How To Select

Proper coupler selection is important because of the variety of media for which they are used.

Four basic factors should be considered to assure proper selection:

*Type – Operation – Flow – Media*

Type

All couplers consist of two basic components – a socket and a plug.
The type of coupler varies by the valving arrangements in these two components.

One Way Shut-Off

In a “One Way Shut-Off,” only the socket has valving to shut off the flow when disconnected; it is, therefore, installed on the pressure side of the line. The plug has no valving and exhausts the downstream line at disconnect.

Two Way Shut-Off

The “Two Way Shut-Off” provides valving in both the socket and the plug, thereby shutting off flow at both of the disconnected ends. Originally developed for hydraulic lines, they are suitable for many other media because of the variety of metals and seal compounds offered.

Straight-Thru

“Straight-Thru” couplers, as the name implies, do not have valving in either the socket or the plug. Therefore, both ends of the line are exhausted at disconnect.

NOTE: The One Way Shut-Off is the only type offered by DYNA-CON. Please contact Foster Manufacturing for alternate types.

Operation

Operation refers to the action required to connect and disconnect a coupler.

Operation is a function of sockets only and does not vary for plugs.

Manual

Manual sockets require manual retraction of the sleeve to both connect and disconnect the plug.

Automatic

Automatic sockets accept the plug by simple insertion into the socket and do not require retraction of the sleeve to connect.

Safety Coupler

Safety sockets are a variation of automatic operation. The socket accepts the plug by insertion. The sleeve is moved straight forward to lock and turn on the air. The sleeve is moved back by rotating first to the left and then to the right. This shuts off the supply line, exhausts the downstream line, and then releases the plug.
Flow
The most important factor in properly sizing couplers is flow. Flow data is given throughout the catalog for industrial interchange design couplers. Most One Way Shut-Off non-standard couplers have the same flow as the same basic size industrial interchange design. All flows shown are for FPT couplers.

Media
The media flowing through the coupler will usually determine the type. Compressed air, many other gasses, and some liquids can be handled by One Way Shut-Off couplers. Hydraulic fluids as well as many other liquids and some gasses require Two Way Shut-Off.

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QUICK COUPLINGS

One Way Shut-Off Couplings

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<td>DC Series</td>
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<td>Coupling and Plug Part Numbers</td>
<td>7-8</td>
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AIR LINE PRODUCTS

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<th>Product</th>
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<td>Blow Guns</td>
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REFERENCE

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<th>Product Families</th>
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<tr>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>
D Series

One-Way Shut-Off Design
Manual Connect Type
Industrial Interchange Style
1/4” to 1/2” Body Sizes
1/8” to 3/4” Connection Sizes

The DYNA-CON D Series offers all the basic features necessary for a long-wearing one-way shut-off coupling. Ideal for any industrial type pneumatic application where quick connections and disconnections are required.

SPECIFICATIONS
Construction: Brass body & steel sleeve
Seal: Buna-N
Working Pressure: 300 PSIG; Vacuum to 26”Hg (connected)
Sizes: 1/4” through 1/2” (connection size 1/8” through 3/4”)
Recommended Application: compressed air, grease, oil, and limited vacuum service
Interchangeability: D Series couplings are interchangeable with other industrial couplings that comply with MIL-C-4109.

FEATURES
• Lowest cost, general purpose coupler
• Positive locking mechanism
• 65% more ball retention
• Precision leakproof seal
• Heavy steel sleeve

SEE PAGES 7 & 8 FOR PART NUMBERS
DW & DM Series

DW Series

Universal Coupler
One-Way Shut-Off Design
Automatic Connect Type
1/4” to 3/8” Body Sizes
1/4” to 3/8” Connection Sizes

The DYNA-CON DW Series push-type coupler accepts these popular plug profiles. (see notes below)

INDUSTRIAL
INTERCHANGE
(MIL-C-4109)
(1/4” & 3/8”)

ARO 210
INTERCHANGE
(1/4” only)

AUTOMOTIVE
INTERCHANGE
(Tru-Flate)
(1/4” & 3/8”)

SPECIFICATIONS
Construction: Steel with zinc clear chromate finish.
Seal: Buna-N
Working Pressure: 150 PSI (10 bar)
Recommended Application: Compressed air
Interchangeability:
1/4”- (MIL-C-4109), ARO 210, Automotive (Tru-Flate)
3/8”- Industrial Interchange, Automotive (Tru-Flate)

FEATURES
• Greater flow capacity than standard couplers.
• Anti-snag sleeve design prevents accidental disconnects. Specially molded Buna-N seal insures ease of connection and air tight performance.
• Couplers are zinc clear chromate plated steel and have swivel action.

