

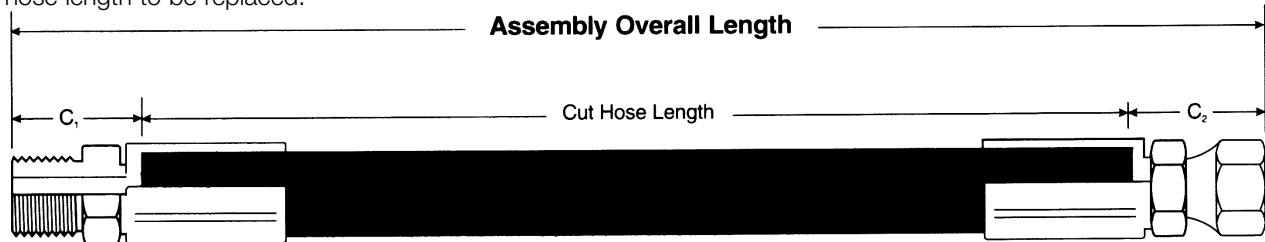
Hose & Coupling Selection

How to Make Hose Assemblies of Specific Lengths

Select the hose and couplings required to make the desired hydraulic assembly. Measure the entire length of the assembly. Then use the formula below to calculate the required hose cut length for the assembly.

Hose Cut Length = Assembly Overall Length Minus C1 Minus C2

Cut-off value "C" is the length of that part of the coupling not directly in contact with or applied to the hose. Therefore, subtract the two "C" values from the total length of the assembly and you will have the approximate hose length to be replaced.



$$\text{Hose Length} = \text{Assembly Overall Length} \text{ Minus } (C_1 + C_2)$$

Example: Total assembly overall length = 12.5"

(Assembly consists of 3/8" G1 hose with 1/2" Male Pipe (6G-8MP) and 3/8" Female JIC (6G-6FJX) terminations)

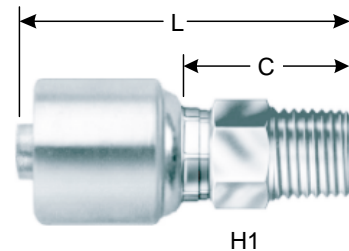
$$\text{Assembly Overall Length} - C_1 - C_2 = \text{Hose Cut Length}$$

$$12.5" - 1.36" - 1.19" = 9.95" (+/- 3/16" \text{ tolerance})$$

Note the "cut-off" measurement "C" for each of the couplings as listed in the specifications tables.

Male Pipe (NPTF - 30° Cone Seat)

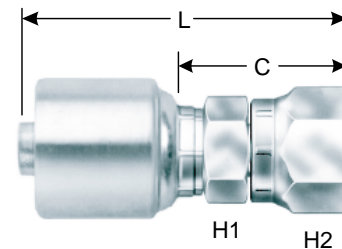
Desc	#	⊕	🌀	H1 (In.)	L (In.)	C (In.)	
4G-2MP	G25100-0402	7100-10025	1/4	1/8—27	1/2	1.97	0.94
4G-4MP	G25100-0404	7100-10032	1/4	1/4—18	9/16	2.07	1.04
4G-6MP	G25100-0406	7100-10045	1/4	3/8—18	11/16	2.13	1.10
4G-8MP	G25100-0408	7100-10055	1/4	1/2—14	7/8	2.40	1.38
5G-4MP	G25100-0504	7100-00065	5/16	1/4—18	5/8	2.28	1.18
6G-4MP	G25100-0604	7100-10075	3/8	1/4—18	5/8	2.28	1.19
6G-6MP	G25100-0606	7100-10085	3/8	3/8—18	11/16	2.19	1.09
6G-8MP	G25100-0608	7100-10095	3/8	1/2—14	7/8	2.46	1.36
8G-6MP	G25100-0806	7100-00105	1/2	3/8—18	13/16	2.60	1.12



H1

Female JIC 37° Flare Swivel

Desc	#	⊕	🌀	H1 (In.)	H2 (In.)	L (In.)	C (In.)	
4G-4FJX	G25170-0404	7100-10885	1/4	7/16—20	1/2	9/16	2.10	1.08
4G-5FJX	G25170-0405	7100-10895	1/4	1/2—20	1/2	11/16	2.21	1.19
4G-6FJX	G25170-0406	7100-10905	1/4	9/16—18	9/16	3/4	2.22	1.19
5G-5FJX	G25170-0505	7100-00915	5/16	1/2—20	5/8	11/16	2.23	1.13
5G-6FJX	G25170-0506	7100-00925	5/16	9/16—18	5/8	3/4	2.31	1.21
6G-4FJX	G25170-0604	7100-10925	3/8	7/16—20	5/8	9/16	2.30	1.20
6G-5FJX	G25170-0605	7100-10935	3/8	1/2—20	5/8	11/16	2.23	1.13
6G-6FJX	G25170-0606	7100-10945	3/8	9/16—18	5/8	3/4	2.31	1.19
6G-8FJX	G25170-0608	7100-10955	3/8	3/4—16	11/16	7/8	2.48	1.38



H1

H2

SAE Length Tolerances for Hydraulic Hose Assemblies and Specified Hose Lengths

(Reprinted from National Hose Assemblies Manufacturers Association NHAM-STD-2)

Length

For cut lengths from 0 up to and including 12"
 For cut lengths above 12" up to and including 18"
 For cut lengths above 18" up to and including 36"
 For cut lengths above 36"

Tolerance

± 1/8"
 ± 3/16"
 ± 1/4"
 + 1% of length measured to the nearest 1/8"