



**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 Fluoroelastomer Materials (FKM) 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 color recognition on all fittings, ensuring the proper sealing element is installed every time with shrink wrapped hubs: yellow for HNBR; green for FKM.

## 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 color 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 – FKM 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       | Fluoroelastomer Materials (FKM) | Hydrogenated Nitrile Butadiene Rubber (HNBR) |
| Operating Pressure    | 200 psi Max                     | 200 psi Max                                  |
| Operating Temperature | 14°F to 284°F (–10°C to 140°C)  | –40°F to 180°F (–40°C to 82°C)               |

**MECHPRESS Carbon Steel Press Systems** Product Installation Brochure is published by American Granby Inc., 7652 Morgan Rd, Liverpool, NY 13090, USA. All rights reserved. Printed in USA. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• See approved applications table for suitable types of service.</li> <li>• Fittings are not approved for fuel gas applications.</li> <li>• The mechanical system shall comply with the Electrical Bonding and Grounding Section of the relevant Plumbing &amp; Electrical code. The metal-to-metal contact between fittings and pipe ensures continuity of the bonding through this contact.</li> </ul> | <ul style="list-style-type: none"> <li>• See approved applications table for suitable types of service.</li> <li>• The installation, inspection, testing and purging of systems shall be in accordance with local codes, or in the absence of local codes, with <b>NFPA 54/ANSI Z223.1, National Fuel Gas Code</b> as directed by the authority having jurisdiction.</li> <li>• Fuel gas system shall not be used as a grounding electrode for electrical systems.</li> </ul> |
|  <p>A T-shaped carbon steel fitting with three green protective caps. Each cap has the text "REMOVE AFTER PRESS" printed on it. The fitting is shown against a white background.</p>                                                                                                                                                                         |  <p>A T-shaped carbon steel fitting with three yellow protective caps. Each cap has the text "REMOVE AFTER PRESS" printed on it. The fitting is shown against a white background.</p>                                                                                                                                                                                                    |

## 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)           | FKM             | HNBR           |
|                         |                                  |                |                               | MECHPRESS       | 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  | 15             | Max 121°C/ 250°F              | √ <sup>2</sup>  |                |
| FUEL OIL AND LUBRICANTS |                                  |                |                               |                 |                |
| Natural Gas             | Major component methane          | 125            | −40°C to 82°C/ −40°F to 180°F |                 | √ <sup>4</sup> |
| Propane                 |                                  |                |                               |                 | √ <sup>4</sup> |
| Butane                  |                                  |                |                               |                 | √ <sup>4</sup> |
| 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               | √               | √              |
| Biodiesel               | ASTM D6751                       | 140            | Max 65°C/ 149°F               | √               |                |
| Kerosene                |                                  | 125            | −40°C to 82°C/ −40°F to 180°F | √               |                |
| Hydraulic Oil           |                                  |                | See Note 1                    | √               |                |
| Engine Oil              |                                  |                |                               | √               |                |
| Engine Coolant          |                                  |                |                               | √               |                |
| Waste Oil               | Including used cooking oil       |                |                               | √               |                |
| GASES/VACUUM            |                                  |                |                               |                 |                |
| Compressed Air          | Oil concentration≤25 mg/m³       | 200            | Max 60°C/ 140°F               | √ <sup>2</sup>  | √ <sup>2</sup> |
|                         | Oil concentration>25 mg/m³       |                |                               | √               | √ <sup>2</sup> |
| Nitrogen                |                                  |                |                               | √               | √              |
| Carbon Dioxide          | Dry                              |                |                               | √               | √              |
| Argon Gas               |                                  |                |                               | √               | √              |

| Type of Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | System Operating Conditions                                |                      |                      | Sealing Element |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------|----------------------|-----------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comments                                                   | Pressure (psi)       | Temperature (°C/°F)  | FKM             | HNBR        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |                      |                      | MECHPRESS       | MECHPRESS-G |
| Hydrogen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            | 125                  | Max 60°C/<br>140°F   | ✓               | ✓           |
| Acetylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test pressure 350PSI                                       | 20                   | Ambient 3            | ✓               | ✓           |
| Vacuum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Minimum absolute pressure<br>Maximum differential pressure | 750µm Hg<br>29.2" Hg | Max 71°C/<br>159.8°F | ✓               | ✓           |
| <p>1. System pressure and range depend on seals. Any ranges listed in the table above are limited by the following seals to include:<br/> 1a FKM temperature ranges are typically –10°C to 140°C (14°F to 284°F), with temperature spikes (24hr) up to 356°F  <br/> Low Pressure Steam: Max. pressure 15 psig, max. temperature 121°C (250°F, Reference footnote 2 beside check.<br/> 1b HNBR temperature range is typically –40°C to 82°C (–40°F to 180°F).</p> <p>2. The system must contain sufficient condensate drain.</p> <p>3. The ambient temperature should be regarded as a normal working condition and should not exceed the limit of the sealing ring.</p> <p>4. Complies with CSA 6.32/ANSI LC-4.</p> |                                                            |                      |                      |                 |             |

## 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 &amp; 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

### About American Granby

American Granby was established in 1962 to serve the distribution needs of the wholesale pump & well, pool & spa, turf irrigation and plumbing & heating markets. With the establishment of American Granby came the birth of "Vendor Consolidation™". This buying concept defined the method of procuring an array of products from many manufacturers and suppliers and making them available to wholesale distributors from a single source at competitive prices.

Today, with over 15,000 items stocked in our state of the art warehouse from over 200 manufacturers and suppliers, American Granby provides crucial buying and financial benefits to wholesale distributors throughout the US and Canada and around the world especially in today's economic environment.

### The American Granby Advantage

Here are just some of the benefits to wholesale distributors when purchasing installation accessories from American Granby.

- Vendor Consolidation™. A single source of supply for all your installation accessory needs since 1962.
- One of the most extensive product offerings available. Over 15,000 items in stock.
- Only the highest quality products for years of dependable, trouble-free service after installation.
- Quick, accurate shipments within 24 hours of placing your order from our state of the art warehouse.
- 98% or higher order fill rates.
- Simple, user friendly website, catalog, and pricing.
- Industry knowledgeable Sales force and Customer Service representatives. Hundreds of years of accumulated industry experience only a phone call or visit away.

