



MECHPRESS
Carbon Steel Press Systems

PRODUCT INFORMATION



Overview

MECHPRESS Carbon Steel Press Fittings are designed to be used with Schedule 10 to 40 carbon steel pipe (in accordance with **NFPA 13**, *Standard for the Installation of Sprinkler Systems*) on nominal sizes ½" to 2". MECHPRESS fittings can be connected to most carbon steel systems installed in residential, commercial, and industrial systems, including systems with seamless steel pipe (S) or ERW steel pipe (W).

All MECHPRESS fittings are zinc-nickel coated to protect against corrosion and available with the choice of two sealing elements Ethylene Propylene Diene Monomer (EPDM) for Mechanical and Fire Protection applications, or Hydrogenated Nitrile Butadiene Rubber (HNBR) for Gas and Fuel Oil applications. MECHPRESS and MECHPRESS-G carbon steel press fittings are easily distinguished by unique colour recognition on all fittings, ensuring the proper sealing element is installed every time with shrink wrapped hubs: yellow for HNBR; green for EPDM.

Features & Benefits

- 360° Symmetric design with double row of SS grip rings for superior pull-out resistance
- Smart Leak-Proof Technology – Fittings will leak if not pressed
- Fall away shrink-wrapped fitting hubs, provide visual confirmation that fittings have been pressed before going into service
- Visual Check, with two colour coded (square) dots per fitting located on each side for easy identification after installation:
 - Green for MECHPRESS (Mechanical & Fire Protection Systems)
 - Yellow for MECHPRESS-G (Gas & Fuel Oil Systems)
- Sealing Elements specific for use – EPDM for MECHPRESS and HNBR for MECHPRESS-G
- Almost 300 sizes and configurations available
- Compatible with leading carbon pipe press tools and jaws in the market
- 15-year limited warranty on all MECHPRESS carbon steel press fittings

Operating Parameters

	MECHPRESS	MECHPRESS-G
	Mechanical & Fire Protection	Gas & Fuel Oil
Sealing Element	Ethylene Propylene Diene Monomer (EPDM)	Hydrogenated Nitrile Butadiene Rubber (HNBR)
Operating Pressure	200 psi Max	200 psi Max
Operating Temperature	0°F to 250°F (–18°C to 120°C)	–40°F to 180°F (–40°C to 82°C)

MECHPRESS Carbon Steel Press Systems Product Installation Brochure is published by CB Supplies Ltd., 3325 190th St., SURREY, BC V3Z 1A7, CANADA. All rights reserved. Printed in Canada. This publication may not be sold or distributed except by authorized dealers and subject to the conditions that it shall not be sold or distributed with any part of its title or markings removed, or in a mutilated condition. Product information is subject to change without notice.

Compatible Tools

MECHPRESS and MECHPRESS-G can be installed with properly maintained and calibrated RIDGID and Milwaukee press tools and their compatible jaws, rings, and accessories designed for carbon steel.

RIDGID® is a registered trademark of RIDGID, Inc.

Milwaukee® is a registered trademark of Milwaukee Electric Tool Corporation.

General Installation Notes

MECHPRESS	MECHPRESS-G
Mechanical and Fire Protection Systems	Gas and Fuel Oil Systems
• See approved applications table for suitable types of service. • Fittings are not approved for fuel gas applications. • The mechanical system shall comply with the Electrical Bonding and Grounding Section of the relevant Plumbing & Electrical code. The metal-to-metal contact between fittings and pipe ensures continuity of the bonding through this contact. 	• See approved applications table for suitable types of service. • The installation, inspection, testing and purging of systems shall be in accordance with local codes, or in the absence of local codes, with NFPA 54/ANSI Z223.1, National Fuel Gas Code as directed by the authority having jurisdiction. • Fuel gas system shall not be used as a grounding electrode for electrical systems. 

