For 6 decades, Jason Industrial® has become the go-to source throughout the Americas for industrial hose products serving a broad range of industries while offering a wide portfolio of hose products, couplings and hose accessories. We are now pleased to present our newest product addition, Hydraulic Hose. Within this catalog you will find our range of hydraulic hose products, couplings and crimping equipment.

The cornerstone of Jason Industrial’s success has been product quality, outstanding customer service, well stocked inventories, strong B2B tools and smooth logistical planning for partner companies. This will be the same commitment we extend to our hydraulic hose business. Jason Industrial is supported by our central warehouse just outside of Chicago as well as satellite distribution centers in Fairfield NJ, Tampa FL, Dallas TX and Bell (LA) CA. Additional stocking centers in the Americas include Montreal Canada, Mexico City, Mexico, Cartagena and Bogota Colombia, Sorocaba Brazil and Lima, Peru.

MyCrimp

Jason Industrial is pleased to provide an easy to use downloadable Mobile App enabling users a quick up to date source showing the right coupling specifications for the hose products we offer. Our App, Jason MyCrimp provides a fast, easy to use tool for obtaining important information to ensure safety by using the right coupling and hose together.

Our App, enables you to search by Hose, Coupling type or crimping equipment to obtain the right specification to ensure you are safely following the right procedures.

More information on our MyCrimp app on pages 190-191.
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## COUPLINGS
### 60/JB60 SERIES FOR 4-SPiral & 6-SPiral HOSES

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### 75/JFR5 FIELD ATTACHABLE (REUSABLE) COUPLINGS - FOR SAE 100R5, J1402 TYPE AII, FMVS 106 HOSES

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### CRIMPING EQUIPMENT & ACCESSORIES

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GUIDELINES - LIABILITY

Jason Industrial Disclaims Any Responsibility or Liability for Any Crimped Hose Assemblies That Have Not Been Made Exclusively from Genuine Jason Hose, Hose Fittings and Approved Equipment. This Is in Conformance with Current Jason Guidelines for Each Specific Hose Assembly.

Jason products are part of an engineered system which must be assembled and used in accordance with Jason instructions and limitations. Jason hose, couplings and crimping machines are a reliable assembly system designed by our engineering group. The use of other than Jason components (hose, couplings, equipment) may produce assemblies that will not meet the rated performance. Failure to follow Jason guidelines could lead to premature hose failures resulting in property damage, serious injury or death.

Jason’s limited warranty shall only apply if the customer uses the hose, hose fittings and crimping equipment specifically approved by Jason’s engineers.

Jason will not be responsible when interchanging hose and/or couplings with hose and/or couplings with any other manufacturer. Jason’s liability ends and customer’s begins when data is ignored or altered and products, other than Jason’s are assembled together.

Product Liability Responsibility for Such Hose Assemblies Become the Personal Responsibility of the Assembler or the Company Endorsing These Practices.

There is the argument that hoses branded with the same SAE specification are the same and can be interchanged and used with our couplings. That is false! Hose can only be expected to perform to the requirements of SAE when they are assembled with manufacturer approved couplings. This fact is recognized by SAE in their SAE J1273 handbook:

Proper End Fitting – Care must be taken to insure proper compatibility exists between the hose and coupling selected based on the manufactures’ recommendation substantiated by testing to industry standards such as SAE J517.

All Jason customers need to recognize the following critical points:
1. The data supplied with the Jason crimper was developed after extensive testing with Jason hose and couplings.
2. The data that Jason supplies is only good with products bearing the Jason name and catalog part number.
3. Jason couplings, used with other manufacturer’s hose, will not necessarily produce an acceptable assembly. Hose styles with identical SAE specs, for instance, are not necessarily the same when come to performance with Jason couplings.
4. Hose compatibility with various materials is a reference only. The purchaser is responsible for the verification of suitability. Consult Jason if there is any doubt.
5. Jason crimpers can only be used to crimp approved Jason hose and couplings.
6. Minimum burst pressure ratings listed in our catalog, are for reference and design purposes only.

Minimum burst pressure ratings give no indication that the product should be used above the indicated rated working pressure.
AIRCRAFT APPLICATION GUIDELINES

There are no Jason products that we would endorse to be used in any aircraft applications. Our hose and coupling (includes belts) product lines are not designed for any types of aircraft, including helicopters, commercial or private airplanes, ultra-light planes and lighter-than-air craft.

If the user violates the above policy by using Jason product on an aircraft application, that user assumes the sole and exclusive responsibility and liability and Jason assumes no responsibility or liability regarding same.

AIR BRAKE ASSEMBLY GUIDELINES

Federal law requires registration with the Department of Transportation (DOT) for anyone producing air brake hose assemblies with swaged or crimp fittings. The Jason 5050 series hose has been tested and meets SAE 100R5 and J1402 Type All/FMVSS 106 requirements with Jason provided 75 Series field attachable (reusable) couplings. Sizes 16 (7/8” bore) and larger are not included in the SAE J1402/FMVSS 106 standards.

Anyone wishing to produce any permanently crimped or swaged assembly used in airbrake systems, is required to perform all required testing to meet the federal standards, including labeling and registering their own unique manufacturing mark with DOT.
SAE J1273 HYDRAULIC GUIDELINES

Foreword - This SAE Recommended Practice is intended as a guide to consider when selecting, routing, fabricating, installing, replacing, maintaining, and storing hose force fluid power systems. It is subject to change to keep pace with experience and technical advances. For those new to hose use in a fluid-power system, this guide outlines practices to note during each phase of system design and use. Experienced designers and users skilled in achieving proper results, as well as the less experienced, can use this outline as a list of considerations to keep in mind.

Fluid power systems are complex and require extensive knowledge of both system requirements and the various types of hose. Therefore, all-inclusive, detailed, step-by-step instructions are not practical and are beyond the scope of this document. Less experienced designers and users who need more information can consult specialists such as hose suppliers and manufacturers. This guide can improve the communication process.

Safety Considerations - These recommended practices involve safety considerations; note these carefully during all phases of design and use of hose systems. Improper selection, fabrication, installation, or maintenance of hose and hose assemblies for fluid-power systems, may result in serious personal injury or property damage. These recommended practices can reduce the likelihood of component or system failure, thereby reducing the risk of injury or damage.

1. Scope - SAE J1273 provides guidelines for selection, routing, fabrication, installation, replacement, maintenance and storage of hose and hose assemblies for fluid-power systems. Many of these SAE Recommended Practices also may be suitable for other hoses and systems.

2. References

2.1 Application Documents - The following publications form a part of this specification to the extent specified herein. Unless otherwise specified, the latest issue of SAE publications shall apply.

a. SAE J343 - Test and Procedures for SAE 100R Series Hydraulic Hose and Hose Assemblies
b. SAE J514 - Hydraulic Tube Fittings
c. SAE J517 - Hydraulic Hose
d. SAE J1927 - Cumulative Damage Analysis for Hydraulic Hose Assemblies.

2.1.2 ISO Publication - Available from ANSI, 25 W. 43rd St. New York, NY 10036-8002

3. Definitions - These explanations serve only to clarify this document and are not intended to stand alone. They are presented sequentially, with the former helping to explain the latter.

3.1 Fluid Power - Energy transmitted and controlled using pressurized hydraulic fluids or compressed air.

3.2 Hose - Flexible conductor. In this document, the term hose also may refer to a hose assembly with related accessories used in fluid power applications.

3.3 Hose Fitting or Fitting - Connector which can be attached to the end of the hose.

3.4 Hose Assembly - Hose with hose fittings attached.

3.5 Hose Failure - Occurrence in which a hose stops meeting system requirements.

3.6 Hose Service Life - Length of time a hose meets system requirements without needing replacement.

4. Safety Considerations - Listed in 4.1 to 4.7 are some potential conditions and situations that may lead to personal injury and/or property damage. This list is not necessarily all inclusive. Consider reasonable and feasible means, including those described in this section, to reduce the risk of injuries or property damage.

4.1 Fluid Injections - Fine streams of escaping pressurized fluid can penetrate skin and enter a
SAE J1273 HYDRAULIC GUIDELINES

human body. These fluid injections may cause severe tissue damage and loss of limb. Consider various means to reduce the risk of fluid injections, particularly in areas normally occupied by operators. Consider careful routing, adjacent components, warnings, guards, shields and training programs. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Avoid contact with escaping fluids. Treat all leaks as though pressurized and hot enough to burn skin. Never use any part of your body to check for leaks. If a fluid-injection accident occurs, see a doctor immediately. DO NOT DELAY OR TREAT AS A SIMPLE CUT! Any fluid injected into the skin must be surgically removed within a few hours, or gangrene may result. Doctors unfamiliar with this type of injury should consult a knowledgeable medical source.

4.2 Whipping Hose - If a pressurized hose assembly blows apart, the fittings can be thrown off at high speed, and the loose hose can flail or whip with great force. This particularly true in compressible fluid systems. When the risk exists, consider guards and restraints to protect against injury.

4.3 Burns from Conveyed Fluids - Most fluid-power media may reach temperatures that can burn the human skin. If there is a risk of burns from escaping fluids, consider guards and shields to prevent injury to prevent injury, particularly in areas normally occupied by operators.

4.4 Fire and Explosions from Conveyed Fluids - Most fluid-power media, including fire-resistant hydraulic fluids, will burn under certain conditions. Fluids which escape from pressurized systems may form a mist or fine spray which can flash or explode upon contact with an ignition source. Consider selecting, guarding and routing hose to minimize the risk of combustion. (See section 5 and ISO 3457).

4.5 Fire and Explosions from Static-Electric Discharge - Fluid passing through hose can generate static electricity, resulting in static-electric discharge. This may create sparks that can ignite system fluids in the surrounding atmosphere. When this potential exists, select hose specifically designed to carry the static-electric charge to the ground.

4.6 Electrical Shock – Electrocution could occur if hose conducts electricity through a person. Most hoses are conductive. Many contain metal or have metal fittings. Even non-conductive hoses can be conduits for electricity if they carry conductive fluids. Be aware of routing or using hose near electrical sources. When this cannot be avoided, select appropriate hose. Non-conductive hoses should be considered. SAE J517 – 100R7 and 100R8, with orange covers marked “Non-conductive” are available for applications requiring non-conductive hose.

4.7 Mechanisms Controlled by Fluid Power – Mechanisms controlled by fluids in hoses can become hazardous when a hose fails. For example, when a hose bursts, objects supported by fluid pressure may fall, or vehicles or machines may lose their brakes or steering. If mechanisms are controlled by fluid power, consider safe modes of failure that minimize risks of injury or damage.

5.0 Hose Selection and Routing – A wide variety of interacting factors influence hose service life and the ability of each fluid-power system to operate satisfactorily, and the combined effects of these factors on service life are often unpredictable. Therefore, these documents should not be construed as design standards. For applications outside the specification in SAE J517, SAE J514 or other relevant design standards, performance of hose assemblies should be determined by appropriate testing. Carefully analyze each system. Then design routings and select hose and related components to meet the system-performance and hose-service-life requirements, and to minimize the risks of personal injury and/or property damage.
GUIDELINES

SAE J1273 HYDRAULIC GUIDELINES

Consider the following factors:

5.1 – System Pressures – Excessive pressure can accelerate hose assembly failure. Analyze the steady-state pressure, and the frequency and amplitude of pressure surges, such as pulses and spikes. These are rapid and transient rises in pressure which may not be indicated on many common pressure gauges and can be identified best on high-frequency-response electronic measuring instruments. For maximum hose service life, hose selection should be based on system pressure. Hose may be used above its maximum working pressure where reduced life expectancy is acceptable. SAE J1927 provides one method to help predict wore-reinforced hose service life for a given hydraulic application, where the surge pressure peaks vary, and/or the highest pressure peaks occur infrequently.

5.2 – Suction – For suction applications, such as inlet flow to pumps, select hose to withstand both the negative and positive pressures the system imposes on the hose.

5.3 - External Pressure – In certain applications, such as in autoclaves or under water, the external environment pressures may exceed the fluid pressure inside the hose. In these applications, consider the external pressures, and, if necessary, consult the manufacturers.

5.4 – Temperature – Exceeding hose temperature ratings may significantly reduce hose life. Select hose so the fluid and ambient temperatures, both static and transient, fall within the hose ratings. The effects of external heat sources should not raise the temperature of the hose above its operating maximum temperature. Select hose, heat shields, sleeving and other methods for these requirements, and route or shield hose to avoid hose damage from external heat sources.

5.5 – Permeation – Permeation, or effusion, is seepage of fluid through the hose. Certain materials in hose construction are more permeable than others. Consider the effects of permeation when selecting hose, especially with gaseous fluid. Consult the hose and fluid manufacturers for permeability information.

5.6 – Hose-Material Compatibility – Variables that can affect compatibility of system fluids with hose materials include, but are not limited to: a) Fluid Pressure, b) Temperature, c) Concentration and d) Duration of Exposure. Because of permeation (see 5.5), consider compatibility of system fluids with the hose, tube, cover, reinforcement and fittings. Consult the fluid and hose manufacturers for compatibility information. NOTE – Many fluid/elastomer compatibility tables in manufacturer’s catalogs show ratings based at room temperature (69.8°F / 21°C). These ratings may change at other temperatures. Carefully read the notes on the compatibility tables, and if in doubt, consult the manufacturer.

5.7 – Environment – Environmental conditions can cause hose and fitting degradation. Conditions to evaluate include, but are not limited to: a) Ultraviolet Light, b) Salt Water, c) Air Pollutants, d) Temperature (see 5.4), e) Ozone, f) Chemicals, g) Electricity and h) Abrasion. If necessary, consult the manufacturer for more information.

5.8 – Static-Electric Discharge – Fluid passing through the hose can generate static electricity resulting in static-electric discharge. This may create sparks that can puncture hose. If this potential exists, select hose with sufficient conductivity to carry the static-electric charge to the ground.

5.9 – Sizing – The power transmitted by pressurized fluid varies with pressure and rate of flow. Select hose with adequate size to minimize pressure loss, and to avoid hose damage from heat generation or excessive velocity. Conduct calculations, or consult the manufacturer for sizing at flow velocities.
SAE J1273 HYDRAULIC GUIDELINES

5.10 – Unintended Uses – Hose assemblies are designed for the internal forces of conducted fluids. Do not pull hose or use it for purposes that may apply external forces for which the hose or fittings were not designed.

5.11 – Specifications and Standards – When selecting hose and fittings for specific applications, refer to applicable government, industry and manufacturer’s specifications and standards.

5.12 – Unusual Applications – Applications not addressed by the manufacturer or by industry standards, may require special testing prior to selecting a hose.

5.13 – Hose Cleanliness – The cleanliness requirements of system components, other than hose, will determine the cleanliness requirements of the application. Consult the components manufacturer’s cleanliness information for all components in the system. Hose assemblies vary in cleanliness levels; therefore, specify hose assemblies with adequate cleanliness for the system.

5.14 – Hose Fittings – Selection of the proper hose fittings for the hose and application is essential for proper operation and safe use of hose and related assembly equipment. Hose fittings are qualified with the hose. Therefore, select only hose fittings compatible with the hose for the applications. Improper selection of hose fittings or related assembly equipment for the application can result in injury or damage from leaks, or from hose assemblies blowing apart. (See 4.2, 6.2, 6.3 and 6.4).

5.15 – Vibration – Vibration can reduce hose service life. If required, conduct tests to evaluate the frequency and amplitude of system vibration. Clamps or other means may be used to reduce the effects of vibration. Consider the vibration requirements when selecting hose and predicting service life.