SEE PAGES 7 & 8 FOR PART NUMBERS

DM Series

One-Way Shut-Off Design
Automatic Connect Type
Industrial Interchange Style
1/4” to 1/2” Body Sizes
1/8” to 3/4” Connection Sizes

The DYNA-CON DM Series is designed for one hand connection of pipe or machine mounted sockets, or for easier two hand connection of overhead hose drops.

• Long wearing pin type locking mechanism with greater plug contact
• One piece sleeve with rear crimp
• Precision leakproof seal
• One hand operation

SPECIFICATIONS
Construction: Brass body and sleeve for corrosion resistance and spark elimination.
Seal: Buna-N
Working Pressure: 300 PSIG; Vacuum to 26”Hg (connected)
Recommended Application: Air, oil, grease and limited vacuum.
Interchangeability: DM Series couplings are interchangeable with other industrial couplings that comply with MIL-C-4109.
Performance Data: Refer to table on page 3.

FEATURES
• Pin Latching. Hardened stainless pins are resistant to deformation.
• Quick, Easy Coupling. Axial pin movement and polished pin ends allow reduced engagement friction for smooth, easy coupling action. In addition, the sleeve outer surface provides a positive grip surface for trouble free uncoupling.
• Brass Construction. Provides maximum resistance to corrosion from air system moisture.
SAFETY VENT

One-Way Shut-Off Design
Zero Pressure Connect Type
Industrial Interchange Style
3/8" & 1/2" Body Sizes, 3/8", 7/16" & 1/2" Connection Sizes

The DYNA-CON DP Series Safety Vent couplings are designed for maximum user safety and are used on compressed air systems for connecting supply line hoses to air tools and other air operated machinery. Couplings allow for safe and easy connection and disconnection under zero downstream line pressure to help prevent the possibility of an inadvertent or unplanned disconnect.

SPECIFICATIONS

Outside Cover: Celcon® (Acetal Resin)
Internals: Hardened steel, hard anodized aluminum
Interchangeability: With all industrial quick couplings that comply with MIL-C-4109.
Operation: “Zero pressure connect/disconnect.” Connect – insert plug, rotate sleeve, slide forward (rotate if lock is desired). Disconnect – rotate sleeve, slide back, and rotate. (see diagram above)
Working Pressure: 235 PSI (16 bar)
Vacuum Rating: 27” in closed position
Body Sizes: 3/8” and 1/2"
Connection Sizes: 3/8”, 7/16” and 1/2"

FEATURES

• No-scratch, non-marring sleeve eliminates work surface nicks and scratches. Meets ISO 4414 and 6150B. Rubber or polyurethane hose connection.

SEE PAGES 7 & 8 FOR PART NUMBERS
SAFETY VENT

One-Way Shut-Off Design
Zero Pressure Connect Type
Industrial Interchange Style
1/4” to 3/4” Body Sizes, 1/4” to 1” Connection Sizes

The DYNA-CON DC Series Safety Vent couplings allow for safe and easy connection and disconnection under zero downstream line pressure to help prevent the possibility of an inadvertent or unplanned disconnect.

Socket end  Body  Sleeve

Depressurized & unlocked  Pressurized & locked
(plug can now be inserted or removed)

Depressurized & locked

Sleeve operation (Must have plug inserted for sleeve to operate.)

SPECIFICATIONS

Construction: Zinc with clear chromate plated steel body case hardened.

Seal: Buna-N

Interchangeability: With all industrial quick couplings that comply with MIL-C-4109.

Operation: “Zero pressure connect/disconnect.” Connect – insert plug, slide forward. Disconnect – rotate sleeve, slide back, and rotate. (see diagram above)

Working Pressure:
300 PSIG; Vacuum to 26”Hg (connected)

Body Sizes: 1/4” through 3/4”
Connection Sizes: 1/4” through 1”

Performance Data: Refer to table on page 3.

