

HYDRAULIC HOSE, CONNECTORS & ACCESSORIES

Quick Reference Guide



WHO WE ARE.

Motion delivers a world-class customer-first approach to everything we do. This has firmly established our business as the leader in the market, providing excellence and expertise in industrial products, solutions and services.

For more than 100 years we have been a feature in the Australian industrial landscape giving customers unmatched products and service through an integrated network of branches, workshops and service centres.

We have an ongoing commitment to invest in our people, facilities, IT and systems to ensure we can continue to offer a broad ranging and premium level of engineering design, servicing and turnkey projects to our customers across Australia.

We are committed and proud to keep our customers in motion, every day of the year.

“WE KEEP THE WORLD MOVING”



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Motion provides a complete hydraulic hose and connector offering covering the supply, manufacture and certification of a comprehensive range of hose, hose assemblies, connectors and associated products through our nationwide network of Motion branches.

Our fully equipped hose assembly centres are ready to manufacture, test, certify, and package any hydraulic or industrial hose solution.

Motion provides a wide range of products and services offering our customers access to a variety of trusted brands that can be tailored to meet their specific needs.

But it's not just about the products—it's about the people behind them. Our dedicated team is here to provide:

- Exceptional service, value, and expert advice to keep you connected.
- Industry-leading technical expertise across the diverse sectors we serve.
- A strong customer-first ethos, built on serving, performing, respecting, innovating, and working as a team.

Every day, we strive to deliver tailored solutions backed by our world-class team, ensuring your success is always our priority.

This Quick Reference Guide is a tool designed to help our customers understand our vast range and provide guidance on our Hydraulic Hose and Fittings products along with the correct selection and application of these products.

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HOSE AND HOSE PROTECTION



HOSE

HOSE COUPLINGS

ADAPTORS

QUICK RELEASE COUPLINGS

ACCESSORIES

BRAID

<p>CR1</p>  <p>1/4" to 1" -04 to -16</p>	<p>Recommended: Non-severe, medium pressure hydraulic applications with low flexure requirements.</p> <p>Construction: Black, oil-resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -16)</p> <p>Industry Specifications: SAE 100R1 and EN853 1SN MSHA approved</p>
<p>G1</p>  <p>3/16" to 2" -03 to -32</p>	<p>Recommended: Medium pressure hydraulic applications.</p> <p>Construction: Black, oil-resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ Plus Couplings (-24 & -32) Gates Power Crimp™ Couplings (-03) FA Field Attachable (-04 to -16)</p> <p>Industry Specifications: SAE 100R1, ISO 1436 1SNR1 and EN 853 1SN. MSHA and FRAS Approved</p>
<p>G1H</p>  <p>1/4" to 2" -04 to -32</p>	<p>Recommended: High temperature medium pressure hydraulic applications. (-40°C to +135°C constant and +149°C intermittent)</p> <p>Construction: Black, oil-resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)</p> <p>Industry Specifications: SAE 100R1 Type AT 2003 Revision.</p>
<p>M2T™</p>  <p>1/4" to 2" -04 to -32</p>	<p>Recommended: High pressure hydraulic oil applications.</p> <p>Construction: Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover. Also available with Megatuff (MTF) cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -16) Gates GlobalSpiral™ Plus Couplings (-24 & -32)</p> <p>Industry Specifications: SAE 100R16, SAE 100R2, ISO 11237 2SC R16 and ISO 1436 2SN R2 requirements and performance requirements of EN 857 2SC and EN 853 2SN.</p>
<p>CM2T</p>  <p>3/8" to 1/2" -06 to -08</p>	<p>Recommended: High abrasive, high pressure hydraulic applications. Hoses joined together for easier plumbing and routing.</p> <p>Construction: Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -16) Gates GlobalSpiral™ Couplings (-04 to -16)</p> <p>Industry Specifications: SAE 100R16 - EN 857 2SC and ISO/DIS 1436</p>

BRAID

CR2



1/4" to 1" | -04 to -16

Recommended:	Non-severe, high pressure hydraulic applications with low flexure requirements.
Construction:	Black, oil-resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -16)
Industry Specifications:	SAE 100R2 and EN853 2SN MSHA approved

G2



1-1/4" to 2" | -20 to -32

Recommended:	High pressure hydraulic applications.
Construction:	Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil resistant, synthetic rubber cover.
Couplings:	Gates MegaCrimp™ Couplings (-20) Gates GlobalSpiral™ Couplings (-20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)
Industry Specifications:	SAE 100R2 and EN 853 2SN.

G2XH



1/4" to 2" | -04 to -32

Recommended:	Extremely high temperature high pressure hydraulic applications. Petroleum based fluids -40°C to +149°C. Phosphate ester fluids as recommended by the fluid manufacturer, but within a range of -40°C to +100°C. For water emulsions: Max +107°C pressure lines, Max +82°C return lines.
Construction:	Black, oil and chemical resistant, synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Blue, oil and abrasion resistant, thin synthetic rubber cover. Available with perforated cover in sizes -20, -24 and -32 (-PC Suffix)
Couplings:	Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)
Industry Specifications:	EN 857 2SC - SAE 100 R16 - ISO 11237 2SC MSHA and FRAS Approved


G2H





1-1/4" to 2" | -20 to -32


Recommended:	High temperature high pressure hydraulic applications. (-40°C to +135°C constant and +149°C intermittent)
Construction:	Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil resistant, synthetic rubber cover. Also available with Megatuff (MTF) cover.
Couplings:	Gates MegaCrimp™ Couplings (-20) Gates GlobalSpiral™ Couplings (-20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)
Industry Specifications:	SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN.


BRAID

<h2>M3K</h2>  <p>3/16" to 1" -03 to -16</p>	Recommended: High pressure hydraulic applications.
	Construction: Black, oil-resistant synthetic rubber tube. Braided, high tensile steel wire reinforcement. -04, -05, -06 and -08 sizes are one braid; -10, -12 and -16 sizes are two braid. Black, oil, abrasion and weather resistant, synthetic rubber cover. Also available with Megatuff (MTF) and Xtratuff (XTF) covers.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -12) Gates GlobalSpiral™ Couplings (-06 to -16)
	Industry Specifications: ISO 18752 Grade B, SAE 100R17 and ISO11237 R17 working pressure, minimum bend radius requirements and performance requirements of EN 857 1SC. MSHA and FRAS Approved

<h2>M4K</h2>  <p>1/4" to 1" -04 to -16</p>	Recommended: High pressure hydraulic applications.
	Construction: Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover. Also available with Megatuff (MTF) and Xtratuff (XTF) covers.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -12) Gates GlobalSpiral™ Couplings (-06 to -16)
	Industry Specifications: ISO 18752 Grade B, SAE 100R19 and ISO 11237 R19. MSHA and FRAS Approved

<h2>M4KH</h2>  <p>1/4" to 3/4" -04 to -12</p>	Recommended: High pressure hydraulic oil applications, with elevated temperatures. (-40°C to +121°C)
	Construction: Black, oil resistant, synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -12) Gates GlobalSpiral™ Couplings (-06 to -12)
	Industry Specifications: ISO 18752 Grade C, SAE 100R19 and ISO 11237 R19.

<h2>M5K</h2>  <p>1/4" to 1/2" -04 to -08</p>	Recommended: High pressure hydraulic applications.
	Construction: Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover. Also available with Megatuff (MTF) and Xtratuff (XTF) covers.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -08) Gates GlobalSpiral™ Couplings (-06 to -08)
	Industry Specifications: ISO 18752 Grade B. MSHA and FRAS Approved

<h2>M6K</h2>  <p>1/4" -04</p>	Recommended: High pressure hydraulic applications.
	Construction: Black, oil-resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant, synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04)
	Industry Specifications: ISO 18752 Grade B. MSHA and FRAS Approved

SPIRAL

<p>EFG3K</p>  <p>1-1/4" to 2" -20 to -32</p>	<p>Recommended: Very high pressure, high impulse applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube. Four alternating layers of spiraled, high tensile steel wire reinforcement. Black, oil, abrasion and weather resistant cover. Also available with Megatuff (MTF) cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -16)</p> <p>Industry Specifications: ISO 18752 Grade D, SAE 100R12, EN 856 R12, and performance requirements of EN 856 4SP, and ISO 3862 Type R12. MSHA and FRAS Approved</p>
<p>EFG4K</p>  <p>3/8" to 1-1/4" -06 to -20</p>	<p>Recommended: Very high pressure, high impulse applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube. Four alternating layers of spiraled, high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover. Also available with Megatuff (MTF) cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -16) Gates GlobalSpiral™ Plus Couplings (-24 & -32)</p> <p>Industry Specifications: ISO 18752 Grade D*, SAE 100R12, EN 856 R12 and ISO 3862 Type R12. (sizes -06, -08 and -10 exceed ISO 18752 Grade D performance but does not meet OD requirements). MSHA and FRAS Approved</p>
<p>EFG5K</p>  <p>3/8" to 2" -06 to -32</p>	<p>Recommended: Extremely high pressure, high impulse applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube. Four (six for -20, -24 and -32) alternating layers of spiraled, high-tensile steel wire reinforcement. Black, oil resistant, synthetic rubber cover. Also available with Megatuff (MTF) cover.</p> <p>Couplings: Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ MAX Couplings (-24 & -32)</p> <p>Industry Specifications: ISO 18752 Grade D (except for -24) and SAE 100R13 and performance requirements of EN 856 4SH (-16 and -20), EN 856 4SP (-10, and -12), EN 856 R13 and ISO 3862 Type R13 (-12, -16, -20, -24, -32). MSHA and FRAS Approved</p>
<p>EFG6K</p>  <p>3/8" to 2" -06 to -32</p>	<p>Recommended: Extremely high pressure, high impulse applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube. Four (six for -20, -24 and -32) alternating layers of spiraled, high tensile steel wire reinforcement. Black, oil resistant, synthetic rubber cover. Also available with Megatuff (MTF) cover.</p> <p>Couplings: Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ MAX Couplings (-24 & -32)</p> <p>Industry Specifications: SAE 100R15 specifications and performance requirements of EN 856 4SP (-06, -08, -10 and -12), EN 856 4SH (-12, -16, and -20) and ISO 3862 Type R15 (-06, -08, 10, -12, -16, -24). MSHA and FRAS Approved</p>

X SERIES





HOSE

HOSE COUPLINGS

ADAPTORS

QUICK RELEASE COUPLINGS


ACCESSORIES


MXT™  1/4" to 1" -04 to -16	Recommended: High pressure hydraulic applications.
	Construction: Black, oil resistant, synthetic rubber tube. Single braid of high tensile steel wire reinforcement. Black, abrasion resistant, ozone resistant, synthetic rubber smooth cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -16) Gates GlobalSpiral™ Couplings (-06 to -16)
	Industry Specifications: SAE 100R16 & 100R17* dimension and performance; meets SAE 100R2 & SAE 100R19* performance; meets EN 853 2SN and EN 857 2SC performance (*Applies only to sizes up to and including -12 for SAE 100R17 and -8 for SAE 100R19) MSHA and FRAS Approved
MXT™ XTP  1/4" to 1" -04 to -16	Recommended: High pressure hydraulic applications.
	Construction: Black, oil resistant, synthetic rubber tube. Single braid of high tensile steel wire reinforcement. Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber smooth cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -16) Gates GlobalSpiral™ Couplings (-06 to -16)
	Industry Specifications: SAE 100R16 & 100R17* dimension and performance; meets SAE 100R2 & SAE 100R19* performance; meets EN 853 2SN and EN 857 2SC performance (*Applies only to sizes up to and including -12 for SAE 100R17 and -8 for SAE 100R19) MSHA and FRAS Approved
MXG™ 4K-XTP  3/8" to 1" -06 to -16	Recommended: High pressure hydraulic applications.
	Construction: Black, oil resistant, synthetic rubber tube. Two layers of braided, high tensile steel wire reinforcement. Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber smooth cover.
	Couplings: Gates GlobalSpiral™ Couplings (-06 to -16) Gates MegaCrimp™ Couplings (-06 to -12)
	Industry Specifications: ISO 18752 280DC and SAE 100R19; exceeds performance criteria of SAE 100R12, EN 856 R12, ISO 3862 R12 (Size -16 also exceeds EN 856 4SP performance requirements)
MXG™ 5K-XTP  3/8" to 3/4" -06 to -12	Recommended: High pressure hydraulic applications.
	Construction: Black, oil resistant, synthetic rubber tube. Xpiral™ woven spiral construction with four layers of high tensile steel wire reinforcement. Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber smooth cover.
	Couplings: Gates GlobalSpiral™ Couplings (-06 to -12) Gates MegaCrimp™ Couplings (-06 to -08)
	Industry Specifications: ISO 18752 350DC; exceeds performance criteria of SAE 100R13, EN856 R13, ISO 3862 R13 (sizes -10 and -12 also exceeds EN856 4SP performance requirements)

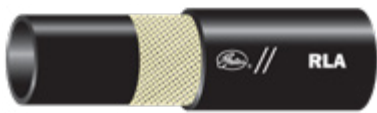
SPECIALTY


G3H  1/4" to 1-1/4" -04 to -20	Recommended: Hydraulic oil, anti-freeze solutions or water applications.
	Construction: Black, synthetic rubber tube. Two fiber braids. Black, oil and abrasion resistant, synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -10) Gates GLX™ Couplings (-08 to -20)
	Industry Specifications: SAE 100R3.
GTH  3/16" to 3/4" -03 to -12	Recommended: Hydraulic oil lines, heavy-duty transmission oil cooler lines and glycol anti-freeze solutions. For hydraulic oil lines -40°C to +135°C constant and +149°C intermittent (up to 10% of operating time).
	Construction: Black, specially compounded, synthetic rubber tube. One fiber braid. Black, oil and abrasion resistant, synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -12) Gates Power Crimp™ Couplings (-03)
	Industry Specifications: SAE 100R6.
G2L  1/4" to 2" -04 to -32	Recommended: Low temperature high pressure hydraulic oil applications.
	Construction: Black, oil resistant, synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil and abrasion resistant, thin synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -20) Gates GlobalSpiral™ Couplings (-06 to -20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)
	Industry Specifications: SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN.
J2AT  1/4" to 3/8" -04 to -06	Recommended: Hydraulic jacking applications.
	Construction: Black, oil resistant, synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.
	Couplings: Gates MegaCrimp™ Couplings (-04 to -06)
	Industry Specifications: Material Handling Institute specification IJ 100 for hydraulic hose and assemblies used with jacking systems. 10,000 Static Pressure Only.
RFS  3/16" to 1" -03 to -16	Recommended: Low pressure powder fire suppression applications.
	Construction: Black, oil resistant, synthetic rubber tube. One braid of high-tensile steel wire reinforcement. Red, oil and abrasion resistant cover.
	Couplings: Gates Power Crimp™ Couplings (-03) Gates MegaCrimp™ Couplings (-04 to -16)
	Industry Specifications: SAE 100R1.

