



**Technical Description**

- Ground Joint Hose Couplings are all-purpose hose coupling.
- These Couplings are designed for compressed air, steam, or fluid hose service where higher working pressure and increased hose coupling retention are required.
- A hammer type female swivel nut with coarse thread allows for quick attachment to equipment with a metal to metal contact. A spud adapter converts the coupling to pipe thread. The female swivel features a special coarse thread and over-sized hammer lugs that quickly seal the coupling tight against its special polymer seal (similar to a hammer union).
- Threaded spud adapters in male NPT, female NPT or double male wing nut thread allow for versatility in configuring hose systems from tool to compressor, manifold, and piping systems.
- Hammer type female swivel nut is also available in gasket seal version. But not interchangeable with metal to metal sealing hammer union.
- Bolted interlocking clamps secure the ground joint hose coupling shank to heavy wire braid bull air hose, wire braid steam hose, or fluid transfer hose.

**Industries**



**Working Pressure**

up to 500 psi

**Working Temperature**

-250 psi @ 450°F max (Steam)

**Advantages**

- This is integral to the design of the coupling set because it allows the wing nut to be quickly hammered open and closed without thread damage

**Disadvantages**

- Ground Joints are NOT for use with toxic fluids or flammable gases

**Ground Joint hose coupling set includes:**

- Hose Shank (stem)
- Female Hammer Union
- Female NPT Adapter (spud)
- Double Spud
- Wing Nut
- Interlocking bolted hose clamps

**Safety Note**

Worn out couplings should be checked regularly and replace, if necessary. High Pressure saturated steam is a very dangerous commodity to handle, hence hose fitting and clamps shall be from approved manufacturers only.

**Use**

Ground Joint Coupling a threaded fitting to connect two lengths of hoses

**Materials Available**

Malleable Iron, Plated Steel, ASTM A105 (SS 304, SS 316 on Request)

**Ground Joints variants**

- Metal to Metal positive sealing
- Washer as positive sealing

CAD Diagram	SPUD				Male Stem				Ground Joint Stem				Nut			
	A	B	C	D - NPSM Male	A	B-NPT	C	D	A	B	C	D	A	B	C - NPSM	
	inches	mm	mm	mm	inches	mm	inches	mm	mm	mm	mm	mm	mm	mm	mm	inches
	35	15	48	1 1/2	103	3/4	60	20	90	59.5	20	43	58	90	1/2	
	35	15	48	1 1/2	116	1	65	26	81	66	26	43	58	90	1/2	
	50	18	62	2	140	1 1/4	85	33	128	84	33	55	76	107	2	
	52	19	62	2	160	1 1/2	90	40	133	90	38.5	55	76	107	2	
	2	53	22	76	2 1/2	174	2	98	52	135	94	52	66	90	143	1/2
	2 1/2	58	25	102	3 1/2	219	2 1/2	117	65	173	117	64	95	115	171	1/2
	3	62	29	123	4	243	3	127	78	173	118	78	107	133	197	4
	4	78	32	150	5	250	4	132	103	213	146	103	135	242	242	1/2