FEATURES

Extra thick heat-treated steel walls to provide extended service life.

Zero pressure connect/disconnect design vents downstream pressure for safe, easy connect/disconnect.

Diagram demonstrates principle of operation

“O-ring” plug seal for improved leak-free performance.

No valve, spring or washer to block flow of air or need replacement.

Safe, Easy to Use. When disconnecting, all downstream air is bled off automatically. The hazard of flying or snaking air hoses is totally eliminated. Connecting the coupling is easier since the action does not require engagement under full line pressure.

Washerless. The Safety Vent socket uses “O-rings” instead of washers for sealing the mating plug. The coupling does not leak, coupling life is greatly extended and maintenance costs are drastically reduced.

More Efficient. By eliminating the need for restrictive poppet valves the design provides up to 30% greater air flow compared to a standard coupling. Air tools operate more efficiently because of the reduced pressure drop across the coupling.

SEE PAGES 7 & 8 FOR PART NUMBERS
## ONE-WAY SHUT-OFF DESIGN
### INDUSTRIAL INTERCHANGE STYLE

<table>
<thead>
<tr>
<th>BODY SIZE</th>
<th>END CONNECTION SIZES</th>
<th>FEMALE PIPE THREAD</th>
<th>MALE PIPE THREAD</th>
<th>HOSE BARB (requires hose clamps)</th>
<th>PUSH-ON HOSE BARB</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>BODY SIZE</th>
<th>END CONNECTION SIZES</th>
<th>FEMALE PIPE THREAD</th>
<th>MALE PIPE THREAD</th>
<th>HOSE BARB (requires hose clamps)</th>
<th>PUSH-ON HOSE BARB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>P480.A D480 DM480</td>
<td>P481.A D481 DM481</td>
<td>P482.A D482 DM482</td>
<td></td>
</tr>
</tbody>
</table>

* R = Rubber Hose  P = Poly Hose  ** for Rubber or Poly Hose  ***Plugs are zinc-plated, case-hardened steel.

### Optional plugs for 1/4" DW UNIVERSAL SERIES COUPLERS

**ARO 210 SERIES**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>THREAD SIZE</th>
<th>ARO#</th>
</tr>
</thead>
<tbody>
<tr>
<td>P221</td>
<td>1/8 MPT</td>
<td>2607</td>
</tr>
<tr>
<td>P240</td>
<td>1/4 FPT</td>
<td>2609</td>
</tr>
<tr>
<td>P241</td>
<td>1/4 MPT</td>
<td>2608</td>
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</tbody>
</table>

**TRU-FLATE PLUGS**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P740</td>
<td>1/4 FPT</td>
</tr>
<tr>
<td>P741</td>
<td>1/4 MPT</td>
</tr>
<tr>
<td>P742</td>
<td>1/4 I.D. HOSE STEM</td>
</tr>
</tbody>
</table>

**TRU-FLATE PLUGS**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P760</td>
<td>3/8 FPT</td>
</tr>
<tr>
<td>P761</td>
<td>3/8 MPT</td>
</tr>
<tr>
<td>P762</td>
<td>3/8 I.D. PUSH-ON HOSE STEM</td>
</tr>
</tbody>
</table>
**Part Numbers**

### QUICK COUPLINGS

**Part Numbers**

- **PLUGS***
  - **FEMALE PIPE THREAD**
    - 1/4”
    - 3/8”
    - 1/2”

- **MALE PIPE THREAD**
  - 1/4”
  - 3/8”
  - 1/2”
  - 3/4”

- **HOSE BARB (requires hose clamps)**
  - 1/4”
  - 3/8”
  - 1/2”
  - 3/4”

### ONE-WAY SHUT-OFF DESIGN

**INDUSTRIAL INTERCHANGE STYLE**

- **SOCKETS**
  - **FEMALE PIPE THREAD**
    - 1/4”
    - 3/8”
    - 1/2”
    - 3/4”

- **MALE PIPE THREAD**
  - 1/4”
  - 3/8”
  - 1/2”
  - 3/4”

- **HOSE BARB (requires hose clamps)**
  - 1/4”
  - 3/8”
  - 1/2”
  - 3/4”