SUCTION & RETURN

R4  3/4" to 4" -12 to -64	Recommended: Flexible, suction and return hydraulic, petroleum, air and water applications.
	Construction: Black synthetic rubber tube. Two textile braids, with body spiral wire reinforcement. Black oil and abrasion resistant synthetic rubber cover
	Couplings: Clamp over beaded nipple in low pressure applications.
	Industry Specifications: SAE 100R4.

Multi Master™  3/4" to 6" -12 to -96	Recommended: Hydraulic return and suction lines where high flexibility is required. Used for the transfer of refined fuels or other petroleum products and SAE 20R5 coolant lines.
	Construction: Black nitrile tube (meets ARPM class A and SAE 20 class B. Synthetic, high tensile textile reinforcement with steel wire helix. Chloroprene based, black corrugated. MSHA approved, meets SAE 20 class B.
	Couplings: Gates MegaCrimp™ Couplings (-12 to -20) Gates GlobalSpiral™ Plus Couplings (-24 to -32) Gates GL Couplings (-40 to -64) Clamp over beaded nipple in low pressure applications.
	Industry Specifications: SAE 100R4. Meets SAE J30R5 and SAE J20R5* (*except tube dimensions). MSHA and FRAS Approved

RLA  3/16" to 1" -03 to -16	Recommended: Low pressure hydraulic oil, water, glycol antifreeze solutions, conveying diesel fuel, gasoline or air applications.
	Construction: Black, oil resistant, synthetic rubber tube. One fiber braid reinforcement (-03 to -10). Spiral braid reinforcement (-12 to -16).
	Couplings: Gates Power Crimp™ Couplings (-03) Gates MegaCrimp™ Couplings (-04 to -16) Gates GLX™ Couplings (-12 to -16)
	Industry Specifications: SAE 30R2

RLC  1" to 4-1/2" -16 to -72	Recommended: Petroleum based hydraulic oil, glycol antifreeze, air or water in low pressure fluid transfer or hydraulic system return applications.
	Construction: Black, oil resistant, synthetic rubber tube. Three fiber braids of reinforcement. Black, oil and abrasion resistant, synthetic rubber cover.
	Couplings: Use barbed stem or beaded tube with clamps only.
	Industry Specifications:

FLEET

<p>ACP MegaTech™ II</p>  <p>1-1/4" to 2" -20 to -32</p>	<p>Recommended: Multi purpose high pressure, high temperature, air compressor applications and petroleum base or phosphate ester hydraulic fluid supply applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Stainless Steel Braid (-24 & -32)</p> <p>Couplings: Gates MegaCrimp™ Couplings (-20) Gates GlobalSpiral™ Couplings (-24 to -32)</p> <p>Industry Specifications: SAE 100R2.</p>
<p>TR500</p>  <p>1/4" to 1" -04 to -16</p>	<p>Recommended: Air brake hose, high temperature pressurized oil return applications. Rotary oil/air compressor applications. Engine and transmission coolant and oil applications.</p> <p>Construction: Black Nitrile tube. One braid of high tensile steel wire reinforcement. Oil and mildew resistant, textile braid, impregnated with synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -16)</p> <p>Industry Specifications: DOT FMVSS 106-74, SAE J1402 for air brake hose (-04, -06, -08, -10).</p>
<p>MT500 MegaTech™ 500</p>  <p>1-1/2" to 3" -24 to -48</p>	<p>Recommended: Air brake hose, pressurized hot oil return and rotary oil/air compressor applications.</p> <p>Construction: Black tube specifically compounded for temperature and chemical resistance. One braid of high tensile steel wire reinforcement. Oil and mildew resistant, textile braid, impregnated with synthetic rubber cover.</p> <p>Couplings: Gates GlobalSpiral™ Plus Couplings (-24 to -32) Gates GL (-40 to -48)</p> <p>Industry Specifications:</p>
<p>MT1000 MegaTech™ 1000</p>  <p>1/4" to 1-1/4" -04 to -20</p>	<p>Recommended: Air brake hose, pressurized hot oil return and rotary oil/air compressor applications.</p> <p>Construction: Black tube specifically compounded for temperature and chemical resistance. One braid of high tensile steel wire reinforcement. Oil and mildew resistant, textile braid, impregnated with synthetic rubber cover.</p> <p>Couplings: Gates MegaCrimp™ Couplings (-04 to -20)</p> <p>Industry Specifications: DOT FMVSS 106-74, SAE J1402, for Air Brake Hose (-04, -06, -08, -10).</p>
<p>PS188</p>  <p>3/8" -06</p>	<p>Recommended: Power steering pressure applications.</p> <p>Construction: Synthetic rubber tube specially compounded to provide resistance to high temperatures and power steering fluid. Two high strength nylon braids of reinforcement that resist high temperatures and allow for expansion for system noise dampening. Black, synthetic rubber cover developed specifically to resist under hood environment.</p> <p>Couplings: Permanent Power Steering (-06)</p> <p>Industry Specifications: SAE J2050</p>

FLEET


HOSE


HOSE COUPLINGS


ADAPTORS


QUICK RELEASE COUPLINGS


ACCESSORIES

<h2>C5C</h2>  <p>3/16" to 2-3/8" -04 to -40</p>	Recommended: Medium pressure hydraulic petroleum based oil applications in pulse. Lube oil, air and water in applications such as air brakes, power steering (CAUTION: Intended for heavy-duty commercial vehicle use only).
	Construction: Black, oil and heat resistant synthetic rubber tube. One braid of high tensile carbon steel wire over one braid of polyester reinforcement. Black, oil and mildew resistant, polyester braid cover.
	Couplings: R5 Field Attachable (-04 to -16)
	Industry Specifications: SAE 100R5 for traditional hydraulic applications, DOT FMVSS 106-74 Type All and SAE J1402 Type All for air brake applications (-04 to -12).

<h2>C5CXH</h2>  <p>3/16" to 1-1/8" -04 to -20</p>	Recommended: Extremely high temperature petroleum based or phosphate ester fluids, turbo charger oil supply and hot lube oil applications.
	Construction: Black, oil and heat resistant synthetic polymer tube. Braided, high-tensile wire and textile reinforcement. Blue, oil and mildew resistant polyester/textile braid cover.
	Couplings: R5 Field Attachable (-04 to -16) Gates MegaCrimp™ Couplings (-05 to -20) Gates GlobalSpiral™ Couplings (-05 to -20)
	Industry Specifications: SAE 100R5 for traditional hydraulic applications, DOT FMVSS 106-74 Type All and SAE J1402 Type All for air brake applications (-04 to -12).

<h2>C5D</h2>  <p>3/16" to 7/8" -04 to -16</p>	Recommended: Petroleum based or phosphate ester fluids; diesel fuels and filtration applications. Transmission coolant lines, hot lube oil lines, power steering (CAUTION: Intended for heavy-duty commercial vehicle use only), gasoline and turbocharger oil applications.
	Construction: Black, oil and heat resistant, synthetic rubber tube. One braid of high tensile steel wire over one braid of polyester reinforcement. Oil and mildew resistant, polyester braid impregnated with synthetic rubber cover.
	Couplings: R5 Field Attachable (-04 to -16)
	Industry Specifications: DOT FMVSS 106-74 Type All, SAE J1402 Type All. Not approved for bio-diesel above B5.

<h2>C5E</h2>  <p>3/16" to 1-1/8" -04 to -20</p>	Recommended: Air brake hose, power steering (CAUTION: Intended for heavy-duty commercial vehicle use only), engine and transmission coolant lines, and hot (+149°C) lube oil applications.
	Construction: Black, oil and heat-resistant, synthetic rubber tube. One braid of high tensile steel wire over one braid of polyester reinforcement. Black, oil and heat resistant, textile braid impregnated with synthetic rubber tube.
	Couplings: Gates R5E Field Attachable (-04 to -20)
	Industry Specifications: SAE J1402 Type A1, DOT FMVSS 106 Type A1. Meets or exceeds DOT FMVSS 106-74 Type All (-4 to -12) and SAE J1402 Type All (-4 to -12).

<h2>C5M</h2>  <p>3/16" to 7/8" -04 to -16</p>	Recommended: All commercial and recreational vessel fuel line applications. Suitable for marine diesel, gasoline, B100 Bio Diesel, gasohol fuels and hot oil applications.
	Construction: Nitrile tube. One wire braid reinforcement. Nitrile and PVC cover.
	Couplings: R5 Field Attachable (-04 to -16) Gates MegaCrimp™ Couplings (-05, -06, -08 & -16) Gates GlobalSpiral™ Couplings (-10 & -12)
	Industry Specifications: SAE J1942, J1527, J30R2, ISO: 840-A1. Meets Flame Resistance Acceptance Designation "MSHA 2G".

THERMOPLASTIC

TH7



1/8" to 1" | -02 to -16

Recommended:	Synthetic, water and petroleum based hydraulic fluids. Lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery.
Construction:	100% seamless Nylon tube. Synthetic fiber reinforcement. Black Urethane cover that resists hydraulic fluids, high temperatures, aging and weathering.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -16) Swage PCTS Thermoplastic Couplings (-02 & -03)
Industry Specifications:	SAE 100R7

TH8



3/16" to 1" | -03 to -16

Recommended:	Synthetic, water and petroleum based hydraulic fluids. Lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery.
Construction:	100% seamless Nylon tube. Polyester reinforcement. Urethane cover that resists hydraulic fluids, high temperatures, aging and weathering.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -16)
Industry Specifications:	SAE 100R8

TH7NC



1/8" to 1" | -02 to -16

Recommended:	Synthetic, water and petroleum based hydraulic fluids. EWP's, lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery applications.
Construction:	-02, -12, and -16: 100% seamless Nylon tube that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol; -03 through -08 Polyester. Synthetic fiber and Nylon reinforcement. Orange urethane that resists hydraulic fluids, high temperatures, ageing and weathering. Orange TH7NC is non perforated for applications requiring electrical non-conductivity. Leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -16) Swage PCTS Thermoplastic Couplings (-02 & -03)
Industry Specifications:	SAE 100R7

TH8NC



1/4" to 1/2" | -04 to -08

Recommended:	Synthetic, water and petroleum based hydraulic fluids. EWP's, lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery applications.
Construction:	100% seamless Nylon tube. Polyester reinforcement. Orange urethane that resists hydraulic fluids, high temperatures, ageing and weathering. Orange TH8NC is non perforated for applications requiring electrical non-conductivity. Leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -08)
Industry Specifications:	SAE 100R8

THERMOPLASTIC

TH7DL



1/4" to 1/2" | -04 to -08

Recommended:	Synthetic, water and petroleum based hydraulic fluids. Lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery.
Construction:	100% seamless Nylon tube. Synthetic fibre reinforcement. Urethane cover that resists hydraulic fluids, high temperatures, aging and weathering.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -08)
Industry Specifications:	SAE 100R7



TH7NCDL




1/4" to 1/2" | -04 to -08


Recommended:	Synthetic, water and petroleum based hydraulic fluids. EWP's, lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery applications.
Construction:	Nylon tube. Synthetic fibre reinforcement. Orange urethane that resists hydraulic fluids, high temperatures, ageing and weathering. Orange TH7NCDL is non perforated for applications requiring electrical non-conductivity. Leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.
Couplings:	Gates MegaCrimp™ Couplings (-04 to -08)
Industry Specifications:	SAE 100R7


LOCK-ON

<h2>LOC</h2>  <p>1/4" to 1" -04 to -16</p>	<p>Recommended: High temperature (+149°C) transmission oil cooler lines, pressurized hot oil return lines and turbocharger oil supply applications.</p> <p>Construction: True bore black tube specifically compounded for temperature and chemical resistance. One fiber braid reinforcement. Oil and mildew resistant, textile braid, impregnated with synthetic rubber cover.</p> <p>Couplings: Field Attachable LOC (-04 to -16) Gates MegaCrimp™ Couplings (-16)</p> <p>Industry Specifications: Meets SAE 30R2, SAE 30R6 and SAE 30R7 performance requirements for fuel and B20 biodiesel fuel transfer applications up to +125°F (+52°C).</p>
<h2>LOLA</h2>  <p>3/16" to 3/4" -03 to -12</p>	<p>Recommended: Petroleum based hydraulic oils, water, glycol anti freeze solutions, engine lubricating oils, and air applications.</p> <p>Construction: Black, oil resistant, synthetic rubber tube, highly resistant to oil and heat. One fiber braid reinforcement. Oil and abrasion resistant synthetic rubber cover. Coloured range available upon request.</p> <p>Couplings: Field Attachable LOC (-03 to -12) Gates GLX™ Couplings (-04, -06, -08 & -12) Clamp over barbed stem or beaded tube</p> <p>Industry Specifications: Meets Flame Resistance Acceptance Designation "MSHA 2G"</p>


INDUSTRIAL

<p>PMXT501 PLANTMASTER™ XTREME™ 501 AR (formerly Terminator®)</p>  <p>1/4" to 2" -04 to -32</p>	<p>Recommended:</p> <p>Applications requiring oil resistance involving air, oil, water, grease sprays, paraffin waxes, salt solutions, and a variety of chemicals. Excellent durability for long life in mining, air drill, construction, poultry plants, abattoirs, quarries, shipyards, food processing, railroads, and other severe service environments. Excellent weather and ozone resistance, and non conductive at 1000 volts D.C.</p>
	<p>Construction:</p> <p>Nitrile tube. Synthetic, high tensile textile cord reinforcement. Carboxylated nitrile cover.</p>
	<p>Couplings:</p> <p>Gates MegaCrimp™ Couplings (-04 to -20) Gates GLX™ Couplings (-06 to -20) Gates GlobalSpiral™ Plus Couplings (-24 & -32)</p>
	<p>Industry Specifications:</p> <p>Tube: RMA (Class A) high oil resistance. Cover: RMA (Class A) High oil resistance. MSHA Flame-resistant. Non-conductive at 1000 volts D.C. Electrical resistance is greater than 1MΩ/inch when subjected to 1000 volts D.C. (except 1-1/2" and 2")</p>

