



# **SWSI**

**Southern Welding Systems International LLC**

**Welding | Industrial | Safety**

**International Wholesale Distribution**

**Contact us for Pricing:**

**Phone: 281-485-9772 | Fax: 281-485-4386**

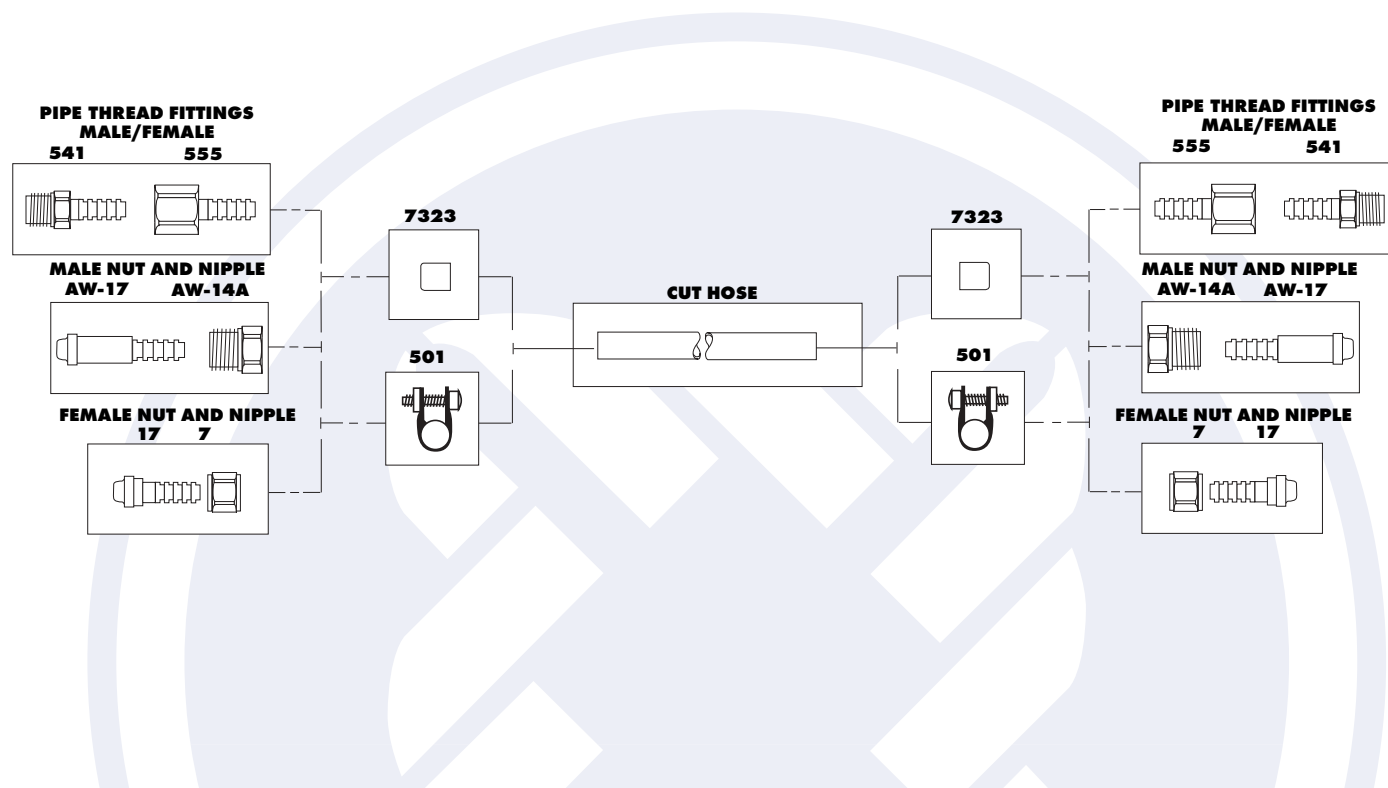
**Email: [Sales@swsintl.com](mailto:Sales@swsintl.com) | Website: [www.swsintl.com](http://www.swsintl.com)**

**Address: 3908 1st Street Pearland, Texas 77581**

## FITTED HOSE ASSEMBLIES

Barbed hose fittings should be fabricated using clamps or crimped ferrules, (see drawing below). Western barbed hose fittings are rated to 200 PSIG maximum working pressure; however, this rating is applicable only to fitted hose assemblies

fabricated as described and shown in the drawing below. Hose repair kits include the tools needed to fabricate and assemble the fittings on the hose.