5.16 – Hose Cover Protection – Protect the hose cover from abrasion, erosion, snagging and cutting. Special abrasion-resistant hoses and hose guards are available for additional protection. Route hose to reduce abrasion from hose rubbing other hose or objects that may abrade it. (See Figure 1).

5.17 – Physical Abuse – Route hose to avoid: a) Tensile Loads, b) Side Loads, c) Flattening, d) Thread Damage, e) Kinking, f) Damage to Sealing Surfaces, g) Abrasion and h) Twisting.

5.18 – Swivel-Type Adapters – Swivel-type fittings or adapters do not transfer torque to hose while being tightened. Use these as needed to prevent twisting during installation.

5.19 – Live Swivels – If two components in the system are rotating in relation to each other, live swivels may be necessary. These connectors reduce the torque transmitted to the hose.

5.20 – Slings and Clamps – Use slings and clamps to support heavy or long hose and to keep it away from moving parts. Use clamps that prevent hose movement that will cause abrasion.

5.21 – Minimum Bend Radius – The minimum bend radius is defined in SAE J343 and is specified in other SAE standards and hose manufacturer’s product literature. Routing at less than minimum bend radius may reduce hose life. Sharp bending at the hose/fitting juncture may result in leaking, hose rupturing or in the hose assembly blowing apart. (See 4.2 and Figures 2A and 2B).
5.22 - Elbows and Adapters - In special cases, use elbows or adapters to relieve hose strain. (See Figure 3).

5.23 - Lengths - Unnecessarily long hose can increase pressure drop and affect system performance. When pressurized, hose that is too short may pull loose from its fittings, or stress the fitting connections, causing premature metallic or seal failures. When establishing hose length, refer to Figures 4, 5 and 6. Use the following practices:

5.23.1 - Motion Absorption - Provide adequate hose length to distribute movement and prevent bends smaller than the minimum bend radius.

5.23.2 - Hose and Machine Tolerances - Design hose to allow for changes in length due to machine motion and tolerances.

5.23.3 - Hose Length Change Due to Pressure - Design hose to accommodate length changes from changing pressures. DO NOT cross or clamp together high and low pressure hoses. The difference in length changes could wear the hose covers.
SAE J1273 HYDRAULIC GUIDELINES

5.24 – Hose Movement and Bending – Hose allows relative motion between system components. Analyze this motion when designing hose systems. The number of cycles may significantly affect hose life. Also avoid multiple planes of motion and twisting motion. Consider the motion of the hose when selecting hose and predictable service life. In applications that require hose to move or bend, refer to Figures 7A, 7B and 8, and use these practices:

5.24.1 – Bend in Only One Plane to Avoid Twisting.

5.24.2 – Prevent Hose Bending in More Than One Plane – if the hose follows a compound bend, couple it into separate segments that flex only in one place.

6. Hose-Assembly Fabrication – Persons fabricating hose assemblies should be trained in the proper use of equipment and materials. The manufacturers’ instructions and the practices listed as follows must be followed. Properly assembled fittings are vital to the integrity of a hose assembly. Improperly assembled fittings can separate from the hose and may cause serious injury or property damage from whipping hose, or from fire or explosion of vapor expelled from the hose.

6.1 – Component Inspection – Prior to assembly, examine components for:

- a) Style or type
- b) Cleanliness
- c) Loose covers
- d) Nicks
- e) Inside obstructions
- f) Size
- g) Visible defects
- h) Damage
- i) Length
- j) Blisters
- k) Burrs

6.2 – Hose Fittings – Hose fitting components from one manufacturer are not usually compatible with fitting components supplied by another manufacturer. For example, do not use a hose fitting nipple from one manufacturer with a hose socket from another manufacturer. It is the responsibility of the fabricator to consult the manufacturer’s written instructions or the manufacturer directly for information on proper fitting components.

6.3 – Hose and Fitting Compatibility – Care must be taken to determine proper compatibility between the hose and the fitting. Base selection on the manufacturer’s recommendations substantiated by testing to industry standards, such as SAE J517. Hose from one manufacturer is not usually compatible with fittings from another. Do not intermix hose and fittings from two manufacturers without approval from both manufacturers.

6.4 – Hose Assembly Equipment – Assembly equipment from one manufacturer is usually not interchangeable with that from another manufacturer. Hose and fittings from one manufacturer should not generally be assembled with the equipment of another manufacturer.

6.5 – Safety Equipment – During fabrication, use proper safety equipment, including eye protection, breathing apparatus and adequate ventilation.
6.6 – Reuse of Hose and Fittings – When fabricating hose assemblies, do not reuse:
   a. Field-attachable (reusable) fittings that have blown or pulled off the hose.
   b. Any part of hose fittings that were permanently crimped or swaged to hose.
   c. Hose that has been in service after system checkout (see 7.7)

6.7 – Cleanliness of Hose Assemblies – Hose assemblies may be contaminated during fabrication. Clean hoses to specified cleanliness levels (see 5.13).

7. Hose Installation and Replacement – Use the following practices when installing hose assemblies in new systems or replacing hose assemblies in existing systems:
   7.1 – Pre-Installation Inspection – Before installing hose assemblies, examine:
      a. Hose length and routing for compliance with original design.
      b. Assemblies for correct style, size, length and visible non-conformities.
      c. Fitting sealing surfaces for burrs, nicks or other damage.

   NOTE: When replacing hose assemblies in existing systems, verify that the replacement is of equal quality to the original assembly.

   7.2 – Handling During Installation – Handle hose with care during installation. Kinking hose, or bending at less than minimum bend radius may reduce hose life. Avoid sharp bending at the hose/fitting juncture. (See 5.21).

   7.3 – Twist Angle and Orientation – Pressure applied to a twisted hose may shorten the life of the hose or loosen the connections. To avoid twisting, use the lay line or marking as a reference (see Figure 9).

   7.4 – Securement and Protection – Install necessary restraints and protective devices. Determine that such devices do not create additional stress or wear points.

   7.5 – Routing – Review proper routing practices provided in Section 5 and make appropriate corrections to obtain optimum performance.

   7.6 – Assembly Torque – The connection end of a hose fitting is normally threaded to obtain tight pressure seal when attached to a port, an adapter or another fitting. Sometimes bolts or screws provide the threaded connection. Each size and type of connection requires different torque values, and these may vary due to type of material or exterior coating. Follow appropriate torquing instructions to obtain a proper pressure seal without overtorking. A properly calibrated torque wrench should be used to tighten each connection, except when the manufacturer specifies tightening a specified number of hex flat turns beyond finger tight to obtain a seal.

   7.7 – System Checkouts – In hydraulic or other liquid systems, eliminate all air entrapment after completing the installation. Follow manufacturers’ instructions to test the system for possible malfunctions and leaks.

   7.7.1 – To avoid injury during system checkouts:
      a. Do not touch any part of the system when checking for leaks (see 4.1).
      b. Stay out of potentially hazardous areas while testing hose systems (see Section 4).
      c. Relieve system pressure before tightening connections.
8. Maintenance Inspection – A hose and fitting maintenance program may reduce equipment downtime, maintain peak operating performance, and reduce the risk of personal injury and/or property damage. The user should design and implement a maintenance program that suits a specific application and each specific hose in that application.

8.1 – Inspection Frequency – Evaluate factors such as the nature and severity of the application, past history and manufacturers’ information to establish the frequency of visual inspections and functional tests.

8.2 – Visual Inspection (Hose & Fittings) – Visually inspect hose and fittings for:
- Leaks at the hose fitting or in the hose
- Damaged, cut or abraded cover
- Exposed reinforcement
- Kinked, crushed, flattened or twisted hose
- Hard, stiff, heat cracked or charred hose
- Blistered, soft, degraded or loose cover
- Cracked, damaged or badly corroded fittings
- Fitting slippage on hose
- Other signs of significant deterioration

If any of these conditions exist, evaluate those hose assemblies for correction or replacement.

8.3 – Visual Inspection (All Other Components) – When visually inspecting hose and fittings, inspect for related items including:
- Leaking ports
- Damaged or missing hose clamps, guards or shields
- Excessive dirt and debris around hose.
- System fluid: level, type, contamination, condition and air entrainment.

If any of these are found, address them appropriately.

8.4 – Functional Test –Functional tests determine if systems with hose are leak free and operating properly. Carry out functional tests per information from equipment manufacturers.

9. Hose Storage – Age control and the manner of storage can affect hose life. Use the following practices when storing hose.

9.1 – Age Control – Maintain a system of age control to determine that hose is used before its shelf life has expired. Shelf life is the period of time when it is reasonable to expect the hose to retain full capabilities for rendering the intended service. Store in a manner that facilitates age control and first-in, first-out usage based on manufacturing date on the hose or hose assembly. Per SAE J517:
- Shelf life of rubber hose in bulk form, or in hose assemblies passing visual inspection and proof test, is forty quarters (ten years) from the date of manufacture.
- Shelf life of thermoplastic and PTFE hose is considered to be unlimited.

9.2 – Storage – Store hose and hose assemblies in a cool, dark, dry area with ends capped. When storing hose, take care to avoid damage that could reduce hose life, and follow the manufacturers’ information for storage and shelf life. Examples of factors that can adversely affect hose products in storage are:
- Temperature
- Ozone
- Oils
- Corrosive liquids and fumes
- Rodents
- Humidity
- Ultraviolet light
- Solvents
- Insects
- Radioactive materials

If there are any questions regarding the quality or usability of hose or hose assemblies, evaluate appropriately:
- Flex the hose to the minimum bend radius and compare it with new hose. After flexing, examine the cover and tube for cracks. If any appear, no matter how small, reject the hose.
- If the hose is wire reinforced, and the hose is unusually stiff, or a cracking sound is heard during flexing, check for rust by cutting away a section of the cover from a sample. Rust would be another reason for rejection.
- If doubt still persists, contact hose assembler to conduct proof-pressure tests or any other tests needed to verify hose quality.

Prepared by the SAE Fluid Conductors and Connectors Technical Committee SC3-Training and Education Committee
**SAE J514, 37° Flare**

This connection is widely used in many hydraulic systems. It is commonly referred to as a JIC 37° Flare. When the straight threads are engaged, the 37° male seats on the 37° female flare seat.

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### SAE J514 37° JIC Flare Thread Size and Maximum Working Pressure

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
<th>Threads, Unions &amp; Bulkheads</th>
<th>Threads and Female Swivels</th>
</tr>
</thead>
<tbody>
<tr>
<td>-02</td>
<td>0.125 inch 3.18 mm</td>
<td>5/16-24</td>
<td>0.31 inch 7.9 mm</td>
<td>0.27 inch 6.9 mm</td>
<td>5000 PSI 344.8 BAR</td>
<td>5000 PSI 344.8 BAR</td>
</tr>
<tr>
<td>-03</td>
<td>0.188 inch 4.76 mm</td>
<td>3/8-24</td>
<td>0.38 inch 9.6 mm</td>
<td>0.34 inch 8.6 mm</td>
<td>5000 PSI 344.8 BAR</td>
<td>5000 PSI 344.8 BAR</td>
</tr>
<tr>
<td>-04</td>
<td>0.250 inch 6.35 mm</td>
<td>7/16-20</td>
<td>0.44 inch 11.2 mm</td>
<td>0.39 inch 9.9 mm</td>
<td>5000 PSI 344.8 BAR</td>
<td>4500 PSI 310.3 BAR</td>
</tr>
<tr>
<td>-05</td>
<td>0.313 inch 7.94 mm</td>
<td>1/2-20</td>
<td>0.50 inch 12.7 mm</td>
<td>0.45 inch 11.4 mm</td>
<td>5000 PSI 344.8 BAR</td>
<td>4000 PSI 275.8 BAR</td>
</tr>
<tr>
<td>-06</td>
<td>0.375 inch 9.52 mm</td>
<td>9/16-18</td>
<td>0.56 inch 14.2 mm</td>
<td>0.51 inch 12.9 mm</td>
<td>5000 PSI 344.8 BAR</td>
<td>4000 PSI 275.8 BAR</td>
</tr>
<tr>
<td>-08</td>
<td>0.500 inch 12.70 mm</td>
<td>3/4-16</td>
<td>0.75 inch 19.0 mm</td>
<td>0.67 inch 17.0 mm</td>
<td>4500 PSI 310.3 BAR</td>
<td>4000 PSI 275.8 BAR</td>
</tr>
<tr>
<td>-10</td>
<td>0.625 inch 15.88 mm</td>
<td>7/8-14</td>
<td>0.88 inch 22.3 mm</td>
<td>0.80 inch 20.3 mm</td>
<td>3500 PSI 241.3 BAR</td>
<td>3000 PSI 206.9 BAR</td>
</tr>
<tr>
<td>-12</td>
<td>0.750 inch 19.05 mm</td>
<td>1-1/16-12</td>
<td>1.06 inch 26.9 mm</td>
<td>0.98 inch 24.9 mm</td>
<td>3500 PSI 241.3 BAR</td>
<td>3000 PSI 206.9 BAR</td>
</tr>
<tr>
<td>-14</td>
<td>0.875 inch 22.22 mm</td>
<td>1-3/16-12</td>
<td>1.18 inch 30.0 mm</td>
<td>1.09 inch 27.7 mm</td>
<td>3000 PSI 206.9 BAR</td>
<td>2500 PSI 172.4 BAR</td>
</tr>
<tr>
<td>-16</td>
<td>1.000 inch 25.40 mm</td>
<td>1-5/16-12</td>
<td>1.31 inch 33.3 mm</td>
<td>1.22 inch 31.0 mm</td>
<td>3000 PSI 206.9 BAR</td>
<td>2500 PSI 172.4 BAR</td>
</tr>
<tr>
<td>-20</td>
<td>1.250 inch 31.75 mm</td>
<td>1-5/8-12</td>
<td>1.63 inch 41.4 mm</td>
<td>1.54 inch 39.1 mm</td>
<td>2500 PSI 172.4 BAR</td>
<td>2000 PSI 137.9 BAR</td>
</tr>
<tr>
<td>-24</td>
<td>1.500 inch 38.10 mm</td>
<td>1-7/8-12</td>
<td>1.88 inch 47.7 mm</td>
<td>1.79 inch 45.5 mm</td>
<td>2000 PSI 137.9 BAR</td>
<td>1500 PSI 103.4 BAR</td>
</tr>
<tr>
<td>-32</td>
<td>2.000 inch 50.80 mm</td>
<td>2-1/2-12</td>
<td>2.50 inch 63.5 mm</td>
<td>2.41 inch 61.2 mm</td>
<td>1500 PSI 103.4 BAR</td>
<td>1125 PSI 77.6 BAR</td>
</tr>
</tbody>
</table>
SAE J514 Straight Thread O-Ring Boss

The Straight thread connection uses the same threads as the JIC 37° flare. Instead, the 37° flare has been removed and an o-ring added. When mated to a female o-ring boss port, the o-ring is trapped in a special tapered countbore to effect the seal.