Approved Applications for MECHPRESS and MECHPRESS-G Carbon Steel Press Systems

Type of Service	System Operating Conditions			Sealing Element	
	Comments	Pressure (psi)	Temperature (°C/°F)	EPDM MECHPRESS	HNBR MECHPRESS-G
FLUIDS/WATER					
Chilled Water	Ethylene glycol/propylene glycol	200	See Note 1	√	
Hydronic Water	Ethylene glycol/propylene glycol			√	
Fire Sprinkler	NFPA 13, 13D, 13R	175	See Note 1	√	
Low Pressure Steam	Low Pressure Steam Supply Lines	5	Max 108°C/ 226.4°F	√ ²	
FUEL OIL AND LUBRICANTS					
Natural Gas	Major component methane	125	-40°C to 82°C/ -40°F to 180°F		√ ⁴
Propane					√ ⁴
Butane					√ ⁴
Heating Fuel Oil			Max 38°C/ 100.4°F		√
Diesel					√
Mineral Oil		200	Ambient 3		√
Lubricating Oil	Petroleum base	200	Max 65°C/ 149°F		√
GASES/VACUUM					
Compressed Air	Oil concentration ≤ 25 mg/m ³	200	Max 60°C/ 140°F	√ ²	√ ²
	Oil concentration > 25 mg/m ³				√ ²
Nitrogen				√	√
Carbon Dioxide	Dry			√	√
Argon Gas				√	√
Oxygen	Non-medical Keep oil and grease free	140	Max 60°C/ 140°F	√	
Hydrogen		125		√	√
Acetylene	Test pressure 350PSI	20	Ambient 3	√	√
Vacuum	Minimum absolute pressure Maximum differential pressure	750µm Hg 29.2" Hg	Max 71°C/ 159.8°F	√	√
1. System pressure and range depend on seals. Any ranges listed in the table above are limited by the following seals to include: 1a EPDM temperature range is typically -17°C to 120°C (0°F to 248°F) FKM temperature ranges are typically -10°C to 140°C (14°F to 284°F), with temperature spikes (24hr) up to 356°F. 1b HNBR temperature range is typically -40°C to 82°C (-40°F to 180°F). 2. The system must contain sufficient condensate drain. 3. The ambient temperature should be regarded as a normal working condition and should not exceed the limit of the sealing ring. 4. Complies with CSA 6.32/ANSI LC-4.					

Listings, Code, and Standards

	MECHPRESS	MECHPRESS-G
Referenced: Listing, Code or Standard	Mechanical & Fire Protection	Gas & Fuel Oils
Canadian Registration No. (CRN)	√	√
ANSI/CAN/UL 213, <i>Standard for Rubber Gasketed Fittings for Fire-Protection Service</i>	√	
ASME B31.1, <i>Power Piping</i>		√
ASME B31.3, <i>Process Piping</i>	√	√
ASME B31.5, <i>Refrigeration Piping & Heat Transfer Components</i>	√	√
ASME B31.9, <i>Building Services Piping</i>	√	√
CSA B149.1, <i>Natural Gas and Propane Installation Code</i>		√
CSA Class C330511, <i>GAS ACCESSORY DEVICES – Press Connect Type Metallic Fittings</i>		√
CSA Class C330591, <i>GAS ACCESSORY DEVICES – Press Connect Type Metallic Fittings Certified to US Standards</i>		√
CSA/ANSI LC 4/CSA 6.32, <i>Press-Connect Metallic Fittings For Use In Fuel Gas Distribution Systems</i>		√
FM 1920, <i>Pipe Couplings and Fittings for Aboveground Fire Protection Systems</i>	√	
IAPMO/ANSI/CAN Z1117, <i>Press Connections</i>	√	
International Fuel Gas Code (IFGC)	√	√
International Plumbing Code (IPC)	√	√
National Plumbing Code of Canada	√	√
NSF/ANSI 61, <i>Drinking Water System Components – Health Effects</i>	√	
NSF/ANSI/CAN 372, <i>Drinking Water System Components – Lead Content</i>	√	
UL 852, <i>Standard for Safety Metallic Sprinkler Pipe for Fire Protection Service</i>	√	
ULC/ORD-C199S, <i>Light Wall Steel Pipes for Sprinkler Systems</i>	√	
Uniform Plumbing Code (UPC)	√	√