<p>PLANT MASTER Plant Master™ Plus 250-300 (formerly Duro Flex®)</p>  <p>3/16" to 1-1/2" -03 to -24</p>	<p>Recommended:</p> <p>Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.</p>
	<p>Construction:</p> <p>Type P (EPDM) Black tube. Synthetic textile reinforcement with Type P (EPDM) outer cover. All sizes through 1/2" are perforated.</p>
	<p>Couplings:</p> <p>Gates Power Crimp™ Couplings (-03) Gates GLX™ Couplings (-04 to -20) Gates GL Couplings (-24)</p>
	<p>Industry Specifications:</p> <p>Tube: ARPM (Class C) Limited oil-resistance.</p>

<p>CM6000 Clean Master™ Plus 6000</p>  <p>1/4" to 1/2" -04 to -08</p>	<p>Recommended:</p> <p>Hot and cold water high-pressure cleaning equipment used in commercial and industrial cleaning, food processing, sanitation and car wash applications where heavy duty service is required. (-40°C to +150°C. Increased operating temperatures will reduce hose assembly service life) Not recommended for steam service. Use bend restrictors to extend service life.</p>
	<p>Construction:</p> <p>Type C (Nitrile) Black tube. Braided, steel wire. reinforcement. Type C2 (Modified Nitrile). Non-Marking. Abrasion Resistant, Ozone Resistant, MSHA Flame Resistant cover.</p>
	<p>Couplings:</p> <p>Gates MegaCrimp™ Couplings (-04 to -08)</p>
	<p>Industry Specifications:</p> <p>Meets MSHA Flame Resistance. Exceeds EN1829-2. REACH Compliant.</p>

HOSE PROTECTION

<p>SGX-H</p>  <p>12mm to 110mm</p>	<p>Recommended: Hose protection against abrasion and impact. Bundling hoses together.</p> <p>Construction: Polyethylene plastic spiral. Available in black, blue and yellow.</p> <p>Industry Specifications:</p>
<p>SGX-FRAS</p>  <p>12mm to 110mm</p>	<p>Recommended: Hose protection against abrasion and impact. Bundling hoses together.</p> <p>Construction: Polyethylene plastic spiral.</p> <p>Industry Specifications: FRAS</p>
<p>WA</p>  <p>15mm to 73mm</p>	<p>Recommended: Hose protection against abrasion and gouging.</p> <p>Construction: Spring steel wire, galvanised.</p> <p>Industry Specifications:</p>
<p>HS</p>  <p>17mm to 122mm</p>	<p>Recommended: Hose burst suppression and pin hole diffusion.. Also offering protection for individual hoses from severe abrasion.</p> <p>Construction: Densely woven polyamide sleeve.</p> <p>Industry Specifications: MSHA approved FRAS</p>
<p>HeatGuard™ HTG</p>  <p>3/4" to 3" -12 to -48</p>	<p>Recommended: Protection of hoses from spark, molten splash, heat and fire. Temperature range: -54°C to +260°C for continuous exposure</p> <p>Construction: Knitted fiberglass yarn woven and coated with iron oxide red silicone rubber.</p> <p>Industry Specifications: SAE AS1072A</p>
<p>HeatGuard™ HTGH</p>  <p>1-1/2" to 3-1/4" -24 to -52</p>	<p>Recommended: Protection of hoses from spark, molten splash, heat and fire. Temperature Range: -54°C to +260°C for continuous exposure and up to +1093°C for 15 to 20 minutes and up to +1650°C for 15 to 30 seconds.</p> <p>Construction: Knitted fiberglass yarn woven and coated with iron oxide red silicone rubber.</p> <p>Industry Specifications: SAE AS1072E</p>
<p>HBR**</p>  <p>16mm to 25.4mm</p>	<p>Recommended: Prevention of kinks and over bending at the ends of hoses.</p> <p>Construction: Vinyl bend restrictors. Length - 139.7mm to 228mm I.D. - 16mm to 25.4mm</p> <p>Industry Specifications:</p>

RECOMMENDED COUPLING INDEX

Gates MegaCrimp™ Couplings - MC

ACP (-20)	G2H (-04 to -20)	M5K (-08 to -08)	RLA (-04 to -16)
C5C (-05, 06, -08)	G2L (-04 to -20)	M6K (-04)	TH7 (-04 to -16)
C5CXH (-05 to -16)	G2XH (-04 to -20)	MT1000 (-04 to -20)	TH7DL (-04 to -08)
C5M (-05,-06, -08 & -16)	G3H (-04 to -10)	MULTIMASTER (-12 to -20)	TH7NC (-04 to -16)
CM2T (-06 to -08)	GTH (-04 to -12)	MXG4K-XTP (-06 to -12)	TH7NCDL (-04 to -08)
CM6000 (-04 to -08)	J2AT (-04 to -06)	MXG5K-XTP (-06 to -08)	TH8 (-04 to -16)
CR1 (-04 to -16)	LOC (-16)	MXT (-04 to -16)	TH8NC (-08 to -08)
CR2 (-04 to -20)	M2T (-04 to -20)	MXT-XTP (-04 to -16)	TR500 (-04 to -16)
G1 (-04 to -20)	M3K (-04 to -16)	PMXT501 (-04 to -20)	
G1H (-04 to -20)	M4K (-04 to -12)	RFS (-04 to -16)	
G2 (-20)	M4KH (-04 to -20)	RFS (-04 to -16)	

Gates GlobalSpiral™ Couplings - GS

ACP (-24 to -32)	EFG5K (-06 to -20)	G2XH (-06 to -20)	MXG5K-XTP (-06 to -08)
C5C (-12)	EFG6K (-06 to -20)	M2T (-06 to -16)	MXT (-06 to -16)
C5CXH (-05 to -20)	G1 (-06 to -20)	M3K (-06 to -16)	MXT-XTP (-06 to -16)
C5M (-10 to -12)	G1H (-06 to -20)	M4K (-06 to -16)	
CM2T (-06 to -08)	G2 (-20)	M4KH (-06 to -12)	
EFG3K (-20)	G2H (-06 to -20)	M5K (-06 to -08)	
EFG4K (-06 to -20)	G2L (-06 to -20)	MXG4K-XTP (-06 to -16)	

Gates GlobalSpiral™ Plus Couplings - GSP

ACP (-24 to -32)	G1H (-24 to -32)	G2L (-24 to -32)	MT500 (-24 to -32)
EFG3K (-24 to -32)	G2 (-24 to -32)	G2XH (-24 to -32)	MULTIMASTER (-24 to -32)
G1 (-24 to -32)	G2H (-24 to -32)	M2T (-24 to -32)	PMXT501 (-24 to -32)

Gates GlobalSpiral™ Max Couplings - GSM

EFG5K (-24 to -32)	EFG6K (-24 to -32)
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Gates GL Couplings

MT500 (-40 to -48)	MULTIMASTER (-12 to -64)	PLANTMASTER (-24)
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Gates GLX™ Couplings

G3H (-08 to -20)	LOLA (-04, -06, -08 & -12)	PLANTMASTER (-04 to -24)	PMXT501 (-06 to -20)
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Gates Power Crimp™ Couplings - PC

G1 (-03)	M3K (-03)	RFS (-03)
GTH (-03)	PLANTMASTER (-03)	RLA (-03)

Field Attachable FA Couplings

G1 (-04 to -16)

Field Attachable C5 Couplings

C5C (-04 to -16)	C5D (-04 to -16)	C5CXH (-04 to -16)
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Field Attachable C5E Couplings

C5E (-04 to -16)

Power Steering

PS188 (-06)

PCTS Thermoplastic Couplings

TH7 (-02 to -03)	TH7NC (-02 to -03)	TH8 (-02 to -03)
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HOSE COUPLINGS



HOSE

HOSE COUPLINGS



















ADAPTORS

QUICK RELEASE COUPLINGS

ACCESSORIES

GATES MEGACRIMP™ COUPLINGS - MC

Male Straight

 BSPT MALE MCBM	 BSPP MALE MCPM	 NPT MALE MCNM	 NPT MALE SWIVEL MCNMS	 NPT MALE LONG NOSE MCNML
 JIC MALE MCJM	 METRIC MALE LIGHT MCLMM	 METRIC MALE HEAVY MCHMM	 ORFS MALE MCORFM	 SAE 45° FLARE MALE MCSM
 SAE MALE INVERTED SWIVEL MCIFM	 SAE MALE FLARELESS ASSEMBLY MCSFA	 UN'O' RING MALE MCUM	 UN'O' RING MALE SWIVEL MCUMS	 UN'O' RING MALE ADAPTOR LESS SWIVEL MCUMA
 BANJO BSP MCBB	 BANJO METRIC MCMB	 STANDPIPE METRIC MCMS		

Male 45°














 UN'O' RING 45° MALE ADAPTOR LESS SWIVEL MCUMA45	 UN'O' RING 45° MALE SWIVEL MCUMS45	 SAE 45° MALE INVERTED SWIVEL MCIFM45
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Male 90°








 NPT MALE 90° COMPACT MCNM90C	 NPT MALE 90° LONG DROP MCNM90L	 UN'O' RING 90° MALE SWIVEL MCUMS90	 UN'O' RING 90° MALE ADAPTOR LESS SWIVEL MCUMA90	 SAE 90° MALE INVERTED SWIVEL MCIFM90
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GATES MEGACRIMP™ COUPLINGS - MC

Female Straight

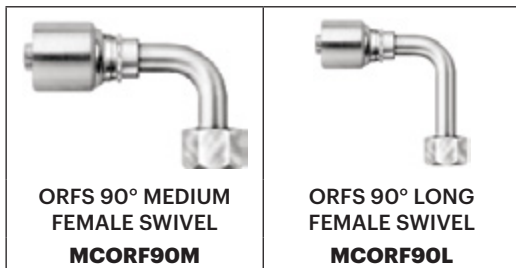
 BSPP FEMALE SWIVEL MCBF	 BSP FLAT FACE FEMALE SWIVEL MCBFF	 NPT FEMALE MCNF	 NPT FEMALE SWIVEL MCNFS	 JIC FEMALE SWIVEL MCJF
 KOMATSU FEMALE SWIVEL MCKF	 METRIC FEMALE LIGHT MCLMF	 METRIC FEMALE HEAVY MCHMF	 ORFS FEMALE SWIVEL MCORF	 SAE 45° FLARE FEMALE SWIVEL MCSF
 JAPANESE INDUSTRIAL STANDARD FEMALE MCBJF	 GREASE FEMALE MCFG	 KARCHER FEMALE MCKAF		

Female 45°

 BSPP 45° FEMALE SWIVEL MCBF45	 JIC 45° FEMALE SWIVEL MCJF45S	 METRIC LIGHT 45° FEMALE SWIVEL MCLMF45	 METRIC HEAVY 45° FEMALE SWIVEL MCHMF45	 ORFS 45° FEMALE SWIVEL MCORF45S
 SAE 45° FLARE 45° FEMALE SWIVEL MCSF45	 KOMATSU 45° FEMALE SWIVEL MCKF45			

GATES MEGACRIMP™ COUPLINGS - MC

Female 90°



Code 61 Flange







GATES GLOBALSPIRAL™ COUPLINGS - GS

Ferrules

				
	GS FERRULE FOR WIRE BRAID HOSE GS1F-2	GS FERRULE FOR 4 SPIRAL HOSE GS1F-4	GS FERRULE FOR -10 MXG5K HOSE GS1D1F-4	GS FERRULE FOR 6 SPIRAL HOSE GS1F-6





Male Straight

				
BSPT MALE GSBM	BSPP MALE GSPM	NPT MALE GSNM	JIC MALE GSJM	METRIC LIGHT MALE GSLMM

			
METRIC HEAVY MALE GSHMM	ORFS MALE GSORFM	UN'O' RING MALE GSUM	KOBELCO STYLE MALE GSKOBM

Female Straight

				
BSPP FEMALE SWIVEL GSBF	BSP FLAT FACE FEMALE SWIVEL GSBFF	BSPP ROCK BREAKER FEMALE GSBF-RB	JIC FEMALE SWIVEL GSJF	METRIC LIGHT FEMALE SWIVEL GSLMF

			
METRIC HEAVY FEMALE SWIVEL GSHMF	ORFS FEMALE SWIVEL GSORF	KOMATSU FEMALE SWIVEL GSKF	JAPANESE INDUSTRIAL STANDARD FEMALE GSBJF

Female 45°

				
BSPP 45° FEMALE SWIVEL GSBF45	JIC 45° FEMALE SWIVEL GSJF45	METRIC LIGHT 45° FEMALE SWIVEL GSLMF45	METRIC HEAVY 45° FEMALE SWIVEL GSHMF45	ORFS 45° FEMALE SWIVEL GSORF45