**SAE J514 O-Ring Boss Thread Size and Maximum Working Pressure**

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
<th>Threads, Unions &amp; Bulkheads</th>
<th>Threads and Female Swivels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>-02</td>
<td>0.125</td>
<td>3.18</td>
<td>5/16-24</td>
<td>0.31</td>
<td>7.9</td>
<td>0.27</td>
</tr>
<tr>
<td>-03</td>
<td>0.188</td>
<td>4.76</td>
<td>3/8-24</td>
<td>0.38</td>
<td>9.6</td>
<td>0.34</td>
</tr>
<tr>
<td>-04</td>
<td>0.250</td>
<td>6.35</td>
<td>7/16-20</td>
<td>0.44</td>
<td>11.2</td>
<td>0.39</td>
</tr>
<tr>
<td>-05</td>
<td>0.313</td>
<td>7.94</td>
<td>1/2-20</td>
<td>0.50</td>
<td>12.7</td>
<td>0.45</td>
</tr>
<tr>
<td>-06</td>
<td>0.375</td>
<td>9.52</td>
<td>9/16-18</td>
<td>0.56</td>
<td>14.2</td>
<td>0.51</td>
</tr>
<tr>
<td>-08</td>
<td>0.500</td>
<td>12.70</td>
<td>3/4-16</td>
<td>0.75</td>
<td>19.0</td>
<td>0.67</td>
</tr>
<tr>
<td>-10</td>
<td>0.625</td>
<td>15.88</td>
<td>7/8-14</td>
<td>0.88</td>
<td>22.3</td>
<td>0.80</td>
</tr>
<tr>
<td>-12</td>
<td>0.750</td>
<td>19.05</td>
<td>1-1/16-12</td>
<td>1.06</td>
<td>26.9</td>
<td>0.98</td>
</tr>
<tr>
<td>-14</td>
<td>0.875</td>
<td>22.22</td>
<td>1-3/16-12</td>
<td>1.18</td>
<td>30.0</td>
<td>1.09</td>
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<tr>
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<td>1.000</td>
<td>25.40</td>
<td>1-5/16-12</td>
<td>1.31</td>
<td>33.3</td>
<td>1.22</td>
</tr>
<tr>
<td>-20</td>
<td>1.250</td>
<td>31.75</td>
<td>1-5/8-12</td>
<td>1.63</td>
<td>41.4</td>
<td>1.54</td>
</tr>
<tr>
<td>-24</td>
<td>1.500</td>
<td>38.10</td>
<td>1-7/8-12</td>
<td>1.88</td>
<td>47.7</td>
<td>1.79</td>
</tr>
<tr>
<td>-32</td>
<td>2.000</td>
<td>50.80</td>
<td>2-1/2-12</td>
<td>2.50</td>
<td>63.5</td>
<td>2.41</td>
</tr>
</tbody>
</table>
SAE J1453 O-Ring Face Seal

This connection can handle up to 6,000 PSI and is designed to be leak-free. The O-Ring in the face of the straight thread male end seals against the flat face female seat and is mechanically held in place by a swivel female nut.

SAE J1453 O-Ring Face Seal Thread Size and Maximum Working Pressure

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
<th>Threads, Unions &amp; Bulkheads</th>
<th>Threads and Female Swivels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>-04</td>
<td>0.250</td>
<td>6.35</td>
<td>9/16-20</td>
<td>0.56</td>
<td>14.2</td>
<td>0.51</td>
</tr>
<tr>
<td>-06</td>
<td>0.375</td>
<td>9.52</td>
<td>11/16-16</td>
<td>0.68</td>
<td>17.3</td>
<td>0.63</td>
</tr>
<tr>
<td>-08</td>
<td>0.500</td>
<td>12.70</td>
<td>13/16-16</td>
<td>0.81</td>
<td>20.6</td>
<td>0.75</td>
</tr>
<tr>
<td>-10</td>
<td>0.625</td>
<td>15.88</td>
<td>1-14</td>
<td>1.00</td>
<td>25.4</td>
<td>0.93</td>
</tr>
<tr>
<td>-12</td>
<td>0.750</td>
<td>19.05</td>
<td>1-3/16-12</td>
<td>1.18</td>
<td>30.0</td>
<td>1.10</td>
</tr>
<tr>
<td>-16</td>
<td>1.000</td>
<td>25.40</td>
<td>1-7/16-12</td>
<td>1.44</td>
<td>36.6</td>
<td>1.36</td>
</tr>
<tr>
<td>-20</td>
<td>1.250</td>
<td>31.75</td>
<td>1-11/16-12</td>
<td>1.68</td>
<td>42.7</td>
<td>1.60</td>
</tr>
<tr>
<td>-24</td>
<td>1.500</td>
<td>38.10</td>
<td>2-12</td>
<td>2.00</td>
<td>50.8</td>
<td>1.92</td>
</tr>
</tbody>
</table>
SAE J512, 45° Flare

The SAE 45° flare connectors seat in the same manner and are similar to the 37° connectors except for the flare angle. The 45° connectors are commonly found in automotive applications, on brass adapters, and are generally used at lower pressures than the 37° flare fittings. Many sizes have threads identical to those on JIC 37° connectors. Check the threads and flares carefully to make positive identification.

SAE J514 O-Ring Boss Thread Size and Maximum Working Pressure

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
<th>Threads, Unions &amp; Bulkheads</th>
<th>Threads and Female Swivels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>-02</td>
<td>0.125</td>
<td>3.18</td>
<td>5/16-24</td>
<td>0.31</td>
<td>7.9</td>
<td>0.27</td>
</tr>
<tr>
<td>-03</td>
<td>0.188</td>
<td>4.76</td>
<td>3/8-24</td>
<td>0.38</td>
<td>9.6</td>
<td>0.34</td>
</tr>
<tr>
<td>-04</td>
<td>0.250</td>
<td>6.35</td>
<td>7/16-20</td>
<td>0.44</td>
<td>11.2</td>
<td>0.39</td>
</tr>
<tr>
<td>-05</td>
<td>0.313</td>
<td>7.94</td>
<td>1/2-20</td>
<td>0.50</td>
<td>12.7</td>
<td>0.45</td>
</tr>
<tr>
<td>-06</td>
<td>0.375</td>
<td>9.52</td>
<td>5/8-18</td>
<td>0.62</td>
<td>15.7</td>
<td>0.56</td>
</tr>
<tr>
<td>-08</td>
<td>0.500</td>
<td>12.70</td>
<td>3/4-16</td>
<td>0.75</td>
<td>19.0</td>
<td>0.68</td>
</tr>
<tr>
<td>-10</td>
<td>0.625</td>
<td>15.88</td>
<td>7/8-14</td>
<td>0.88</td>
<td>22.3</td>
<td>0.80</td>
</tr>
<tr>
<td>-12</td>
<td>0.750</td>
<td>19.05</td>
<td>1-1/16-14</td>
<td>1.06</td>
<td>26.9</td>
<td>0.99</td>
</tr>
<tr>
<td>-14</td>
<td>0.875</td>
<td>22.22</td>
<td>1-1/4-12</td>
<td>1.25</td>
<td>31.7</td>
<td>1.16</td>
</tr>
<tr>
<td>-16</td>
<td>1.000</td>
<td>25.40</td>
<td>1-3/8-12</td>
<td>1.38</td>
<td>35.0</td>
<td>1.28</td>
</tr>
</tbody>
</table>
American Dryseal Pipe Threads (NPTF & NPSM)

One of the most commonly used connections, this coupling incorporates 2 methods of sealing. The male NPTF (Dryseal) tapered thread will mate with the NPTF tapered female, which is usually a port. They seal when the special threads are crushed together. Male PTF (short Dryseal) are identical to male NPTF threads except that the thread length has been shortened by one full thread from the small end of the taper. Additional sealing aids such as thread sealant and PTFE tape are often used with these threads. If the male has a 30° seat, it will mate with a 30° cone seat in the NPSM straight thread swivel female, usually found on adapters. It is mechanically held together by the threads. NPTF and NPSM threads are not interchangeable with British pipe threads.

American Dryseal Pipe Threads Seal Thread Size and Maximum Working Pressure

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
<th>Couplings With Pipe Threads</th>
</tr>
</thead>
<tbody>
<tr>
<td>inch/mm</td>
<td>inch/mm</td>
<td>PSI/Bar</td>
<td>inch/mm</td>
<td>inch/mm</td>
<td></td>
</tr>
<tr>
<td>-02</td>
<td>0.125/3.18</td>
<td>0.41/10.3</td>
<td>0.37/9.4</td>
<td>5000/344.8</td>
<td></td>
</tr>
<tr>
<td>-04</td>
<td>0.250/6.35</td>
<td>0.54/13.7</td>
<td>0.49/12.4</td>
<td>4000/275.8</td>
<td></td>
</tr>
<tr>
<td>-06</td>
<td>0.375/9.52</td>
<td>0.68/17.3</td>
<td>0.62/15.7</td>
<td>3000/206.9</td>
<td></td>
</tr>
<tr>
<td>-08</td>
<td>0.500/12.70</td>
<td>0.84/21.3</td>
<td>0.76/19.3</td>
<td>3000/206.9</td>
<td></td>
</tr>
<tr>
<td>-12</td>
<td>0.750/19.05</td>
<td>1.06/26.9</td>
<td>0.98/24.9</td>
<td>2500/172.4</td>
<td></td>
</tr>
<tr>
<td>-16</td>
<td>1.000/25.40</td>
<td>1.31/33.3</td>
<td>1.24/31.5</td>
<td>2000/137.9</td>
<td></td>
</tr>
<tr>
<td>-20</td>
<td>1.250/31.75</td>
<td>1.66/42.2</td>
<td>1.58/40.1</td>
<td>1150/79.3</td>
<td></td>
</tr>
<tr>
<td>-24</td>
<td>1.500/38.10</td>
<td>1.90/48.3</td>
<td>1.82/46.2</td>
<td>1000/69.0</td>
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</tr>
<tr>
<td>-32</td>
<td>2.000/50.80</td>
<td>2.38/60.4</td>
<td>2.28/57.9</td>
<td>1000/69.0</td>
<td></td>
</tr>
</tbody>
</table>
British Standard Pipe - BSP

The British BSP connections include two types of threads, BSPP, which are straight (or parallel) and BSPT, which are tapered. The BSPT tapered male will mate with a BSPT tapered female (usually a port) and seals on the threads. The BSPP parallel male has a 30° chamfered seat which seals with a BSPP swivel female on its 30° cone seat. This is similar to the American NPSM-NPTF connection. However, the BSPP swivel female end is commonly found on couplings. The BSP threads are similar to, but not interchangeable with the American NPTF pipe threads.

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter inch</th>
<th>Thread Size</th>
<th>Male Thread Outside Diameter inch</th>
<th>Female Thread Outside Diameter inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-02</td>
<td>0.125</td>
<td>1/8-28</td>
<td>0.41</td>
<td>0.37</td>
</tr>
<tr>
<td>-04</td>
<td>0.250</td>
<td>1/4-19</td>
<td>0.54</td>
<td>0.49</td>
</tr>
<tr>
<td>-06</td>
<td>0.375</td>
<td>3/8-19</td>
<td>0.68</td>
<td>0.62</td>
</tr>
<tr>
<td>-08</td>
<td>0.500</td>
<td>1/2-14</td>
<td>0.84</td>
<td>0.76</td>
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<tr>
<td>-10</td>
<td>0.625</td>
<td>5/8-14</td>
<td>0.90</td>
<td>0.83</td>
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<tr>
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<td>3/4-14</td>
<td>1.06</td>
<td>0.98</td>
</tr>
<tr>
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<td>1.000</td>
<td>1-11</td>
<td>1.31</td>
<td>1.24</td>
</tr>
<tr>
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<td>1.250</td>
<td>1-1/4-11</td>
<td>1.66</td>
<td>1.58</td>
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<tr>
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<td>1-1/2-11</td>
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<td>1.82</td>
</tr>
<tr>
<td>-32</td>
<td>2.000</td>
<td>2-11</td>
<td>2.38</td>
<td>2.28</td>
</tr>
</tbody>
</table>
**JIS 30° Flare with Parallel Pipe Threads**

With the exception of the 30° seat, this connector is similar to the American JIC 37° flare. The straight parallel pipe threads are the same as BSPP.

![JIS 30° Flare Diagram](image)

### JIS 30° Flare with Parallel Pipe Threads Size

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>JIS/BSPP Thread Size</th>
<th>Male Thread Outside Diameter</th>
<th>Female Thread Outside Diameter</th>
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<td>50.80</td>
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</table>
JIS Tapered Pipe Thread

The JIS tapered pipe thread is identical and interchangeable with the British BSPT tapered pipe thread. However, the male end does not have a 60° chamfer and will only seal when the threads are crushed together in an appropriate JIS or BSP port.

### JIS Tapered Pipe Threads Size

<table>
<thead>
<tr>
<th>SAE Dash Size</th>
<th>Tube Outside Diameter</th>
<th>JIS/BSPP Thread Size</th>
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<th>Female Thread Outside Diameter</th>
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<td>1/4-19</td>
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<td>3/8-19</td>
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<td>5/8-14</td>
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<td>0.750</td>
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<td>2.000</td>
<td>50.80</td>
<td>2-11</td>
<td>2.37</td>
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</table>
**DIN 24° Cone**

The DIN 24° Cone male will mate with any of the females shown. The male has a 24° seat, straight, metric threads. It has a recessed counterbore which matches the tube O.D. of the coupling used with it. The mating female is a 24° cone with an O-Ring, a metric tube fitting or an universal 24°/60° cone. There is a light (L) and heavy (S) series DIN coupling. Proper identification is made by measuring both the thread size and the tube O.D. The heavy series has a smaller tube O.D. but a thicker wall section than the light. When measuring the flare angle with the seat angle gauge, use the 12° gauge. The seat angle gauge measures the angle from the connector centerline.

**DIN 24° Cone Threads Size**

<table>
<thead>
<tr>
<th>Metric Thread Size</th>
<th>Female Thread Inside Diameter</th>
<th>Male Thread Inside Diameter</th>
<th>Tube Outside Diameter</th>
<th>Torque Recommendations Foot Pounds</th>
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<td>mm mm</td>
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<td>15 14</td>
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<tr>
<td>M52-2.0</td>
<td>50.0 52.0</td>
<td>42 38</td>
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</table>
**DIN 60° Cone**

The Din 60° cone male will mate with the female universal 24° or 60° cone connector only. The male has a 60° seat and straight metric threads. The female has a 24° and 60° universal seat and straight metric threads. When measuring the flare angle with the seat angle gauge, use the 30° gauge. The seat angle gauge measures the angle from connector centerline.

### DIN 60° Cone Threads Size

<table>
<thead>
<tr>
<th>Metric Thread Size</th>
<th>Female Thread Inside Diameter</th>
<th>Male Thread Inside Diameter</th>
<th>Tube Outside Diameter</th>
<th>Torque Recommendations Foot Pounds</th>
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<tr>
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<td>M26-1.5</td>
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<td>M30-2.0</td>
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<td>50.0</td>
<td>52.0</td>
<td>42</td>
<td>38</td>
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</tbody>
</table>
**S.T.A.M.P.E.D. PROCESS**

We encourage using the STAMPED process to assist in determining the correct hose, coupling, and attachment method. It is critical in order to realize a safe hydraulic system.

**S.T.A.M.P.E.D.** is an acronym. It stands for the 7 major information areas required to provide a quality hose assembly for the customer, as follows:

**S** stands for **Size**: I.D. and length; any O.D. constraints
- Overall length should be specified to include fittings
  - **Inside Diameter** - the I.D. of the hose must be adequate to keep pressure loss to a minimum and avoid damage to the hose due to heat generation or excessive turbulence.
  - **Flow Rate/Fluid Velocity** - The flow rate of the system in conjunction with the inside diameter of the hose will dictate the fluid velocity through the hose. Typical fluid velocities can be seen in the nomographic chart on page 30. Please note that suction line recommendations are different than pressure lines.

