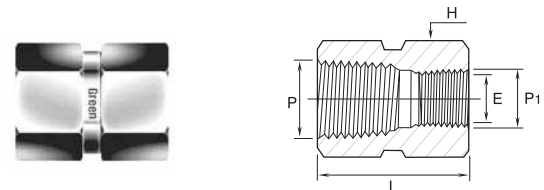
Female NPT both ends



Basic Part Number	P Pipe Size	L	E	H Hex
GCG- 2N	1/8	20.57	8.9	14.2
GCG- 4N	1/4	30.22	11.7	19.05
GCG- 6N	3/8	33.27	15.0	22.2
GCG- 8N	1/2	39.62	18.7	26.9
GCG-12N	3/4	41.14	23.5	33.3
GCG-16N	1	50.8	29.7	41.2
<b>10 000 psig HEX COUPLING</b>				
GCG-2N-10K-S	1/8	20.57	8.74	20.64
GCG-4N-10K-S	1/4	30.22	11.47	25.40

## HEX REDUCING COUPLING - GCGR

Female NPT to reduced female NPT

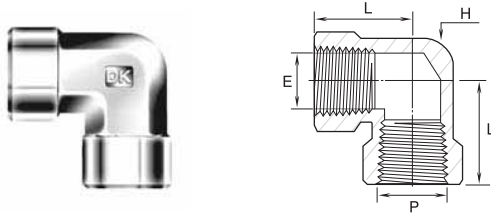


Basic Part Number	P Pipe Size	P1 Reduced Pipe Size	L	E	H Hex
GCGR 4- 2N	1/4	1/8	31.2	8.9	19.05
GCGR 6- 4N	3/8	1/4	34.8	11.7	22.2
GCGR 8- 2N	1/2	1/8	39.4	8.7	26.9
GCGR 8- 4N	1/2	1/4	44.2	11.7	26.9
GCGR 8- 6N	1/2	3/8	45.0	15.0	26.9
GCGR 12- 4N	3/4	1/4	45.7	11.7	33.3
GCGR 12- 8N	3/4	1/2	52.0	18.7	33.3
GCGR 16- 4N	1	1/4	50.8	11.7	41.2
GCGR 16- 8N	1	1/2	55.4	18.7	41.2
GCGR 16-12N	1	3/4	57.0	23.5	41.2

# Green Thread Fittings

## ELBOW - GL

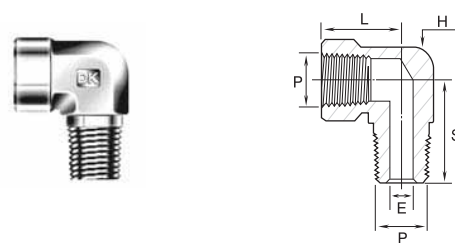
Female NPT both ends



Basic Part Number	P Pipe Size	L	E	H Wrench Flat
GL- 2N	1/8	24.1	8.9	12.7
GL- 4N	1/4	29.0	11.7	17.5
GL- 6N	3/8	34.5	15.0	20.6
GL- 8N	1/2	37.0	18.7	25.4
GL-12N	3/4	46.5	23.5	31.8
GL-16N	1	48.8	29.7	42.9

## STREET ELBOW - GLS

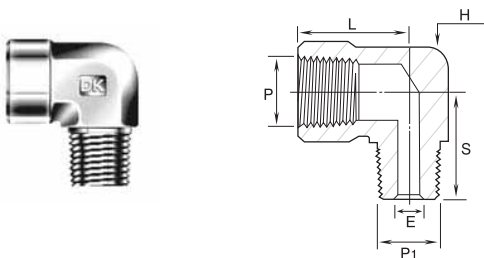
Female to male NPT



Basic Part Number	P Pipe Size	L	S	E	H Wrench Flat
GLS- 2N	1/8	24.1	19.6	4.8	12.7
GLS- 4N	1/4	29.0	26.5	7.1	17.5
GLS- 6N	3/8	34.5	28.2	9.6	20.6
GLS- 8N	1/2	37.0	35.3	11.9	25.4
GLS-12N	3/4	46.5	39.6	15.7	31.8
GLS-16N	1	48.8	49.2	22.3	42.9

