

Contact us for Pricing:

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

Email: Sales@swsintl.com | Website: www.swsitnl.com

Address: 3908 1st Street Pearland, Texas 77581



SPECIFICATIONS FOR PIGTAIL ASSEMBLIES

FOR 3000 PSIG STAINLESS STEEL BRAID/TEFLON HOSE PIGTAILS FITTED WITH BRASS CONNECTIONS

Design & Material Data:

- Core consists of Teflon (polytetrafluoroethylene) with two outer reinforcing jackets of stainless steel braid (Teflon is inert to most chemicals and solvents, except molten alkali metals and fluorine at elevated temperatures and pressures)
- 1/4" nominal I.D.
- Braid consists of Type 304 full hard drawn stainless steel wire
- Teflon withstands temperatures from -65°F (-54C) through +450°F (232C)
- Burst pressure rating at room temperature: 12,000 PSIG
- Minimum bend radius of 3 inches provides for maximum life and safe performance
- Maximum 3000 PSIG working pressure on tubing
- Brass cylinder connections machined to CGA specifications for applicable gases
- All pigtails 100% tested before shipping and labelled for gas service and pressure rating
- Pressure ratings limited by CGA connection standards-the lowest pressure rating prevails

Notes:

- Burst pressure ratings for pigtails are determined at room temperature with the hose in a straight line. A safety factor of 4:1 or 5:1 should be used for normal applications.
 Impulse and shock pressure applications may require a higher safety factor.
- Do not apply heat to pigtails.

FOR 6000 PSIG STAINLESS STEEL BRAID/TEFLON HOSE PIGTAILS FITTED WITH STAINLESS STEEL CONNECTIONS

Design & Material Data:

- Core consists of high pressure, reinforced Teflon (polytetrafluoroethylene) hose (Teflon is inert to most chemicals and solvents, except molten alkali metals and fluorine at elevated temperatures and pressures)
- Teflon fluid and ambient temperature range: -65°F (-54 C) through +450°F (232°C)
- 1/4" nominal I.D.
- .229" Minimum I.D.
 .495" Maximum O.D.
- Conductive; extruded Teflon dissipates static charges

- Braid consists of inner layer with type 304 SS stainless steel, two layers of stainless steel spiral wrap, plus an outer braid of stainless steel
- Burst pressure rating at room temperature: 24,000 PSIG (see note below)
- Type 316 stainless steel used for primary tube fittings with swaged design
- Most CGA cylinder connections machined of stainless steel to specifications for applicable gases
- Minimum bend radius of 3" provides for maximum life and safe performance
- All pigtails 100% tested and labeled for gas service and pressure rating

HOW TO SPECIFY A SPECIAL ORDER WESTERN PIGTAIL

TUBE/HOSE **INLET END INLET END OPTIONAL FEATURES** PF 346N HTP X **Rigid Tube** All Styles **All Styles All Styles** Blank (None) P4 = 1/4" ODCGA No. +N= Blank = Brass =5/16" OD CGA Nut/Nipple CV = Check Valve PL = Plated = S Steel Example: 540N FA =Flash Arrestor* P6 =3/8" OD* SS HTP =Hand Tight N/N w/Plastic Grip CGA No. +B= PB =5/16" OD HTB =Hand Tight N/N w/Brass H/T Nut PB6 =3/8" OD* CGA VO or Body Example: 540B PS = 1/4" ODFraction +M or F= GA =Gauge ANSI Pipe Thread PH =Brass Handle Flex Hose VA =Shutoff Valve Example: 1/4F PF = 1/4"ID=90° Elbow PFS =1/4" ID PF6 =.229" ID

 Model P
 - 3000 PSIG (20,700kPa),....Rigid Copper Pigtail

 Model PB
 - 3000 PSIG (20,700kPa),....Rigid Brass Pigtail

 Model PS
 - 6000 PSIG (41,300kPa),....Rigid Stainless Steel Pigtail

 Model PF
 - 3000 PSIG (20,700kPa),....Flexible Teflon-Lined Pigtail

 Model PF6
 - 3000 PSIG (20,700kPa),....Flexible Teflon-Lined Pigtail

 Model PF6
 - 6000 PSIG (41,300kPa),....Flexible Teflon-Lined Pigtail

^{*}Use with 3/8" OD Flash Arrestor option.