**T** stands for **Temperature**: Temperature of both the fluid conveyed and the environmental conditions.
Two areas of temperature must be considered: fluid temperature and ambient temperature. The hose selected must be capable of withstanding the minimum and maximum temperature seen by the system. Care must be taken when routing near hot manifolds, and in extreme cases, a heat shield may be advisable.

- **Maximum Intermittent Ambient Temperature**: Hose constructions which use a rubber inner tube and/or cover, can have significant change in properties when exposed to extreme heat or cold. This may require some hoses to be rated to a lower operating pressure when exposed to such conditions.
- **Fluid Temperature**: The fluid temperature is the temperature of the fluid being conveyed inside the hose during operation.
- **Ambient Temperature**: The ambient temperature is the temperature of the environment to which the hose assembly is exposed.
- **Maximum Temperature**: The maximum temperature is the highest temperature to which the fluid or the environment may reach. The temperature is typically short in duration and occurs under extreme operating conditions. The hose selected for an application should be rated at or above the maximum ambient and maximum fluid temperature.
- **Minimum Temperature**: This is the lowest temperature to which the hose assembly will be exposed. For a hydraulic system, this is based on the minimum ambient temperature. A hose should be rated at or below the minimum ambient temperature to which the assembly may be exposed.
**S.T.A.M.P.E.D. PROCESS**

**A** stands for **Application**: The conditions under which the hose assembly will be used.

The type of application in which a hose assembly will be used is very important in determining what type of hose should be selected. The most common types of applications are listed below:

- **High Impulse**: Hydraulic system is subjected to frequent pressure spikes.
- **Low Impulse**: Hydraulic system is seldom subjected to pressure spikes.
- **Non-Flexing Applications**: Hose assemblies are not subjected to bending or flexing from articulation of the equipment.
- **Flexing Applications**: Hose assemblies are subjected to bending or flexing due to articulation or movement of the equipment.

Static discharge can become an issue when non-polar liquids or mixtures including non-polar liquids are convey in non-conductive hose. A static charge will build, and on discharge, perforate the hose tube. To avoid this, use conductive tube products when conveying non-polar, or mixtures of non-polar liquids.

Electrical conductivity of hydraulic hoses or conveyed fluids is an issue with equipment used to work around electrical lines. If hydraulic equipment is to be used around electrical lines, always use hydraulic hoses rated as non-conductive.

Be sure to select products that will meet any regulatory standards required in the application. Examples of these standards would include: SAE, USCG, EN/DIN, ABS, etc.

Never place hoses in a position where they will be pulled on. Hoses are designed to hold pressure and convey fluids, exposing them to axial loads will cause premature failure. Any special or unusual applications should always be approved by the hose manufacturer, otherwise, additional independent testing may be required.

The following questions may need to be answered, such as:

- Where will the hose be used?
- Fluid and/or ambient temperature?
- Hose construction?
- Equipment type?
- Fluid compatibility?
- Thread end connection type?
- Working and surge pressures?
- Environmental conditions?
- Permanent or field attachable (reusable) couplings?
- Suction applications?
- Routing requirements?
- Thread type?
- Government and industry standards being met?
- Unusual mechanical loads?
- Minimum bend radius?
- Non-conductive hose required?
- Excessive abrasion?
S.T.A.M.P.E.D. PROCESS

**M** stands for **Material**: Fluid being conveyed, type and concentration.

Some applications require specialized oils or chemicals to be conveyed through the system. Hose selections must assume compatibility of the inner hose tube and cover material. In addition to the hose materials, all other components, which make up the hose assembly (hose ends, o-rings, etc.) must also be compatible with the fluid being used. Permeation or effusion is the movement of a substance through the hose tube walls which may degrade the hose tube, cause cover blistering, or other undesired effects, and must be considered especially when conveying compressed gases.

Be sure to select a hose that is compatible and approved by the manufacturer for the fluid conveyed. Concentration, pressure, temperature and other factors may impact the compatibility of the hose and fluid. Depending on the fluid, the maximum temperature and pressure rating of the assembly, may be lowered. Additional caution must be exercised in hose selection for gaseous applications such as refrigerants and LP Gas.

**NOTE:** All block type couplings contain nitrile O-rings which must be compatible with the fluids being used.

**P** stands for **Pressure**: Pressure to which the assembly will be exposed. The most important step in the hose selection process is knowing the system pressure, including pressure spikes.

- **Maximum Operating Pressure**: This is the maximum pressure that the system should be exposed to in normal operating conditions. This pressure should be dictated by the relief setting of the system. Both the hose and hose end should not be rated to a pressure less than the maximum operating pressure of the system.

- **Pressure Spikes**: When a hydraulic system is subjected to a large load in a short period of time, the system pressure can overshoot the relief setting and exceed the maximum operating pressure. Frequent pressure spikes can reduce the life of hydraulic hose assemblies.

Hose assembly working pressures must be equal to or greater than the system pressure. Pressure spikes greater than the maximum working pressure will shorten hose life and must be taken into consideration.

Any time a hose assembly is to be exposed to external pressures, which may exceed the internal hose pressures, be sure to consult with the hose manufacturer for recommendations.

**E** stands for **ENDS**: Termination end style, type, orientation, attachment methods, etc. Always use manufacturer approved couplings for hose assemblies. Be sure to select the appropriate end termination for a system working pressure and other requirements, such as, vibration resistance.

**D** stands for **DELIVERY**: Testing, quality, cleanliness, packaging and delivery requirements. Define any special requirements needed. Always follow manufacturer recommendations for maximum fluid velocity within a hose. Excessive fluid velocity may cause pressure loss, heat generation, hose movement or whipping, system noise and hammer effects.
NOMOGRAPHIC CHART
Flow Capacity of Hose Assemblies at Recommended Flow Velocities

Based on Formula:  \[
\text{Area (Sq. in.)} = \frac{0.321 \times \text{(GPM)}}{\text{Velocity (Ft./Sec.)}}
\]

Example: To determine the I.D. needed to transport 20 Gallons Per Minute (GPM) fluid volume.

Draw a straight line from 20 GPM on the left to maximum recommended velocity for pressure lines. The line intersects with the middle vertical column indicating a 3/4” I.D. (-12) hose. This is the smallest hose that should be used.

Recommendations are for oils having a maximum viscosity of 315 S.S.U. at 100°F (37.8°C), operating at temperatures between 65°F (18.3°C) and 155°F (68.3°C).
DASH NUMBER MEASURING SYSTEM

<table>
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<tr>
<th>Dash Number</th>
<th>All Except SAE 100R5, SAE 100R14, SAE J51 &amp; SAE J2064</th>
<th>SAE 100R5, SAE J51, SAE 100R14 &amp; SAE J2064</th>
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</thead>
<tbody>
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<td>mm</td>
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</table>

HOW TO READ HOSE & COUPLING PART NUMBERS

Hydraulic Hose Part Number Example: 5120-16

5 12 0 -16

-16 = Inside diameter of hose in 16ths of an inch. In this example 16/16 = 1" diameter.
0 = cover type, In this example 0 = standard wrapped cover (1 = smooth cover, 2 = tough cover (Dreamshield))
12 = SAE Series. In this example 12 = 100R12
5 = hydraulic hose

Hydraulic Coupling - Descriptive Part Number Example: JB12MP-08-06

J B 12 MP -08 -06

-06 = hose size in 16ths of an inch. (in this example 6/16 = 3/8" inside diameter)
-08 = termination size (in 16ths of an inch - 8/16 = ½")
MP = termination style (male pipe)
12 = coupling to be used with 1 or 2 wire hose construction
B = "bite the wire" style coupling
J = Jason Industrial brand coupling
### SAE HOSE WORKING PRESSURES (psi)

**NOMINAL HOSE INSIDE DIAMETER IN INCHES & DASH SIZE**

<table>
<thead>
<tr>
<th>SAE Hose Spec</th>
<th>ISO Hose Spec</th>
<th>Description</th>
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*The SAE J517 100R9, 100R10 and 100R11 hoses are discontinued per SAE due to lack of demand.*

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## CHEMICAL RESISTANCE CHART

### HOSE TYPES

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### RATING KEY

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<td>G</td>
<td>Good, moderate change to physical properties</td>
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### Warning:
The following data has been compiled from generally available sources and should not be relied upon without consulting and following the manufacturers’ specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose and may result in possible damage to property and serious bodily injury.

<table>
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**CHEMICAL RESISTANCE CHART**

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**Warning:** The following data has been compiled from generally available sources and should not be relied upon without consulting and following the manufacturers' specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose and may result in possible damage to property and serious bodily injury.

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# HYDRAULIC HOSE - 1 & 2 WIRE BRAID

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HYDRAULIC HOSE

5010 SERIES

SAE 100R1AT, 1SN, DIN EN 853 - MSHA Cover
1-Wire Braid Hose, Wrapped Cover

APPLICATIONS: Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R1 and EN 853 1SN.

CONSTRUCTION:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
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<tr>
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<td>inch</td>
<td>mm</td>
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<td>PSI</td>
<td>BAR</td>
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APPLICATIONS:

-40°F (-40°C) to +212°F (+100°C)

COUPLINGS: 12/JB12 Series - see pages 61 thru 103

We disclaim any liability for use of our products in applications other than which they are designed.

WARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
SAE 100R1AT, 1SN, DIN EN 853 - MSHA Cover

1-Wire Braid Hose, Smooth Cover

APPLICATIONS: Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R1 and EN 853 1SN.

CONSTRUCTION:
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** One wire braid of high tensile steel with protective coating

TEMPERATURE RANGE: -40°F (-40°C) to +212°F (+100°C)

COUPLINGS: 12/JB12 Series - see pages 61 thru 103

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
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<td>inch  mm</td>
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</table>

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<h2>5012 SERIES</h2>

**SAE 100R1AT, 1SN, DIN EN853**

Dreamshield® Extra Abrasion-Resistant Wrapped MSHA Cover - 1-Wire Braid Hose

**APPLICATIONS:** Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R1 and EN 853 1SN.

**CONSTRUCTION:**

- <strong>Tube:</strong> Synthetic Rubber
- <strong>Cover:</strong> Oil, weather and extra abrasion resistant Dreamshield® synthetic rubber, MSHA approved
- <strong>Reinforcement:</strong> One wire braid of high tensile steel with protective coating

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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Contact Customer Service for availability.

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**SAE 100R17 - 3,000 PSI**
**Constant Pressure - MSHA Cover**
**1 or 2-Wire Braid Hose, Wrapped Cover**

**APPLICATIONS:** Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R17.

**CONSTRUCTION:**
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** 1/4” to 5/8” - one wire braid of high tensile steel with protective coating
  3/4” to 1” - two wire braids of high tensile steel with protective coating

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

<table>
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<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
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<th>Weight</th>
<th>Standard Pack</th>
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## HYDRAULIC HOSE

### 5171 SERIES

**SAE 100R17 - 3,000 PSI**  
**Constant Pressure - MSHA Cover**  
**1 or 2-Wire Braid Hose, Smooth Cover**

**APPLICATIONS:** Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R17.

**CONSTRUCTION:**

- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:**  
  - 1/4” to 5/8” - one wire braid of high tensile steel with protective coating  
  - 3/4” to 1” - two wire braids of high tensile steel with protective coating

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

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SAE 100R17 - 3,000 PSI Constant Pressure
1 or 2-Wire Braid Hose, Wrapped MSHA Cover
© Dreamshield® Extra Abrasion Resistant Cover

APPLIED DIAMETERS:
Used for medium pressure hydraulic lines on mobile equipment, machine tools and farm equipment. Meets or exceeds SAE 100R17

CONSTRUCTION:
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<th>Part Number</th>
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## APPLICATIONS:
Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R2 and EN 853 2SN.

## CONSTRUCTION:
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** Two wire braids of high tensile steel with protective coating

## TEMPERATURE RANGE:
-40°F (-40°C) to +212°F (+100°C)

## COUPLINGS:
12/JB12 Series - see pages 61 thru 103

<table>
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<th>Part Number</th>
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SAE 100R2AT, 2SN, DIN EN 853 - MSHA Cover
2-Wire Braid Hose, Smooth Cover

**APPLICATIONS:** Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R2 and EN 853 2SN.

**CONSTRUCTION:**

- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** Two wire braids of high tensile steel with protective coating

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

<table>
<thead>
<tr>
<th>Part Number</th>
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### APPLICATIONS:
Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R2 and EN 853 2SN.

### CONSTRUCTION:
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and extra abrasion resistant Dreamshield® synthetic rubber, MSHA approved
- **Reinforcement:** Two wire braids of high tensile steel with protective coating

### TEMPERATURE RANGE:
-40°F (-40°C) to +212°F (+100°C)

### COUPLINGS:
12/JB12 Series - see pages 61 thru 103

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We disclaim any liability for use of our products in applications other than which they are designed.

**WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
**SAE 100R16 - MSHA Cover**

*HYDRAULIC HOSE - 1&2 WIRE BRAID*

2-Wire Braid Hose, Wrapped Cover

ISO Spec 11237 Type 2SC

---

**APPLICATIONS:**
Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R16 (Type 2SC).

**CONSTRUCTION:**

*Tube:* Synthetic Rubber  

*Cover:* Oil, weather and abrasion resistant synthetic rubber, MSHA approved  

*Reinforcement:* Two wire braids of high tensile steel with protective coating

**TEMPERATURE RANGE:**
-40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:**
12/JB12 Series - see pages 61 thru 103

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<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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HYDRAULIC HOSE

5161 SERIES

SAE 100R16 - MSHA Cover
2-Wire Braid Hose, Smooth Cover
ISO Spec 11237 Type 2SC

APPLICATIONS: Used for high pressure hydraulic lines on off-road construction equipment, machine tools and farm equipment. Meets or exceeds SAE 100R16 (Type 2SO).

CONSTRUCTION:
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** Two wire braids of high tensile steel with protective coating

TEMPERATURE RANGE: -40°F (-40°C) to +212°F (+100°C)

COUPLINGS: 12/JB12 Series - see pages 61 thru 103

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<th>Part Number</th>
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<th>Outside Diameter</th>
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<td>PSI BAR</td>
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WARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
SAE 100R16 - MSHA Cover
Dreamshield® Extra Abrasion Resistant Cover
2-Wire Braid Hose, Wrapped Cover

APPLICATONS: Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R16.

CONSTRUCTION:

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<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
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COUPLINGS: 12/JB12 Series - see pages 61 thru 103

TEMPERATURE RANGE: -40°F (-40°C) to +212°F (+100°C)

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WARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
**APPLICATIONS:** Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R19.

**CONSTRUCTION:**
- **Tube:** Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, MSHA approved
- **Reinforcement:** Two wire braids of high tensile steel with protective coating

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

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<th>Weight</th>
<th>Standard Pack</th>
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<td>PSI BAR</td>
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This is a special order product only. No product will be stocked.

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⚠️ **WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
SAE 100R19 - MSHA Cover

Dreamshield® Extra Abrasion Resistant Cover

2-Wire Braid Hose, Wrapped Cover

4,000 PSI Constant Pressure

APPLICATIONS: Used for high pressure hydraulic lines on off-road construction equipment, machine tools, farm and marine equipment. Meets or exceeds SAE 100R19.