## COMMON CONVERSIONS USED IN THE COMPRESSED GAS INDUSTRY

### PRESSURE

$$\begin{aligned} \text{PSIG} &= 14.5 \times \text{BAR} \\ \text{Pa} &= 6,894.757 \times \text{PSIG} \\ \text{kPa} &= 6.894757 \times \text{PSIG} \\ \text{PSIG} &= \frac{\text{Pa}}{6894.757} \\ \text{PSIG} &= \frac{\text{kPa}}{6.894757} \end{aligned}$$

### UNITS

**PSIG:** Pounds Per Square Inch Gauge  
**Pa:** Pascal  
**kPa:** 1000 Pascal  
**SCFH:** Standard Cubic Feet per Hour  
**SCFM:** Standard Cubic Feet per Minute  
**LPM:** Liters per Minute

### FLOW

$$\begin{aligned} \text{SCFH} &= 2.118 \times \text{LPM} \\ \text{SCFH} &= 60 \times \text{SCFM} \\ \text{LPM} &= \frac{\text{SCFH}}{2.118} \end{aligned}$$

PART NO.	DESCRIPTION	SIZE	SERVICE	MATERIAL
<b>A-SIZE (3/8"-24 THREAD) * B-SIZE (9/16"-18 THREAD)</b>				
9	Oxygen RH	A-Size	CGA-020	Brass
10	Acetylene/F.Gases LH	A-Size	CGA-021	Brass
7	Oxygen RH	B-Size	CGA-022	Brass
SS-7	Oxygen RH	B-Size	CGA-022	St. Steel
8	Acetylene/F.Gases LH	B-Size	CGA-023	Brass
<b>C-SIZE (7/8"-14 THREAD) * D-SIZE (1 1/4"-12 THREAD)</b>				
C-7	Oxygen RH	C-Size	CGA-024	Brass
C-8	Acetylene/F. Gases LH	C-Size	CGA-025	Brass
D-7	Oxygen RH	D-Size	CGA-026	Brass
D-8	Acetylene/F. Gases LH	D-Size	CGA-027	Brass

**HOSE NUTS**  
Pressures to 200 PSIG (1400 kPa)



PART NO.	DESCRIPTION	SIZE	LENGTH	MATERIAL
<b>BARBED HOSE NIPPLES</b> Pressures to 200 PSIG (1400 kPa)				
<b>A-SIZE (USE 9 or 10 NUT) * B-SIZE (USE 7 or 8 NUT)</b>				
20	3/8" ID Hose	B-Size	1 15/32"	Brass
216	5/16" ID Hose	B-Size	1 15/32"	Brass
17-W*	1/4" ID Hose	B-Size	1 15/32"	Brass
SS-17	1/4" ID Hose	B-Size	1 15/32"	St. Steel
17	1/4" ID Hose	B-Size	1 15/32"	Brass
18	3/16" ID Hose	B-Size	1 15/32"	Brass
19	3/16" ID Hose	A-Size	1 1/4"	Brass
<b>C-SIZE (Use C-7 or C-8 NUT) * D-SIZE (USE D-7 or D-8 NUT)</b>				
D-18	3/4" ID Hose	D-Size	3 1/2"	Brass
D-17	1/2" ID Hose	D-Size	3 3/16"	Brass
C-17	1/2" ID Hose	C-Size	3 3/4"	Brass
C-18	1/2" ID Hose	C-Size	2 1/4"	Brass
C-20	3/8" ID Hose	C-Size	2"	Brass
C-19	1/4" ID Hose	C-Size	1 19/32"	Brass