CB Supplies Limited Warranty

MECHPRESS AND MECHPRESS-G Carbon Steel Press Systems by CB Supplies

Subject to the conditions in this Limited Warranty, CB SUPPLIES LTD. warrants to end users and installers who purchase and properly install MECHPRESS and MECHPRESS-G carbon steel press fittings, under normal conditions of use, will be free from failure caused by manufacturing defects for a period of fifteen (15) years from date of installation.

Under this warranty, you only have a right to reimbursement if the failure or leak resulted from a manufacturing defect in the products covered by this warranty and occurred during the warranty period. You do not have a remedy or right of reimbursement under this warranty and this warranty does not apply if the failure or any resulting damage is caused by: (1) components in the plumbing systems other than those manufactured or sold by CB Supplies Ltd.; (2) not designing, installing, inspecting, testing, or maintaining the systems in accordance with CB Supplies Ltd. installation instructions effective as of the time of the installation and relevant specifications, codes and standards for the type of installation; (3) improper design of the system; (4) mishandling and inadequate protection of the product prior to, during, or after installation, inadequate freeze protection, exposure to conditions in excess of those covered by relevant codes and standards; and (5) natural disasters such as, but not limited to, fire, flood, wind, ground movement, or lightning.

In the event of a leak or other failure of a product covered by this warranty, it is the responsibility of the property owner to take measures to limit and repair any damage in a timely manner and pay for the same. Only if the warranty applies will CB Supplies Ltd. be responsible for reimbursement under this warranty. The part or parts that allegedly failed should be kept and CB Supplies Ltd. contacted in writing to the address below within thirty (30) days after the leak or failure and identifying yourself as having a warranty claim. You should be prepared to ship, at your expense, the product which you claim failed due to a manufacturing defect, document the date of installation, and the amount of any claimed bills which you wish to be reimbursed. Within a reasonable time after receipt of the product, CB Supplies Ltd. will investigate the reasons for the failure, which includes the right to inspect the product at a CB Supplies Ltd. location and reasonable access to the site of the damage in order to determine if the warranty applies. CB Supplies Ltd. will notify you in writing of the results of its review.

If CB Supplies Ltd. determines that a failure or leak and any resulting damages were the result of a manufacturing defect in the products covered by this warranty, the limited and exclusive remedy under this warranty shall be that CB Supplies Ltd. will reimburse the property owner for reasonable repair or replacement charges. CB Supplies Ltd. shall not be liable for consequential economic loss damages under any legal theory and whether asserted by direct action, for contribution or indemnity or otherwise.

The above limited warranty is in lieu of all other warranties express or implied, including but not limited to, the implied warranties of the merchantability and fitness for a particular purpose. Other than this limited warranty, CB Supplies Ltd. does not authorize any person or firm to create for it any other obligation or liability.

MECHPRESS

Carbon Steel Press Systems

CB Supplies established in 1962 is both a Canadian manufacturer and master distributor. Our core value is to provide exceptional customer service through each of our four regional offices with:

- High-quality products that meet changing market demands
- Competitive market pricing
- High-fill rates and prompt deliveries

We continually support our core value with long-term investment in our people, facilities, product, and our industry associations.

We provide a wide range of plumbing, hydronics, and HVACR solutions, including our branded products: VIPERT™ Potable and Radiant Tubing, LYNX-PEX™ Water Service Tubing, MECHPRESS Carbon Steel Press Fittings, Diamondback® (CSST) Flexible Gas Piping, and American Granby Products.

To find out how we can support you, visit us at **cbsupplies.ca**