CONSTRUCTION:

| Tube | Synthetic Rubber |
| Cover | Oil, weather and extra abrasion resistant @ Dreamshield® synthetic rubber, MSHA approved |
| Reinforcement | Two wire braids of high tensile steel with protective coating |

TEMPERATURE RANGE: -40°F (-40°C) to +212°F (+100°C)

COUPLINGS: 12/JB12 Series - see pages 61 thru 103

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## HYDRAULIC HOSE - 4 OR 6-SPIRAL HOSE

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SAE 100R12, DIN EN 856 R12
Wrapped MSHA Cover
4-Spiral Hose

APPLICATIONS: Used for very high pressure hydraulic service. Meets or exceeds SAE 100R12 and EN 856 R12.

CONSTRUCTION:

| Tube: Special Synthetic Rubber |
| Cover: Oil, weather and abrasion resistant synthetic rubber, wrapped, MSHA approved |
| Reinforcement: 4-spirals of high tensile steel |

TEMPERATURE RANGE: -40°F (-40°C) to +250°F (+120°C)

COUPLINGS: 40/JB40 Series - see pages 105 thru 142

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## 5122 SERIES

**SAE 100R12, DIN EN 856 R12**

© Dreamshield® Extra Abrasion Resistant Cover

Wrapped MSHA Cover - 4-Spiral Hose

### APPLICATIONS:

Used for very high pressure hydraulic service.

Meets or exceeds SAE 100R12 and EN 856 R12.

### CONSTRUCTION:

- **Tube:** Special Synthetic Rubber
- **Cover:** Oil, weather and extra abrasion resistant © Dreamshield® synthetic rubber, wrapped, MSHA approved
- **Reinforcement:** 4-spirals of high tensile steel

### TEMPERATURE RANGE:

-40°F (-40°C) to +250°F (+120°C)

### COUPLINGS:

40/JB40 Series - see pages 105 thru 142

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<td>kg/m</td>
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<td>2.80 4.17</td>
<td>150</td>
</tr>
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</table>

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SAE 100R13, DIN EN 856 R13  
Wrapped MSHA Cover  
4 or 6-Spiral Hose, 5,000 PSI, Constant Pressure

**APPLICATIONS:** Used for very high pressure hydraulic service. Meets or exceeds SAE 100R13 and EN 856 R13.

**CONSTRUCTION:**

- **Tube:** Special Synthetic Rubber
- **Cover:** Oil, weather and abrasion resistant synthetic rubber, wrapped, MSHA approved
- **Reinforcement:** 4-spirals of high tensile steel for 3/4" and 1" ID's  
  6 spirals of high tensile steel for 1-1/4", 1-1/2" and 2" ID's

**TEMPERATURE RANGE:** -40°F (-40°C) to +250°F (+120°C)

**COUPLINGS:** 60/JB60 Series - see pages 144 thru 164

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch mm</td>
<td>inch mm</td>
<td>PSI BAR</td>
<td>PSI BAR</td>
<td>inch mm</td>
<td>lbs./ft kg/m</td>
<td>feet meter</td>
</tr>
<tr>
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<td>3/4 19.1</td>
<td>1.26 32.0</td>
<td>5,000 345</td>
<td>20000 1380</td>
<td>9.4 240</td>
<td>1.09 1.63</td>
<td>130 40</td>
</tr>
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<td>5130-16</td>
<td>1 25.4</td>
<td>1.51 38.4</td>
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<td>11.8 300</td>
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<td>130 40</td>
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<tr>
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<td>5,000 345</td>
<td>20000 1380</td>
<td>16.5 420</td>
<td>2.60 3.87</td>
<td>130 40</td>
</tr>
<tr>
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<td>5,000 345</td>
<td>20000 1380</td>
<td>19.7 500</td>
<td>3.25 4.85</td>
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<td>20000 1380</td>
<td>25.2 640</td>
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</table>

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HYDRAULIC HOSE - 4 & 6 SPIRAL

SAE 100R13, DIN EN 856 R13
Wrapped MSHA Cover
© Dreamshield® Extra Abrasion Resistant Cover
4 or 6-Spiral Hose - 5,000 PSI- Constant Pressure

APPLICATIONS: Used for very high pressure hydraulic service. Meets or exceeds SAE 100R13 and EN 856 R13

CONSTRUCTION:
Tube: Special Synthetic Rubber
Cover: Oil, weather and extra abrasion resistant © Dreamshield® synthetic rubber, wrapped, MSHA approved
Reinforcement: 4-spirals of high tensile steel for 3/4” and 1” ID’s
6 spirals of high tensile steel for 1-1/4”, 1-1/2” and 2” ID’s

TEMPERATURE RANGE: -40°F (-40°C) to +250°F (+120°C)

COUPLINGS: 60/JB60 Series - see pages 144 thru 164

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>inch mm</td>
<td>PSI BAR</td>
<td>PSI BAR</td>
<td>inch mm</td>
<td>lbs./ft.</td>
<td>kg/m</td>
</tr>
<tr>
<td>5132-12</td>
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<td>20000 1380</td>
<td>9.4 240</td>
<td>1.09 1.63</td>
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<td>20000 1380</td>
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<td>1.39 2.07</td>
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<td>20000 1380</td>
<td>16.5 420</td>
<td>2.60 3.87</td>
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<td>20000 1380</td>
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<td>20000 1380</td>
<td>24.8 630</td>
<td>4.31 6.42</td>
<td>150 45.7</td>
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**SAE 100R15, DIN EN 856 R15**

**Wrapped MSHA Cover**

4 or 6-Spiral Hose, 6,000 PSI

**Constant Pressure**

---

**APPLICATIONS:** Used for extreme high pressure hydraulic service. Meets or exceeds SAE 100R15 and EN 856 R15

**CONSTRUCTION:**

<table>
<thead>
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<th>Cover</th>
<th>Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Synthetic Rubber</td>
<td>Oil, weather and abrasion resistant synthetic rubber, wrapped, MSHA approved</td>
<td>4-spirals of high tensile steel for 3/8&quot; and 1&quot; ID 6 spirals of high tensile steel for 1-1/4&quot;, to 2&quot; ID</td>
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</table>

**TEMPERATURE RANGE:** -40°F (-40°C) to +250°F (+120°C)

**COUPLINGS:** Contact Jason Industrial for recommendations.

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<th>Part Number</th>
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<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>PSI</td>
<td>BAR</td>
<td>PSI</td>
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<tr>
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5152 Series

SAE 100R15, DIN EN 856 R15
Wrapped MSHA Cover
© Dreamshield® Extra Abrasion Resistant Cover

4 or 6-Spiral Hose, 6,000 PSI Constant Pressure

APPLICATIONS: Used for very high pressure hydraulic service. Meets or exceeds SAE 100R15 and EN 856 R15

CONSTRUCTION:
Tube: Special Synthetic Rubber
Cover: Oil, weather and extra abrasion resistant © Dreamshield® synthetic rubber, wrapped, MSHA approved
Reinforcement: 4-spirals of high tensile steel for 3/4” and 1” ID’s
6 spirals of high tensile steel for 1-1/4” to 2” ID’s

TEMPERATURE RANGE: -40°F (-40°C) to +250°F (+120°C)

COUPLINGS: 60/JB60 Series - pages 144 thru 164

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Standard Pack</th>
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<tr>
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<td>inch</td>
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<td>BAR</td>
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<td>5152-32</td>
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<td>72.0</td>
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<td>420</td>
<td>24000</td>
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</tbody>
</table>

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**HYDRAULIC HOSE - SAE 100R4, Oil Return Lines**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5040</td>
<td>NEW! SAE 100R4, Oil Return Lines Replaces Industrial Series 4415</td>
<td>58</td>
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</table>

**HYDRAULIC HOSE - TRANSPORTATION, AIR BRAKE**

<table>
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<tr>
<th>SERIES</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050</td>
<td>SAE 100R5, SAE J1402 Type All DOT FMVSS 106-74 Type All</td>
<td>59</td>
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</table>

Federal law requires registration with the Department of Transportation (DOT) for anyone producing air brake hose assemblies with swaged or crimp fittings. The Jason 5050 Series hoses have been tested and meet SAE 100R5 and J1402 Type All/FMVSS 106 requirements with the Jason 75 Series field attachable (reusable) couplings. Sizes 16 (7/8" bore) and larger are not included in the SAE J1402/FMVSS 102 standards.
**5040 SERIES**

**SAE 100R4 Oil Return Hose**

NOTE: Series 5040 will replace the 4415 industrial hose. The 4415 series will be phased out as inventories are depleted and replaced by the Series 5040 hose. This will be a running change.

**APPLICATIONS:** Used for oil return lines of hydraulic systems in industrial and agricultural systems.

**CONSTRUCTION:**

- **Tube:** Nitrile, black, ARPM Class A
- **Cover:** CR, black ARPM Class B
- **Reinforcement:** Two ply synthetic fabric with a wire helix

**TEMPERATURE RANGE:** -40°F (-40°C) to +212°F (+100°C)

**COUPLINGS:** 12/JB12 Series - see pages 61 thru 103

<table>
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<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
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<th>Standard Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch mm</td>
<td>inch mm</td>
<td>PSI BAR</td>
<td>PSI BAR</td>
<td>inch mm</td>
<td>lbs./ft. kg/m</td>
<td>feet meter</td>
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<tr>
<td>5040-12</td>
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</tr>
</tbody>
</table>

Note: Check with customer service for availability of these part numbers.

**WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
SAE 100R5, SAE J1402 Type All
DOT FMVSS 106-74 Type All

**APPLICATIONS:**
Used for general purpose truck and hydraulic hose. For use in air brake, oil lines and medium pressure hydraulic applications.

**CONSTRUCTION:**
- **Tube:** CPE Rubber
- **Cover:** Oil and weather resistant rubber impregnated synthetic braid
- **Reinforcement:** Synthetic textile and one wire braid of high tensile steel

**TEMPERATURE RANGE:**
-40°F (-40°C) to +300°F (+125°C)
Continuous use at maximum temperature will reduce service duration.

**COUPLINGS:**
75/JFR5 Series - see pages 166 thru 170

<table>
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<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
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<th>Burst Pressure</th>
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<tr>
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<td>14.5</td>
<td>3046</td>
<td>210</td>
<td>12183</td>
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</table>

NOTE: Only approved field attachable (reusable) screw together couplings can be used on this hose for compliance with DOT FMVSS 106 requirements. No crimp couplings may be used on any airbrake hose without the end assembler testing, registering and complying with DOT.

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<table>
<thead>
<tr>
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<td>JB12FS</td>
<td>Female Swivel - 37° Flare</td>
<td>61</td>
</tr>
<tr>
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One Piece Hose Fittings

Female JIC 37° Flared Swivel

C202 & C402

C402
For Use Spiral Wire Hose
C202
For Use Wire Braid Hose

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### JB12FS90 SERIES

**Female Swivel 37° Flare - 90° Elbow**

![Diagram of JB12FS90 Series](Image)

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**HYDRAULIC COUPLINGS - 12/JB12**

**1204L SERIES**

**JB12FS90L SERIES**

*Female Swivel 37° Flare*

*90° Elbow Long Drop*

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<th>Descriptive Part Number</th>
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<th>&quot;D&quot; Dimension Drop</th>
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### JB120FS SERIES
**Female O-Ring Face Seal Straight**

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<th>Descriptive Part Number</th>
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<th>Hose Inside Diameter</th>
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**HYDRAULIC COUPLINGS - 12/JB12**

### 1207 SERIES

**Female O-Ring Face Seal - 45° Elbow**

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**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | "A" Dimension Overall Length | "B" Dimension Cut-Off Length | "D" Dimension Drop | **Hex Sizes** | **Weight** | **Bulk Pack**
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1207-0404 | JB120FS45-04-04 | 9/16-18 | 1/4 | 6.4 | 2.17 | 55.0 | 20.6 | 0.14 | 0.06 | 250
1207-0604 | JB120FS45-06-04 | 11/16-16 | 1/4 | 6.4 | 2.20 | 56.0 | 20.6 | 0.15 | 0.07 | 250
1207-0804 | JB120FS45-08-04 | 13/16-16 | 1/4 | 6.4 | 2.28 | 58.0 | 23.8 | 0.11 | 0.05 | 250
1207-1004 | JB120FS45-10-04 | 11/16-16 | 5/16 | 7.9 | 2.20 | 56.0 | 14.0 | 0.01 | 0.05 | 250
1207-0406 | JB120FS45-04-06 | 9/16-18 | 3/8 | 9.5 | 2.64 | 67.0 | 15.0 | 0.09 | 0.06 | 250
1207-0606 | JB120FS45-06-06 | 11/16-16 | 3/8 | 9.5 | 2.68 | 68.0 | 16.0 | 0.09 | 0.06 | 250
1207-0806 | JB120FS45-08-06 | 13/16-16 | 3/8 | 9.5 | 2.76 | 70.0 | 16.0 | 0.09 | 0.06 | 250
1207-0608 | JB120FS45-06-08 | 11/16-16 | 1/2 | 12.7 | 3.23 | 82.0 | 17.0 | 0.10 | 0.06 | 250
1207-0808 | JB120FS45-08-08 | 13/16-16 | 1/2 | 12.7 | 3.27 | 83.0 | 17.0 | 0.10 | 0.06 | 250
1207-1008 | JB120FS45-10-08 | 1-1/4 | 1/2 | 13.7 | 3.23 | 82.0 | 17.0 | 0.10 | 0.06 | 250
1207-1208 | JB120FS45-12-08 | 1-3/16-12 | 1/2 | 12.7 | 3.23 | 82.0 | 17.0 | 0.10 | 0.06 | 250
1207-0610 | JB120FS45-06-10 | 13/16-12 | 5/8 | 15.9 | 3.62 | 92.0 | 20.0 | 0.19 | 0.08 | 250
1207-1010 | JB120FS45-10-10 | 1-1/4 | 5/8 | 15.9 | 3.66 | 93.0 | 20.0 | 0.19 | 0.08 | 250
1207-1210 | JB120FS45-12-10 | 1-3/16-12 | 3/8 | 15.9 | 3.62 | 92.0 | 20.0 | 0.19 | 0.08 | 250
1207-1012 | JB120FS45-10-12 | 1-1/4 | 3/4 | 19.1 | 4.57 | 116.0 | 28.0 | 0.26 | 0.12 | 250
1207-1212 | JB120FS45-12-12 | 1-3/16-12 | 3/4 | 19.1 | 4.53 | 115.0 | 28.0 | 0.26 | 0.12 | 250
1207-1612 | JB120FS45-16-12 | 1-7/16-12 | 3/4 | 19.1 | 4.76 | 121.0 | 30.0 | 0.37 | 0.13 | 250
1207-1216 | JB120FS45-12-16 | 1-3/16-12 | 1 | 25.4 | 4.76 | 121.0 | 30.0 | 0.37 | 0.13 | 250
1207-1616 | JB120FS45-16-16 | 1-7/16-12 | 1 | 25.4 | 4.76 | 121.0 | 30.0 | 0.37 | 0.13 | 250
1207-2016 | JB120FS45-20-16 | 1-11/16-12 | 1 | 25.4 | 4.88 | 124.0 | 33.0 | 0.77 | 0.35 | 250
1207-1620 | JB120FS45-16-20 | 1-7/16-12 | 1-1/4 | 31.8 | 5.79 | 147.0 | 40.0 | 1.22 | 0.59 | 250
1207-2020 | JB120FS45-20-20 | 1-11/16-12 | 1-1/4 | 31.8 | 5.91 | 150.0 | 40.0 | 1.22 | 0.59 | 250
1207-2420 | JB120FS45-24-20 | 2-1/4 | 1-1/4 | 31.8 | 5.94 | 151.0 | 40.0 | 1.22 | 0.59 | 250
1207-2424 | JB120FS45-24-24 | 2-1/2 | 1-1/2 | 38.1 | 6.85 | 174.0 | 45.0 | 2.50 | 1.14 | 7

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## JB12OFS90 SERIES

**Female O-Ring Face Seal - 90° Elbow**

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<th>Descriptive Part Number</th>
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<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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**1209L SERIES**

**JB12OFS90L SERIES**

*Female O-Ring Face Seal*

*90° Elbow - Long Drop*

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**JB12FA SERIES**

*Female Swivel - SAE 45° Flare*

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**1215 SERIES**

**JB12FP SERIES**
Female Pipe Rigid NPTF

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# JB12FPS SERIES

**Female Pipe Swivel NPTF**

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### 1220 SERIES

**JB12MP SERIES**
Male Pipe Rigid NPTF

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**Image Description**
- Two images are shown, one illustrating a hose fitting with labels A, B, and H1, and the other showing a pictorial index with part numbers such as F40CSH, F60C, B60, F44CSH, F64C, B69, etc.