### Optional plugs for 3/8” DW UNIVERSAL SERIES COUPLERS

**TRU-FLATE PLUGS**

- **TRU-FLATE PLUGS**
  - **CATALOG NO.**
    - P840
    - P860
    - P841
  - **THREAD SIZE**
    - 1/4 FPT
    - 1/4 FPT
    - 3/8 MPT

- **CATALOG NO.**
  - P861
  - P862
  - 3/8 I.D. HOSE STEM

### Diagrams

- **3/4” plug profile**
- **1/2” plug profile**

---

* R = Rubber Hose  
P = Poly Hose  
** for Rubber or Poly Hose  
***Plugs are zinc-plated, case-hardened steel.

Foster Manufacturing Company, Inc. • (417) 881-6600 • www.couplers.com
**OSHA CONFORMANCE**
Meets OSHA Rule and Regulations 29 CFR 1910.242(b) and 1910.95 for pressure relief and noise control. (Except nozzles noted below.)

**DYNA-CON BG2 Series Blowguns**

**DYNA-CON BG2 Series Blowguns are available with choice of eight nozzles.** Increase the versatility of the blow gun by choosing from eight models tailored to your specific cleaning or drying applications. Replacement nozzles are available, which may also be used with competitive makes having 1/8” NPSM threads. These heavy duty blow guns combine durability, excellent performance, and safety. Inlet is 1/4” NPT with 150 maximum psi inlet pressure.

**MATERIALS**

<table>
<thead>
<tr>
<th>GUN: Zinc Diecast, Nickel Plated</th>
<th>NOZZLES: Brass</th>
<th>EXTENSIONS: Zinc Plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever: Steel, Nickel Plated</td>
<td>BGN6 needle tip: Stainless</td>
<td>Base: Brass</td>
</tr>
<tr>
<td>Valve Stem: Brass</td>
<td>BGN7 tip: Rubber Coated Brass</td>
<td>Tube: Copper (Vinyl coat on flexible extension)</td>
</tr>
<tr>
<td>Seals: Buna-N</td>
<td>ADAPTER: Die Cast Zinc</td>
<td></td>
</tr>
</tbody>
</table>

**CATALOG NO.**

<table>
<thead>
<tr>
<th>COMPLETE GUN</th>
<th>NOZZLE ONLY</th>
<th>DESCRIPTION</th>
<th>FLOW CFM</th>
<th>OUTLET BLOCKED</th>
<th>NOISE LEVEL dbA</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG21</td>
<td>BGN1</td>
<td>Standard nozzle for general blowing and drying applications.</td>
<td>17.5</td>
<td>20</td>
<td>89.5</td>
</tr>
<tr>
<td>BG2B5</td>
<td>BGNB5</td>
<td>Air Screen nozzle reduces chip flyback.</td>
<td>5.0</td>
<td>18</td>
<td>85.0</td>
</tr>
<tr>
<td>BG25</td>
<td>BGN5</td>
<td>High flow safety nozzle for general dusting and chip removal.</td>
<td>20.0</td>
<td>20</td>
<td>89.0</td>
</tr>
<tr>
<td>BG26 (**)</td>
<td>BGN6</td>
<td>Needle tip nozzle for fine flow and for small holes.</td>
<td>(***)</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>BG27 (**)</td>
<td>BGN7</td>
<td>Rubber tipped nozzle for delicate surfaces and for blowing out fluid lines.</td>
<td>(**)</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>BG2X3</td>
<td>BGX3</td>
<td>Extension nozzle (3 inch) for extending reach.</td>
<td>15.0</td>
<td>21</td>
<td>85.5</td>
</tr>
<tr>
<td>BG2X6</td>
<td>BGX6</td>
<td>Extension nozzle (6 inch) for extending reach.</td>
<td>14.1</td>
<td>22</td>
<td>84.0</td>
</tr>
<tr>
<td>BG2X12</td>
<td>BGX12</td>
<td>Extension nozzle (12 inch) for extending reach.</td>
<td>13.3</td>
<td>24</td>
<td>85.5</td>
</tr>
<tr>
<td>(<strong>) (</strong>*</td>
<td>BGN2</td>
<td>Flexible extension nozzle (4 inch).</td>
<td>(***)</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>(<strong>) (</strong>*</td>
<td>BGN3</td>
<td>Flexible extension nozzle (12 inch).</td>
<td>(***)</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>BGADP</td>
<td></td>
<td>Quick change adapter allows user to switch nozzles easily.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* @100 PSI
** WARNING: Non self relieving style nozzles should only be used on air lines regulated to 30 psi.
*** Not for use with Quick Change Adapter.
BGQKIT

