





# Fluid Conveyance Interconnection Solutions.



*Powering Business Worldwide*

# Air, Hydraulic, Fluid Transfer





## Compressed Air Standard Couplings - *Single Shut-off*

<p><b>G600 - I900 - T1100</b> General pneumatics</p>  <p>Ø 5.5, 8 and 11 mm ISO 6150B profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked</p>	<p><b>G700 - I1000</b> General pneumatics</p>  <p>Ø 7 and 10 mm European profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked</p>	<p><b>T1300</b> General pneumatics</p>  <p>Ø 13 mm Proprietary profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked</p>	<p><b>1000 Series</b> General pneumatics and fluid transfer</p>  <p>Ø 5.5 mm ISO 6150B profile Up to 140 bar Brass and stainless steel NBR seals ▲ Ball-locked</p>
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## Compressed Air Standard Couplings - *Single Shut-off*

<p><b>3000 - 4000 - 5000 - 6000 Series</b> General pneumatics, industrial breathing air and fluid transfer</p>  <p>Ø 5.5 to 15 mm ISO 6150B profile Up to 140 bar Brass - Zinc-plated steel NBR seals ▲ Ball-locked</p>	<p><b>210 - 310 Series</b> General pneumatics</p>  <p>Ø 5.5 and 8 mm ARO interchange Up to 17 bar Zinc-plated steel NBR seals Pin-lock</p>	<p><b>Gas Couplings</b> <b>600 - 700 Series</b> Welding, general pneumatics, breathing equipment, construction and shipyards</p>  <p>Size 1/4" Proprietary profile, up to 100 bar Brass, NBR seals Single shut-off, ball-locked Safety sleeve-lock For oxygen or acetylene use</p>	<p><b>Refrigerant Couplings</b> <b>5400 Series</b> Air conditioning, refrigerant, gaseous and fluid transfer</p>  <p>Sizes 1/4", 1/2", 3/4" &amp; 1" Up to 207 bar Braze or threaded end connection CR seals Screw-to-connect Low fluid loss or air inclusion</p>
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## Compressed Air Safety Couplings - *Single Shut-off*

<p><b>GD10500 - ID10900 Safeline Series</b> General pneumatics</p>  <p>Ø 5.5 and 8 mm ISO 6150B profile - To ISO 4414 Up to 16 bar Aluminium - Zinc-plated steel NBR seals Push-button type, no hosewhip effect</p>	<p><b>GD18500 - ID18900 - TD18300 Safeline Series</b> General pneumatics and automotive plants</p>  <p>Ø 5.5, 8 and 11 mm ISO 6150C profile - To ISO 4414 Up to 16 bar Aluminium - Zinc-plated steel NBR seals Push-button type, no hosewhip effect</p>	<p><b>2CC - 24CC Series</b> General pneumatics</p>  <p>Ø 5.5 mm: ISO 6150B &amp; ARO 210 profiles Ø 7.2 mm: European profile Up to 17 bar Nickel-plated brass - Zinc-plated steel - ABS PC - NBR seals Unrestricted flow-passage, no hosewhip effect</p>	<p><b>Full-Bore Series</b> General pneumatics</p>  <p>Ø 8 and 11 mm ARO industrial interchange Up to 15 bar Zinc-plated steel NBR seals No hosewhip effect</p>
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## Compressed Air Accessories





<p><b>S100 - S200 Series</b> Blowguns and general pneumatics</p>  <p>10 to 20 bar Nylon or metal blow-guns Progressive flow control S 100 Series available with airtight screen S 200 Series to OSHA</p>	<p><b>E700 - M200 - M280 Series</b> General pneumatics and hydraulics</p>  <p>Adaptors, Ys, tees, elbows, crosses, hose tails 35 to 250 bar Zinc-plated steel - Nickel-plated brass</p>	<p><b>SPUBD Series</b> General pneumatics and fluid transfer</p>  <p>Air-coils with swivel connections From 9 bar max Polyurethane</p>	<p><b>ENR Series</b> General pneumatics</p>  <p>Air hose reel Up to 15 bar Polyurethane braid hose, steel guard 180° rotating support</p>
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## Hydraulic Ball-Locked Couplings - *Double shut-off*