---

**Table:**

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**JB12MS SERIES**

**Male Pipe Swivel NPTF**

---

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<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
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<th>Hose Inside Diameter &quot;A&quot;</th>
<th>Dimension Overall Length &quot;B&quot;</th>
<th>Dimension Cut-Off Length &quot;D&quot;</th>
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---

**Note:** Not for use as a live swivel. For installation only.

---

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---

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HYDRAULIC COUPLINGS - 12/JB12

1225 SERIES

STANDARD PRODUCT

E408           For Use Spiral Wire Hose
E208           For Use Wire Braid Hose

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<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
### JB12MJBH SERIES
**Male JIC - 37° Bulkhead**

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<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
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<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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1227 SERIES

**JB12OB SERIES**

**Male O-Ring Boss**

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**JB12OBS SERIES**  
**Male O-Ring Boss Swivel**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension (Overall Length)</th>
<th>&quot;B&quot; Dimension (Cut-Off Length)</th>
<th>&quot;D&quot; Dimension (Drop)</th>
<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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### 1230 SERIES

**JB12JISMP SERIES**

**Male BSP/JIS Taper Rigid Pipe - Metric**

![Diagram of HYDRAULIC COUPLINGS](image)

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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<th>Weight</th>
<th>Bulk Pack</th>
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⚠️ **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
## JB12MOFS SERIES

**SAE Male O-Ring Face Seal**

### 1232 SERIES

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**WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
### HYDRAULIC COUPLINGS - 12/JB12

#### 1234 SERIES

**JB12C61S SERIES**

SAE Code 61 Flange - Straight

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<th>&quot;D&quot; Dimension Drop</th>
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WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
HYDRAULIC HOSE - 1&2 WIRE BRAID

HYDRAULIC COUPLINGS - 12/ JB12

SAE Code 61 Flange - 45° Elbow

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## HYDRAULIC COUPLINGS - 12/JB12

### 1239 SERIES

**SAE Code 61 Flange - 90° Elbow**

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<th>&quot;D&quot; Dimension Drop</th>
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<td>5.51</td>
<td>3.66</td>
<td>93.0</td>
<td>3.19</td>
<td>2.37</td>
<td>0.76</td>
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<tr>
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<td>1-1/2</td>
<td>38.1</td>
<td>5.94</td>
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**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
## JB12C62S SERIES
### SAE Code 62 Flange - Straight

![Image of JB12C62S series coupling]

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Bore Dimension [mm]</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter-C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<td>-</td>
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</tbody>
</table>

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**HYDRAULIC COUPLINGS - 12/JB12**

### 1243 SERIES

**JB12C6245 SERIES**

**SAE Code 62 Flange - 45° Elbow**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<tbody>
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<td>153.0</td>
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⚠️ **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
**JB12C6290 SERIES**

**SAE Code 62 Flange - 90° Elbow**

<table>
<thead>
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<th>Descriptive Part Number</th>
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<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
<th>Weight</th>
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</table>

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1248 SERIES

1248 Series will replace 1252 Series

JB12FSPPBSP SERIES
Female Swivel - BSP Parallel Pipe
30° Cone - Metric

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<td></td>
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<td>inch mm</td>
<td>inch mm</td>
<td></td>
<td>lbs. kg</td>
<td>qty</td>
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<td>3/8 9.5</td>
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<td>0.75 19.0</td>
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<td>0.11 130</td>
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<td>1.06 27.0</td>
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<td>0.24 60</td>
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<td>1 31.8</td>
<td>3.66 93.0</td>
<td>1.81 46.0</td>
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Please note that 1248 Series will replace the 1252 Series

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## JB12FSPPBSP45 SERIES

**Female Swivel - BSP Parallel Pipe**

**30° Cone - 45° Elbow - Metric**

### 1249 Series

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<td>(inch, mm)</td>
<td>(inch, mm)</td>
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<td>kg</td>
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<td>9.5</td>
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<td>71.0</td>
<td>0.75</td>
<td>19.0</td>
<td>0.87</td>
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<td>215.0</td>
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**Please note that 1249 Series will replace 1254 Series**

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## 1250 SERIES

**Female Swivel - BSP Parallel Pipe**

### 30° Cone - 90° Elbow - Metric

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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</thead>
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<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
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<td>lbs. kg</td>
<td>qty</td>
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### Please note that 1250 Series will replace 1256 Series

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**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
1252 Series will be replaced by 1248 Series

**JB12FSPPJIS SERIES**

Female Swivel - JIS Parallel Pipe

30° Flare - Straight Metric

---

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes H1</th>
<th>H2</th>
<th>Weight lbs.</th>
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Please note that 1252 Series will be replaced by 1248 Series.

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⚠️ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
**HYDRAULIC COUPLINGS - 12/JB12**

**1254 SERIES**

**JB12FSPPJIS45 SERIES**
Female Swivel - JIS Parallel Pipe
30° Flare - 45° Elbow - Metric

---

**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | "A" Dimension Overall Length | "B" Dimension Cut-Off Length | "D" Dimension Drop | Hex Sizes | **Weight** | **Bulk Pack**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
1254-0404 | JB12FSPPJIS45-04-04 | 1/4-19 | 1/4 | 6.4 | 2.24 | 57.0 | 1.5 | 37.0 | 0.6 | 16.0 | 0.7 | 19.0 | 0.15 | 0.07 | 250
1254-0606 | JB12FSPPJIS45-06-06 | 3/8-19 | 3/8 | 9.5 | 2.80 | 71.0 | 1.7 | 44.0 | 0.7 | 18.0 | 0.9 | 22.0 | 0.24 | 0.11 | 130
1254-0808 | JB12FSPPJIS45-08-08 | 1/2-14 | 1/2 | 12.7 | 3.27 | 83.0 | 2.0 | 51.0 | 0.8 | 20.0 | 1.1 | 27.0 | 0.36 | 0.16 | 80
1254-1212 | JB12FSPPJIS45-12-12 | 3/4-14 | 3/4 | 19.1 | 4.69 | 119.0 | 3.1 | 79.0 | 1.2 | 30.0 | 1.4 | 36.0 | 0.88 | 0.40 | 32
1254-1616 | JB12FSPPJIS45-16-16 | 1-11 | 1 | 25.4 | 4.88 | 124.0 | 3.1 | 79.0 | 1.3 | 33.0 | 1.6 | 41.0 | 1.20 | 0.54 | 18
1254-2020 | JB12FSPPJIS45-20-20 | 1-1/4-11 | 1-1/4 | 31.8 | 6.02 | 153.0 | 4.2 | 106.0 | 1.7 | 42.0 | 2.0 | 50.0 | 1.34 | 0.61 | 12
1254-2424 | JB12FSPPJIS45-24-24 | 1-1/2-11 | 1-1/2 | 38.1 | 6.93 | 176.0 | 4.6 | 116.0 | 1.9 | 48.0 | 2.2 | 55.0 | 1.72 | 0.78 | 12
1254-3232 | JB12FSPPJIS45-32-32 | 2-11 | 2 | 50.8 | 8.46 | 215.0 | 5.7 | 144.0 | 2.6 | 66.0 | 2.9 | 73.0 | 6.37 | 2.89 | 6

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Please note that 1249 Series will be replaced by 1254 Series

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**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
**JB12FSPPJIS90 SERIES**  
*Female Swivel - JIS Parallel Pipe*  
*30° Flare - 90° Elbow - Metric*

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**Catalog Part Number** | **Descriptive Part Number** | **Thread**  
---|---|---  
1256-0404 | JB12FSPPJIS90-04-04 | 1/4-19  
1256-0606 | JB12FSPPJIS90-06-06 | 3/8-19  
1256-0808 | JB12FSPPJIS90-08-08 | 1/2-14  
1256-1212 | JB12FSPPJIS90-12-12 | 3/4-14  
1256-1616 | JB12FSPPJIS90-16-16 | 1-11  
1256-2020 | JB12FSPPJIS90-20-20 | 1-1/4-11  
1256-2424 | JB12FSPPJIS90-24-24 | 1-1/2-11  
1256-3232 | JB12FSPPJIS90-32-32 | 2-11

**Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Hex Sizes** | **Weight** | **Bulk Pack**  
---|---|---|---|---|---|---  
inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | lbs | kg | qty  
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---  
1256-0404 | JB12FSPPJIS90-04-04 | 1/4 | 6.4 | 2.01 | 51.0 | 1.18 | 30.0 | 1.06 | 27.0 | 0.75 | 19.0 | 0.15 | 0.07 | 200  
1256-0606 | JB12FSPPJIS90-06-06 | 3/8 | 9.5 | 2.72 | 69.0 | 1.65 | 42.0 | 1.22 | 31.0 | 0.87 | 22.0 | 0.25 | 0.11 | 100  
1256-0808 | JB12FSPPJIS90-08-08 | 1/2 | 12.7 | 2.76 | 70.0 | 1.50 | 38.0 | 1.30 | 33.0 | 1.06 | 27.0 | 0.36 | 0.16 | 70  
1256-1212 | JB12FSPPJIS90-12-12 | 3/4 | 19.1 | 3.98 | 101.0 | 2.40 | 61.0 | 2.09 | 53.0 | 1.42 | 36.0 | 0.95 | 0.43 | 32  
1256-1616 | JB12FSPPJIS90-16-16 | 1 | 25.4 | 4.96 | 126.0 | 3.19 | 81.0 | 2.48 | 63.0 | 1.61 | 41.0 | 1.54 | 0.70 | 15  
1256-2020 | JB12FSPPJIS90-20-20 | 1-1/4 | 31.8 | 5.51 | 140.0 | 3.66 | 93.0 | 3.35 | 85.0 | 1.97 | 50.0 | 2.56 | 1.16 | 15  
1256-2424 | JB12FSPPJIS90-24-24 | 1-1/2 | 38.1 | 5.94 | 151.0 | 3.58 | 91.0 | 3.46 | 88.0 | 2.17 | 55.0 | 2.91 | 1.32 | 10  
1256-3232 | JB12FSPPJIS90-32-32 | 2 | 50.8 | 8.11 | 206.0 | 5.31 | 135.0 | 5.51 | 140.0 | 2.87 | 73.0 | 3.29 | 1.49 | 6

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Please note that 1256 Series will be replaced by 1250 Series

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---

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## 1258 SERIES

### JB12FSJISF SERIES

**Female Swivel - JIS, 30° Flare**

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<th>Hose Inside Diameter</th>
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<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<td>lbs</td>
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JB12KFSM SERIES
Female Swivel - Komatsu 30° Flare - Metric

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<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
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<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
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### 1271 SERIES

#### JB12FSM SERIES

**Female Swivel - 60° Cone DIN - Metric**

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<th>Descriptive Part Number</th>
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<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
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# JB12FSM45 SERIES

**Female Swivel - 60° Cone**

**45° Elbow - Metric**

---

<table>
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<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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</table>

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### 1273 SERIES

**JB12FS90M SERIES**

*Female Swivel - 60° Cone - DIN 90° Elbow - Metric*

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Tube Outside Diameter</th>
<th>Weight</th>
<th>Bulk Pack</th>
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JB12MM SERIES
Male 24° DIN - Metric
L Series (Light)

<table>
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<tr>
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<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
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<td>JB12MM-26-10</td>
<td>M26-1.5</td>
<td>5/8 15.9 2.52 64.0</td>
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<tr>
<td>1275-3012</td>
<td>JB12MM-30-12</td>
<td>M30-2.0</td>
<td>3/4 19.1 2.68 68.0</td>
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<td>1275-3616</td>
<td>JB12MM-36-16</td>
<td>M36-2.0</td>
<td>1 25.4 2.99 76.0</td>
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| 1275-4520           | JB12MM-45-20             | M45-2.0| 1-1/4 31.8 3.46 88.0  

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### 1277 SERIES

**JB12LFSORM SERIES**

**Female Swivel O-Ring - 24° Cone**

**L Series (Light) DIN 3865 - Metric**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Size</th>
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**JB12LFSORM45 SERIES**