The DYNA-CON BGQKIT contains five of the most popular nozzles for industrial and automotive uses. This kit includes a high quality, lever-operated heavy-duty blow gun featuring a patented quick disconnect coupler which allows users to switch nozzles quickly and easily. This multi-use kit also contains a high flow safety nozzle, six inch extension safety nozzle, rubber tip nozzle, needle tip nozzle, and air-screen safety nozzle. For handy storage, a clear vinyl compartmented snap pouch is included.

BG4 SERIES

- Machined brass valve mechanism, nozzle inlet and hose inlet for strength.
- Lever style trigger for variable air flow.
- 1/4” NPT female inlet.
- 125 psi inlet maximum.
- Meets OSHA regulations: 1910.242(b) pressure relief
- 1910.95 noise level

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
<th>FLOW (CFM) @100 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG45</td>
<td>with High Flow Safety Nozzle</td>
<td>20.0</td>
</tr>
<tr>
<td>BG4x12</td>
<td>with 12” Extension Safety Nozzle</td>
<td>13.3</td>
</tr>
</tbody>
</table>

Nozzles and extensions with BG2 Series may also be used with this blow gun.
SWIVEL FITTINGS

DYNA-CON swivel fittings improve maneuverability and ergonomics when using air tools and spray guns. Functioning like a universal joint, it allows the hose to remain vertical at all times, which reduces operator fatigue, repetitive motion trauma, and fitting chafe. The non-mar series (plastic encapsulated) is ideal for applications where chip and scratch reduction is needed.

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
<th></th>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>190010A</td>
<td>Non-Mar 3/8&quot; FPT x 1/4&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190011A</td>
<td>Dual Swivel 3/8&quot; FPT x 3/8&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190012</td>
<td>1/2&quot; FPT x 1/2&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190040</td>
<td>Non-Mar 3/8&quot; FPT x 1/4&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190041</td>
<td>Single 3/8&quot; FPT x 3/8&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190042</td>
<td>Swivel 1/2&quot; FPT x 1/2&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190026A</td>
<td>Standard 1/4&quot; FPT x 1/4&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190029A</td>
<td>Swivel 3/8&quot; FPT x 1/4&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190027A</td>
<td>3/8&quot; FPT x 3/8&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190028</td>
<td>1/2&quot; FPT x 1/2&quot; MPT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Not for use with percussion tools. Maximum pressure 150 psi.

AIR HOSE ACCESSORIES/AIR CHUCKS

Three new DYNA-CON Air Chucks are now available. A right angle heavy-duty solid brass air chuck, a heavy duty straight body air chuck, and a dual air chuck for all your air fill needs. All three air chucks are available in 1/4 inch FNPT.

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC40</td>
<td>Right Angle Air Chuck, 1/4&quot; FPT</td>
</tr>
<tr>
<td>AC42</td>
<td>Air Chuck, Dual</td>
</tr>
<tr>
<td>AC45</td>
<td>Straight Body Air Chuck, 1/4&quot; FPT</td>
</tr>
</tbody>
</table>

3-WAY HOSE MANIFOLD

Add versatility to your compressed air systems and simplify multiple tool operations. The DYNA-CON 3-Way Hose Manifolds allow three work stations to use the same air supply. Each manifold accepts three quick couplers or outlet hoses. Manifold has female NPT inlet and three female NPT outlets. Manifolds are available in two inlet sizes, as shown below.

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>301787.01</td>
<td>3-Way 1/4&quot; Outlet x 1/4&quot; Inlet</td>
</tr>
<tr>
<td>301805</td>
<td>3-Way 1/4&quot; Outlet x 3/8&quot; Inlet</td>
</tr>
</tbody>
</table>
**Coupler Product Family**

**Air Line Product Family**