FOR 3000 PSIG THERMOPLASTIC HOSE PIGTAILS WITH STAINLESS STEEL OR BRASS CONNECTIONS

Design & Material Data:

- Nylon core
- Nylon withstands temperatures from -65°F (-54°C) through +250°F (+121C)
- 1/4" nominal I.D.
- Synthetic fiber braid with polyurethane cover
- Minimum bend radius: 3"
- Burst pressure rating at room temperature: 12,000 PSIG (see note on page 66)
- CGA cylinder connections machined of brass to specifications for applicable gases

- Pressure ratings limited by CGA connections standards-the lowest pressure rating prevails
- Nylon core minimizes permeation of Helium and Hydrogen
- Non-conductive hose requires additional grounding for Hydrogen service
- Not available for oxygen service
- All Pigtails 100% tested and labeled for gas service and pressure rating

Western can make special pigtails in a variety of lengths and in any combination of compatible CGA fittings. However, Western is not responsible for misuse and service life of special pigtails when the applications are unknown to the company.

OUTLET END OUTLET END OPTIONAL FEATURES TUBE/HOSE BEND/SWIVEL OPTIONS 1/2M - - 36 B

All Styles
CGA No. + N=
CGA Nut/Nipple
Example: 540 N
CGA No. + B =
CGA VO or Body
Example: 540 N
Fraction + M or F =
ANSI Pipe Thread
Example: 1/4F

All Styles

Blank =Brass PL =Plated SS =St. Steel

All Styles

Blank (None) CV = Check Valve FA = Flash Arrestor*

HTP =Hand Tight N/N with Plastic Grip HTB =Hand Tight N/N with Brass H/T Nut

GA =Gauge PH =Brass Handle VA =Shutoff Valve EL =90° Elbow

Rigid Tube

27 = 27 inches 36 = 36 inches 48 = 48 inches

Flex Hose

Lengths in 6" Increments: 12"minimum 18"minimum-Spring Guard 300"maximum **Example:**

12 = 12"

Rigid Tube Bends

COIL Standard on 48+"
DBL Two 3" Loops
Standard on 27" P, PB
SGL 6" Loop Standard, 36"
P, PB, PS
SPCL Special Bend, Print
Required

Flex Hose Only

B =Spring Guard
B1 =Spring Guard
w/Swivel Inlet
B2 =Spring Guard
w/Swivel Outlet

B1.2 =Spring Guard w/Swivel, Both Ends

Use the chart above to develop specifications for Special Order Pigtails.

For example: $PF-346N-HTP \times 1/2M-36B$

represents 1/4" I.D. flexible Teflon-lined Pigtail with CGA 346 Nut/Nipple Inlet Connection (brass) Hand-tight with plastic tip and 1/2" NTP M Outlet Connection (brass), 36" long with Spring Guard



| | PART NO. | WITH CV | DESCRIPTION | GAS SERVICE |
|---------------------------------|-------------|-----------|--------------------------------------|----------------|
| RIGID PIGTAILS, BRASS | 5/16" X . | 065" WALL | BRASS TUBING 20" FINISHED LEN | GTH OVERALL |
| ACETYLENE & LPG SERVICE | P-16 | _ | RH F Propane, Comm. Acet, Horiz. | CGA-300 |
| Pressure to 500 PSIG (3400 kPa) | PV-15 | _ | LH M Propane, Brass, Horiz. | CGA-510 |
| | P-15 | P-15CV | LH M Propane, Mapp, Horiz. | CGA-510 |
| P-15-PCV | P-15-P | P-15PCV | LH M Propane, POL Acet, Vert. | CGA-510 |

| PART NO. | DESCRIPTION | GAS SERVICE | |
|-------------|---------------------------------|--------------------|---|
| HAND-TIGH | T NUTS & NIPPLES * 5/16" x .065 | " WALL COPPER TUBE | HAND-TIGHT RIGID PIGTAILS FOR |
| PHC-320 | RH F Carbon Dioxide | CGA-320 | PLANT OR FILLING STATIONS |
| PHC-326 | RH F Nitrous Oxide | CGA-326 | with Brass Connections |
| PHC-346 | RH F Air | CGA-346 | Pressure to 3000 PSIG (20,700 kPa) |
| PHC-63 | RH F Oxygen | CGA-540 | |
| PHC-83 | LH F Hydrogen | CGA-350 | 36" Bent to 20" Finished Length Overall |
| PHC-92 | RH M Nitrogen, Argon | CGA-580 | |
| PHC-93 | LH M Industrial Air | CGA-590 | |