\*W = With O-Ring

PART NO.	DESCRIPTION	SIZE	LENGTH	MATERIAL
<b>A-SIZE (USE 9 or 10 NUT) * B-SIZE (USE 7 or 8 NUT)</b>				
23	1/8" NPT	B-Size	1 1/2"	Brass
13	3/16" ID Hose	A-Size	1 1/4"	Brass
12	3/16" ID Hose	B-Size	1 13/32"	Brass
11	1/4" ID Hose	B-Size	1 19/32"	Brass
516	5/16" ID Hose	B-Size	1 19/32"	Brass
138	3/8" ID Hose	B-Size	1 5/8"	Brass
<b>C-SIZE (USE C-7 or C-8 NUT) * D-SIZE (USE D-7 or D-8 NUT)</b>				
C-88	1/4" NPT	C-Size	2"	Brass
D-20	1/2" NPT	D-Size	2-1/2"	Brass

**SPIRAL & NPT HOSE NIPPLES**  
Pressures to 200 PSIG (1400 kPa)



<b>REGULATOR OUTLET BUSHINGS (ADAPTORS)</b> Pressures to 200 PSIG (1400 kPa)	PART NO.		DESCRIPTION	MATERIAL
	MALE NPT TO OXYGEN RH * MALE NPT TO ACET./F. GASES LH			
	132		1/8" NPT to A-Size RH	Brass
	133		1/8" NPT to A-Size LH	Brass
	134		1/4" NPT to A-Size RH	Brass
	135		1/4" NPT to A-Size LH	Brass
	136		1/8" NPT to B-Size RH	Brass
	137		1/8" NPT to B-Size LH	Brass
	32		1/4" NPT to B-Size RH	Brass
	SS-32		1/4" NPT to B-Size RH	St. Steel
	33		1/4" NPT to B-Size LH	Brass
	142		3/8" NPT to B-Size RH	Brass
	SS-142		3/8" NPT to B-Size RH	St. Steel
	143		3/8" NPT to B-Size LH	Brass
	144		1/2" NPT to B-Size RH	Brass
	145		1/2" NPT to B-Size LH	Brass
	C-34		1/4" NPT to C-Size RH	Brass
	C-35		1/4" NPT to C-Size LH	Brass
	C-40		3/8" NPT to C-Size RH	Brass
	C-41		3/8" NPT to C-Size LH	Brass
	C-32		1/2" NPT to C-Size RH	Brass
	C-33		1/2" NPT to C-Size LH	Brass
D-34		1/2" NPT to D-Size RH	Brass	
D-35		1/2" NPT to D-Size LH	Brass	
D-32		3/4" NPT to D-Size RH	Brass	
D-33		3/4" NPT to D-Size LH	Brass	

PART NO.	DESCRIPTION	SIZE	<b>HOSE COUPLERS, BRASS</b> Pressures To 200 PSIG (1400 kPa)
<b>A-SIZE: CGA-020 RH &amp; CGA-021 LH * B-SIZE: CGA-022 RH &amp; CGA-023 LH</b>			
130	Oxygen RH, A-Size to A-Size	A-Size	
131	Acet/F. Gases LH, A-Size to A-Size	A-Size	
230	Oxygen RH, A-Size to B-Size	A-Size/B-Size	
231	Acet/F. Gases LH, A-Size to B-Size	A-Size/B-Size	
30	Oxygen RH, B-Size to B-Size	B-Size	
31	Acet/F. Gases LH, B-Size to B-Size	B-Size	
<b>C-SIZE: CGA-024 RH &amp; CGA-025 LH * D-SIZE: CGA-026 RH &amp; CGA-027 LH</b>			
C-30	Oxygen RH, C-Size to C-Size	C-Size	
C-31	Acetylene/F. Gases LH, C-Size to C-Size	C-Size	
D-30	Oxygen RH, D-Size to D-Size	D-Size	
D-31	Acetylene/F. Gases LH, D-Size to D-Size	D-Size	