**Female Swivel O-Ring - 24° Cone**

**Series (Light) DIN 3865 - 45° Elbow - Metric**

---

**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Hex Size H1** | **Tube Outside Diameter** | **Weight lbs. kg** | **Bulk Pack** |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
1278-1204 | JB12LFSORM45-12-04 | M12-1.5 | 1/4 | 6.4 | 2.24 | 57.0 | 1.42 | 36.0 | 0.59 | 15.0 | 0.55 | 14.0 | 0.24 | 6.0 | 0.14 | 0.06 | 130
1278-1404 | JB12LFSORM45-14-04 | M14-1.5 | 1/4 | 6.4 | 2.36 | 60.0 | 1.54 | 39.0 | 0.71 | 18.0 | 0.67 | 17.0 | 0.31 | 8.0 | 0.14 | 0.06 | 250
1278-1604 | JB12LFSORM45-16-04 | M16-1.5 | 1/4 | 6.4 | 2.44 | 62.0 | 1.61 | 41.0 | 0.75 | 19.0 | 0.75 | 19.0 | 0.39 | 10.0 | 0.17 | 0.08 | 100
1278-1605 | JB12LFSORM45-16-05 | M16-1.5 | 5/16 | 7.9 | 1.72 | 43.8 | 0.86 | 21.8 | 0.82 | 20.8 | 0.55 | 14.0 | 0.39 | 10.0 | 0.21 | 0.10 | 100
1278-1805 | JB12LFSORM45-18-05 | M18-1.5 | 5/16 | 7.9 | 2.01 | 51.0 | 1.14 | 29.0 | 1.48 | 37.6 | 0.87 | 22.0 | 0.47 | 12.0 | 0.22 | 0.10 | 100
1278-1606 | JB12LFSORM45-16-06 | M16-1.5 | 3/8 | 9.5 | 2.87 | 73.0 | 1.81 | 46.0 | 0.83 | 21.0 | 0.75 | 19.0 | 0.39 | 10.0 | 0.25 | 0.11 | 100
1278-1806 | JB12LFSORM45-18-06 | M18-1.5 | 3/8 | 9.5 | 2.87 | 73.0 | 1.81 | 46.0 | 0.83 | 21.0 | 0.87 | 22.0 | 0.47 | 12.0 | 0.24 | 0.11 | 100
1278-2208 | JB12LFSORM45-22-08 | M22-1.5 | 1/2 | 12.7 | 3.43 | 87.0 | 2.17 | 55.0 | 1.10 | 28.0 | 1.06 | 27.0 | 0.59 | 15.0 | 0.35 | 0.16 | 50
1278-2210 | JB12LFSORM45-26-10 | M26-1.5 | 5/8 | 15.9 | 4.02 | 102.0 | 2.48 | 63.0 | 1.18 | 30.0 | 1.26 | 32.0 | 0.71 | 18.0 | 0.54 | 0.24 | 50
1278-3010 | JB12LFSORM45-30-10 | M30-2.0 | 5/8 | 15.9 | 4.29 | 108.9 | 2.77 | 70.4 | 1.42 | 36.0 | 1.42 | 36.0 | 0.87 | 22.0 | 0.68 | 0.31 | 50
1278-2612 | JB12LFSORM45-26-12 | M26-1.5 | 3/4 | 19.1 | 4.92 | 125.0 | 3.35 | 85.0 | 1.50 | 38.0 | 1.26 | 32.0 | 0.71 | 18.0 | 0.75 | 0.34 | 32
1278-3012 | JB12LFSORM45-30-12 | M30-2.0 | 3/4 | 19.1 | 4.84 | 123.0 | 3.27 | 83.0 | 1.42 | 36.0 | 1.42 | 36.0 | 0.87 | 22.0 | 0.86 | 0.39 | 32
1278-3612 | JB12LFSORM45-36-12 | M36-2.0 | 3/4 | 19.1 | 4.84 | 123.0 | 3.27 | 83.0 | 1.42 | 36.0 | 1.61 | 41.0 | 1.10 | 28.0 | 0.90 | 0.41 | 36
1278-3616 | JB12LFSORM45-36-16 | M36-2.0 | 1 | 25.4 | 5.08 | 129.0 | 3.31 | 84.0 | 1.48 | 37.0 | 1.61 | 41.0 | 1.10 | 28.0 | 1.52 | 0.69 | 6
1278-4520 | JB12LFSORM45-46-20 | M45-2.0 | 1-1/4 | 31.8 | 6.18 | 157.0 | 4.33 | 110.0 | 1.85 | 47.0 | 1.97 | 50.0 | 1.38 | 35.0 | 3.33 | 1.51 | 6
1278-5224 | JB12LFSORM45-52-24 | M52-2.0 | 1-1/2 | 38.1 | 7.09 | 180.0 | 4.72 | 120.0 | 2.48 | 63.0 | 2.36 | 60.0 | 1.77 | 45.0 | 8.16 | 3.70 | 6

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One Piece Hose Fittings

DIN 3865 L series / 45˚ Elbow

O-Ring Metric Female 24° Cone Swivel

N247 & N447

N447            For Use Spiral Wire Hose
N247             For Use Wire Braid Hose

N447-16-06 M16 - 1.5 06 3/8” 10 74 46 21 19 10
N447-52-24 M52 - 2.0 24 1 1/2” 40 180 120 63 60 42
N447-45-20 M45 - 2.0 20 1 1/4” 32 157 110 47 50 35
N447-36-16 M36 - 2.0 16 1” 25 131 84 37 41 28
N447-36-12 M36 - 2.0 12 3/4” 20 123 83 36 41 28
N447-26-12 M26 - 1.5 12 3/4” 20 126 85 38 32 18
N447-26-10 M26 - 1.5 10 5/8” 16 103 63 30 32 18
N447-22-08 M22 - 1.5 08 1/2” 12 88 55 28 27 15
N447-18-06 M18 - 1.5 06 3/8” 10 74 46 21 22 12
N447-18-04 M18 - 1.5 04 1/4” 6 60 39 18 17 8
N447-16-06 M16 - 1.5 06 3/8” 10 73 46 21 19 10
N447-16-04 M16 - 1.5 04 1/4” 6 57 36 15 14 6

Part NO. STANDAD PRODUCT Thread Hose Bore Dimension [mm]

N247-16-04 JB12LFSORM90-16-04
N247-16-05 JB12LFSORM90-16-05
N247-22-08 JB12LFSORM90-22-08
N247-2610 JB12LFSORM90-26-10
N247-3012 JB12LFSORM90-30-12
N247-3612 JB12LFSORM90-36-12
N247-3616 JB12LFSORM90-36-16
N247-4520 JB12LFSORM90-45-20
N247-5224 JB12LFSORM90-5224

N447-18-04 JB12LFSORM90-18-04
N447-18-05 JB12LFSORM90-18-05
N447-2612 JB12LFSORM90-26-12
N447-3012 JB12LFSORM90-30-12
N447-3612 JB12LFSORM90-36-12
N447-4520 JB12LFSORM90-45-20
N447-5224 JB12LFSORM90-5224

Number Catalog Part Number Descriptive Part Number

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**JB12SFSORM SERIES**

**Female Swivel O-Ring - 24° Cone**

Series (Standard) DIN 3865 - Metric

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter (inch/mm)</th>
<th>&quot;A&quot; Dimension Overall Length (inch/mm)</th>
<th>&quot;B&quot; Dimension Cut-Off Length (inch/mm)</th>
<th>Hex Size H1</th>
<th>Tube Outside Diameter (inch/mm)</th>
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**1281 SERIES**

**JB12SFSORM45 SERIES**

*Female Swivel O-Ring - 24° Cone*

*S (Standard) DIN 3865 - 45° Elbow - Metric*

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**One Piece Hose Fittings**

**JB12SFSORM90 SERIES**

*Female Swivel O-Ring - 24° Cone*

*S (Standard) DIN 3865 - 90° Elbow - Metric*

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## 40/JB40 Series Couplings - For 4-Wire Braid Hoses

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**JB40FS SERIES**

*Female Swivel JIC 37° Flare*

---

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### 4002 SERIES

**Female Swivel - JIC 37° Flare - 45° Elbow**

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<th>&quot;A&quot; Dimension Overall Length</th>
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JB40FS90 SERIES
Female Swivel
JIC 37° Flare - 90° Elbow

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**4004L SERIES**

**JB40FS90L SERIES**

_Female Swivel JIC 37° Flare 90° Elbow - Long Drop_

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<th>Descriptive Part Number</th>
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<th>&quot;B&quot; Dimension Cut-Off Length</th>
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**JB40OFS SERIES**  
**Female O-Ring Face Seal - Straight**

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**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **Hex Sizes** | **Weight** | **Bulk Pack**
--- | --- | --- | --- | --- | --- | --- | --- | ---
4005-0606 | JB40OFS-06-06 | 11/16-16 | 3/8 | 9.5 | 1.90 | 48.2 | 0.80 | 20.2 | 0.69 | 17.4 | 0.81 | 20.6 | 0.25 | 0.11 | 130
4005-0806 | JB40OFS-08-06 | 13/16-16 | 3/8 | 9.6 | 2.24 | 57.0 | 1.14 | 29.0 | 0.69 | 17.4 | 0.94 | 23.8 | 0.31 | 0.14 | 130
4005-0608 | JB40OFS-06-08 | 11/16-16 | 1/2 | 12.7 | 2.40 | 61.0 | 1.14 | 29.0 | 0.81 | 20.6 | 0.81 | 20.6 | 0.31 | 0.14 | 80
4005-0808 | JB40OFS-08-08 | 13/16-16 | 1/2 | 12.7 | 2.52 | 64.0 | 1.26 | 32.0 | 0.81 | 20.6 | 0.94 | 23.8 | 0.35 | 0.16 | 80
4005-1012 | JB40OFS-10-12 | 1-14 | 3/4 | 19.1 | 3.11 | 79.0 | 1.54 | 39.0 | 1.06 | 26.9 | 1.12 | 28.5 | 0.62 | 0.28 | 50
4005-1212 | JB40OFS-12-12 | 1-3/16-12 | 3/4 | 19.1 | 3.19 | 81.0 | 1.61 | 41.0 | 1.12 | 28.5 | 1.37 | 34.9 | 0.76 | 0.35 | 50
4005-1612 | JB40OFS-16-12 | 1-7/16-12 | 3/4 | 19.1 | 3.27 | 83.0 | 1.69 | 43.0 | 1.25 | 31.7 | 1.62 | 41.2 | 0.90 | 0.41 | 50
4005-1616 | JB40OFS-16-16 | 1-7/16-12 | 1 | 25.4 | 3.62 | 92.0 | 1.77 | 45.0 | 1.37 | 34.9 | 1.62 | 41.2 | 1.17 | 0.53 | 36
4005-2016 | JB40OFS-20-16 | 1-11/16-12 | 1 | 25.4 | 3.15 | 80.0 | 1.30 | 33.0 | 1.37 | 34.9 | 1.87 | 47.6 | 1.65 | 0.75 | 15
4005-1620 | JB40OFS-16-20 | 1-7/12-12 | 1-1/4 | 31.8 | 3.58 | 91.0 | 1.73 | 44.0 | 1.75 | 44.4 | 1.62 | 41.2 | 1.92 | 0.87 | 15
4005-2020 | JB40OFS-20-20 | 1-11/16-12 | 1-1/4 | 31.8 | 3.39 | 86.0 | 1.54 | 39.0 | 1.75 | 44.4 | 1.87 | 47.6 | 2.05 | 0.93 | 15
4005-2420 | JB40OFS-24-20 | 2-12 | 1-1/4 | 31.8 | 3.46 | 88.0 | 1.61 | 41.0 | 1.75 | 44.4 | 2.25 | 57.1 | 2.40 | 1.09 | 12
4005-2424 | JB40OFS-24-24 | 2-12 | 1-1/2 | 38.1 | 3.94 | 100.0 | 1.61 | 41.0 | 1.87 | 47.6 | 2.25 | 57.1 | 2.61 | 1.18 | 12

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## 4007 SERIES

**JB40OFS45 SERIES**

### Female O-Ring Face Seal

45° Elbow

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### Catalog Part Number | Descriptive Part Number | Thread | Hose Inside Diameter | "A" Dimension Overall Length | "B" Dimension Cut-Off Length | "D" Dimension Drop | Hex Size | Weight | Bulk Pack
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---

| 4007-0606 | JB40OFS45-06-06 | 11/16-12 | 3/8 | 9.5 | 2.72 | 69.0 | 1.61 | 41.0 | 0.63 | 16.0 | 0.81 | 20.6 | 0.24 | 0.11 | 110
| 4007-0806 | JB40OFS45-08-06 | 13/16-12 | 3/8 | 9.5 | 2.76 | 70.0 | 1.69 | 43.0 | 0.71 | 18.0 | 0.94 | 23.8 | 0.29 | 0.13 | 100
| 4007-0608 | JB40OFS45-06-08 | 11/16-12 | 1/2 | 12.7 | 3.15 | 80.0 | 1.89 | 48.0 | 0.71 | 18.0 | 0.81 | 20.6 | 0.31 | 0.14 | 110
| 4007-0808 | JB40OFS45-08-08 | 13/16-12 | 1/2 | 12.7 | 3.66 | 93.0 | 1.97 | 50.0 | 0.79 | 20.0 | 0.94 | 23.8 | 0.39 | 0.18 | 70
| 4007-1012 | JB40OFS45-10-12 | 1-1/4 | 3/4 | 19.1 | 4.61 | 117.0 | 2.99 | 76.0 | 1.14 | 29.0 | 1.12 | 28.5 | 0.68 | 0.31 | 32
| 4007-1212 | JB40OFS45-12-12 | 1-3/16-12 | 3/4 | 19.1 | 4.57 | 116.0 | 2.95 | 75.0 | 1.10 | 28.0 | 1.17 | 34.9 | 0.96 | 0.44 | 32
| 4007-1612 | JB40OFS45-16-12 | 1-7/16-12 | 3/4 | 19.1 | 4.57 | 116.0 | 2.95 | 75.0 | 1.10 | 28.0 | 1.62 | 41.2 | 1.06 | 0.48 | 32
| 4007-1616 | JB40OFS45-16-16 | 1-11/16-12 | 1 | 25.4 | 4.84 | 123.0 | 2.99 | 76.0 | 1.18 | 30.0 | 1.62 | 41.2 | 1.37 | 0.62 | 10
| 4007-2016 | JB40OFS45-20-16 | 1-11/16-12 | 1 | 25.4 | 4.96 | 126.0 | 3.11 | 79.0 | 1.30 | 33.0 | 1.87 | 47.6 | 2.09 | 0.95 | 10
| 4007-1620 | JB40OFS45-16-20 | 1-7/16-12 | 1-1/4 | 31.8 | 7.9 | 147.0 | 3.94 | 100.0 | 1.46 | 37.0 | 1.87 | 47.6 | 2.23 | 1.01 | 10
| 4007-2020 | JB40OFS45-20-20 | 1-11/16-12 | 1-1/4 | 31.8 | 7.91 | 150.0 | 4.06 | 103.0 | 1.57 | 40.0 | 1.87 | 47.6 | 2.44 | 1.11 | 10
| 4007-2420 | JB40OFS45-24-20 | 2 | 1-1/4 | 31.8 | 7.94 | 151.0 | 4.09 | 104.0 | 1.61 | 41.0 | 2.25 | 57.1 | 2.32 | 1.05 | 7
| 4007-2424 | JB40OFS45-24-24 | 2 | 1-1/2 | 38.1 | 8.58 | 174.0 | 4.49 | 114.0 | 1.77 | 45.0 | 2.25 | 57.1 | 2.58 | 1.17 | 7

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**JB40OFS90 SERIES**  
Female O-Ring Face Seal  
90° Elbow

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<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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**4010 SERIES**

**JB40FA SERIES**

Female Swivel SAE 45° Flare

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### JB40MP SERIES

**Male Pipe Rigid NPTF**

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<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
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### JB40MS SERIES

**Male Pipe Swivel NPTF**

**4023 SERIES**

![Images of 4023 and JB40MS series couplings]

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<th>Descriptive Part Number</th>
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**Note:** Not for use as a live swivel. For installation only.

