





HANSEN™ QUICK SEAL® COUPLEURS GROMELLE™




Fluid Conveyance
Interconnection Solutions.

Air, Hydraulic, Fluid Transfer





Compressed Air Standard Couplings Single Shut-off

G600 - I900 - T1100	G700 - I1000	T1300	1000 Series
General pneumatics 	General pneumatics 	General pneumatics 	General pneumatics and fluid transfer 
Ø 5.5, 8 and 11 mm ISO 6150B profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked	Ø 7 and 10 mm European profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked	Ø 13 mm Proprietary profile Up to 20 bar Nickel-plated brass NBR seals Ball-locked	Ø 5.5 mm ISO 6150B profile Up to 140 bar Brass and stainless steel NBR seals Ball-locked





Compressed Air Standard Couplings Single Shut-off

3000 - 4000 - 5000 - 6000 Series	210 - 310 Series	Gas Couplings 600 - 700 Series	Refrigerant Couplings 5400 Series
General pneumatics, industrial breathing air and fluid transfer 	General pneumatics 	Welding, general pneumatics, breathing equipment, construction and shipyards 	Air conditioning, refrigerant, gaseous and fluid transfer 
Ø 5.5 to 15 mm ISO 6150B profile Up to 140 bar Brass - Zinc-plated steel NBR seals Ball-locked	Ø 5.5 and 8 mm ARO interchange Up to 17 bar Zinc-plated steel NBR seals Pin-lock	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	Sizes 1/4", 1/2", 3/4" & 1" Up to 207 bar Brazed or threaded end connection CR seals Screw-to-connect Low fluid loss or air inclusion





Compressed Air Safety Couplings Single Shut-off

GD10500 - ID10900 Safeline Series	GD18500 - ID18900 - TD18300 Safeline Series	2CC - 24CC Series	Full-Bore Series
General pneumatics 	General pneumatics and automotive plants 	General pneumatics 	General pneumatics 
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	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	Ø 5.5 mm: ISO 6150B & 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	Ø 8 and 11 mm ARO industrial interchange Up to 15 bar Zinc-plated steel NBR seals No hosewhip effect

Compressed Air Accessories

S100 - S200 Series	E700 - M200 - M280 Series	SPUBD Series	ENR Series
Blowguns and general pneumatics 	General pneumatics and hydraulics 	General pneumatics and fluid transfer 	General pneumatics 
10 to 20 bar Nylon or metal blow-guns Progressive flow control S 100 Series available with airtscreen S 200 Series to OSHA	Adaptors, Ys, tees, elbows, crosses, hose tails 35 to 250 bar Zinc-plated steel - Nickel-plated brass	Air-coils with swivel connections From 9 bar max Polyurethane	Air hose reel Up to 15 bar Polyurethane braid hose, steel guard 180° rotating support

Hydraulic Ball-Locked Couplings Double shut-off

H5000 Series	HK Series	IA Series	H15000 Series
Oil, chemicals, transport public works, agriculture iron & steel, food processing industries 	Chemicals, transport, public works, agriculture, iron and steel, refrigeration and food processing industry 	Hydraulic circuits and equipment used in agriculture and forestry machinery 	Hydraulic systems and equipment used in agriculture and public works 
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	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 Lloyd's Registry certification (HKFR version) alternative single shut-off or straight-through versions, optional safety sleeve-lock, high flow rate	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	Sizes 1/4" to 1" To ISO 7241-1A, up to 315 bar Zinc-plated steel NBR seals

Air, Hydraulic, Fluid Transfer

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

W6000 Series

All industrial and severe applications, public works, offshore and lifting equipment



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

W36000 Series

Agriculture, public works, forestry machinery and snow groomers



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

W46000 Series

Tractor-trailor connections, HGVs and trucks



Sizes 3/4" and 1"
Proprietary profile, up to 250 bar
Zinc-plated steel
NBR seals

FD96 Series

Hydraulic fluid transfer, high impulse hydraulics, oil field, mining



Sizes 1/4" to 2"
Up to 600 bar
High resistance zinc & black oxide plated carbon steel
Low connection force, non-spill design

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

5100 Series

Hydraulics and fluid transfer, on-highway hydraulic wet lines, dump and refuse vehicles, bulk liquid transfer



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

FD85 Series

Oilfields, offshore drilling, construction, oil and gas



Sizes 3/4" to 2"
Up to 345 bar
Zinc-plated carbon steel
NBR seals ▲
Connect against pressure, high vibration and impulse applications

FD83 Series

Electronics liquid based cooling, thermal management systems, industrial fluid transfer



Size 1"
303 stainless steel ■
EPDM seals ▲
Dual interlock, reliable performance and minimal spillage - Identical halves, maintenance friendly, unrestricted flow passage

FD86 Series

Hydraulic and fluid transfer, mining equipment



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

Hydraulic Flat-Face Couplings - *Double shut-off*

FF - FFCUP Series ♦

Hydraulic pumps, jacks, lifting & handling equipment, public works, agriculture, iron and steel industry



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

MLFF Series ♦

Construction, agriculture, oil and gas, material handling, railways, iron and steel industry and marine



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

MLDB Series ♦

Chemicals, petrochemicals, pharmaceuticals, cosmetics, cooling and food processing industry



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,

FD49 Series

Hydraulic and fluid transfer, hydraulic tools



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

Agricultural Couplings

Q9000 Series

Tractor brake systems on agricultural and forestry vehicles



Ø 8 mm
To ISO 5676 & NFU 16-006
Up to 150 bar
Zinc-plated steel
NBR seals
Low fluid loss or air inclusion

K8000

Tractors, farm and forestry machinery



Ø 8 mm
Proprietary profile, up to 250 bar
Zinc-plated steel
NBR seals
Low fluid loss or air inclusion

FD48 Series

Hydraulic and fluid transfer, agricultural equipment



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

Check Valves

R4000 Series

All industries, agriculture, public works and fluid transfer lines



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 ★

High Pressure Hydraulic Couplings

2UH Series

Emergency release and rescue equipment, lifting cylinders, shears and pullers



Size 1/4"
Proprietary profile; up to 1500 bar
High tensile steel
NBR seals
Ball-locked

WA56000 - HP3 Series

Hydraulic jacks, clamping systems, lifting and emergency release equipment



W56000: Sizes 1/4" & 3/8" (poppet valving)
HP3: Size 3/8" (ball valving)
Proprietary profiles, up to 700 bar
Zinc-plated steel
NBR seals

FD35 Series

Rugged high-pressure hydraulic applications, hydraulic rams and other tools



Sizes 9/16" & 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

Beverage Couplings

2HGL - 2KGL Series

Beverage dispensers



Fittings, plugs and sockets
Brass - Stainless steel - Plastic
EPDM seals

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 transfilling 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 heat regulation, electror system and heat-transfe 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.

LIONOIL

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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.

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