<p><b>H5000 Series</b> Oil, chemicals, transport, public works, agriculture, iron &amp; steel, food processing industries</p>  <p>Sizes 1/8" to 2" Proprietary profile, up to 1000 bar Available in zinc-plated steel, brass and stainless steel - NBR, FKM or EPDM seals Excellent pressure performance, optional safety sleeve lock</p>	<p><b>HK Series ▼</b> Chemicals, transport, public works, agriculture, iron and steel, refrigeration and food processing industry</p>  <p>Sizes 1/8" to 3" to ISO 7241-1B, up to 345 bar Available in steel, brass and stainless steel NBR, FKM or EPDM seals ▲ Optional Lloyds Registry certification (HKFR version), alternative single shut-off or straight-through versions, optional safety sleeve lock, high flow rates</p>	<p><b>IA Series</b> Hydraulic circuits and equipment used in agriculture and forestry machinery</p>  <p>Size 1/2" To ISO 7241-1A, up to 250 bar Zinc-plated steel NBR seals Push-pull sleeve (bulkhead mounting) Wide offer of end connections</p>	<p><b>H15000 Series</b> Hydraulic systems and equipment used in agriculture and public works</p>  <p>Sizes 1/4" to 1" To ISO 7241-1A, up to 315 bar Zinc-plated steel NBR seals</p>
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# Air, Hydraulic, Fluid Transfer





## Hydraulic Screw-to-Connect Couplings - Double shut-off

<p><b>W6000 Series</b></p> <p>All industrial and severe applications, public works, offshore and lifting equipment</p>  <p>Sizes 1/4" to 2" Proprietary profile, up to 1100 bar Available in zinc-plated and stainless steel NBR or FKM seals ▲ Resistant to heavy mechanical loads</p>	<p><b>W36000 Series</b></p> <p>Agriculture, public works, forestry machinery and snow groomers</p>  <p>Sizes 1/4" to 1 1/4" Proprietary profile, up to 450 bar Zinc-plated steel - NBR seals Optional safety device, wide choice of end connections, resistant to heavy mechanical loads</p>	<p><b>W46000 Series</b></p> <p>Tractor-trailor connections, HGVs and trucks</p>  <p>Sizes 3/4" and 1" Proprietary profile, up to 250 bar Zinc-plated steel NBR seals</p>	<p><b>FD96 Series</b></p> <p>Hydraulic fluid transfer, high impulse hydraulics, oil field, mining</p>  <p>Sizes 1/4" to 2" Up to 600 bar High resistance zinc &amp; black oxide plated carbon steel Low connection force, non-spill design</p>
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## Hydraulic Screw-to-Connect Couplings - Double shut-off

<p><b>5100 Series</b></p> <p>Hydraulics and fluid transfer, on-highway hydraulic wet lines, dump and refuse vehicles, bulk liquid transfer</p>  <p>Sizes 1/4" to 1 1/2" Up to 207 bar Brass with high resistance zinc-plated carbon steel components, NBR seals Connect against pressure, minimal fluid loss during disconnection, reduced environmental hazards</p>	<p><b>FD85 Series</b></p> <p>Oilfields, offshore drilling, construction, oil and gas</p>  <p>Sizes 3/4" to 2" Up to 345 bar Zinc-plated carbon steel NBR seals ▲ Connect against pressure, high vibration and impulse applications</p>	<p><b>FD83 Series</b></p> <p>Electronics liquid based cooling, thermal management systems, industrial fluid transfer</p>  <p>Size 1" 303 stainless steel ■ EPDM seals ▲ Dual interlock, reliable performance and minimal spillage - Identical halves, maintenance friendly, unrestricted flow passage</p>	<p><b>FD86 Series</b></p> <p>Hydraulic and fluid transfer, mining equipment</p>  <p>Sizes 1" to 1 1/4" Up to 345 bar High resistance zinc-plated carbon steel NBR seals Acme threads, high impulse capability Low fluid loss and air inclusion</p>
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## Hydraulic Flat-Face Couplings - Double shut-off

