

NIBCO[®]
Bench  Press[™] and
Bench  PressG[™]
Engineering Data

NIBCO® BenchPress™ – Engineering Data

Carbon Steel Fittings

System Description

NIBCO BenchPress carbon steel fittings are available in ½" to 2" sizes and designed for use with Schedule 10 to 40 carbon steel pipe as defined by ASTM A53, A106, A135 and A795. NIBCO BenchPress fittings allow fast and economical installation of residential, commercial, and industrial carbon steel piping systems.

A permanent and secure connection is provided by the stainless steel grip ring housed inside a corrosion resistant zinc-nickel coated carbon steel fitting. The black EPDM sealing element provides a permanent leak-proof connection. NIBCO's leak detect design provides quick and easy identification of unpressed connections.

Primary Applications

NIBCO BenchPress fittings may be used in the following applications:

- Chilled Water
- Hydronic Heating
- Wet and Dry Fire Sprinkler Systems

For additional applications, see the NIBCO BenchPress Approved Applications Chart.

System Benefits

- Fast and Easy to Use
- Permanent Connection
- Leak Detection of Unpressed Fittings

Approvals and Certifications

- IAPMO PS-117
- UL/ULC
- FM

Codes

- NFPA 13, 13D and 13R
- IRC International Residential Code (ICC PMG)
- IMC International Mechanical Code (ICC PMG)
- UPC Uniform Plumbing Code
- UMC Uniform Mechanical Code
- ASME B31 Code for Pressure Pipe

Visit our website for the most current information.

NIBCO® BenchPressG™ – Engineering Data

Carbon Steel Fittings

System Description

NIBCO BenchPressG carbon steel fittings are available in ½" to 1-1/2" sizes and designed for use with Schedule 10 to 40 steel pipe as defined by ASTM A53, A106, A135 and A795. NIBCO BenchPressG fittings allow fast and economical installation of residential, commercial, and industrial carbon steel piping systems. NIBCO BenchPressG fittings are certified by CSA for use with Schedule 40 fuel gas piping systems.

A permanent and secure connection is provided by the stainless steel grip ring housed inside a corrosion resistant zinc-nickel coated carbon steel fitting. The yellow HNBR sealing element provides a permanent leak-proof connection. NIBCO's leak detect design provides quick and easy identification of unpressed connections.

Primary Applications

NIBCO BenchPressG fittings may be used in the following applications:

- Natural Gas
- Liquefied Petroleum
- Compressed Air

For additional applications, see the NIBCO BenchPressG Approved Applications Chart.

System Benefits

- Fast and Easy to Use
- Permanent Connection
- Leak Detection of Unpressed Fittings

Approvals and Certifications

- CSA (CSA ANSI LC 4 / CSA 6.32)
- IAPMO (CSA ANSI LC 4 / CSA 6.32)

Codes

- NFPA 54 National Fuel Gas Code
- NFPA 58 Liquefied Petroleum Gas Code
- NFPA 30 Flammable and Combustible Liquids Code
- NFPA 30A Code for Motor Fuel and Dispensing Facilities and Repair Facilities
- NFPA 31 Standard for the Installation of Oil-Burning Equipment
- ASME B31 Code for Pressure Pipe
- Uniform Plumbing Code (UPC)*
- National Plumbing Code of Canada
- International Mechanical Code

**Uniform Plumbing Code is a copyrighted publications of the International Association of Plumbing and Mechanical Officials*

BenchPress and BenchPressG Tool Compatibility Matrix

Size	1/2" through 2"		
Pressing Tools	NIBCO PC-280		With RIDGID MegaPress® jaws and rings as well as Milwaukee® Black Iron Press jaws and rings
	RIDGID RP241 (up to 3/4") CT400	RP320 RP330-B RP330-C RP340-B	With RIDGID MegaPress® jaws and rings
	Milwaukee model M18		With RIDGID MegaPress® jaws and rings as well as Milwaukee® Black Iron Press jaws and rings

Visit our website for the most current information.

BenchPress™ and BenchPressG™ Fitting Applications Chart

Types of Service	Comments	Pressure	Temperature	Compatible with EPDM Seal	Compatible with HNBR Seal
Fluids/Water					
Fire Sprinkler		175 psi	Ambient	●	
Chilled Water	Ethylene Glycol Propylene Glycol	200 psi	Down to 0°F	●	
Hydronic Heating	Ethylene Glycol Propylene Glycol	200 psi	0°F to 250°F	●	
Low Pressure Steam		Up to 15 psi	Max 248°F	●	

Oil and Lubricant					
Heating Fuel Oil		125 psi	-40°F to 180°F		●
Diesel Fuel		125 psi			●
Gear Grease		150 psi	104°F		●
Engine Oil		150 psi	Ambient		●
Hydraulic Fluid	Mineral Based	200 psi	Ambient		●
Transmission Fluid		200 psi	Ambient		●

Gases					
Natural Gas & LP Gas		125 psi Max	-40°F to 180°F		●
Compressed Air	Less than 25mg/m3 Oil Content	200 psi	Up to 140°F	●	
Compressed Air	More than 25mg/m3 Oil Content	200 psi	Up to 140°F		●
Oxygen - (non medical)	Oil and Fat Free/Non Liquid	140 psi	Up to 140°F	●	●
Nitrogen		200 psi	Up to 140°F	●	●
Carbon Dioxide		200 psi	Up to 140°F	●	●
Argon		200 psi	Up to 140°F	●	●
Vacuum		Max 29.2" of Hg	Up to 140°F	●	●

BenchPress EPDM Sealing Element
Operating Temperature: 0°F to 250°F

BenchPressG HNBR Sealing Element
Operating Temperature: -40°F to 180°F

Visit our website for the most current information.