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› Dixon G100-F-BR Forged Brass Global Type F Cam and Groove Hose Fitting User Manual

Dixon G100-F-BR

Dixon G100-F-BR Forged Brass Global Type F Cam and Groove Hose Fitting User Manual

Model: G100-F-BR

1. PRODUCT OVERVIEW

The Dixon G100-F-BR is a robust forged brass global Type F cam and groove hose fitting. This fitting is designed with a straight body, featuring two openings for secure connection of hoses or pipes. It includes one male groove adapter end, intended for connection to female cam couplers, and one NPT male threaded end for integration with NPT male threaded connections. Constructed from brass, it provides excellent corrosion resistance, high-temperature ductility, and low magnetic permeability, making it suitable for various industrial applications.



Figure 1: Front view of the Dixon G100-F-BR fitting, showcasing the male groove adapter and NPT male threaded end.

2. COMPONENTS AND FEATURES

- **Male Groove Adapter End:** Designed for quick and secure connection to female cam couplers.
- **NPT Male Threaded End:** Provides a standard threaded connection for compatibility with NPT female threaded pipes or hoses.
- **Forged Brass Construction:** Ensures durability, resistance to corrosion, and reliable performance in high-temperature environments.
- **Straight Body Design:** Facilitates direct connection between two lines.