| | PART NO. | WITH CV | DESCRIPTION | GAS SERVICE |
|--|-------------|----------|--|----------------|
| STAINLESS STEEL RIGID PIGTAILS | | | 049 WALL ST. STEEL TUBE 316 SS CGA FITTINGS | |
| with Stainless Steel Connections | | 20″ F | inished Length Overall | |
| * PRESSURES TO 3000 PSIG (20,700 kPa) | PS-320 | - | Carbon Dioxide, RH F | CGA-320 |
| Type 304 Stainless Steel Tube TIG Welded For Long Service Life | PS-346 | _ | Air, RH F | CGA-346 |
| Type 316 Stainless Steel Welded Fittings | PS-540 | PS-540CV | Oxygen, RH F | CGA-540 |
| | PS-580 | PS-580CV | Nitrogen, Argon, RH M | CGA-580 |
| Available In Straight Lengths | PS-590 | - | Industrial Air, LH M | CGA-590 |
| Use With Either Stainless Steel Or Brass Connections | | | | |

| PART NO. | WITH CV | DESCRIPTION | GAS SERVIC | E | |
|----------|--------------|------------------------------|------------|--------------------|---------------------------------------|
| 5/1 | | WALL COPPER TUBE, DOUBL | E LOOP | | RIGID PIGTAILS, |
| | Pressur | es to 3000 PSIG (20,700 kPa) | | В | RASS FORGED HANDLE |
| PH-320 | - | RH F Carbon Dioxide | CGA-320 | | with Brass Connections |
| PH-326 | PH-326CV | RH F Nitrous Oxide | CGA-326 | | |
| PH-346 | PH-346CV | RH F Air | CGA-346 | | |
| PH-63 | PH-63CV | RH F Oxygen | CGA-540 | Check Valve Nipple | CGA Nut & Nipple |
| PH-73 | - | LH F Propane (Liquid With.) | CGA-555 | | Flow — |
| PH-83 | PH-83CV | LH F Hydrogen | CGA-350 | All lives to | |
| PH-92 | PH-92CV | RH M Nitrogen, Argon | CGA-580 | - | |
| PH-93 | | LH M Industrial Air | CGA-590 | | |
| 5/ | '16" x .065″ | WALL BRASS TUBE, SINGLE | LOOP | | |
| , | | ures to 500 PSIG (3400 kPa) | | Brass Pigtail | 27" Length Bent to 12" Overall Length |
| PH-300 | _ | RH F Commercial Acetylene | CGA-300 | Handle (Part PH-1) | PH-63CV |
| PH-510 | _ | LH M POL Acetylene | CGA-510 | | |

| | PART NO. | WITH CV | DESCRIPTION | SERVICE |
|------------------------------------|----------|----------|--------------------------------|---------|
| MANIFOLD RIGID | | ANNEALE | D 5/16" x .065" WALL COPPER TU | BE |
| PIGTAILS, COPPER TUBING | P-CO-3 | _ | RH F, Carbon Dioxide | CGA-320 |
| with Brass Connections | P-63 | P-63CV | RH F, Oxygen | CGA-540 |
| RESSURES TO 3000 PSIG (20,700 kPa) | P-73 | - | LH F, Propane (Liquid With.) | CGA-555 |
| | P-83 | P-83CV | LH F, Hydrogen | CGA-350 |
| | P-92 | P-92CV | RH M, Nitrogen, Argon, Helium | CGA-580 |
| CHIEF CONTRACTOR | P-93 | _ | LH M, Industrial Air | CGA-590 |
| - | P-1320 | P-1320CV | RH F, Nitrous Oxide | CGA-326 |
| P-92CV | P-1340 | P-1340CV | RH F, Air | CGA-346 |
| 27" Length Bent to 12" | | | | |

| PART NO. | DESCRIPTION | SERVICE | |
|----------|--------------------------------|---------|--|
| ANN | EALED 5/16" x .065" WALL COPPE | R TUBE | RIGID PIGTAILS, COPPER |
| PV-CO-3 | RH F, Carbon Dioxide | CGA-320 | TUBING, BRASS SHUTOFFS |
| PV-1340 | RH F, Air | CGA-346 | with Brass Connections |
| PV-63 | RH F, Oxygen | CGA-540 | Pressures to 3000 PSIG (20,700 kPa) |
| PV-92 | RH M, Nitrogen, Argon, Helium | CGA-580 | 27" length Bent to 14" Finished length |