GATES GLOBALSPIRAL™ COUPLINGS - GS

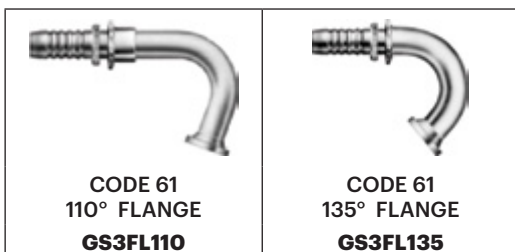
Female 60°



Female 90° & 135°



Code 61 Flange



GATES GLOBALSPIRAL™ COUPLINGS - GS

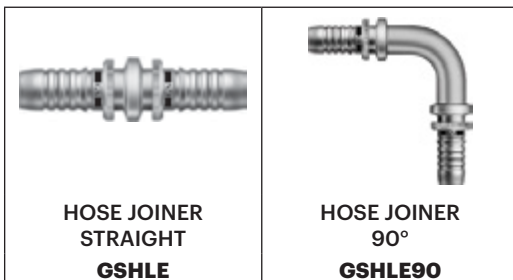
Code 62 Flange



CAT Flange



Hose Joiners

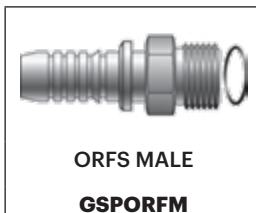
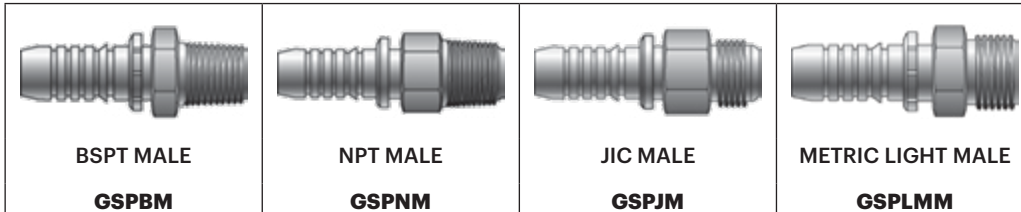


GATES GLOBALSPIRAL™ PLUS COUPLINGS - GSP

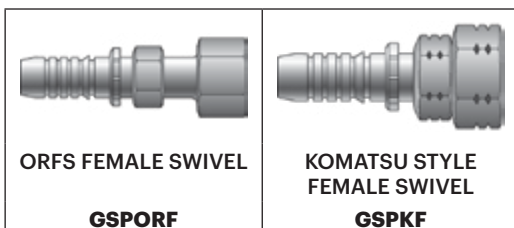
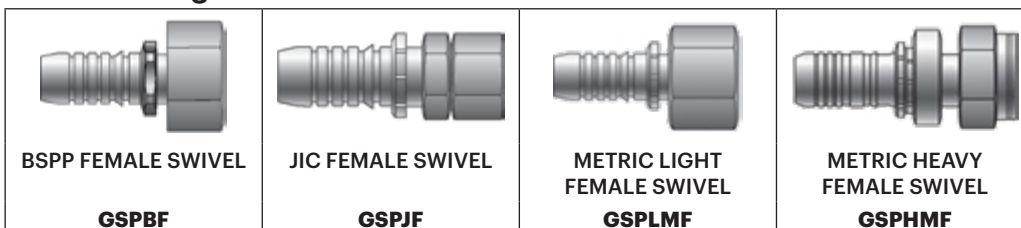
Ferrules



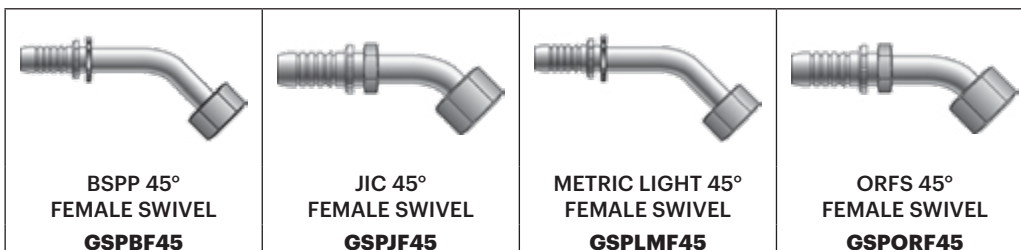
Male Straight



Female Straight



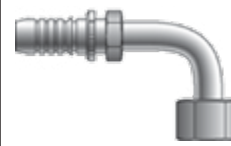


Female 45°



GATES GLOBALSPIRAL™ PLUS COUPLINGS - GSP



Female 90°

				
BSPP 90° FEMALE SWIVEL GSPBF90	JIC 90° FEMALE SWIVEL GSPJF90	METRIC LIGHT 90° FEMALE SWIVEL GSPLMF90	METRIC HEAVY 90° FEMALE SWIVEL GSPHMF90	ORFS 90° FEMALE SWIVEL GSPORF90




Code 61 Flange

				
CODE 61 STRAIGHT FLANGE GSP3FL	CODE 61 22 1/2° FLANGE GSP3FL22	CODE 61 30° FLANGE GSP3FL30	CODE 61 45° FLANGE GSP3FL45	CODE 61 60° FLANGE GSP3FL60



				
CODE 61 67 1/2° FLANGE GSP3FL67	CODE 61 90° SHORT FLANGE GSP3FL90S	CODE 61 90° MEDIUM FLANGE GSP3FL90M	CODE 61 90° LONG FLANGE GSP3FL90L	CODE 61 110° FLANGE GSP3FL110

	
CODE 61 125° FLANGE GSP3FL125	CODE 61 135° FLANGE GSP3FL135

Code 62 Flange

		
CODE 62 STRAIGHT FLANGE GSP6FL	CODE 62 45° FLANGE GSP6FL45	CODE 62 90° FLANGE GSP6FL90

Hose Joiners





	
HOSE JOINER STRAIGHT GSPHLE	HOSE JOINER 90° GSPHLE90

GATES GLOBALSPIRAL™ MAX COUPLINGS - GSM





Male Straight

		
BSPP MALE GSMPPM	NPT MALE GSMNM	JIC MALE GSMJM





Female Straight

			
BSPP FEMALE SWIVEL GSMBF	JIC FEMALE SWIVEL GSMJF	METRIC HEAVY FEMALE SWIVEL GSMHMF	ORFS FEMALE SWIVEL GSMORF

Female 45°






			
BSPP 45° FEMALE SWIVEL GSMBF45	JIC 45° FEMALE SWIVEL GSMJF45	METRIC HEAVY 45° FEMALE SWIVEL GSMHMF45	ORFS 45° FEMALE SWIVEL GSMORF45

Female 90°

			
BSPP 90° FEMALE SWIVEL GSMBF90	JIC 90° FEMALE SWIVEL GSMJF90	METRIC HEAVY 90° FEMALE SWIVEL GSMHMF90	ORFS 90° FEMALE SWIVEL GSMORF90

GATES GLOBALSPIRAL™ MAX COUPLINGS - GSM

Code 61 Flange

				
CODE 61 STRAIGHT FLANGE GSM3FL	CODE 61 30° FLANGE GSM3FL30	CODE 61 45° FLANGE GSM3FL45	CODE 61 60° FLANGE GSM3FL60	CODE 61 90° FLANGE GSM3FL90

Code 62 Flange

				
CODE 62 STRAIGHT FLANGE GSM6FL	CODE 62 22° FLANGE GSM6FL22	CODE 62 30° FLANGE GSM6FL30	CODE 62 45° FLANGE GSM6FL45	CODE 62 60° FLANGE GSM6FL60


CODE 62 90° FLANGE GSM6FL90

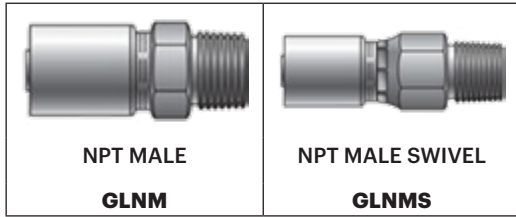
CAT Flange

				
CATERPILLAR STYLE STRAIGHT FLANGE GSM9FL	CATERPILLAR STYLE 22 1/2° FLANGE GSM9FL22	CATERPILLAR STYLE 30° FLANGE GSM9FL30	CATERPILLAR STYLE 45° FLANGE GSM9FL45	CATERPILLAR STYLE 60° FLANGE GSM9FL60