<p><b>FF - FFCUP Series</b> ◆</p> <p>Hydraulic pumps, jacks, lifting &amp; handling equipment, public works, agriculture, iron and steel industry</p>  <p>FF: Sizes 1/4" to 1" - Safety sleeve-lock FFCUP plug: Sizes 3/8" and 1/2" for connect-under-pressure applications To ISO 16028, up to 350 bar Zinc-plated steel - NBR+AU seals ▲ Excellent mechanical performance</p>	<p><b>MLFF Series</b> ◆</p> <p>Construction, agriculture, oil and gas, material handling, railways, iron and steel industry and marine</p>  <p>Sizes 1/4" to 1" To ISO 16028, up to 250 bar AISI 316L stainless steel NBR+AU, EPDM or FKM seals Safety sleeve-lock Resistant to aggressive environments</p>	<p><b>MLDB Series</b> ◆</p> <p>Chemicals, petrochemicals, pharmaceuticals, cosmetics, cooling and food processing industry</p>  <p>Sizes 1/4" to 1" Proprietary profile, up to 25 bar AISI 316L stainless steel FKM or EPDM seals ▲ Safety sleeve-lock, excellent flow Resistant to aggressive fluids and corrosion,</p>	<p><b>FD49 Series</b></p> <p>Hydraulic and fluid transfer, hydraulic tools</p>  <p>Sizes 3/8" to 3/4" HTMA interchange, up to 207 bar High resistance zinc-plated carbon steel Teflon channel seal, NBR O-ring backup One-hand push-to-connect, high flow low Δp Low fluid loss and air inclusion</p>
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## Agricultural Couplings

<p><b>Q9000 Series</b></p> <p>Tractor brake systems on agricultural and forestry vehicles</p>  <p>Ø 8 mm To ISO 5676 &amp; NFU 16-006 Up to 150 bar Zinc-plated steel NBR seals Low fluid loss or air inclusion</p>	<p><b>K8000</b></p> <p>Tractors, farm and forestry machinery</p>  <p>Ø 8 mm Proprietary profile, up to 250 bar Zinc-plated steel NBR seals Low fluid loss or air inclusion</p>	<p><b>FD48 Series</b></p> <p>Hydraulic and fluid transfer, agricultural equipment</p>  <p>Size 1/4" SM-250 Interchange, up to 210 bar High resistance zinc-plated carbon steel NBR seals PUSH-PULL™ ball latch Excellent high and low pressure sealing</p>
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## Check Valves

<p><b>R4000 Series</b></p> <p>All industries, agriculture, public works and fluid transfer lines</p>  <p>Sizes 1/8" to 2" Proprietary profile, up to 700 bar Available in zinc-plated steel, brass and stainless steel NBR or FKM seals ▲ Standard cracking pressures: 0.5 and 1 bar ★</p>
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## High Pressure Hydraulic Couplings

<p><b>2UH Series</b></p> <p>Emergency release and rescue equipment, lifting cylinders, shears and pullers</p>  <p>Size 1/4" Proprietary profile; up to 1500 bar High tensile steel NBR seals Ball-locked</p>	<p><b>WA56000 - HP3 Series</b></p> <p>Hydraulic jacks, clamping systems, lifting and emergency release equipment</p>  <p>W56000: Sizes 1/4" &amp; 3/8" (poppet valving) HP3: Size 3/8" (ball valving) Proprietary profiles, up to 700 bar Zinc-plated steel NBR seals</p>	<p><b>FD35 Series</b></p> <p>Rugged high-pressure hydraulic applications, hydraulic rams and other tools</p>  <p>Sizes 9/16" &amp; 3/8" Up to 700 bar High resistance zinc-plated carbon steel FKM seals HD back-up ring, safety sleeve-lock Excellent high and low pressure self-sealing</p>
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## Beverage Couplings

