

REFRIGERATION STEEL FITTINGS

“STEEL 3000 & SCHEDULE 80”

DESCRIPTION

- All these **“NPT” FORGED STEEL FITTINGS & UNIONS** are suitable for:
 - **REFRIGERATION**
 - **AIR-CONDITIONING**
 - **MARINE** and **OIL** industries
- Both threads are Male thread (**MPT**) or Female thread (**FPT**) and are designated as follows:
 - **“NPT”**: *National Pipe Thread according to the US std*
 - **“PIPE”**: *Inexplicit term used sometimes.*
(There is no similarity with “GAS” or “BSP” threads)
- Meanwhile, to define these specific **“NPT”** steel threaded fittings and unions, professional terms normally used are:
 - **“MPT”** = NPT male thread
 - **“FPT”** = NPT female thread
 - **“BUTT WELD”** = To be welded (same Ø of the pipe)
 - **“SW”** = welding of socket weld end

SPECIFICATIONS

- Metal/metal thread contact.
- Leak proof under high pressure.
- All these steel fittings are **“PHOSPHATIZED”**. This process consists of a chemical treatment to protect steel fittings against corrosion and to increase the safety of the installation against leakage.
- Phosphatized fittings offer mechanical advantages and reduce tightening torque for a leak proof installation (by 20%).
- Also, if these steel fittings must often be disassembled and reassembled, there is no risk of seizing.

NORMS

- Dimensions according to
 - ASME - B16.11 - 1991
 - BS3799 - 1974
 - NFE29600 - 1987
- Threads in accordance with NFE03-601 / ASME - B1.20.1 - 1983
- Material in accordance with
 - ASTM A 105
 - ASTM A 106
 - A182 F 304L
 - A182 F 316L

WORKING PRESSURE RATING

°C	°F	bar	psi
-29 to 38	-20 to 100	206,9	3000
66	150	203,4	2950
93	200	201,0	2915
121	250	198,3	2875
149	300	196,2	2845
177	350	193,8	2810
204	400	191,4	2775
232	450	187,2	2715
260	500	179,7	2605
288	550	169,7	2460
316	600	159,3	2310
343	650	148,3	2150
371	700	135,2	1960
399	750	122,4	1775
427	800	105,2	1525
454	850	86,2	1250
482	900	63,8	925
510	950	44,1	640
538	1000	24,1	350

GENERAL PURPOSE

- Multi threading uses and easy and safe assembling for:
- Level liquid Indicators (on piping, in line, receivers, etc...).
 - Steel or brass relief-valve threadings (inlet, outlet, etc...).
 - Level float-switch or level controller assemblies.
 - Gauges, manifolds, service valves, expansion valves, etc...
 - Water solenoid or pressostatic valves, etc...
 - Glycol water pipings and all other refrigeration and air-conditioning systems, etc..

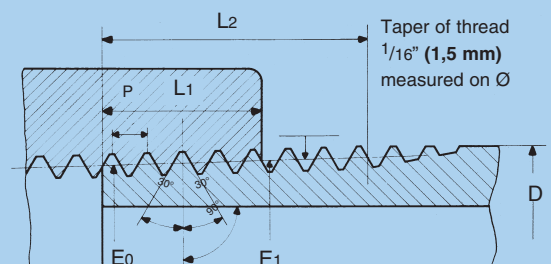
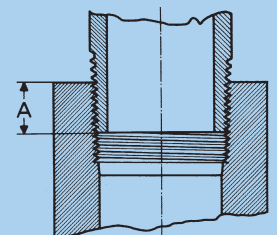
INSTALLATION

- To prevent crackings of the weld (socket-weld ends), it is safer to withdraw the pipe approximately **1,5 mm** (1/16 inch) away from the bottom of the socket.



SCREW ENDS

Normal engagement between male and female threads to make tight joints according to standard **ASA-B. 2-1** or **API Std 5 B.**



REFRIGERATION FITTINGS