PART NO.	DESCRIPTION	GAS	
107	90° Male B-Size to Female B-Size, RH	Oxygen	
108	90° Male B-Size to Female B-Size, LH	Acet/F. Gases	
127	45° 1/4" Male NPT to Male B-Size, RH	Oxygen	
128	45° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases	
253	90° 1/4" Male NPT to Male B-Size, RH	Oxygen	
254	90° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	GAS	
123	1/4" Male NPT to Female Swivel B-Size, RH	Oxygen	
124	1/4" Male NPT to Female Swivel B-Size, LH	Acet/F. Gases	
125	1/4" Male NPT to Female Swivel A-Size, RH	Oxygen	
126	1/4" Male NPT to Female Swivel A-Size, LH	Acet/F. Gases	
153	Female Swivel B-Size to 1/4" Male NPT, RH	Oxygen	
154	Female Swivel B-Size to 1/4" Male NPT, LH	Acet/F. Gases	
234	1/4" Female NPT to Female Swivel B-Size, RH	Oxygen	
235	1/4" Female NPT to Female Swivel B-Size, LH	Acet/F. Gases	
244	1/4" Female NPT to Male B-Size, RH	Oxygen	
245	1/4" Female NPT to Male B-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	GAS	
103	Male A-Size to Female B-Size, RH	Oxygen	
104	Male A-Size to Female B-Size, LH	Acet/F. Gases	
105	Male B-Size to Female A-Size, RH	Oxygen	
106	Male B-Size to Female A-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	SIZE	GAS
14-0	Female Swivel to 1/4" ID Hose, RH	A-Size	Oxygen
14	Female Swivel to 1/4" ID Hose, LH	A-Size	Acet/F. Gases
24-0	Female Swivel to 1/4" ID Hose, RH	B-Size	Oxygen
24	Female Swivel to 1/4" ID Hose, LH	B-Size	Acet/F. Gases
PART NO.	DESCRIPTION	GAS	
544	Male 1/8" NPT to 3/16" ID Hose		
545	Male 1/8" NPT to 1/4" ID Hose		
548	Male 1/8" NPT to 1/8" ID Hose		
540	Male 1/4" NPT to 3/16" ID Hose		
541	Male 1/4" NPT to 1/4" ID Hose		
542	Male 1/4" NPT to 5/16" ID Hose		
543	Male 1/4" NPT to 3/8" ID Hose		
549	Male 1/4" NPT to 1/8" ID Hose		
539	Male 3/8" NPT to 3/8" ID Hose		
537	Male 3/8" NPT to 1/4" ID Hose		
C-42	Male 1/2" NPT to 1/2" ID Hose		
551	Female 1/8" NPT to 3/16" ID Hose		
552	Female 1/8" NPT to 1/4" ID Hose		
554	Female 1/4" NPT to 3/16" ID Hose		
555	Female 1/4" NPT to 1/4" ID Hose		
556	Female 1/4" NPT to 5/16" ID Hose		
557	Female 1/4" NPT to 3/8" ID Hose		
558	Female 3/8" NPT to 1/4" ID Hose		
PART NO.	DESCRIPTION	GAS	
40	Male B-Size, RH to 3/16" ID Hose Barbed	Oxygen	
40-B	Male B-Size, RH to 1/4" ID Hose Barbed	Oxygen	
41	Male B-Size, LH to 3/16" ID Hose Barbed	Acet/F. Gases	
41-B	Male B-Size, LH to 1/4" ID Hose Barbed	Acet/F. Gases	

**HOSE ADAPTORS, BRASS**  
Pressures to 200 PSIG (1400 kPa)