## REDUCING STREET ELBOW - GLSR

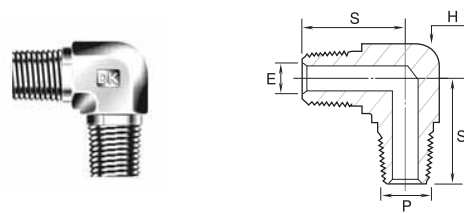
Female to male NPT



Basic Part Number	P Pipe Size	P1 Male Pipe Size	L	S	E	H Wrench Flat
GLSR 4-2N	1/4	1/8	29.0	22.4	4.8	17.5
GLSR 6-4N	3/8	1/4	34.5	28.2	7.1	20.6
GLSR 8-4N	1/2	1/4	37.0	30.5	7.1	25.4
GLSR 8-6N	1/2	3/8	37.0	30.5	9.6	25.4
GLSR12-8N	3/4	1/2	46.5	41.6	11.9	31.8
GLSR16-8N	1	1/2	48.8	45.5	11.9	42.9

## MALE ELBOW - GLM

Male NPT both ends

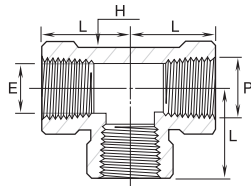


Basic Part Number	P Pipe Size	S	E	H Wrench Flat
GLM - 2N	1/8	19.05	4.8	12.7
GLM - 4N	1/4	24.5	7.1	12.7
GLM - 6N	3/8	26.9	9.6	17.5
GLM - 8N	1/2	33.2	11.9	20.6
GLM - 12N	3/4	35.3	15.7	25.4
GLM - 16N	1	44.5	22.3	31.8

# Green Thread Fittings

## TEE - GT

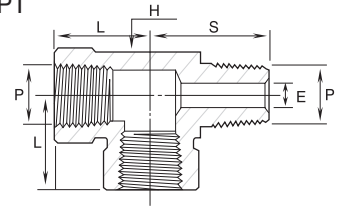
Female NPT



Basic Part Number	P Pipe Size	L	E	H Wrench Flat
GT- 2N	1/8	24.1	8.9	12.7
GT- 4N	1/4	29.0	11.7	17.5
GT- 6N	3/8	34.5	15.0	20.6
GT- 8N	1/2	37.0	18.7	25.4
GT-12N	3/4	46.5	23.5	31.8
GT-16N	1	48.8	29.7	42.9
<b>10 000 psig TEE</b>				
GT-4N-10K-S	1/4	37.0	11.47	25.4

## RUN TEE - GTR

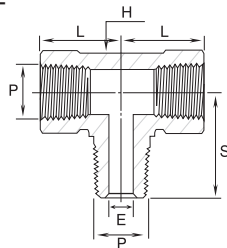
Female to male to female NPT



Basic Part Number	P Pipe Size	L	S	E	H Wrench Flat
GTR- 2N	1/8	24.1	19.6	4.8	12.7
GTR- 4N	1/4	29.0	26.5	7.1	17.5
GTR- 6N	3/8	34.5	28.2	9.6	20.6
GTR- 8N	1/2	37.0	35.3	11.9	25.4
GTR-12N	3/4	46.5	39.6	15.7	31.8
GTR-16N	1	48.8	49.2	22.3	42.9

## BRANCH TEE - GTB

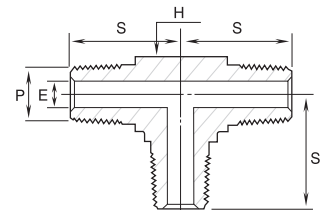
Female to female to male NPT



Basic Part Number	P Pipe Size	L	S	E	H Wrench Flat
GTB- 2N	1/8	24.1	19.6	4.8	12.7
GTB- 4N	1/4	29.0	26.5	7.1	17.5
GTB- 6N	3/8	34.5	28.2	9.6	20.6
GTB- 8N	1/2	37.0	35.3	11.9	25.4
GTB-12N	3/4	46.5	39.6	15.7	31.8
GTB-16N	1	48.8	49.2	22.3	42.9

## MALE TEE - GTM

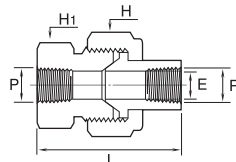
Male NPT



Basic Part Number	P Pipe Size	S	E	H Wrench Flat
GTM- 2N	1/8	19.05	4.8	12.7
GTM- 4N	1/4	24.5	7.1	12.7
GTM- 6N	3/8	26.9	9.6	17.5
GTM- 8N	1/2	33.2	11.9	20.6
GTM-12N	3/4	35.3	15.7	25.4
GTM-16N	1	44.5	22.3	31.8

