



Pressure Ratings, Hydraulic Adapters

The flared hydraulic tube fittings represented in 127R A & AD90 catalogs conform to the performance requirements specified in SAE J514, SAE J518, SAE J521, SAE J1231, SAE J1453, SAE J1926, ISO 11926 related standards.

The working pressures listed below are based on a 4:1 safety factor for minimum burst. As specified in SAE J514 and SAE J1453, these are dynamic pressure ratings and the fittings are capable of passing a cyclic endurance test for 1,000,000 cycles at 133% of the corresponding working pressure.

The rated working pressure for any fitting is based on the lowest working pressure rated fitting end.

For example :

(1/4") -4 37 degree tube end rating is 5000 PSI

(3/8") -6 male pipe end rating is 3000 PSI

The rated pressure of this fitting combination is 3000 PSI.

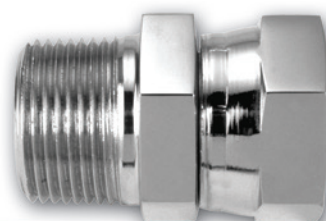
For proper performance, the design of any hydraulic system should take into consideration the rated working pressures for each of the components of the system, including standard ratings for hose and tubing components and assemblies. For any application, sufficient testing should be performed to assure safe and satisfactory performance.

3405

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Pressure Ratings For 37 Degree Flared Tube Ends, Female Swivels, Port Plugs

Dash Size	Tube Size	Flared End	37 Degree Flared Tube Ends, Unions And Bulkheads	37 Degree Flared Female Swivels	Port Plugs	Adjustable Studs
2	1/8	5/16-24 UNF	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
3	3/16	3/8-24 UNF	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
4	1/4	7/16-20 UNF	5,000 PSI	4,500 PSI	5,000 PSI	4,500 PSI
5	5/16	1/2-20 UNF	5,000 PSI	4,000 PSI	5,000 PSI	4,000 PSI
6	3/8	9/16-18 UNF	5,000 PSI	4,000 PSI	5,000 PSI	4,000 PSI
8	1/2	3/4-16 UNF	4,500 PSI	4,000 PSI	4,500 PSI	4,000 PSI
10	5/8	7/8-14 UNF	3,500 PSI	3,000 PSI	3,500 PSI	3,000 PSI
12	3/4	1 1/16-12 UNF	3,500 PSI	3,000 PSI	3,500 PSI	3,000 PSI
14	7/8	1 3/16-12 UNF	3,000 PSI	2,500 PSI	3,000 PSI	2,500 PSI
16	1	1 5/16-12 UNF	3,000 PSI	2,500 PSI	3,000 PSI	2,500 PSI
20	1 1/4	1 5/8-12 UNF	2,500 PSI	2,000 PSI	2,500 PSI	2,000 PSI
24	1 1/2	1 7/8-12 UNF	2,000 PSI	1,500 PSI	2,000 PSI	1,500 PSI
32	2	2 1/2-12 UNF	1,500 PSI	1,125 PSI	1,500 PSI	1,125 PSI

The Pressure in the above chart is working pressure.

Threads per SAE J475 class 2 Ext. 2b (ISO-263/ISO-R725)

Dash Size	Pipe O.D. Size	NPTF End	Fittings NPTF Pipe Threads	Adapter Unions
2	1/8	1/8-27	5,000 PSI	5,000 PSI
4	1/4	1/4-18	4,000 PSI	5,000 PSI
6	3/8	3/8-18	3,000 PSI	4,000 PSI
8	1/2	1/2-14	3,000 PSI	3,500 PSI
12	3/4	3/4-14	2,500 PSI	2,250 PSI
16	1	1-11-1/2	2,000 PSI	2,000 PSI
20	1 1/4	1 -1/4-11-1/2	1,150 PSI	1,625 PSI
24	1 1/2	1 -1/2-11-1/2	1,000 PSI	1,250 PSI
32	2	2-11-1/2	1,000 PSI	1,125 PSI

Dryseal american standard taper pipe thread.