CATERPILLAR STYLE 90° FLANGE GSM9FL90

GATES GL COUPLINGS

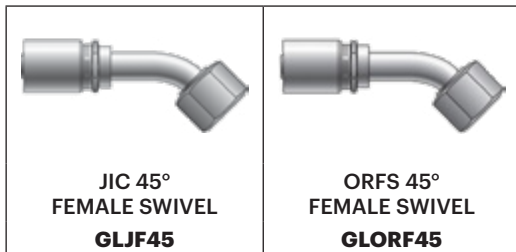
Male Straight



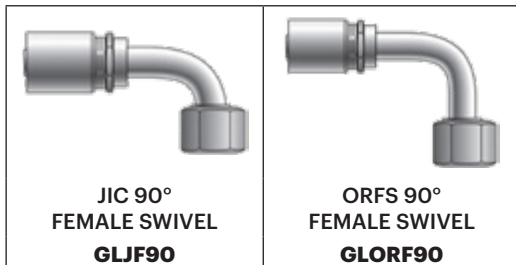
Female Straight



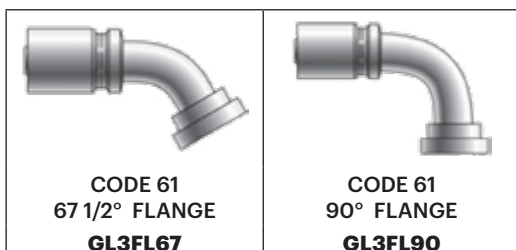
Female 45°



Female 90°

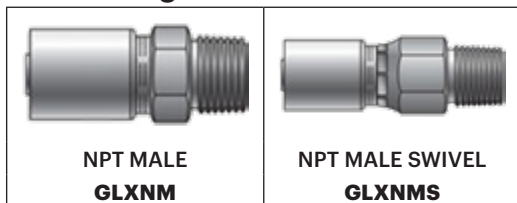


Code 61 Flange



GATES GLX™ COUPLINGS

Male Straight



Female Straight

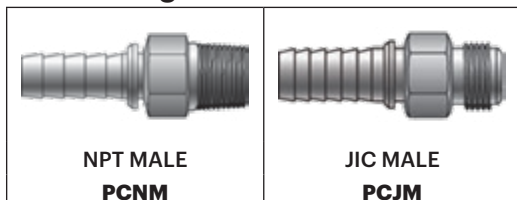


GATES POWER CRIMP™ COUPLINGS

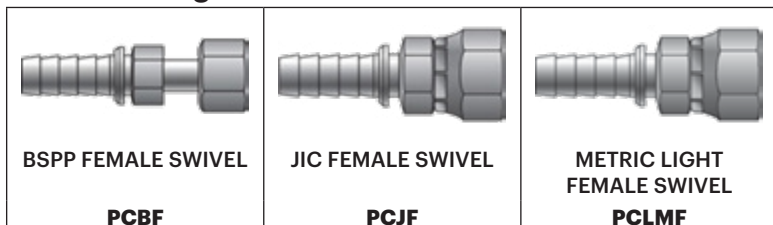
Ferrules



Male Straight



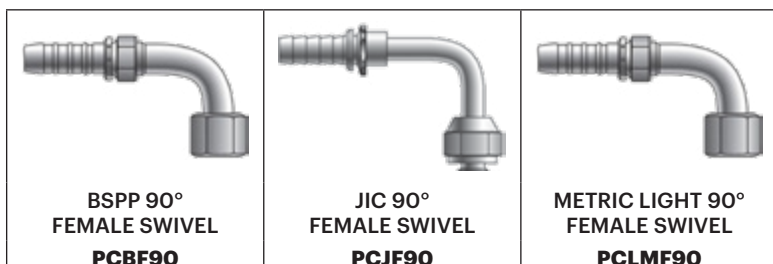
Female Straight



Female 45°

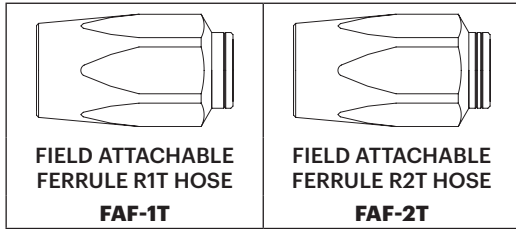


Female 90°

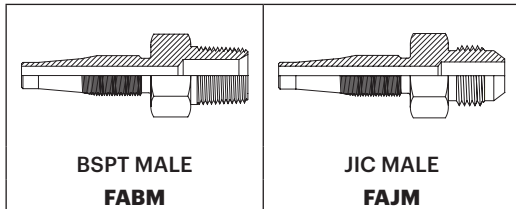


FIELD ATTACHABLE COUPLINGS - FA

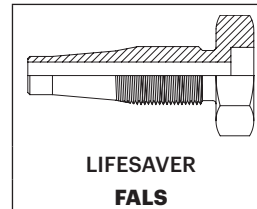
Ferrules



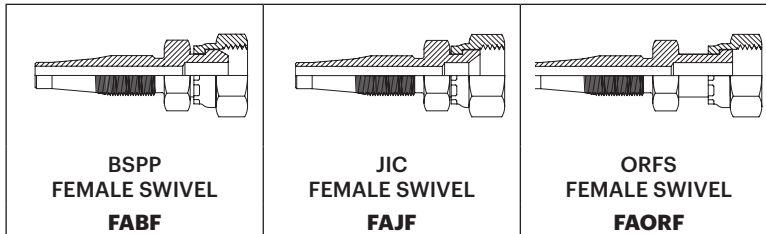
Male Straight



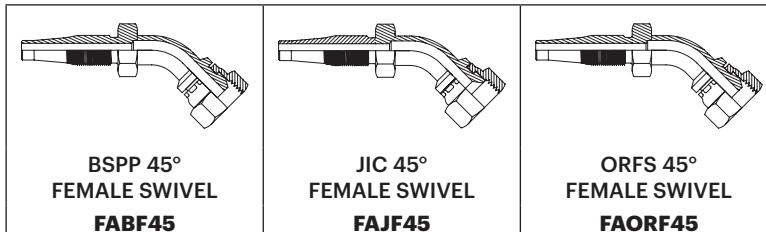
LIFE SAVER



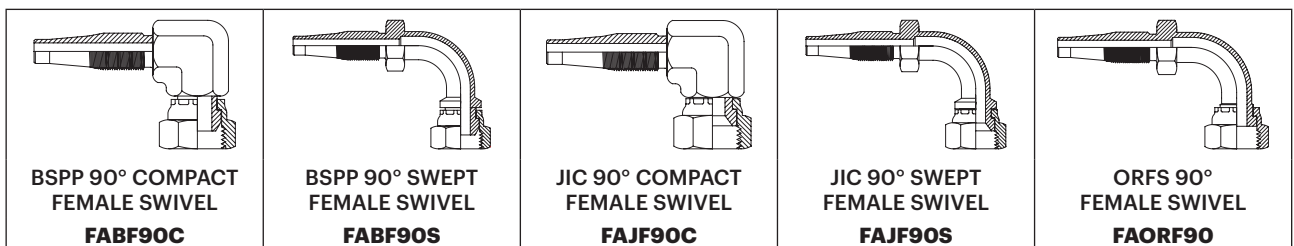
Female Straight



Female 45°



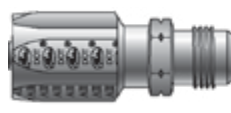



Female 90°





GATES C5 FIELD ATTACHABLE COUPLINGS - R5



Male Straight

			
NPT MALE	JIC MALE	SAE MALE	INVERTED FLARE MALE SWIVEL
R5NM	R5JM	R5SM	R5IFMS



Female Straight

	
JIC FEMALE SWIVEL	SAE FLARE FEMALE SWIVEL
R5JF	R5SF

Female 45°

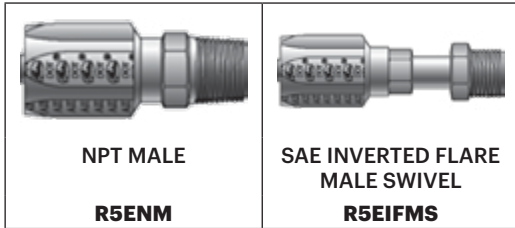
	
JIC 45° FEMALE SWIVEL	SAE FLARE 45° FEMALE SWIVEL
R5JF45	R5SF45

Female 90°

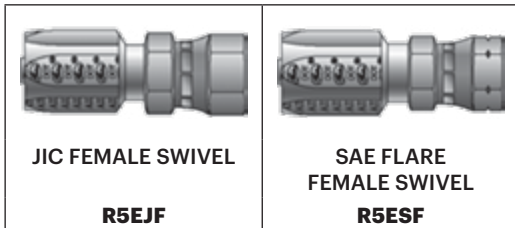
	
JIC 90° FEMALE SWIVEL	SAE FLARE 90° FEMALE SWIVEL
R5JF90	R5SF90

GATES C5E FIELD ATTACHABLE COUPLINGS - R5E

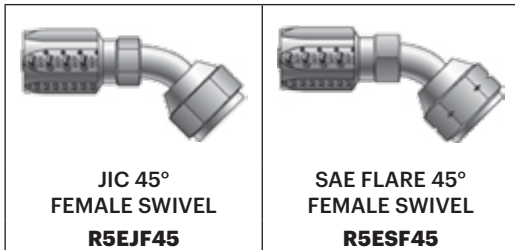
Male Straight



Female Straight



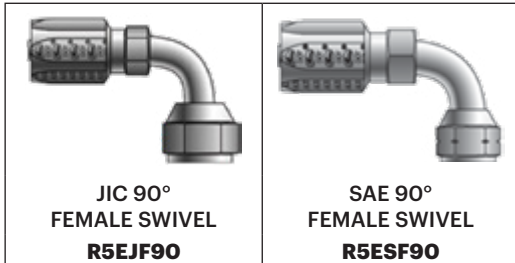
Female 45°



Male 45°



Female 90°

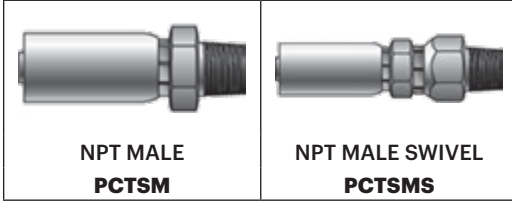


Male 90°

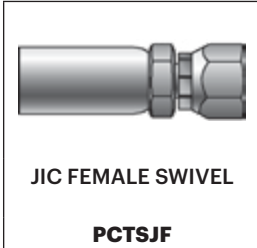


PCTS THERMOPLASTIC COUPLINGS

Male Straight



Female Straight



Female 90°

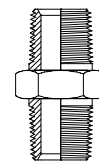
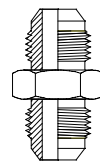


Types of Adaptors

Examples:

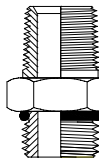
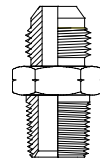
Straight Nipples - Male to Male - Same Threads

- » JIC x JIC
- » BSPT x BSPT
- » BSPP x BSPP
- » ORFS x ORFS



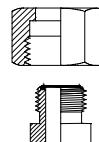
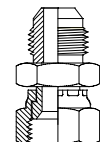
Adapting Nipples - Male to Male - Differing Threads

- » BSPT x JIC
- » BSPP x BSPT
- » METRIC x JIC
- » BSPP x JIC



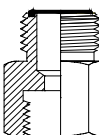
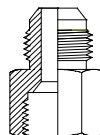
Reducing Adaptors - Female to Male - Same Threads

- » JIC Female x JIC Male
- » BSPP Female x BSPP Male
- » ORFS Female x ORFS Male



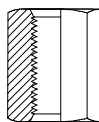
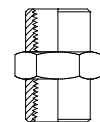
Expanding Adaptors - Male to Female - Same Threads

- » JIC Male x JIC Female
- » ORFS Male x ORFS Female



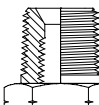
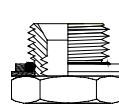
Straight Sockets - Female to Female - Same Threads

- » BSPT Female x BSPT Female
- » NPT Female x NPT Female
- » BSPT Female x BSPT Female



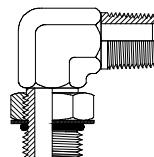
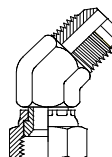
Reducing Bushes - Male to Female - Same Threads

- » BSPT Male x BSPT Female
- » NPT Male x NPT Female



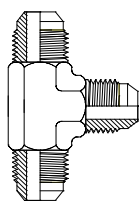
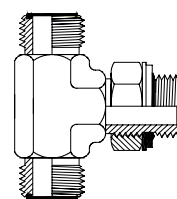
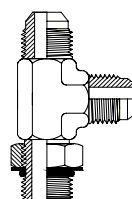
Elbows - 45° or 90° - Various Types - Various Thread Styles

- » JIC Male x JIC Male
- » JIC Male x JIC Female
- » JIC Male x BSPP Female
- » ORFS Male x ORFS Female

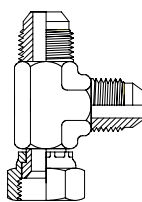


TEES - 3 Way - Various Thread Types and Styles

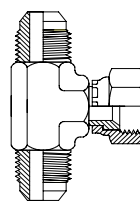
- » JIC Male x JIC Male x JIC Male
- » JIC Male x JIC Male x JIC Female (Branch TEE)
- » JIC Male x JIC Female x JIC Male (Running TEE)
- » JIC Male x JIC Male x UNO Male
- » JIC Male x BSPT Male x JIC Male
- » BSPT Female x BSPT Female x BSPT Female



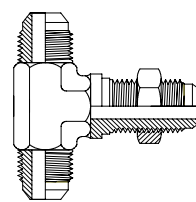
Equal TEE



Running TEE



Branch TEE



Bulkhead TEE

ADAPTORS

HOSE

HOSE COUPLINGS

ADAPTORS

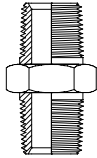
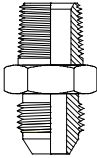
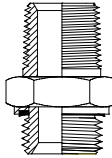
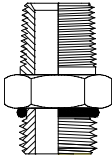
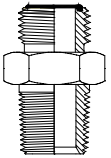
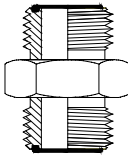
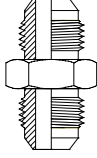
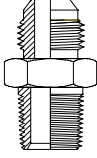
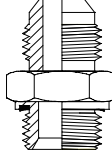
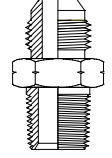
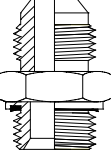
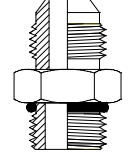
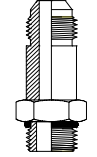
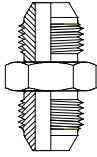
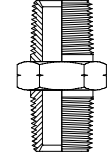
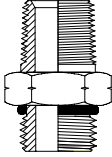
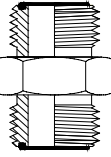
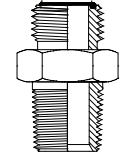
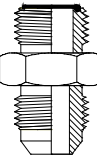
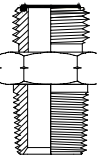
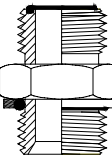
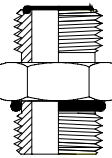
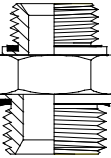
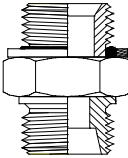
QUICK RELEASE COUPLINGS

ACCESSORIES



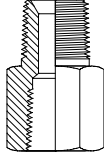
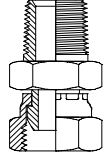
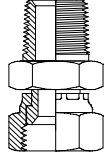
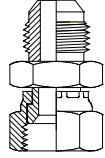
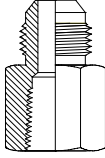
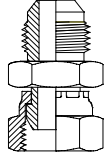
ADAPTORS

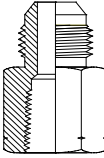
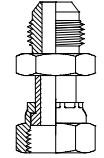
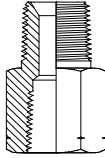
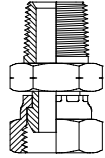
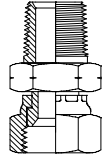
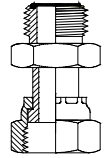
Straight Male - Male

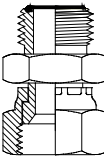
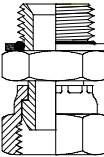
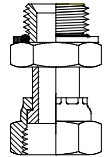
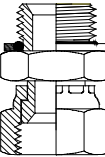
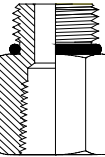
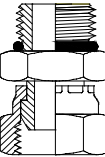
 <p>BSPT Male BSPT Male</p> <p>B1M</p>	 <p>BSPT Male KOM Male</p> <p>BK1M</p>	 <p>BSPT Male BSPP Male</p> <p>BP1M</p>	 <p>BSPT Male UNO Male</p> <p>BU1M</p>	 <p>METRIC FS Male BSPT Male</p> <p>CB1M</p>	 <p>METRIC FF Male METRIC FF Male</p> <p>C1M</p>
 <p>JIC Male JIC Male</p> <p>J1M</p>	 <p>JIC Male BSPT Male</p> <p>JB1M</p>	 <p>JIC Male METRIC Male</p> <p>JM1M</p>	 <p>JIC Male NPT Male</p> <p>JN1M</p>	 <p>JIC Male BSPP Male</p> <p>JP1M</p>	 <p>JIC Male UNO Male</p> <p>JU1M</p>
 <p>JIC Male (EXT) UNO Male</p> <p>JU1M EXT</p>	 <p>KOM Male KOM Male</p> <p>K1M</p>	 <p>NPT Male NPT Male</p> <p>N1M</p>	 <p>NPT Male UNO Male</p> <p>NU1M</p>	 <p>ORFS Male ORFS Male</p> <p>O1M</p>	 <p>ORFS Male BSPT Male</p> <p>OB1M</p>
 <p>ORFS Male JIC Male</p> <p>OJ1M</p>	 <p>ORFS Male NPT Male</p> <p>ON1M</p>	 <p>ORFS Male BSPP Male</p> <p>OP1M</p>	 <p>ORFS Male UNO Male</p> <p>OU1M</p>	 <p>BSPP Male BSPP Male</p> <p>P1M</p>	 <p>BSPP Male METRIC Male</p> <p>PM1M</p>

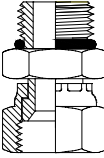
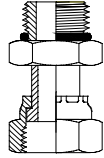
ADAPTORS

Straight Male - Female

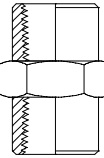
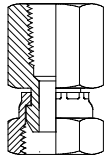
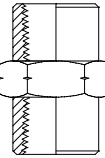
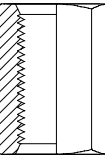
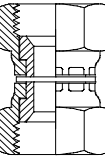
					
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JIC Male NPT Female JN1MF	JIC Male ORFS Female JO1MFS	NPT Male NPT Female N1MF	NPT Male NPT Female N1MFS	NPT Male JIC Female NJ1MFS	ORFS Male ORFS Female O1MFS

					
ORFS Male JIC Female OJ1MFS	BSPP Male BSPP Female P1MFS	BSPP Male ORFS Female PO1MFS	BSPP Male JIC Female PJ1MFS	UNO Male BSPT Female UB1MF	UNO Male BSPP Female UB1MFS

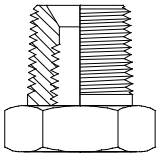
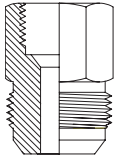
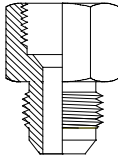
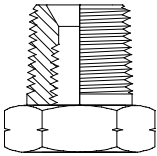
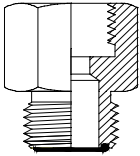
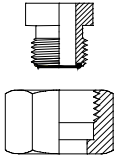
	
UNO Male JIC Female UJ1MFS	UNO Male ORFS Female UO1MFS

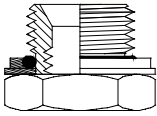
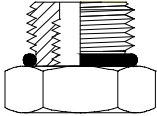
Straight Female - Female

				
BSPT Female BSPT Female B1F	BSPT Female BSPP Female B1FS	NPT Female NPT Female N1F	UNO Female UNO Female U1F	JIC Female JIC Female J1FS

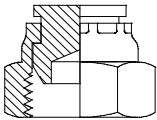
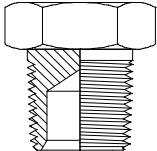
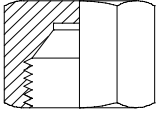
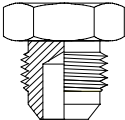
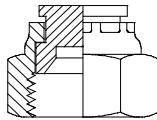
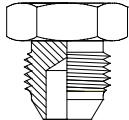
ADAPTORS