## UNION BALL JOINT - GJU

Female NPT both ends



Basic Part Number	P Pipe Size	L	S	H Hex	H1 Wrench Flat
GJU- 2N	1/8	45.7	6.9	28.6	23.8
GJU- 4N	1/4	59.4	9.1	34.9	30.2
GJU- 6N	3/8	63.5	13.2	38.1	33.3
GJU- 8N	1/2	68.6	15.7	44.5	41.3
GJU-12N	3/4	79.2	22.4	50.8	47.6
GJU-16N	1	90.4	26.2	63.5	60.3

## ISO PARALLEL COPPER GASKET - DGC

Male NPT

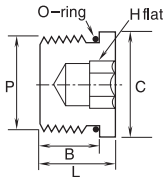


Basic Part Number	P Pipe Size	E	H	D
DGC- 2	1/8	10.0	2.0	18.0
DGC- 4	1/4	14.0	2.0	22.0
DGC- 6	3/8	17.0	2.0	26.0
DGC- 8	1/2	22.0	2.0	32.0
DGC-12	3/4	27.0	2.0	38.0
DGC-16	1	34.0	2.0	42.0

# Green Thread Fittings

## HOLLOW HEX PLUG - GPA

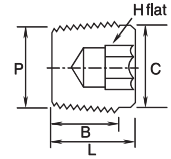
Male SAE/MS Straight Thread



Basic Part Number	P SAE/MS Thread Size	L	B	C	H	Uniform O-ring Size
GPA- 4U	7/16-20	11.4	9.1	14.2	4.76	-904
GPA- 6U	9/16-18	12.2	9.9	17.5	6.35	-906
GPA- 8U	3/4-16	14.2	11.2	22.4	7.93	-908
GPA-12U	1 1/16-12	19.1	15.0	31.8	14.28	-912
GPA-16U	1 5/16-12	19.1	15.0	38.1	15.87	-916

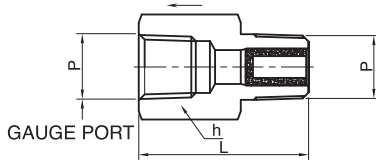
## HOLLOW HEX PLUG - GPB

Male NPT



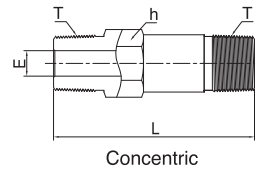
Basic Part Number	P NPT Thread Size	L	B	C	H
GPB - 2N	1/8	10.4	7.4	9.4	4.76
GPB - 4N	1/4	15.5	12.4	12.1	6.35
GPB - 6N	3/8	15.0	11.9	15.7	7.93
GPB - 8N	1/2	19.3	16.2	19.3	9.52

## SNUBBER FITTING - GS

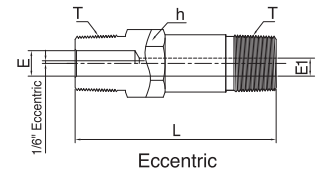


Basic Part Number	P NPT Thread Size	L	h	Working Pressure at 20°C (70°F) bar(psig)	
				SS316	Brass
GS-MF-4N-05*	1/4	35.6	3/4	303(4400)	151(2200)
GS-MF-8N-05*	1/2	49.3	1 1/16	337 (4900)	165(2400)
Element Designator*	Pore Size Range, μm	Element Porosity	CV Factor		
05	0.5 - 2	17%	0.046		
2	1 - 4	22%	0.056		
7	5 - 10	27%	0.12		
15	11 - 25	36%	0.13		
60	50 - 75	44%	0.38		
90	75 - 110	45%	0.50		

## PIPE NIPPLE G56 (For Manifold Oval Flange)



Concentric



Eccentric

Basic Part Number	TYPE	T NPT Thread Size	E	E1	h	L
G56NC-8N-S	Concentric	1/2	9.65	-	15/16 (23.81)	76.2 (3.0)
G56NE-8N-S	Eccentric	1/2	9.65	8.4	7/8 (22.22)	76.2 (3.0)

# Green Weld Fittings®



Green weld fittings are designed in accordance with ASME B16.11 and provide tube socket welding, pipe socket welding, tube butt welding, and pipe butt welding connections.