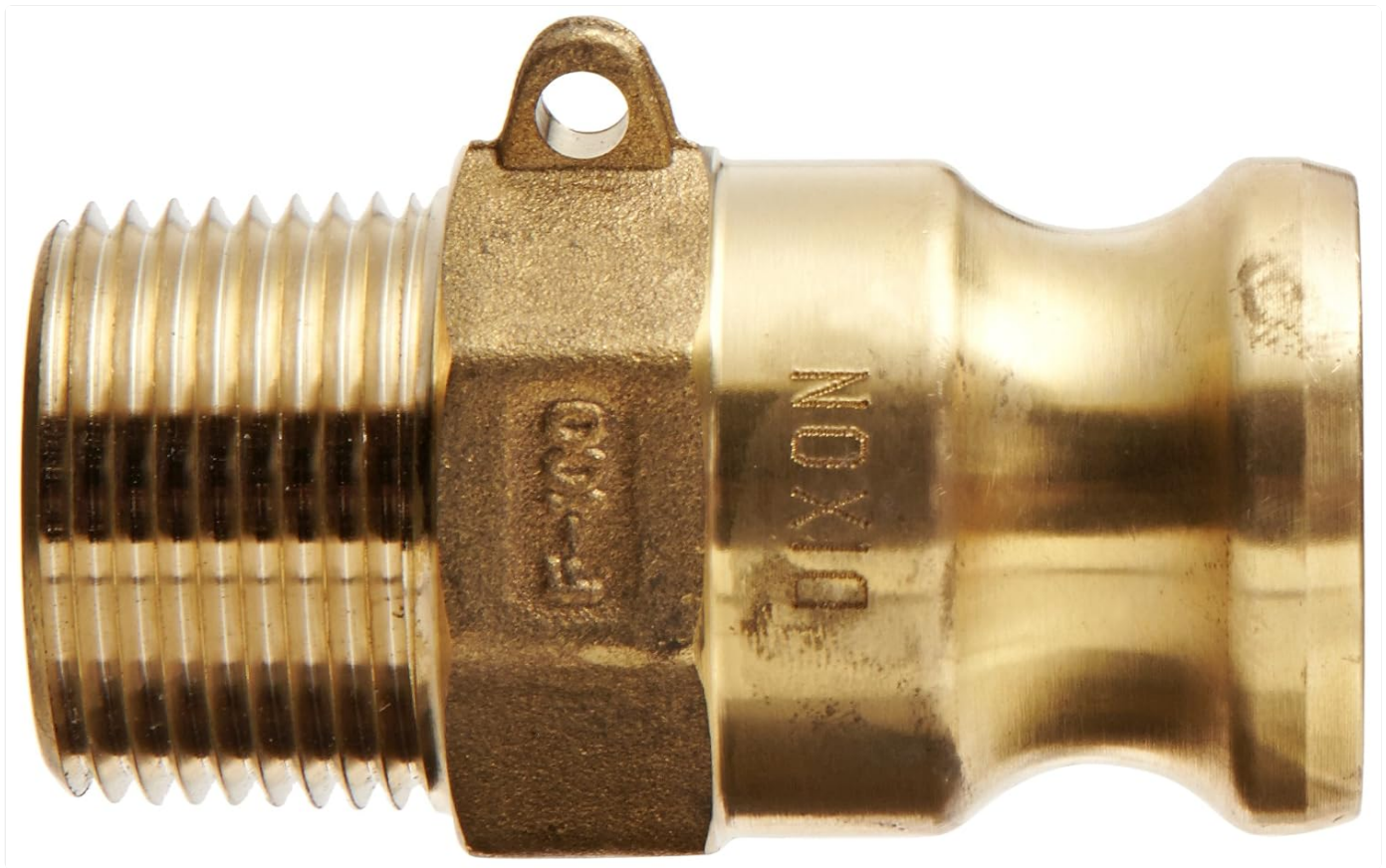
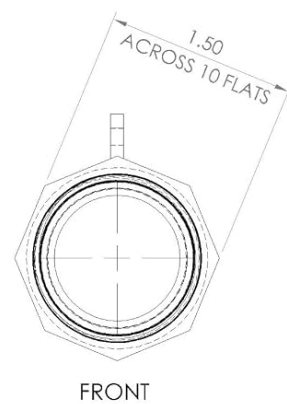
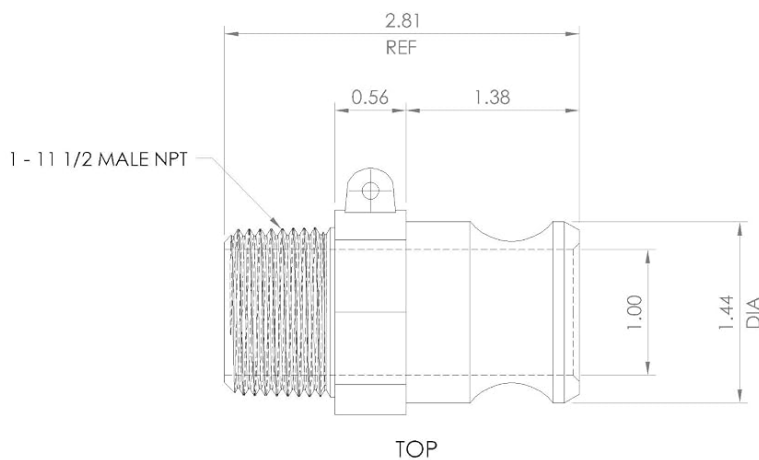
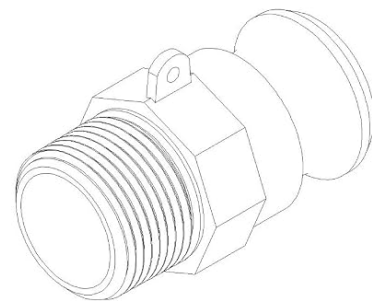


Figure 2: Side view of the fitting, showing the hexagonal section for wrenching and the "DIXON" brand engraving.

B007YZIMPY



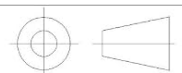
ITEM NAME:
Dixon G100-F-BR ASTM 38000 Forged Brass Global Type F Cam and Groove Hose Fitting, 1" Plug x 1" NPT Male

ASIN :
B007YZIMPY

BRAND :
Dixon Valve & Coupling

MATERIAL :
Brass

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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3. SETUP AND INSTALLATION

Proper installation is crucial for ensuring a leak-free and secure connection. Follow these steps:

1. **Inspect Components:** Before installation, visually inspect the fitting and the mating components (female cam coupler and NPT female threaded connection) for any damage, debris, or wear. Ensure O-rings or gaskets are in good condition.
2. **Prepare Threads:** For the NPT male threaded end, apply an appropriate thread sealant (e.g., PTFE tape or pipe thread compound) to the male threads. This helps ensure a tight, leak-proof seal.
3. **Threaded Connection:** Carefully thread the NPT male end of the G100-F-BR fitting into the NPT female connection. Hand-tighten first, then use a wrench on the hexagonal section of the fitting to tighten it securely. Do not overtighten, as this can damage the threads or the fitting.
4. **Cam and Groove Connection:** For the male groove adapter end, align it with the female cam coupler. Insert the adapter fully into the coupler.
5. **Secure Cam Arms:** Close the cam arms on the female coupler. Ensure both cam arms are fully closed and locked into place. This creates a secure, quick-disconnect connection.
6. **Test for Leaks:** After installation, slowly introduce fluid or gas into the system and carefully check all connections for any signs of leakage. Address any leaks immediately by re-tightening or re-sealing connections as necessary.

4. OPERATING INSTRUCTIONS

The Dixon G100-F-BR fitting is designed for straightforward operation once installed. Its primary function is to provide a reliable connection point in fluid transfer systems.

- **Connecting:** To connect, ensure the male groove adapter is clean. Insert it into the corresponding female cam coupler and close the cam arms firmly until they snap into place.
- **Disconnecting:** To disconnect, ensure the system pressure is relieved. Open both cam arms on the female coupler and pull the male groove adapter out.
- **Flow Direction:** The fitting can be used in either flow direction, as it is a straight-through connector.
- **Pressure and Temperature:** Always operate within the specified pressure and temperature limits for brass fittings and the specific application. Refer to the specifications section for details.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Dixon G100-F-BR fitting.

- **Cleaning:** Periodically clean the fitting, especially the cam and groove interface, to remove any accumulated dirt, debris, or residue that could impede proper sealing or operation. Use a soft cloth and mild cleaning agents if necessary.
- **Gasket/Seal Inspection:** Regularly inspect the gaskets or O-rings within the female cam coupler (not part of this fitting, but critical for the connection) for signs of wear, cracking, or compression set. Replace them as needed to maintain a leak-free seal.
- **Thread Inspection:** Check the NPT threads for any damage or corrosion. If re-applying thread sealant, ensure old sealant residue is removed.
- **Storage:** When not in use, store the fitting in a clean, dry environment to prevent contamination and corrosion.
- **Material Compatibility:** Ensure that the fluids or gases passing through the fitting are compatible with brass to prevent material degradation.

6. TROUBLESHOOTING

Common issues and their potential solutions:

Problem	Possible Cause	Solution
Leakage at cam and groove connection	Damaged or worn gasket/O-ring in female coupler; debris in connection; cam arms not fully closed.	Inspect and replace gasket/O-ring; clean connection surfaces; ensure cam arms are fully engaged.
Leakage at NPT threaded connection	Insufficient thread sealant; damaged threads; improper tightening.	Re-apply thread sealant; inspect threads for damage and replace if necessary; ensure proper tightening.
Difficulty connecting/disconnecting cam and groove	Debris; damaged cam arms or grooves; excessive pressure.	Clean connection; inspect for physical damage; ensure system pressure is relieved before disconnecting.

7. SPECIFICATIONS

Attribute	Detail
Model Number	G100-F-BR
Size	1" Plug x 1" NPT Male
Material	Forged Brass
Connector Type	Cam and Groove (Type F) to NPT Male
Thread Type	NPT (National Pipe Taper)
Product Dimensions (L x W x H)	3 x 1.7 x 1.7 inches
Item Weight	0.8 Pounds (12.8 ounces)
Manufacturer	Dixon Valve & Coupling
Country of Origin	China

8. WARRANTY INFORMATION

Dixon products are manufactured to high standards. For specific warranty details regarding the G100-F-BR fitting, please refer to the official warranty statement provided by Dixon Valve & Coupling or contact their customer service directly. General warranties typically cover defects in materials and workmanship under normal use and service.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact Dixon Valve & Coupling directly through their official website or customer service channels. Have your product model number (G100-F-BR) and any relevant purchase information ready when contacting support. You can find more information and contact details on the official Dixon website:www.dixonvalve.com

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