

Hose Stub Design Recommendation

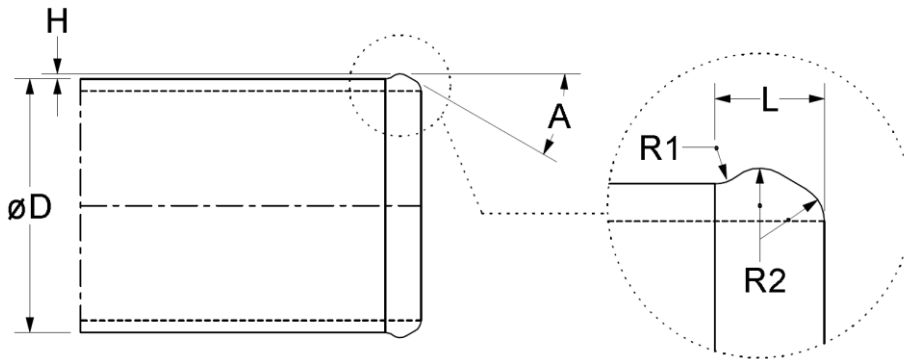
When designing a hose, it is important that the pipe work is matched to the hose being fitted. Ideally the diameter of the pipe should be the same as the inner bore of the hose to form an interference fit.

It is possible to use a hose that is undersized to give an even tighter fit but in this instance it is important that the pipework is designed to accommodate this. We would not recommend making the nominal hose bore diameter any less than 1mm below the diameter of the nominal pipe work. Forcing the hose on to pipe work that is too large can lead to stress and damage in some instances and the potential for hoses to not fit correctly due to the natural variation in our hand-crafted hoses.

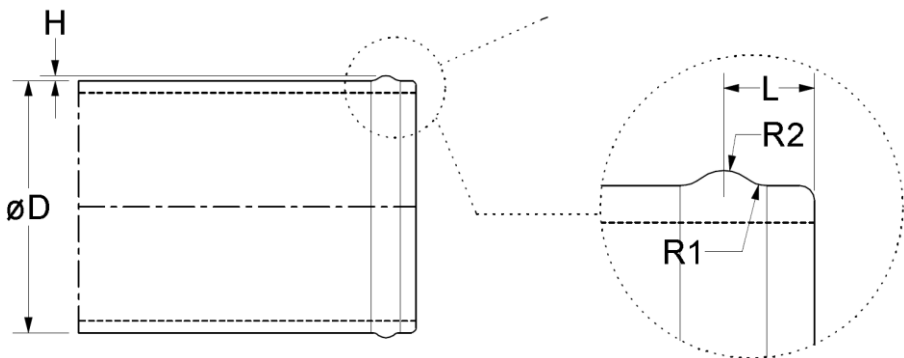
Therefore, Silflex Recommends that the pipe work is designed as follows:

1. Hoses with a Nominal Diameter up to 1mm less than Nominal Stub O.D.

1a. Type A



1b. Type B

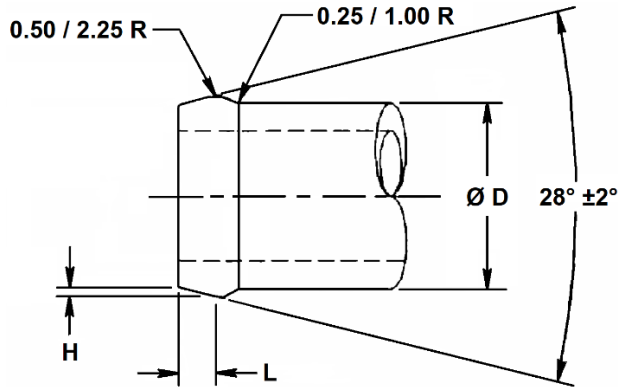


1c. Table of Dimensions

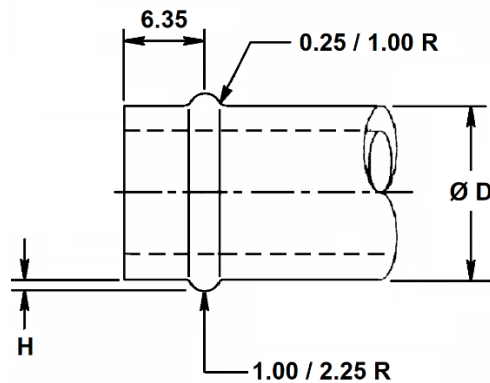
$\varnothing D$ (mm)	L (mm)	H (mm)	R1 (mm)	R2 (mm)	A (°)
From 6 to 19	5	0.40	2	1.8	15°
From 20 to 29	6	0.60	2	2.0	20°
From 30 to 39	6.5	0.80	2	2.2	22°
From 40 to 89	7	1.00	2.2	2.4	30°
From 90 to 119	8	1.00	2.5	2.6	30°

2. Hoses with a Nominal Diameter Equal to the Nominal Stub O.D.

2a. Type 1



2b. Type 2



2c. Table of Dimensions

Ø D (mm)	Ø D (inches)	L (mm)	H (mm)
6.3	1/4"	2.5	0.51
8	5/16"	2.5	0.61
9.5	3/8"	2.5	0.71
11	7/16"	2.5	0.71
12.7	1/2"	3.0	0.76
14	9/16"	3.0	0.76
15.8	5/8"	3.0	0.84
19 - 24	3/4" – 15/16"	3.0	0.89
25 – 30	1" – 1 3/16"	3.0	0.76
31.8 - 37	1 1/4" – 1 7/16"	3.0	1.35
38 - 50	1 1/2" – 1 31/32"	3.0	1.57
50.8 & Above	2" & Above	3.0	1.85

3. References

Type A & B based on Iveco Standard 10-4302, Type 1 & 2 Based on SAE J1231