## Features

All green weld tube socket ports have a tapered sizing angle at the end that holds tubing properly and provides approx. 1.5mm(0.08") welding gap recommended by ASME B16.11. This feature allows consistent welding assembly as well as pre-assembly of many tubing runs before welding.

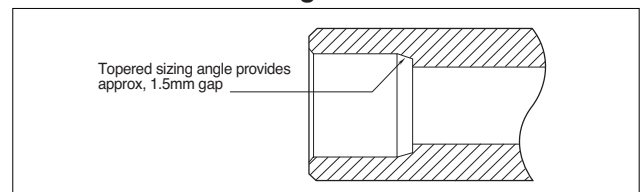
## Technical information

Use like tubing and fitting material. This will ensure the same coefficient of expansion & reduction in the thermal cycle and the same corrosion resistance.

Standard fitting material is Stainless steel ASTM A276 type 316 or JIS G4303 or equivalent made from bar stock and ASTM A182 F316 or JIS G3214 or equivalent from forging.

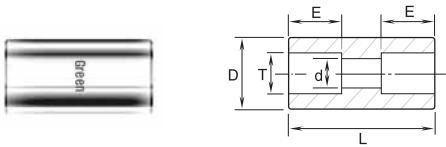
Pressure ratings shown in the dimensional data chart are calculated in accordance with ASME B31.1 with safety factor = 4 for Stainless steel 316.

## Tube socket weld fitting



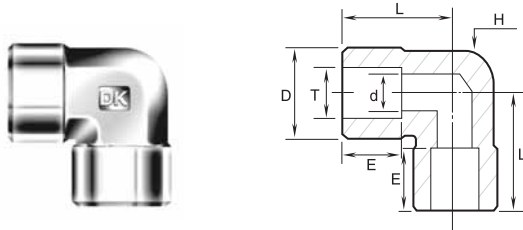


## UNION - GUSW



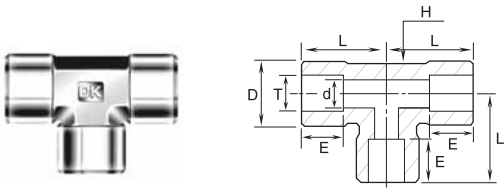
Basic Part Number	T Tube O.D.	d	D	E	L	Working Pressure psig	bar
GUSW- 4T	1/4	4.6	13.0	7.1	19.0	10,000	689
GUSW- 6T	3/8	7.1	15.8	7.9	22.4	7,600	523
GUSW- 8T	1/2	10.2	19.0	9.7	26.9	6,200	427
GUSW-10T	5/8	12.7	24.0	10.4	30.2	6,400	440
GUSW-12T	3/4	15.7	26.9	11.2	33.3	5,500	378
GUSW-16T	1	22.1	35.0	15.7	36.6	5,200	358

## UNION ELBOW - GLSW



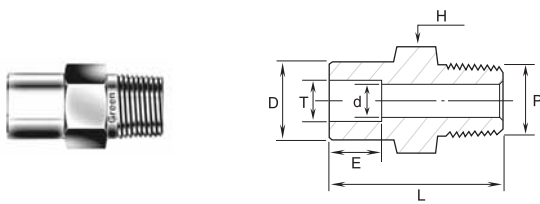
Basic Part Number	T Tube O.D.	d	D	E	H Wrench Flat	L	Working Pressure psig	bar
GLSW- 4T	1/4	4.6	13.4	7.1	12.7	21.8	11,300	778
GLSW- 6T	3/8	7.1	15.8	7.9	12.7	24.5	8,400	578
GLSW- 8T	1/2	10.2	20.6	9.7	17.4	29.0	7,800	537
GLSW-10T	5/8	12.7	23.8	10.4	20.6	34.5	6,700	461
GLSW-12T	3/4	15.7	28.6	11.2	25.4	37.0	6,700	461
GLSW-16T	1	22.1	35.0	15.7	31.8	46.5	5,800	400

