

WA Technology

Shielding Gas Hose Fittings on US Made and Some Other Welders & Wire Feeders

The Compressed Gas Association (CGA) represents members of the **industrial and medical gases** and **equipment industry** in the **United States and Canada**.

The CGA defined connections for gas hose that use metal to metal seats and had different thread sizes for different gases, Oxygen, Fuel Gas and Inert Gas. For Inert Gas it is called an 032 or commonly a “B” fitting.

Most US Welding Equipment Manufacturers use threaded “B” fittings on welders & wire feeders. Now some overseas products like Harbor Freight Vulcan and Titanium Brand welders also use two piece threaded “B” fittings (pic right.)



We supply a US sourced precision “B” fitting as standard on our fitted **GSS** and when purchasing our patented bulk hose and pairs of separate fittings.

**NOTE: The threaded section is NOT a pipe thread!
DON'T USE TEFLON TAPE!**

A piece could cover seat.



**CGA “B”
Female
032 Fitting**

**Nut Just
Tightens Metal
to Metal Seat**



What If I Have A Hose Barb on My Regulator?



Newer Regulator/Flowgauge on Miller 211 & Hobart Handler



That Hose Barb MUST Remain

A few US made regulators use hose barbs unlike most Victor, Harris or a majority of Miller/Smith that use a female CGA "B" fitting as they use on their welders.

If the barb fitting has an orifice in the fitting, it MUST Remain as it sets flow rate.

Then there are two options to use a:



CGA "B" Female 032 Fitting

SPLICE FITTING



Cut Hose ~2 inches

OR Order an Extra Cost SFIT-4 Adapter with Female "B" to Hose Splice Barb

Have a Miller 211 or Hobart Handler with a hose barb on the flow control?
We have a 4 foot GSS Part # FBS4 with a "B" fitting on the Welder End and Splice Fitting on the Cylinder Hose End that can be ordered.



Don't Have a "B" Fitting on Flowmeter or Welder/Feeder?



Hose barb outputs or none CGA "B" NPT female fittings come on some none US/Canadian made Flowmeters and welders particularly Robot welders that are mostly made overseas. If a flowmeter has a hose barb it usually can be removed as there is not a flow control orifice in those barbs. Flow rate is set by the needle valve.

We have two solutions that can be used for these situations:

1) A Splice Fitting is most common as used with Regular/Flowgauges shown on the previous page , an SFIT-4 Female "B" adapter OR

2) Use a Threaded Adapter. We have an adapter with a CGA "B" female end and a male 1/4 inch NPT pipe thread.

Be sure to check the NPT size and assure it is a US NPT pipe thread.