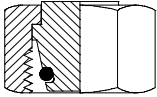
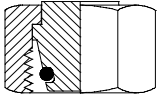
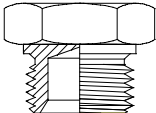
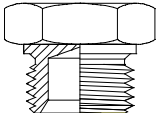
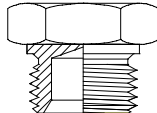
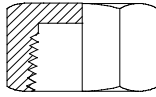
Reducers & Expanders Male to Female

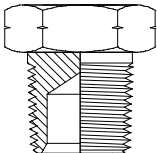
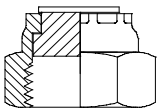
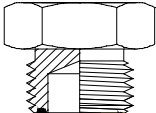
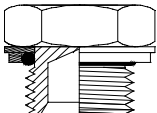
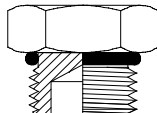
 BSPT Male BSPT Female B1R	 JIC Female JIC Male JTE	 JIC Female JIC Male JTR	 NPT Male NPT Female N1R	 ORFS Female ORFS Male OTE	 ORFS Female ORFS Male OTR
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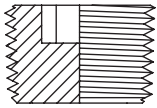
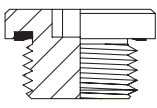
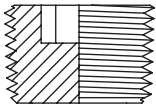
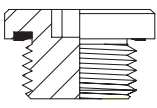
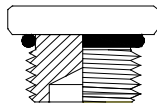
 BSPP Male BSPP Female P1R	 UNO Male UNO Female U1R
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Plugs & Caps

 BSPP Cap BC	 BSPT Plug BP	 JIC Cap JCN	 JIC Plug JP	 KOMATSU Cap KC	 KOMATSU Plug KP
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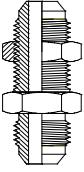
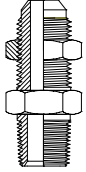
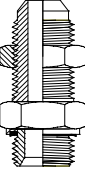
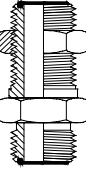
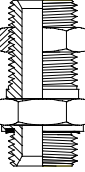
 Heavy Metric Cap MCH	 Light Metric Cap MCL	 Metric Stud Plug MP	 Heavy Metric Plug MPH	 Light Metric Plug MPL	 NPT Cap NC
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 NPT Plug NP	 ORFS Cap OCN	 ORFS Plug OP	 BSPP Plug PP	 UNO Plug UP
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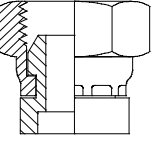
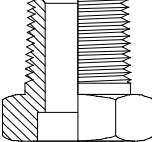
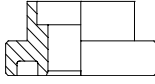
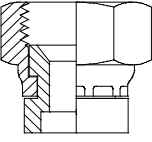
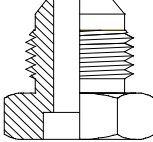
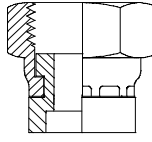
 BSPT Countersunk Plug BP-CS	 Metric Port Countersunk Plug MP-CS	 NPT Countersunk Plug NP-CS	 BSPP Countersunk Plug PP-CS	 UNO Countersunk Plug UP-CS
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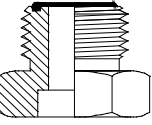
ADAPTORS

Straight Bulkhead Male to Male

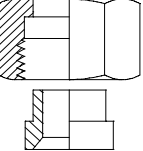
				
JIC B/H Male JIC Male J10M	JIC B/H Male BSPT Male JB10M	JIC B/H Male BSPP Male JP10M	ORFS B/H Male ORFS Male O10M	BSPP B/H Male BSPP Male P10M

Tube Welds

					
BSPP Female TUBE B25FS	BSPT Male TUBE B25M	C61 Flange TUBE F25M	JIC Female TUBE J25FS	JIC Male TUBE J25M	ORFS Female TUBE O25FS

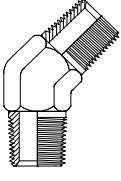
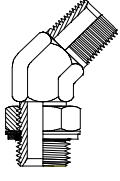
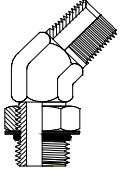
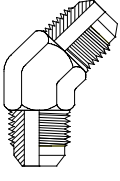
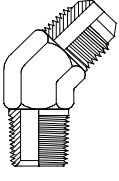
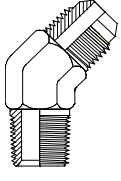
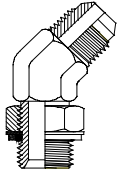
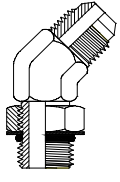
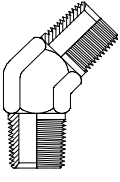
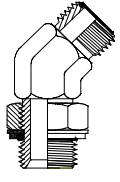
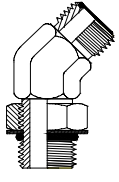

ORFS Male TUBE O25M

Nut & Sleeve

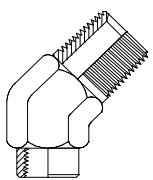
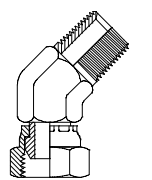
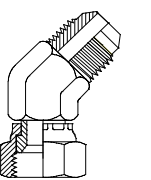
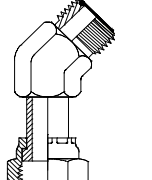

JIC Nut & Sleeve JNS

ADAPTORS

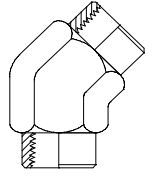
45° Elbow Male to Male

 <p>BSPT Male BSPT Male</p> <p>B4M</p>	 <p>BSPT Male BSPP Male</p> <p>BP4M</p>	 <p>BSPT Male UNO Male</p> <p>BU4M</p>	 <p>JIC Male JIC Male</p> <p>J4M</p>	 <p>JIC Male BSPT Male</p> <p>JB4M</p>	 <p>JIC Male NPT Male</p> <p>JN4M</p>
 <p>JIC Male BSPP Male</p> <p>JP4M</p>	 <p>JIC Male UNO Male</p> <p>JU4M</p>	 <p>NPT Male NPT Male</p> <p>N4M</p>	 <p>ORFS Male BSPP Male</p> <p>OP4M</p>	 <p>ORFS Male UNO Male</p> <p>OU4M</p>	

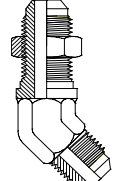
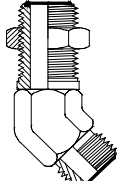
45° Elbow Male to Female

 <p>BSPT Male BSPT Female</p> <p>B4MF</p>	 <p>BSPT Male BSPP Female</p> <p>B4MFS</p>	 <p>JIC Male JIC Female</p> <p>J4MFS</p>	 <p>ORFS Male ORFS Female</p> <p>O4MFS</p>
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45° Elbow Female to Female

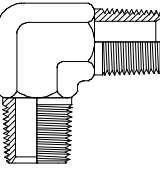
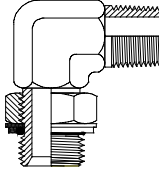
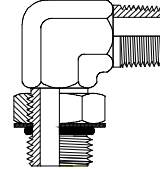
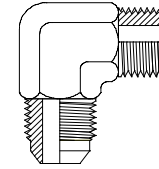
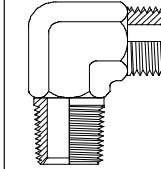
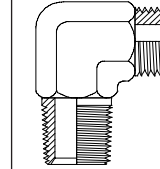
 <p>BSPT Female BSPT Female</p> <p>B4F</p>
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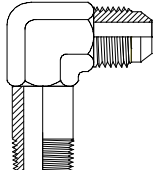
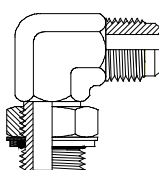
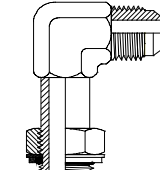
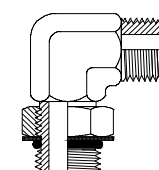
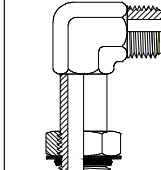
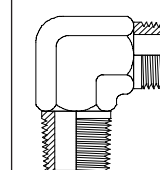
45° Bulkhead Elbow Male to Male

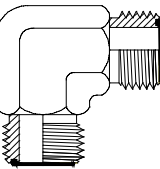
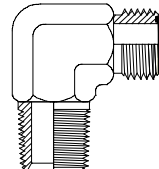
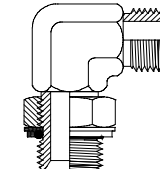
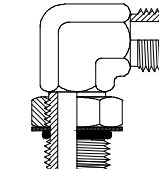
 <p>JIC B/H Male JIC Male</p> <p>J40M</p>	 <p>ORFS B/H Male ORFS Male</p> <p>O40M</p>
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ADAPTORS

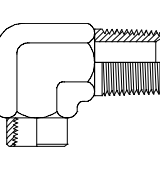
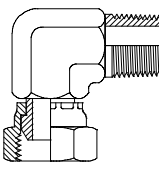
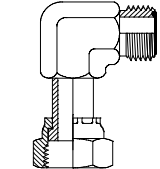
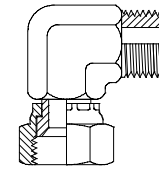
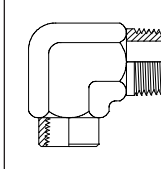
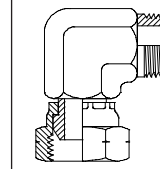
90° Elbow Male to Male

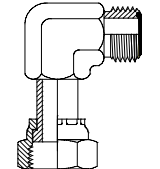
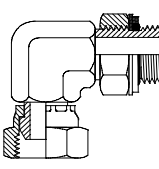
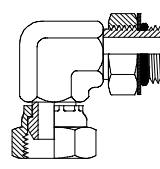
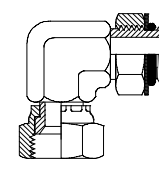
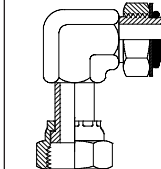
					
BSPT Male BSPT Male B9M	BSPT Male BSPP Male BP9M	BSPT Male UNO Male BU9M	JIC Male JIC Male J9M	JIC Male BSPT Male JB9M	JIC Male NPT Male JN9M

					
JIC Male NPT Male (EXT) JN9M EXT	JIC Male BSPP Male JP9M	JIC Male BSPP Male (EXT) JP9M EXT	JIC Male UNO Male JU9M	JIC Male UNO Male (EXT) JU9M EXT	NPT Male NPT Male N9M

			
ORFS Male ORFS Male O9M	ORFS Male NPT Male ON9M	ORFS Male BSPP Male OP9M	ORFS Male UNO Male OU9M

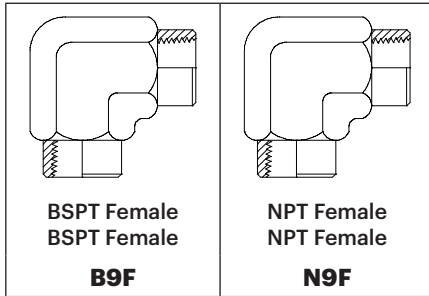
90° Elbow Male to Female

					
BSPT Male BSPT Female B9MF	BSPT Male BSPP Female B9MFS	MFF Male MFF Female C9MFS	JIC Male JIC Female J9MFS	NPT Male NPT Female N9MF	NPT Male NPT Female N9MFS

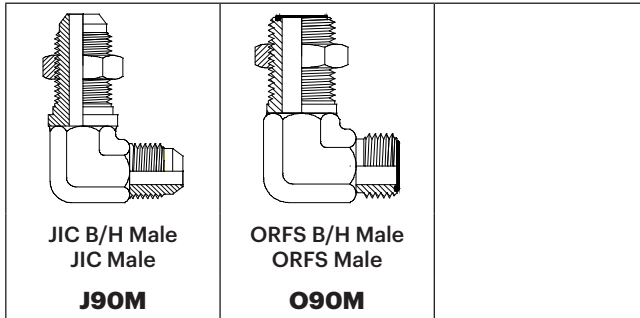
				
ORFS Male ORFS Female O9MFS	BSPP Male BSPP Female P9MFS	UNO Male BSPP Female UB9MFS	UNO Male JIC Female UJ9MFS	UNO Male ORFS Female UO9MFS

ADAPTORS

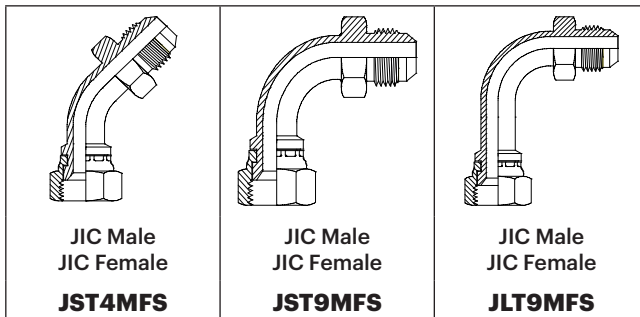
90° Elbow Female to Female



90° Bulkhead Elbow Male to Male



45° & 90° Tube Bend



ADAPTORS

TEE

B5M	BJ5M	BP5M	J5M	JB5M	JN5M

JP5M	JU5M	N5M	NJ5M	O5M	OP5M

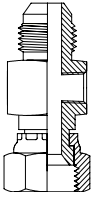
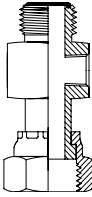
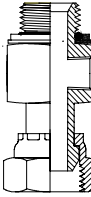
OU5M	PO5M	PJ5M	UJ5M	UO5M	J50M

O50M	B5FSM	B5MFS	J5FSM	J5MFS	O5FSM

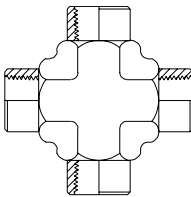
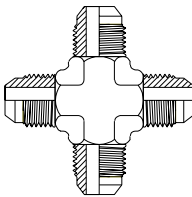
O5MFS	B5FFSM	B5MFF	N5MFF	B5F	N5F