## UNION TEE - GTSW



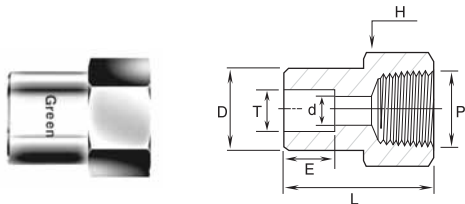
Basic Part Number	T Tube O.D.	d	D	E	H Wrench Flat	L	Working Pressure psig	bar
GTSW- 2T	1/8	2.3	13.4	2.5	12.7	15.0	11,800	813
GTSW- 4T	1/4	4.6	13.4	7.1	12.7	21.8	11,300	778
GTSW- 6T	3/8	7.1	15.8	7.9	12.7	24.0	8,400	578
GTSW- 8T	1/2	10.2	20.6	9.7	17.4	29.0	7,800	537
GTSW-10T	5/8	12.7	23.8	10.4	20.6	34.5	6,700	461
GTSW-12T	3/4	15.7	28.6	11.2	25.4	37.0	6,700	461
GTSW-16T	1	22.1	35.0	15.7	31.8	46.5	5,800	400

## MALE CONNECTOR - GCMSW



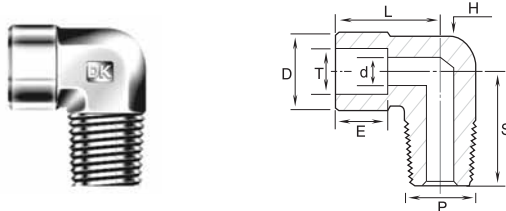
Basic Part Number	T Tube O.D.	P-NPT Male Pipe Size	d	D	E	H Hex	L	Working Pressure psig	bar
GCMSW4T- 4N	1/4	1/4	4.6	12.2	7.1	14.2	29.2	7,500	516
GCMSW6T- 4N	3/8	1/4	7.1	15.3	7.9	15.8	31.8	7,500	516
GCMSW6T- 6N	3/8	3/8	7.1	15.3	7.9	17.4	31.8	7,300	502
GCMSW6T- 8N	3/8	1/2	7.1	15.3	7.9	22.2	37.8	7,200	496
GCMSW8T- 4N	1/2	1/4	7.1	18.5	9.7	19.05	33.3	6,200	427
GCMSW8T- 6N	1/2	3/8	9.4	18.5	9.7	19.05	33.3	6,200	427
GCMSW8T- 8N	1/2	1/2	10.2	18.5	9.7	22.2	38.9	6,200	427

## FEMALE CONNECTOR - GCFSW



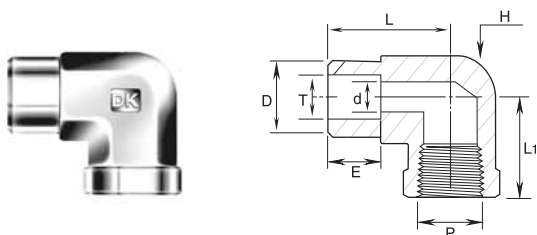
Basic Part Number	T Tube O.D.	P-NPT Female Pipe Size	d	D	E	H Hex	L	Working Pressure psig	bar
GCFSW 2T- 2N	1/8	1/8	2.3	7.4	2.5	14.2	21.1	6,100	420
GCFSW 4T- 2N	1/4	1/8	4.6	12.2	7.1	14.2	26.7	6,100	420
GCFSW 4T- 4N	1/4	1/4	4.6	12.2	7.1	19.05	30.0	6,200	427
GCFSW 6T- 4N	3/8	1/4	7.1	15.3	7.9	19.05	31.5	6,200	427
GCFSW 8T- 6N	1/2	3/8	10.2	18.5	9.7	22.2	34.5	5,000	344
GCFSW 8T- 8N	1/2	1/2	10.2	18.5	9.7	26.9	40.4	4,600	316
GCFSW10T- 8N	5/8	1/2	12.7	23.4	10.4	26.9	41.9	4,600	316
GCFSW12T-12N	3/4	3/4	15.7	26.7	11.2	33.3	43.9	4,300	296