<p><b>2HGL - 2KGL Series</b></p> <p>Beverage dispensers</p>  <p>Fittings, plugs and sockets Brass - Stainless steel - Plastic EPDM seals</p>
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# Air, Hydraulic, Fluid Transfer

## Hydraulic Ball-Locked Couplings - *Straight-through*

### L7000 Series

Pressure washing, steam-cleaning equipment, fluid transfer lines and hydraulic circuits



Sizes 1/8" to 2"  
Proprietary profile, up to 1000 bar  
Available in zinc-plated steel, brass and stainless steel  
NBR, FKM or EPDM seals

### ST Series

Pressure washing, steam-cleaning equipment, fluid transfer lines and hydraulic circuits



Sizes 1/8" to 2 1/2"  
Proprietary profile, up to 520 bar  
Available in zinc-plated steel (plugs only), brass and stainless steel  
NBR, FKM or EPDM seals ▲

## Diagnostic Couplings

### FD15 Series

Engine & lubricating oil, transmission & hydraulic fluid in mobile & stationary construction, utility & military equipment



Sizes 1/8", 1/4"  
FD15-1000-04 to MIL-V-81940/2-1  
Plated steel with brass internal components  
NBR seals  
Operating temperature range: -53°C to +135°C

### FD90 Series

Diagnostic pressure testing for hydraulic systems



Size 1/4"  
High resistance zinc-plated carbon steel  
NBR seals  
One-hand push-to-connect, self-sealing  
Minimal fluid loss and low air inclusion

## Special Applications

### 2HKIG - 2HKIL Series

Chemicals, general industry, food and beverage, military and aerospace



Size 1/4"  
Proprietary profile, up to 100 bar  
Stainless steel  
NBR seals  
Socket also available with right-angle connection  
2 profiles to avoid crossing lines

### FD17 Series

SCBA refilling and buddy breathing applications



Size 1/4"  
Up to 310 bar  
Certified on SCBA equipment to NIOSH, NFPA 1981 and CRN  
Stainless steel or aluminium  
NBR seals

### FD69 Series

High pressure water blast, bridge/concrete repair, paint stripping, shipyards



Size 1/2"  
High resistance zinc-plated carbon steel, plated or stainless steel  
Buna-N seals  
HD back-up ring, safety sleeve lock  
Straight through design

## Moulding Couplings

### J50000 Series

Injection mould cooling or heat regulation, electronic system and heat-transfer fluid cooling



Ø 6 and 9 mm  
Proprietary profile, up to 50 bar  
Stainless steel - Brass  
FKM seals  
Double shut-off, vibration-resistant

### FLO-TEMP™ Series

Cooling or heat regulation of injection moulds



Ø 6, 9 and 16 mm  
Proprietary profile, up to 14 bar  
Brass  
FKM seals  
Straight-through

## Leak-Testing & Filling Connectors

Wide variety of applications including air conditioners, vending machines, ice makers, gas stoves, fireplaces, compressors, gas tanks, beverage dispensers, refrigerators, engine blocks, mufflers.

Quick Seal® leak test plugs and filling connectors are widely used as time-saving, cost-effective tools for instant hook-up of vacuum and pressure lines for testing, charging and other applications requiring a quick, leak-free connection.



## Custom Couplings

Eaton will develop custom quick-disconnect couplings for customers who need a product to perform beyond industry standards. Whether a custom coupling for the electronic cooling on the world's most sophisticated super computer or a self-contained breathing apparatus coupling for first responders, Eaton's dedicated and experienced design engineering team will work with you to develop a quick-disconnect coupling solution.

## Notes

- ▲ Alternative seal materials available.
- ▼ HK Series also available for Oil & Gas (HKFR series - API 16D certified).
- ◆ Also available with colour-coded rings.
- Alternative body material available.
- ★ Alternative cracking pressure on request.



美国 EATON Hansen Gromelle Quick Couplings  
快速接头中国总代理

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