ADAPTORS

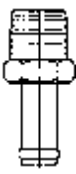
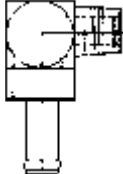
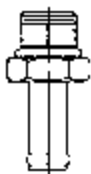
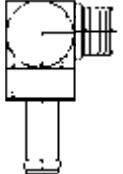
Adaptors Male to Female with Test Point

		
JIC Male JIC Female BSPT Female J1MFS	ORFS Male ORFS Female BSPT Female O1MFS	BSPP Male BSPP Female BSPT Female P1MFS

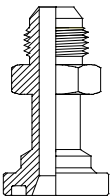
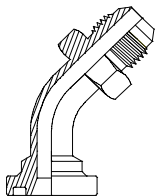
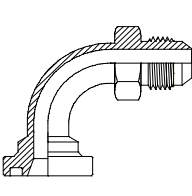
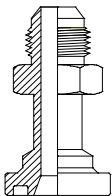
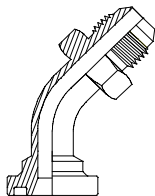
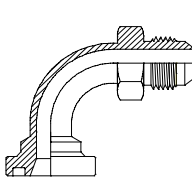
Cross

	
BSPT Female BXF	JIC Male JXM

Suction Hose Tails

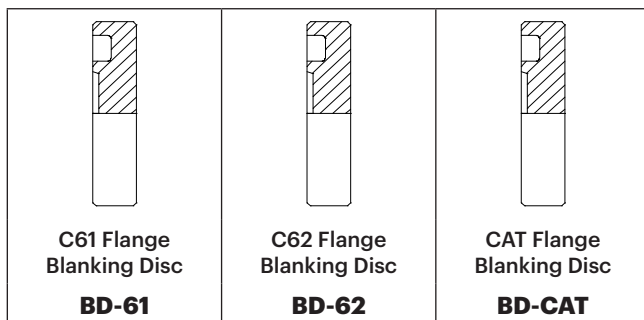
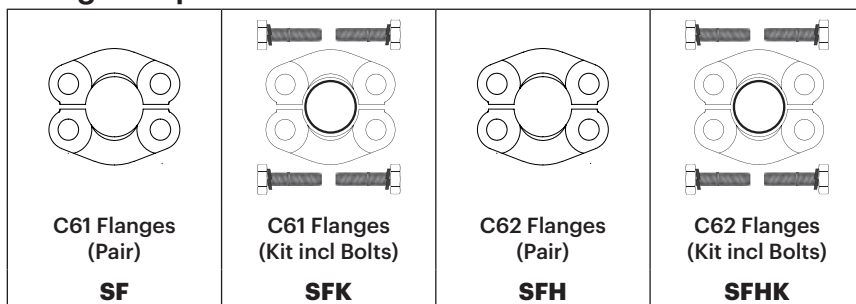
			
BSPT Male Hose Tail BH1M	BSPT Male Hose Tail BH9M	UNO Male Hose Tail UH1M	UNO Male Hose Tail UH9M

Flange Adaptors

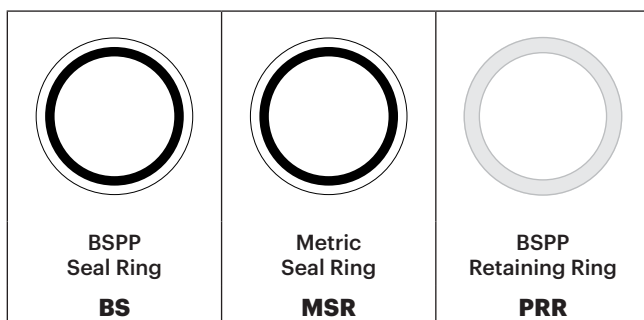
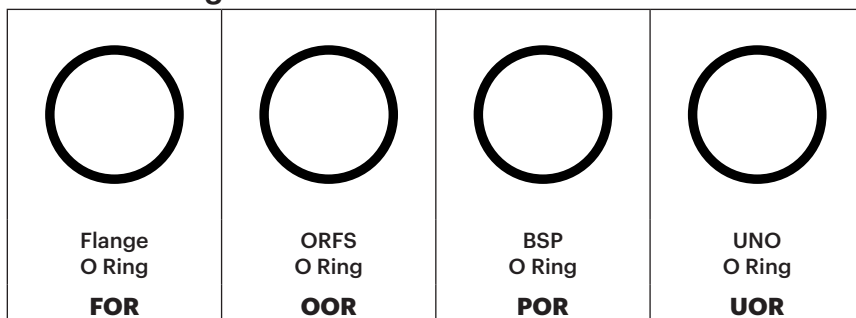
					
JIC Male C61 Flange JF1M	JIC Male C61 Flange JF4M	JIC Male C61 Flange JF9M	JIC Male C62 Flange JFH1M	JIC Male C62 Flange JFH4M	JIC Male C62 Flange JFH9M

ADAPTORS

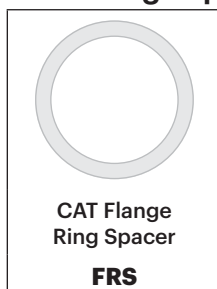
Flange Adaptors



Seals & O Rings



CAT Flange Spacer

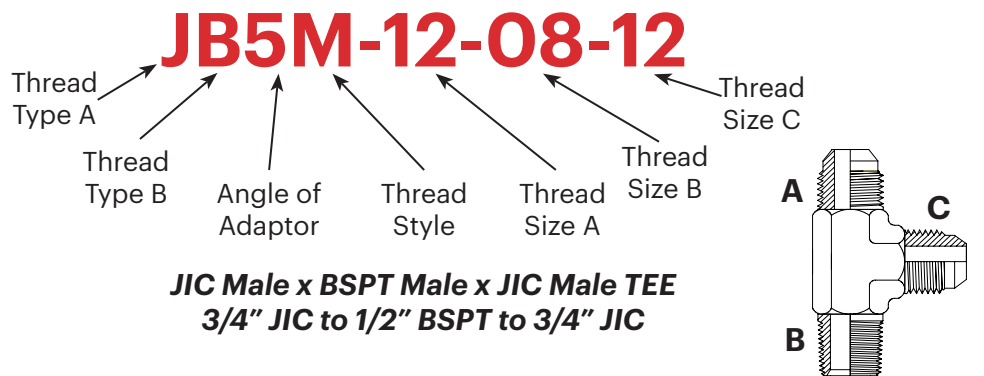
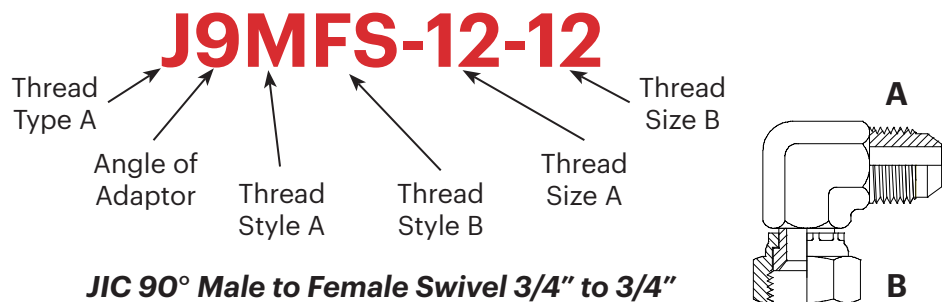
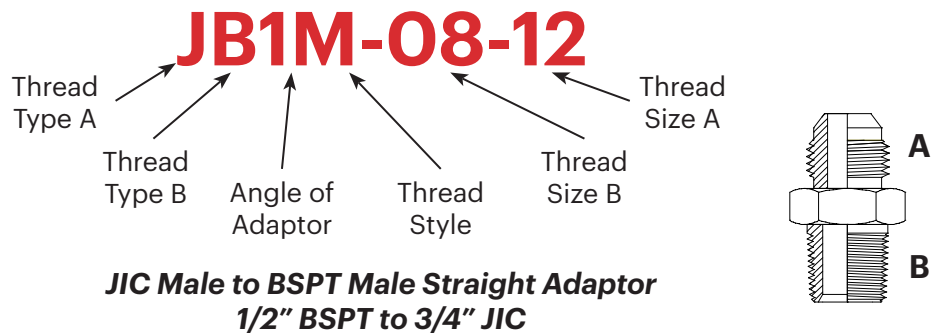


Hardy Spicer Part Number System

Thread Types	Angle	Thread Style
B = BSPT	1 = Straight Adaptor	M = Male
CM = Chinese Metric	4 = 45° Bend/Elbow	F = Female
F = SAE Code 61 Flange	5 = TEE	FS = Female Swivel
FH = SAE Code 62 Flange	9 = 90° Bend/Elbow	C = Cap
J = JIC	10 = Straight Bulkhead	CN = Cap Nut
M = Metric	25 = Weld On	H = LP Hose Tail
N = NPT	40 = 45° Bulkhead Elbow	P = Plug
O = O-Ring Face Seal (ORFS)	90 = 90° Bulkhead Elbow	R = Reducer
P = BSPP	50 = Bulkhead TEE	TE = Tube Expander
U = UNO (SAE O-Ring Boss)	X = Cross	TR = Tube Reducer
K = Komatsu Thread		

Thread Size	
Dash	Thread
-02	1/8"
-03	3/16"
-04	1/4"
-05	5/16"
-06	3/8"
-07	7/16"
-08	1/2"
-09	9/16"
-10	5/8"
-11	11/16"
-12	3/4"
-13	13/16"
-14	7/8"
-16	1"
-17	1-1/16"
-19	1-3/16"
-20	1-1/4"
-21	1-5/16"
-23	1-7/16"
-24	1-1/2"
-26	1-5/8"
-27	1-11/16"
-30	1-7/8"
-32	2"
-40	2-1/2"

Part Number System Examples



Note: Metric is equal to thread size in mm

QUICK RELEASE COUPLINGS

HOSE

HOSE COUPLINGS

ADAPTORS





QUICK RELEASE COUPLINGS

ACCESSORIES







QUICK RELEASE COUPLINGS (QR)





ISO7241-1 Type A





			
QRC ISO A FEMALE BODY BSP F-ISOA-**-**-PS	QRC ISO A MALE TIP BSP M-ISOA-**-**-PS	QRC ISO A DUST PLUG DP-ISOA-**-**	QRC ISO A DUST CAP DC-ISOA-**-**

ISO7241-1 Type B





			
QRC ISO B FEMALE BODY BSP F-ISOB-**-**-PS	QRC ISO B MALE TIP BSP M-ISOB-**-**-PS	QRC ISO B DUST PLUG DP-ISOB-**-**	QRC ISO B DUST CAP DC-ISOB-**-**





Ag Ball

			
QRC AGRI BALL FEMALE BODY BSP F-AGB-**-**-P	QRC AGRI BALL MALE BODY BSP M-AGB-**-**-P	QRC AGRI BALL DUST PLUG DP-ISOB-**-**	QRC AGRI BALL DUST CAP DC-ISOB-**-**

			
QRC AGRI BALL FEMALE BODY NPT F-AGB-**-**-N	QRC AGRI BALL MALE BODY NPT M-AGB-**-**-N	QRC AGRI BALL DUST PLUG DP-ISOB-**-**	QRC AGRI BALL DUST CAP DC-ISOB-**-**

Ag Poppet

			
QRC AGRI POPPET FEMALE BODY BSP F-AGP-**-**-P	QRC AGRI POPPET MALE BODY BSP M-AGP-**-**-P	QRC AGRI POPPET DUST PLUG DP-ISOB-**-**	QRC AGRI POPPET DUST CAP DC-ISOB-**-**

			
QRC AGRI POPPET FEMALE BODY NPT F-AGP-**-**-N	QRC AGRI POPPET MALE BODY NPT M-AGP-**-**-N	QRC AGRI POPPET DUST PLUG DP-ISOB-**-**	QRC AGRI POPPET DUST CAP DC-ISOB-**-**

QUICK RELEASE COUPLINGS (QR)

ISO 16028 Flat Face



TLX Screw To Connect



Nordic (Tema) Style







Jacking







QUICK RELEASE COUPLINGS (QR)

PBR Interchange Couplings

 <p>QRC PBR FEMALE BODY BSP F-PBR-**-**-P</p>	 <p>QRC PBR MALE BODY BSP M-PBR-**-**-P</p>	 <p>QRC PBR DUST PLIG PB3310-11</p>	 <p>QRC PBR DUST CAP PB3310-12</p>
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PB3310 Interchange Couplings

 <p>QRC PB3310 FEMALE BODY BSP PB3310-29</p>	 <p>QRC PB3310 MALE BODY BSP PB3310-22</p>	 <p>QRC PBR DUST PLIG PB3310-11</p>	 <p>QRC PBR DUST CAP PB3310-12</p>
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HOSE

HOSE COUPLINGS

ADAPTORS

QUICK RELEASE COUPLINGS

ACCESSORIES

ACCESSORIES

HOSE

HOSE COUPLINGS

ADAPTORS


QUICK RELEASE COUPLINGS

ACCESSORIES

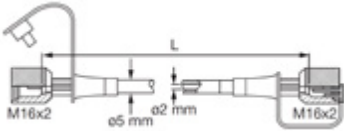


ACCESSORIES


Air Brake Hose Assemblies

<p>ABHA-**</p> 	<p>Description / Specifications</p> <p>Factory made assemblies to meet the rigorous conditions of today's heavy duty truck market. 1/2" hose assemblies ranging from 18 to 72 inches in length, fitted with high quality brass 3/8" male pipe fitting on one end and 3/8" female air brake swivel with a 3/8" male pipe adaptor on the other end.</p>
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Test Hoses


<p>TEST-HOSE-****</p> 	<p>Description / Specifications</p> <ul style="list-style-type: none"> • Maximum working pressure 9000 psi (630 BAR) at 122°F (50°C) • Suitable for petroleum based fluids • Temperature range -4° to 122°F (-20° to 50°C) at max. pressure • Polyamid core with polyester braid reinforcement and polyamid jacket • Plastic dust cap • 1620 female connection at both ends • Bend radius: 20mm minimum • Hose ID is 2mm • Custom hose assemblies available on request • Test20 and direct gauge ends also available <p>NPT Male, NPT Female, JIC Male, JIC Female Swivel hose ends.</p>
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Test Point Adaptors

<p>TEST-</p> 	<p>Test Point Adaptors and Connectors</p> <ul style="list-style-type: none"> • Test points available in various threads. • Direct gauge adaptors available in various threads. • Gauge bulkhead adaptors available in various threads. • Straight coupling for hose to connection - M16X2.0 thread. • Standpipe adaptors available in various threads.
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ACCESSORIES


Pressure Gauges


PG63- 	63mm Gauges
	63mm diameter pressure gauges. 1/4" BSPP Bottom and rear entry mount. All gauges have a Stainless Steel casing and are filled with glycerine.


