

Know your adapter sizes, and the corresponding number and letter codes that commonly represent them. North American Fluid Power Thread sizes are measured in 1/16" increments, and are used throughout the industry, and our catalogue.

Hydraulic adapters and malleable iron fittings are identified with number codes representing each size, while brass pipe thread fittings use letter codes to represent each size. Both systems are commonly used throughout the industry.

Nominal Thread Size (Inches)	SAE Number Dash Sizes	NPT Letter Dash Sizes	Fraction Size
0.0625	1		0.0625
0.125	2	A	0.125
0.1875	3		0.1875
0.25	4	B	0.25
0.3125	5		0.3125
0.375	6	C	0.375
0.5	8	D	0.5
0.625	10		0.625
0.75	12	E	0.75
0.875	14		0.875
1	16	F	1
1.25	20	G	1.25
1.5	24	H	1.5
2	32	I	2
2.5	40	J	2.5
3	48	K	3
4	64	L	4

Hydraulic Adapter - Pressure Ratings

SAE J514 Working Pressure Ratings - Capable of 4-1 Minimum burst SAE and NPT Fittings

Note: In the case of a fitting that is a jump size, it is recommended that the lower pressure of the two ends must be recognized as the working pressure rating for that fitting. This is also the case if the fitting has one or more different style ends. For example, straight threads to pipe threads. In this case it is also recommended that the lower pressure rating of the two different style ends must be recognized as the working pressure rating for that fitting.

Nom SAE Dash Size	Nom Tube O.D. in MM	Nom Tube O.D. in Inch	Straight Thread Size	Nom Pipe Size	Rigid SAE St. Thread Unions & Bulkhead MPa	Rigid SAE St. Thread Unions & Bulkhead PSI	Adjustable SAE Std. Thread & Female Swivel MPa	Adjustable SAE Std. Thread & Female Swivel PSI	Fittings with Pipe Thread MPa	Fittings with Pipe Thread PSI	NPSM Std. Pipe Thread Maximum Operating Pressure MPa	NPSM Std. Pipe Thread Maximum Operating Pressure MPA
2	3.18	0.25	5/16 24	1/8	34.5	5,000	34.5	5,000	34.5	5,000	34.5	5,000
3	4.76	0.188	3/8 24	1/8	34.5	5,000	34.5	5,000	34.5	5,000		
4	6.35	0.25	7/16 20	1/8	34.5	5,000	31	4,500	34.5	5,000	34.5	5,000
5	7.94	0.313	1/2 20	1/8	34.5	5,000	27.5	4,000	34.5	5,000		
6	9.52	0.375	9/16 18	1/4	34.5	5,000	27.5	4,000	27.5	4,000	27.5	4,000
8	12.7	0.5	3/4 16	3/8	31	4,500	27.5	4,000	21	3,000	24.1	3,500
10	15.88	0.625	7/8 14	1/2	24	3,500	21	3,000	21	3,000		
12	19.05	0.75	1 1/16 12	3/4	24	3,500	21	3,000	17	2,500	15.5	2,250
14	22.22	0.875	1 3/16 12	3/4	21	3,000	17	2,500	17	2,500		
16	25.4	1	1 5/16 12	1	21	3,000	17	2,500	14	2,000	13.8	2,000
20	31.75	1.25	1 5/8 12	1 1/4	17	2,500	14	2,500	8	1,150	11.2	1,625
24	38.1	1.5	1 7/8 12	1 1/2	14	2,000	10.5	1,500	7	1,000	8.6	1,250
32	50.3	2	2 1/2 12	2	10.5	1,500	8	1,125	7	1,000	7.8	1,125