| | PART NO. | DESCRIPTION |
|--------------------------------------|----------|-----------------------|
| STAINLESS STEEL | | 1/4" Female Both Ends |
| RIGID PIGTAILS | PS-4-36 | 36" Length, Straight |
| Pressures to 6000 PSIG (41,300 kPa) | PS-4-48 | 48" Length, Straight |
| 116330163 10 0000 F310 (41,000 Ki u) | PS-4-60 | 60" Length, Straight |
| | i | |



| SERVICE | PART NO. | DESCRIPTION | WORKING PRESSURE | |
|---------|--------------------|--|---------------------|---|
| _ | PF-4 | 1/4" NPT F x 1/4" F NPT | 0-3000 | CTAINIFE COPPL TITYING |
| | | with Spring Guard: Add B to End of Part No. | | STAINLESS STEEL FLEXIBLE |
| | | COMPLETE ASSEMBLIES | L | PIGTAILS, BRASS CONNECTIONS |
| CGA-300 | PF-16 | Commercial Acetylene, RH Female | 0-500 | SUB ASSEMBLY FOR SPECIAL |
| COA-500 | PF-16CV | with Check Valve, Inlet | 0-500 | CONFIGURATIONS |
| | PF-16HT | with Hand Tight Nut, One End | | CONFIGURATIONS |
| CGA-320 | PF-320 | Carbon Dioxide, RH Female | 0-3000 | . AVAILABLE IN A VARIETY |
| | | with Spring Guard add B to length | | • AVAILABLE IN A VARIETY |
| | PF-320HT | with Hand Tight Nut, One End | | OF LENGTHS |
| CGA-326 | PF-326 | Nitrous Oxide, RH Female | 0-3000 | 1 |
| | | with Spring Guard add B to length | | • 100% TESTED AND CLEANED |
| | PF-326CV | with Check Valve, Inlet Side | | FOR OXYGEN SERVICE |
| | PF-326HT | with Hand Tight Nut, One End | | |
| CGA-346 | PF-346 | Air, RH Female | 0-3000 | FOR HOSE SPECIFICATIONS |
| | | with Spring Guard add B to length | | SEE PAGE 64 |
| | PF-346CV | with Check Valve, Inlet Side | | |
| | PF-346HT | with Hand Tight Nut, One End | | Type 304 SS Braid |
| CGA-347 | PF-3 <i>47</i> | Air, RH Female | 3001-5500 | End Connection Galvanized Carbon Steel |
| | PF-347CV | with Check Valve, Inlet Side | | Optional Spring Guard, |
| | PF-347HT | with Hand Tight Nut, One End | | Factory Installed |
| CGA-510 | PF-15 | POL Acetylene, LH Male | 0-500 | |
| | PF-15CV | with Check Valve, Inlet Side | | |
| | PF-15HT | with Hand Tight Nut, One End | | |
| CGA-540 | PF-63 | Oxygen, RH Female | 0-3000 | |
| | | with Spring Guard add B to length | | |
| | PF-63CV | with Check Valve, Inlet Side | | |
| | PF-63HT | with Hand Tight Nut, One End | 0000 4000 | Optional 360° Swivel Coil Grooves Secure Adaptor Resists Kinking Optional Spring Guard |
| CGA-577 | PF-577 | Oxygen, RH Female | 3001-4000 | Adaptor Resists Rinking Sprinter Spring Start |
| 001.500 | PF-577CV | with Check Valve, Inlet Side | 0.000 | |
| CGA-580 | PF-92 | Nitrogen, Argon, RH Male | 0-3000 | |
| | PF-92CV | with Spring Guard add B to length with Check Valve, Inlet Side | | |
| | PF-92CV PF-92HT | • | | Teflon® Hose Core |
| CGA-590 | PF-92m1 | with Hand Tight Nut, One End Industrial Air, LH Male | 0-3000 | |
| CGA-390 | F1-93 | with Spring Guard add B to length | 0-3000 | |
| | PF-93CV | with Check Valve, Inlet Side | | |
| | PF-93HT | with Hand Tight Nut. One End | | |
| CGA-680 | PF-680 | Inert Gases, RH Male | 3001-5500 | |
| | PF-680CV | with Check Valve, Inlet Side | 110.0000 | 3" Minimum Bend Radius |
| | PF-680HT | with Hand Tight Nut, One End | | |
| CGA-701 | PF-701 | Oxygen, RH Female | 4001-5500 | 3" Minimum Bend Radius |
| | PF-701CV | with Check Valve, Inlet Side | | . 33000 43 |
| | | , | | HOW TO ORDER PF-XXX-XX-X |
| | | | | F1- <u>AAA-AA-A</u> |
| | | | | END CONNECTIONS LENGTH OPTIONS |
| | | | | From CGA Listing Below 18", 24", 36", 48" B = Spring Guard |
| | | | | (Note: Lengths Do Not B1= Spring Guard, |
| | | | | include Connections) With Inlet Swivel Adaptor |
| | | | | B2= Spring Guard, |
| | | | | With Outlet |
| | | | | Swivel Adaptor |



