

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

- 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 PFS** - 3000 PSIG (20,700kPa),...Flexible Nylon-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: 2-3/4"
- Burst pressure rating at room temperature: 12,000 PSIG (see not 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
- Helium and Hydrogen will not permeate nylon core
- 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 CONNECTION	OUTLET END CONN. FINISH	OPTIONAL FEATURES	TUBE/HOSE LENGTH	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* 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 From 8" Min. to 300" Max. Flex Hose Lengths in 6" Increments: 12" minimum 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 x 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" M Outlet Connection (brass),
 36" long with Spring Guard