

HANSENTM QUICK SEAL® COUPLEURS GROMELLETM





Fluid Conveyance Interconnection Solutions.

Air, Hydraulic, Fluid Transfer

Compressed Air Standard Couplings Single Shut-off

G600 - I900 - T1100 General pneumatics



G700 - I1000 General pneumatics



General pneumatics

T1300



1000 Series

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 Proprietory 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 General pneumatics. industrial breathing air and fluid transfer



210 - 310 Series General pneumatics



Gas Couplings 600 - 700 Series

Welding, general pneumatics, breathing equipment, constructio and shipyards



Refrigerant Couplings

5400 Series

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

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

General pneumatics and automotive plants



2CC - 24CC Series

Full-Bore Series 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

General pneumatics

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, hossewhipeffect

Ø 8 and 11 mm ARO industrial interchange Up to 15 bar Zinc-plated steel NBR seals No hosewhip effect

Compressed Air Accessories

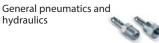
S100 - S200 Series

Blowguns and general pneumatics



E700 - M200 - M280 Series

General pneumatics and



SPUBD Series

General pneumatics and fluid transfer



ENR Series

General pneumatics



10 to 20 bar Nylon or metal blow-guns Progressive flow control S 100 Series available with airscreen S 200 Series to OSHA

Adaptors, Ys, tees, elbows, crosses, hose tails 35 to 250 bar Zinc-plated steel - Nickel-plated brass

alternative single shut-off or straight-through

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

Oil, chemicals, transpor public works, agricultur iron & steel, food processing industries



HK Series

Chemicals, transport, public works, agriculture, iron and steel, refrigeration and food processing industry



IA Series

Hydraulic circuits and equipment used in agriculture and forestry machinery



H15000 Series

Hydraulic systems and equipment used in agriculture and public works



Sizes 1/2" 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 sleevelock



Sizes $\frac{1}{8}$ " to 3" to ISO 7241-1B, up to 345 bar Size $\frac{1}{2}$ To ISO 7241-1A, up to 250 bar

Available in steel, brass and stainless steel NBR, FKM or EPDM seals Zinc-plated steel Optional Lloyds Registry certification (HKFR version RR seals

Push-pull sleeve (bulkhead mounting) versions, optional safety sleevelock, high flow rates/ide 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



Agriculture, public works, forestry machinery and snow groomers

W36000 Series



Sizes 3/4" and 1" Zinc-plated steel NBR seals

W46000 Series

connections, HGVs and

Tractor-trailor

trucks

FD96 Series

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



Sizes 1/4" to 11/4" Sizes 1/4" to 2" Sizes 1/4" to 2" Proprietary profile, up to 1100 bar Proprietary profile, up to 450 bar Zinc-plated steel - NBR seals Proprietary profile, up to 250 bar Up to 600 bar Available in zinc-plated and stainless steel High resistance zinc & black oxide plated NBR or FKM seals **A** Optional safety device, wide choice of end carbon steel Resistant to heavy mechanical loads connections, resistant to heavy mechanical loads 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 11/2" 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 A Connect against pressure, high vibration and impulse applications

FD83 Series

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



FD86 Series

Hydraulic and fluid transfer, mining equipment



Sizes 1" to 11/4" 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 ◆

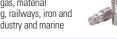
Hydraulic pumps, jacks, lifting & handling equipment, public works, agriculture, iron and steel industry



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 A 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 ◆

unrestricted flow passage

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

Trailor brake systems on agricultural and forestry vehicles



K8000

Tractors, farm and forestry machinery



FD48 Series

Hydraulic and fluid transfer, agricultural equipment



R4000 Series

Check Valves

All industries, agriculture, public works and fluid transfer lines



Ø8 mm To ISO 5676 & NFU 16-006 Up to 150 bar Zinc-plated steel NBR seals Low fluid loss or air inclusion Ø8 mm Proprietary profile, up to 250 bar Zinc-plated steel

NBR seals Low fluid loss or air inclusion 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

Sizes 1/8" to 2" Proprietary profile, up to 700 bar Available in zinc-plated steel, brass and stainless steel NBR or FKM seals A

Standard cracking pressures: 0.5 and 1 bar ★

High Pressure Hydraulic Couplings

2UH Series

Ball-locked

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



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

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

Sizes 1/8" to 2"

stainless steel

Pressure washing, steam cleaning equipment, flui transfer lines and hydraulic circuits



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

ST Series



Sizes 1/8" to 2/2" 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, trans mission & hydraulic fluid in mobile & stationary constructio utility & military equipmen



FD90 Series

Diagnostic pressure testing for hydraulic systems



FD15-1000-04 to MIL-V-81940/2-1 Plated steel with brass internal components NBR seals

High resistance zinc-plated carbon steel

One-hand push-to-connect, self-sealing Operating temperature range: -53°C to +135°Minimal fluid loss and low air inclusion

Special Applications

NBR, FKM or EPDM seals

Proprietary profile, up to 1000 bar

Available in zinc-plated steel, brass and

2HKIG - 2HKIL Series

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



SCBA transfilling and buddy breathing applications

FD17 Series



FD69 Series

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



Size 1/4 Proprietary profile, up to 100 bar Stainless steel

NBR seals

2 profiles to avoid crossing lines

NFPA 1981 and CRN

Size¹/₄" Up to 310 bar Certified on SCBA equipment to NIOSH,

Socket also available with right-angle connection tales steel or aluminium NBR seals

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, electron system and heat-transfe fluid cooling



regulation of injection moulds

FLO-TEMP™ Series



Ø 6 and 9 mm Proprietary profile, up to 50 bar Stainless steel - Brass

FKM seals Double shut-off, vibration-resistant Ø 6, 9 and 16 mm

Cooling or heat

Proprietary profile, up to 14 bar **Brass**

FKM seals Straight-through

ANTWERP LION OIL WORKS N.V.

Vlaamsekaai 2-5 B-2000 Antwerpen T.: +32 (0)3 237 00 45 F.: +32 (0)3 216 21 92 info@lionoil.be www.lionoil.be

Leak-Testing & Filling Connectors

Wide variety of applications including air conditioners, vending machines, ice makergaton will develop custom quick-disconnect 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 quick, leak-free connection.

Custom Couplings

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.

fluids service systems









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