| PART NO. | DESCRIPTION | MAX PSIG | GAS SERVICE | |
|----------|------------------------------|------------|-------------|------------------------|
| | COMPLETE ASSEMBLIES 10 | 00% TESTED | | THERMOPLASTIC FLEXIBL |
| PFS-83 | Hydrogen, LH F | 0-3000 | CGA-350 | PIGTAILS, NYLON LINED, |
| PFS-83CV | with Check Valve, Inlet Side | | | BRASS CONNECTIONS |
| PFS-92 | Helium, RH M | 0-3000 | CGA-580 | |
| PFS-92CV | with Check Valve, Inlet Side | | | |

| | PART NO. | DESCRIPTION | MAX PSIG | SERVICE |
|--------------------------------------|----------|--|-----------|---------|
| STAINLESS STEEL FLEXIBLE | co | MPLETE ASSEMBLIES 100% TESTED & OX | YGEN CLEA | NED |
| PIGTAILS, TEFLON LINED, | PF-346SS | Air, RH F | 3000 | CGA-346 |
| STAINLESS STEEL CONNECTIONS | PF-347SS | High Pressure Air, RH F | 5500 | CGA-347 |
| Teflon® Inner Core — | PF-350SS | Natural Gas, LHF | 3000 | CGA-350 |
| Inner SS Wire Braid — | PF-540SS | Oxygen, RH F | 3000 | CGA-540 |
| 3" Minimum Bend Radius Outer SS Wire | PF-580SS | Argon, Nitrogen, Etc, RH M | 3000 | CGA-580 |
| Spiral Wrap Inner SS Wire | PF-590SS | Air, Nitrogen, Etc, LH M | 3000 | CGA-590 |
| Progressive-swagged — Spiral Wrap | PF-4SS | 1/4" NPT Female to 1/4" NPT F | 6000 | - |
| SS Fitting Outer SS Wire | PH-3 | Chrome Plated brass Handle with Set Screw, | | |
| Wire Braid Stainless Steel | | Prevents Twisting when Tightening | | |
| ee page 46 for Connections | | | | |
| ose specifications | | | | |

| PART NO. | DESCRIPTION | LENGTH | |
|---------------------|---|---------------|--|
| 100% TESTED | & CLEANED FOR OXYGEN * INDIVIDUALL 3" MINIMUM BEND RADIUS | Y POLY BAGGED | STAINLESS STEEL FLEXIBLE PIGTAILS, BRASS CONNECTIONS |
| PF2-4-12 | 1/4" NPT Female End Connections | 12" | Pressures to 3000 PSIG (20,700 kPa) |
| PF2-4-18 | 1/4" NPT Female End Connections | 18" | |
| PF2-4-24 | 1/4" NPT Female End Connections | 24" | |
| PF2-4-36 | 1/4" NPT Female End Connections | 36" | |
| PF2-4-48 | 1/4" NPT Female End Connections | 48" | (()) |
| PF2-4-60 | 1/4" NPT Female End Connections | 60" | |
| PF2-4-72 | 1/4" NPT Female End Connections | 72" | |
| | | | |
| | | | |
| See page 46 for | | | |
| hose specifications | | | No Specials Available |

| | PART NO. | DESCRIPTION | LENGTH |
|--|-------------|--|--------|
| STAINLESS STEEL FLEXIBLE PIGTAILS, STAINLESS STEEL | 100% TESTED | & CLEANED FOR OXYGEN * INDIVIDUA 2-3/4" MINIMUM BEND RADIUS | |
| CORRUGATED INNER CORE, | HPF-4-18 | 1/4" NPT F x 1/4" NPT F | 18" |
| STAINLESS STEEL CONNECTIONS | HPF-4-24 | 1/4" NPT F x 1/4" NPT F | 24" |
| Pressures to 3000 PSIG (20,700 kPa) | HPF-4-36 | 1/4" NPT F x 1/4" NPT F | 36" |
| , , , , , , , , | HPF-4-48 | 1/4" NPT F x 1/4" NPT F | 48" |