PG100- 	100mm Gauges
	100mm diameter pressure gauges. 1/2" BSPP Bottom and rear entry mount. All gauges have a Stainless Steel casing and are filled with glycerine.


Clamps

SLDC- 	Single Light Duty Clamp
	Single hole light duty bolt clamps. Diameter - 6mm to 51mm

SHDC- 	Single Heavy Duty Clamp
	Single hole heavy duty bolt clamps. Diameter - 10mm to 70mm Large sizes (up to 406mm) available on request.






TLDC- 	Twin Light Duty Clamp
	Twin hole light duty bolt clamps. Diameter - 6mm to 42mm

900729-**-PO 	P Clamps - Polyethelene Coated
	Polyethelene coated P Clamps. Diameter - 6mm to 90mm

P-CLAMP-**-** 	P Clamps - Rubber Coated
	Rubber coated P Clamps. Diameter - 4mm to 70mm

ACCESSORIES

Clamps

<p>SW1-</p> 	<p>Super Clamps</p> <p>Super clamps. Diameter - 17mm to 213mm</p>
<p>SW2-</p> 	<p>Super Clamps - Stainless Steel Band</p> <p>Super clamps with stainless steel band. Diameter - 17mm to 213mm</p>
<p>SW4-</p> 	<p>Super Clamps - Stainless Steel Full</p> <p>Super clamps, complete stainless steel. Diameter - 17mm to 213mm</p>
<p>MAH4</p> 	<p>Worm Drive Clamps - Stainless Steel Band</p> <p>Worm drive clamp stainless steel band. Diameter - 6mm</p>
<p>HSS**</p> 	<p>Worm Drive Clamps - Stainless Steel Band</p> <p>Worm drive clamps stainless steel band. Diameter - 11mm to 508mm</p>
<p>SBC-</p> 	<p>Shrink Band Clamps</p> <p>Shrink band clamps to suit hose OD - 12.70mm to 92.10mm</p>

ACCESSORIES

Valves

<p>HBV**B</p> 	<p>Two Way High Pressure Ball Valves</p> <p>High Pressure Ball Valve F/F, carbon steel body. Diameter - 1/4" to 1 1/2"</p>
<p>3HBV**B</p> 	<p>Three Way High Pressure Ball Valves</p> <p>High Pressure Ball Valve F/F/F, carbon steel body. Diameter - 1/4" to 1 1/2" L and T Port options available.</p>
<p>BBVAGA***</p> 	<p>Low Pressure Brass Ball Valves</p> <p>Low Pressure Ball Valve F/F, brass body. Diameter - 1/4" to 2"</p>
<p>BBVAGAMF***</p> 	<p>Low Pressure Brass Ball Valves - M/F</p> <p>Low Pressure Ball Valve M/F, brass body. Diameter - 1/4" to 1 1/2"</p>
<p>BBVAGAT***</p> 	<p>Low Pressure Brass Ball Valves - Tee Handle</p> <p>Low Pressure Ball Valve F/F, tee handle, brass body. Diameter - 1/4" to 1"</p>
<p>SS1P***</p> 	<p>Stainless Steel Ball Valves - 1 Piece</p> <p>Ball Valve F/F, stainless steel body. Diameter - 1/4" to 2"</p>
<p>MBVFF***</p> 	<p>Low Pressure Brass Ball Valves - Mini</p> <p>Low Pressure Mini Ball Valve F/F, brass body. Diameter - 1/4" to 3/4"</p>
<p>MBVMF***</p> 	<p>Low Pressure Brass Ball Valves - Mini - M/F</p> <p>Low Pressure Mini Ball Valve M/F, brass body. Diameter - 1/4" to 3/4"</p>
<p>CV*A05</p> 	<p>Check Valves</p> <p>Check Valves - carbon steel. Diameter - 1/4" to 1" High pressure check valves, 0.5 Bar cracking pressure</p>

ACCESSORIES

Live Swivel Joints

SZ-JM-JB**F**



Straight Swivel Joints - JIC Male to UNO Female

JIC Male to UNO Female Straight Live Swivels in six sizes from 3/4" to 2-1/2"
Cartridges and seal kits available for all sizes.

SZ-PM-P**F**



Straight Swivel Joints - BSPP Male to BSPP Female

BSPP Male to BSPP Female Straight Live Swivels in four sizes from 1/2" to 1-1/4"
Cartridges and seal kits available for all sizes.

SZ-SM-S**F**



Straight Swivel Joints - ORFS Male to ORFS Female

ORFS Male to ORFS Female Straight Live Swivels in four sizes from 13/16" to 1-11/16"
Cartridges and seal kits available for all sizes.

SZ90-JM-B**F**



90° Swivel Joints - JIC Male to UNO Female

JIC Male to UNO Female 90° Live Swivels in six sizes from 3/4" to 2-1/2"
Cartridges and seal kits available for all sizes.

SZ90-PM-B**F**



90° Swivel Joints - BSPP Male to UNO Female

BSPP Male to UNO Female 90° Live Swivels in four sizes from 1/2" to 1-1/4"
Cartridges and seal kits available for all sizes.

SZ90-SM-B**F**









90° Swivel Joints - ORFS Male to UNO Female

ORFS Male to UNO Female 90° Live Swivels in four sizes from 13/16" to 1-11/16"
Cartridges and seal kits available for all sizes.

ACCESSORIES

Assortment Packs

<p>HS-KIT-ORING</p> 	<p>O-Ring</p> <p>O-Ring assortment kit containing 16 assorted o-rings to suit SAE Flanges, UN Threads and Flat Face adaptors.</p>
<p>HS-KIT-IFCM-1</p> 	<p>Fuel Line Hose Clamps</p> <p>Fuel line hose clamp kit. For use on fuel injection hose, transmission hose and other small hose applications.</p>
<p>HS-KIT-ICCM-1</p> 	<p>Hose Connectors & Clamps</p> <p>Hose connector and clamp pack. Suitable for hose replacement and repairs on cooling systems</p>
<p>HS-KIT-IPCM-1</p> 	<p>Pipe Clamps</p> <p>Pipe retaining clamps for securing hose and tube. A Rubber liner on the clamp absorbs vibration and protects the hose or tube.</p>
<p>HS-KIT-BS1</p> 	<p>Bonded Seal</p> <p>Bonded Seal kit containing a popular range of seals ranging in size from 1/8" to 1 1/4".</p>
<p>HS-KIT-MS1</p> 	<p>Metric Seal</p> <p>Metric Seal kit containing a popular range of seals ranging in size from 6mm to 31mm</p>

ACCESSORIES

Assortment Packs

KIT-CAT2701528



CAT O-Ring

O-Ring assortment kit containing 32 assorted o-ring's for XT-3 face and boss connections

KIT-CAT2701535



CAT D-Ring

D-Ring assortment kit containing 9 assorted d-ring's for XT-5 and XT-6 flanges.

HS-KIT-SP-



Service Plugs

Service plug kits to prevent spills and protect the environment while working on hose assemblies. Four kits available.

- 10 Pack Mixed combination of three different sizes.
- 20 Pack of 1x10mm Service Plugs
- 10 Pack of 5x22mm Service Plugs
- 4 Pack of 13x42mm Service Plugs

Spill Control

OIL-SP-



Oil Spill Kits

Oil spill kits available on request

- Absorbent Sponge
- Absorbent Pads
- Absorbent Roll
- Absorbent Pillows
- Absorbent Booms
- Specialty Kits

Thread Identification Chart

Thread size - Teeth per inch (TPI)

Dash Size	-05	-06	-07	-08	-09	-11	-12	-14	-17	-19	-21	-26	-32	-40
JIC 37° Flare Thread	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18		3/4" - 16	7/8" - 14	1-1/16" - 12	1-3/16" - 12	1-5/16" - 12	1-5/8" - 12	1-7/8" - 12	2-1/2" - 12
SAE O-Ring Thread (UNO)	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18		3/4" - 16	7/8" - 14	1-1/16" - 12	1-3/16" - 12	1-5/16" - 12	1-5/8" - 12	1-7/8" - 12	2-1/2" - 12
SAE 45° Flare Thread	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	5/8" - 18	11/16" - 16	3/4" - 16	7/8" - 14	1-1/16" - 14					
Inverted Flare Thread	5/16" - 28	3/8" - 24	7/16" - 24	1/2" - 20	5/8" - 18	11/16" - 18	3/4" - 18	7/8" - 18	1-1/16" - 16					

Dash Size	-02	-04	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48	
BSPP Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" 11	1-1/2" - 11	2" - 11	2-1/2"-11	3"-11	
BSPT Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" 11	1-1/2" - 11	2" - 11	2-1/2"-11	3"-11	
NPTF Pipe Thread	1/8" - 27	1/4" - 18	3/8" - 18	1/2" - 14		3/4" - 14	1" - 11 1/2	1-1/4" - 11 1/2	1-1/2" - 11 1/2	2" - 11 1/2	2-1/2" - 8	3" - 8	
NPSM Swivel Thread	1/8" - 27	1/4" - 18	3/8" - 18	1/2" - 14		3/4" - 14	1" - 11 1/2	1-1/4" - 11 1/2	1-1/2" - 11 1/2	2" - 11 1/2			
Japanese Pipe Tapered Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" 11	1-1/2" - 11	2" - 11			
Japanese Flare Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" 11	1-1/2" - 11	2" - 11			
Code 61 Flange Head O.D.				1.19 (30.20mm)	1.34 (34.16mm)	1.50 (38.10mm)	1.75 (44.45mm)	2.00 (50.80mm)	2.38 (60.33mm)	2.81 (71.42mm)	3.31 (84.12mm)	4.00 (101.6mm)	
Code 62 Flange Head O.D. (Incl. Caterpillar Flanges)				1.25 (31.75mm)		1.62 (41.28mm)	1.88 (47.63mm)	2.12 (53.98mm)	2.5 (63.50mm)	3.12 (79.38mm)			

Dash Size	-09	-11	-13	-16	-19	-23	-27	-32				
Flat-Face Thread (ORFS)	9/16" - 18	11/16" - 16	13/16" - 16	1" - 14	1-3/16" - 12	1-7/16" - 12	1-11/16" - 12	2" - 12				

Metric (mm)	-12	-14	-16	-18	-20	-22	-24	-26	-30	-33	-36	-42	-45	-52
MDL	M12 x 1.5	M14 x 1.5	M16 x 1.5	M18 x 1.5		M22 x 1.5		M26 x 1.5	M30 x 2.0		M36 x 2.0		M45 x 2.0	M52 x 2.0
MDH		M14 x 1.5	M16 x 1.5	M18 x 1.5	M20 x 1.5	M22 x 1.5	M24 x 1.5		M30 x 2.0		M36 x 2.0	M42 x 2.0		M52 x 2.0
Komatsu		M14 x 1.5		M18 x 1.5		M22 x 1.5	M24 x 1.5		M30 x 1.5	M33 x 1.5	M36 x 1.5	M42 x 1.5		
French					M20 x 1.5		M24 x 1.5		M30 x 1.5		M36 x 1.5		M45 x 1.5	M52 x 1.5

Conversion Chart

Imperial	Fraction	Metric	Imperial	Fraction	Metric	Imperial	Fraction	Metric
0.016	1/64	0.40	0.438	7/16	11.11	0.859	55/64	21.83
0.031	1/32	0.79	0.453	29/64	11.51	0.875	7/8	22.23
0.047	3/64	1.19	0.469	15/32	11.91	0.891	57/64	22.62
0.063	1/16	1.59	0.484	31/64	12.30	0.906	29/32	23.02
0.078	5/64	1.98	0.500	1/2	12.70	0.922	59/64	23.42
0.094	3/32	2.38	0.516	33/64	13.10	0.938	15/16	23.81
0.109	7/64	2.78	0.531	17/32	13.49	0.953	61/64	24.21
0.125	1/8	3.18	0.547	35/64	13.89	0.969	31/32	24.61
0.141	9/64	3.57	0.563	9/16	14.29	0.984	63/64	25.00
0.156	5/32	3.97	0.578	37/64	14.68	1.000	1	25.40
0.172	11/64	4.37	0.594	19/32	15.08	1.063	1 1/16	26.99
0.188	3/16	4.76	0.609	39/64	15.48	1.125	1 1/8	28.58
0.203	13/64	5.16	0.625	5/8	15.88	1.188	1 3/16	30.16
0.219	7/32	5.56	0.641	41/64	16.27	1.250	1 1/4	31.75
0.234	15/64	5.95	0.656	21/32	16.67	1.312	1 5/16	33.32
0.250	1/4	6.35	0.672	43/64	17.07	1.375	1 3/8	34.93
0.266	17/64	6.75	0.688	11/16	17.46	1.438	1 7/16	36.51
0.281	9/32	7.14	0.703	45/64	17.86	1.500	1 1/2	38.10
0.297	19/64	7.54	0.719	23/32	18.26	1.563	1 9/16	39.69
0.313	5/16	7.94	0.734	47/64	18.65	1.625	1 5/8	41.28
0.328	21/64	8.33	0.750	3/4	19.05	1.750	1 3/4	44.45
0.344	11/32	8.73	0.766	49/64	19.45	1.875	1 7/8	47.63
0.359	23/64	9.13	0.781	25/32	19.84	2.000	2	50.80
0.375	3/8	9.53	0.797	51/64	20.24	3.000	3	76.20
0.391	25/64	9.92	0.813	13/16	20.64	4.000	4	101.60
0.406	13/32	10.32	0.828	53/64	21.03	5.000	5	127.00
0.422	27/64	10.72	0.844	27/32	21.43	6.000	6	152.40



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