## MALE ELBOW - GLMSW



Basic Part Number	T Tube O.D.	P-NPT Male Pipe Size	d	D	E	H Wrench Flat	L	S	Working Pressure psig	bar
GLMSW 4T- 4N	1/4	1/4	4.6	15.8	7.1	12.7	20.1	24.5	7,500	516
GLMSW 6T- 4N	3/8	1/4	7.1	15.8	7.9	12.7	24.1	24.5	7,500	516
GLMSW 6T- 6N	3/8	3/8	7.1	20.6	7.9	17.4	24.6	29.0	7,300	502
GLMSW 6T- 8N	3/8	1/2	7.1	23.8	7.9	20.6	25.9	34.5	7,200	496
GLMSW 8T- 8N	1/2	1/2	10.2	23.8	9.7	20.6	27.4	34.5	6,200	427
GLMSW12T-12N	3/4	3/4	15.7	28.6	11.2	25.4	37.0	37.0	6,700	461

## FEMALE ELBOW - GLFSW



Basic Part Number	T Tube O.D	P-NPT Female Pipe Size	d	D	E	H Wrench Flat	L	L1	Working Pressure psig bar
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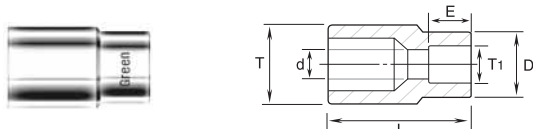
GLFSW4T-4N 1/4 1/4 4.6 12.2 7.1 17.4 22.9 29.7 6,200 427

GLFSW6T-4N 3/8 1/4 7.1 15.3 7.9 17.4 25.1 29.7 7,000 482

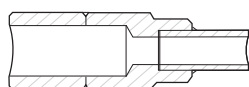
GLFSW6T-8N 3/8 1/2 7.1 15.3 7.9 25.4 28.7 37.0 5,400 372

GLFSW8T-8N 1/2 1/2 10.2 18.5 9.7 25.4 30.2 37.0 5,400 372

## TUBE TO TUBE SOCKET WELD - GUTWSW



Tube to Tube



Basic Part Number	T Tube O.D	T1 Tube Socket O.D	d	D	E	L	Working Pressure psig bar
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GUTWSW 4T-2T 1/4 1/8 2.3 7.4 2.5 14.2 11,800 813

GUTWSW 6T-4T 3/8 1/4 4.6 12.2 7.1 19.1 7,700 530

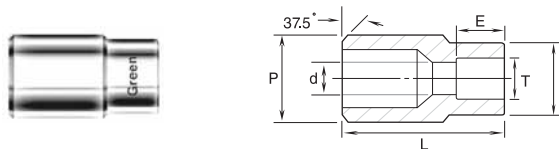
GUTWSW 8T-4T 1/2 1/4 4.6 12.7 7.1 22.4 7,000 482

GUTWSW 8T-6T 1/2 3/8 8.1 15.7 7.9 22.4 7,000 482

GUTWSW 12T-8T 3/4 1/2 10.2 18.5 9.7 28.4 5,900 406

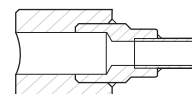
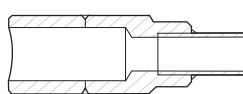
GUTWSW 16T-8T 1 1/2 10.2 18.5 9.7 35.1 5,600 344

## PIPE TO TUBE SOCKET WELD - GUWSW



Pipe to Tube

Pipe to Tube



Basic Part Number	P Pipe Size	T Tube Socket O.D	d	D	E	L	Working Pressure psig bar
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GUWSW4P-4T 1/4 1/4 4.6 13.7 7.1 22.4 9,600 661

GUWSW6P-6T 3/8 3/8 7.1 15.3 7.9 26.2 7,600 523

GUWSW6P-8T 3/8 1/2 10.2 18.5 9.7 27.9 6,200 427

GUWSW8P-4T 1/2 1/4 4.6 12.2 7.1 28.4 7,300 502

GUWSW8P-6T 1/2 3/8 7.1 15.3 7.9 28.4 7,300 502

GUWSW8P-8T 1/2 1/2 10.2 18.5 9.7 30.2 6,200 427

GUWSW12P-6T 3/4 3/8 7.1 15.3 7.9 38.1 6,200 427

GUWSW12P-8T 3/4 1/2 10.2 18.5 9.7 38.1 6,200 427

### SAFE COMPONENT SELECTION

The selection of component for any applications or system design must be considered to ensure safe performance. Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK Tech accepts no liability for any improper selection, installation, operation or maintenance.

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All the dimensions shown in this catalog are not for design purpose, but for reference only and the accuracy of information here is not the liability of our company.

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