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**JB40MJ SERIES**  
**Male JIC 37°**

![Diagram of JB40MJ SERIES](image)

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### 4027 SERIES

**Male O-Ring Boss**

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**WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
**JB40JISMP SERIES**

**Male JIS/BSP Taper Rigid Pipe**

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<th>Descriptive Part Number</th>
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### 4032 SERIES

**HYDRAULIC COUPLINGS - 40/JB40**

**NEW PRODUCT**

**JB40MOFS SERIES**

**SAE MALE O-RING FACE SEAL**

![Image of a hydraulic coupling](image-url)

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<th>Descriptive Part Number</th>
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JB40C61S SERIES
SAE Code 61 Flange - Straight

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## JB40C6190 SERIES

**SAE Code 61 Flange - 90° Elbow**

### SAE Code 61 Flange - 90° Elbow

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**HYDRAULIC COUPLINGS - 40/JB40**

**4039L SERIES**

**Hydraulic Connectors**

**SAE Code 61 Flange**

**90° Elbow - Long Drop**

---

**Catalog Part Number** | **Descriptive Part Number** | **Flange Size** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Flange Diameter -C-** | **Weight** | **Bulk Pack** |
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**JB40C62S SERIES**

**SAE Code 62 Flange - Straight**

---

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<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Flange Diameter -C-</th>
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# 4043 SERIES

**SAE Code 62 Flange - 45° Elbow**

![Diagram of 45° Elbow]

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<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
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### JB40C6290 SERIES

**SAE Code 62 Flange - 90° Elbow**

- **Catalog Part Number:** 4045-1212
  - **Descriptive Part Number:** JB40C6290-12-12
  - **Flange Size:** 3/4 in.
  - **Hose Inside Diameter:** 3/4 in.
  - **"A" Dimension Overall Length:** 3.98 in.
  - **"B" Dimension Cut-Off Length:** 3.11 in.
  - **"D" Dimension Drop:** 2.28 in.
  - **Flange Diameter -C-:** 1.62 in.
  - **Weight:** 0.90 lbs.
  - **Bulk Pack:** 32

- **Catalog Part Number:** 4045-1616
  - **Descriptive Part Number:** JB40C6290-16-16
  - **Flange Size:** 1 in.
  - **Hose Inside Diameter:** 1 in.
  - **"A" Dimension Overall Length:** 4.96 in.
  - **"B" Dimension Cut-Off Length:** 3.23 in.
  - **"D" Dimension Drop:** 2.72 in.
  - **Flange Diameter -C-:** 1.87 in.
  - **Weight:** 0.66 lbs.
  - **Bulk Pack:** 15

- **Catalog Part Number:** 4045-2020
  - **Descriptive Part Number:** JB40C6290-20-20
  - **Flange Size:** 1-1/4 in.
  - **Hose Inside Diameter:** 1-1/4 in.
  - **"A" Dimension Overall Length:** 5.51 in.
  - **"B" Dimension Cut-Off Length:** 4.29 in.
  - **"D" Dimension Drop:** 3.54 in.
  - **Flange Diameter -C-:** 2.12 in.
  - **Weight:** 0.66 lbs.
  - **Bulk Pack:** 15

- **Catalog Part Number:** 4045-2424
  - **Descriptive Part Number:** JB40C6290-24-24
  - **Flange Size:** 1-1/2 in.
  - **Hose Inside Diameter:** 1-1/2 in.
  - **"A" Dimension Overall Length:** 5.94 in.
  - **"B" Dimension Cut-Off Length:** 4.69 in.
  - **"D" Dimension Drop:** 3.62 in.
  - **Flange Diameter -C-:** 2.50 in.
  - **Weight:** 0.66 lbs.
  - **Bulk Pack:** 10

- **Catalog Part Number:** 4045-3232
  - **Descriptive Part Number:** JB40C6290-32-32
  - **Flange Size:** 2 in.
  - **Hose Inside Diameter:** 2 in.
  - **"A" Dimension Overall Length:** 8.11 in.
  - **"B" Dimension Cut-Off Length:** 6.02 in.
  - **"D" Dimension Drop:** 6.02 in.
  - **Flange Diameter -C-:** 3.12 in.
  - **Weight:** 0.66 lbs.
  - **Bulk Pack:** 6

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4048 Series will replace 4052 Series

**Female Swivel BSP**  
Parallel Pipe - 30° Cone

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Please note that 4048 Series will replace 4052 Series

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### 4049 Series will replace 4054 Series

#### JB40FSPPBSP45 SERIES

**Female Swivel BSP**  
**Parallel Pipe - 45° Elbow - Metric**

<table>
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<th>Descriptive Part Number</th>
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<th>&quot;D&quot; Dimension Drop</th>
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HYDRAULIC COUPLINGS - 40/JB40

4050 SERIES

JB40FSPPBSP90 SERIES
Female Swivel BSP Parallel Pipe
30° Cone - 90° Elbow - Metric

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Weight</th>
<th>Bulk Pack</th>
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Please note that 4050 Series will replace 4056 Series

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WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
**Please note that 4052 Series will be replaced by 4048 Series**

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### HYDRAULIC COUPLINGS - 40/JB40

**JB40FSPPJIS SERIES**

**Female Swivel JIS**

**Parallel Pipe - 30° Cone - Metric**

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<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
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**STANDARD PRODUCT**

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**4052 Series will be replaced by 4048 Series**
HYDRAULIC COUPLINGS - 40/JB40

4054 SERIES

**4054 Series will be replaced by 4049 Series**

**JB40FSPPJIS45 SERIES**

*Female Swivel JIS Parallel Pipe*

**30° Cone - 45° Elbow - Metric**

---

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<th>Descriptive Part Number</th>
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Please note that 4054 Series will be replaced by 4049 Series

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**HYDRAULIC COUPLINGS - 40/JB40**

**JB40FSPPJIS90 SERIES**

Female Swivel JIS Parallel Pipe

30° Cone - 90° Elbow - Metric

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**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Hex Size** | **Weight** | **Bulk Pack**
---|---|---|---|---|---|---|---|---|---
4056-0606 | JB40FSPPJIS90-06-06 | 3/8-19 | 3/8 | 9.5 | 2.76 | 70.0 | 1.65 | 42.0 | 1.22 | 31.0 | 0.87 | 22 | 0.29 | 0.13 | 100
4056-0808 | JB40FSPPJIS90-08-08 | 1/2-14 | 1/2 | 12.7 | 2.80 | 71.0 | 1.50 | 38.0 | 1.30 | 33.0 | 1.06 | 27 | 0.40 | 0.18 | 70
4056-1212 | JB40FSPPJIS90-12-12 | 3/4-14 | 3/4 | 19.1 | 4.02 | 102.0 | 2.40 | 61.0 | 2.09 | 53.0 | 1.42 | 36 | 1.00 | 0.45 | 32
4056-1616 | JB40FSPPJIS90-16-16 | 1-11 | 1 | 25.4 | 5.04 | 128.0 | 3.19 | 81.0 | 2.48 | 63.0 | 1.61 | 41 | 1.62 | 0.73 | 15
4056-2020 | JB40FSPPJIS90-20-20 | 1-1/4-11 | 1-1/4 | 31.8 | 5.51 | 140.0 | 3.66 | 93.0 | 3.35 | 85.0 | 1.97 | 50 | 2.18 | 0.99 | 15
4056-2424 | JB40FSPPJIS90-24-24 | 1-1/2-11 | 1-1/2 | 38.1 | 5.94 | 151.0 | 3.58 | 91.0 | 3.46 | 88.0 | 2.17 | 55 | 2.76 | 1.25 | 10
4056-3232 | JB40FSPPJIS90-32-32 | 2-11 | 2 | 50.2 | 8.11 | 206.0 | 5.31 | 135.0 | 5.51 | 140.0 | 2.87 | 73 | 7.61 | 3.45 | 6

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Please note that 4056 Series will be replaced by 4050 Series

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HYDRAULIC COUPLINGS - 40/JB40

4070 SERIES

JB40KFSM SERIES
Komatsu Female Swivel
30° Flare - Metric

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<th>Descriptive Part Number</th>
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<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
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<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
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<td>kg</td>
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<td>JB40KFSM-18-06</td>
<td>M18-1.5</td>
<td>3/8 9.5</td>
<td>2.01 51.0</td>
<td>0.91 23.0</td>
<td>0.87 22</td>
<td>0.94 24</td>
<td>0.31 0.14</td>
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<tr>
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<td>JB40KFSM-22-08</td>
<td>M22-1.5</td>
<td>1/2 12.7</td>
<td>2.20 56.0</td>
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<td>1.06 27</td>
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<td>M24-1.5</td>
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<td>1.22 31.0</td>
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<td>M30-1.5</td>
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<td>1.42 36</td>
<td>1.61 41</td>
<td>1.25 0.57</td>
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**JB40FSM SERIES**

*Female Swivel 60° Cone - Metric DIN 3863*

<table>
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<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
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### Catalog Part Number

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
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**JB40FSM90 SERIES**

**Female Swivel 60° Cone**

**90° Elbow - Metric - DIN 3863**

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### 4075 SERIES

**JB40MM SERIES**

Male DIN 3853 - Metric

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<th>“A” Dimension Overall Length</th>
<th>“B” Dimension Cut-Off Length</th>
<th>Hex Size</th>
<th>Tube Outside Diameter</th>
<th>Weight</th>
<th>Bulk Pack</th>
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### JB40LFSORM SERIES

**Female Swivel O-Ring**

**24° Cone - DIN 3865 L (Light)**

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<th>Descriptive Part Number</th>
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<th>Pipe Outside Diameter</th>
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# 4078 SERIES

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<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
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## JB40LFSORM90 SERIES

**Female Swivel O-Ring**

**24° Cone - DIN 3865 L (Light) - 90° Elbow**

### Catalog Part Number

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<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Tube Outside Diameter</th>
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<th>Bulk Pack</th>
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**HYDRAULIC COUPLINGS - 40/JB40**

## 4080 SERIES

**JB40FSORM SERIES**

**Female Swivel O-Ring - 24° Cone**

**DIN 3865 S (Standard)**

<table>
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<th>Descriptive Part Number</th>
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<th>&quot;A&quot; Dimension Overall Length</th>
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### JB40FSORM45 SERIES

**Female Swivel O-Ring - 24° Cone**

**DIN 3865 - S (Standard) - 45° Elbow**

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# 4082 SERIES

**JB40FSORM SERIES**

*Female Swivel O-Ring - 24° Cone*

*DIN 3865 S (Standard) - 90° Elbow*

---

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### 60/JB60 SERIES COUPLINGS - FOR 4 & 6-WIRE SPIRAL HOSES

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<td>Female Swivel JIC 37° Flare 45° Elbow</td>
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<td>JB60FS90</td>
<td>Female Swivel JIC 37° Flare 90° Elbow</td>
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<td>JB60OFS</td>
<td>Female O-Ring Face Seal - Straight</td>
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### 6000 SERIES

**Female Swivel JIC 37° Flare**

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**JB60FS45 SERIES**  
Female Swivel JIC 37° Flare - 45° Elbow

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HYDRAULIC COUPLINGS - 60/JB60

6004 SERIES

Female Swivel JIC 37° Flare - 90° Elbow

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<th>&quot;D&quot; Dimension Drop</th>
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<td>JB60FS90-32-32</td>
<td>2-1/2-12</td>
<td>2</td>
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<td>8.31</td>
<td>211.0</td>
<td>5.31</td>
<td>135.0</td>
<td>5.28</td>
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</tbody>
</table>

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### JB60OFS SERIES
**Female O-Ring Face Seal - Straight**

**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **Hex Sizes** | **Weight** | **Bulk Pack** |
<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td>6005-1212</td>
<td>JB60OFS-12-12</td>
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<td>3/4</td>
<td>19.1</td>
<td>3.62</td>
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<td>JB60OFS-20-20</td>
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<td>1-1/4</td>
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<td>4.13</td>
<td>1.61</td>
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</table>

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**HYDRAULIC COUPLINGS - 60/JB60**

**6007 SERIES**

**JB60OFS45 SERIES**
Female O-Ring Face Seal
45° Elbow

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>lbs.</td>
<td>kg</td>
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<tr>
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<td>3/4</td>
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<td>5.00</td>
<td>127.0</td>
<td>2.95</td>
<td>75.0</td>
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<td>1-1/4</td>
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<td>4.06</td>
<td>103.0</td>
<td>1.57</td>
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<td>7.05</td>
<td>179.0</td>
<td>4.49</td>
<td>114.0</td>
<td>1.77</td>
</tr>
</tbody>
</table>

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### JB60OFS90 SERIES

**Female O-Ring Face Seal 90° Elbow**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Weight</th>
<th>Bulk Pack</th>
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</thead>
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<tr>
<td>6009-1212</td>
<td>JB60OFS90-12-12</td>
<td>1-3/16-12</td>
<td>3/4</td>
<td>19.1</td>
<td>4.45</td>
<td>113.0</td>
<td>2.40</td>
<td>61.0</td>
<td>1.93</td>
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<td>JB60OFS90-16-16</td>
<td>1-7/16-12</td>
<td>1</td>
<td>25.4</td>
<td>5.31</td>
<td>135.0</td>
<td>3.19</td>
<td>81.0</td>
<td>2.24</td>
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<tr>
<td>6009-2020</td>
<td>JB60OFS90-20-20</td>
<td>1-11/16-12</td>
<td>1-1/4</td>
<td>31.8</td>
<td>6.06</td>
<td>154.0</td>
<td>3.66</td>
<td>93.0</td>
<td>3.03</td>
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<tr>
<td>6009-2424</td>
<td>JB60OFS90-24-24</td>
<td>2-12</td>
<td>1-1/2</td>
<td>38.1</td>
<td>6.14</td>
<td>156.0</td>
<td>3.58</td>
<td>91.0</td>
<td>3.15</td>
</tr>
</tbody>
</table>

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### HYDRAULIC COUPLINGS - 60/ JB60

#### 6020 SERIES

**JB60MP SERIES**

**Male Pipe Rigid NPTF**

---

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter [in. mm]</th>
<th>&quot;A&quot; Dimension Overall Length [inch mm]</th>
<th>&quot;B&quot; Dimension Cut-Off Length [inch mm]</th>
<th>Hex Size H1</th>
<th>Weight lbs. kg</th>
<th>Bulk Pack qty</th>
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</thead>
<tbody>
<tr>
<td>6020-1212</td>
<td>JB60MP-12-12</td>
<td>3/4-14</td>
<td>3/4 19.1 19.1</td>
<td>3.35 85.0 1.46 37.0</td>
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<tr>
<td>6020-1616</td>
<td>JB60MP-16-16</td>
<td>1-11.5</td>
<td>1 25.4 25.4</td>
<td>4.13 105.0 1.69 43.0</td>
<td>36.0 1.42 1.09 0.50</td>
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<tr>
<td>6020-2020</td>
<td>JB60MP-20-20</td>
<td>1-1/4-11.5  1-1/4</td>
<td>31.8 31.8  4.61 117.0</td>
<td>2.05 52.0 1.81 46.0</td>
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<tr>
<td>6020-2424</td>
<td>JB60MP-24-24</td>
<td>1-1/2-11.5  1-1/2</td>
<td>38.1 38.1  4.49 114.0</td>
<td>2.05 52.0 1.97 50.0</td>
<td>2.47 1.12 15</td>
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<td></td>
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<tr>
<td>6020-3232</td>
<td>JB60MP-32-32</td>
<td>2-11.5  2</td>
<td>50.8 50.8  5.28 134.0</td>
<td>2.28 58.0 2.36 60.0</td>
<td>4.06 1.84 8</td>
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</table>

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---

**One Piece Hose Fittings**

- **B48**
  - SAE Taper Male NPTF
  - For DIN 4SH & SAE 100R 13 Hose

- **B49**
  - Female JIC 37° Swivel
  - For DIN 4SH & SAE 100R 13 Hose

<table>
<thead>
<tr>
<th>Part NO.</th>
<th>Thread</th>
<th>Hose Bore Dimension [mm]</th>
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<td>3/4&quot;-14 12</td>
<td>3/4&quot; 20 85 37 27</td>
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<td>E403SH-16-16</td>
<td>1&quot;-11.5 16</td>
<td>1&quot; 25 105 43 36</td>
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<tr>
<td>E403SH-20-20</td>
<td>1.1/4&quot;-11.5 20</td>
<td>1.1/4&quot; 32 117 52 46</td>
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<tr>
<td>E403SH-24-24</td>
<td>1.1/2&quot;-11.5 24</td>
<td>1.1/2&quot; 40 114 52 50</td>
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<tr>
<td>E403SH-32-32</td>
<td>2&quot;-11.5 32</td>
<td>2&quot; 50 134 58 60</td>
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<tr>
<td>E603-12-12</td>
<td>3/4&quot;-14 12</td>
<td>3/4&quot; 20 85 37 27</td>
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<tr>
<td>E603-16-16</td>
<td>1&quot;-11.5 16</td>
<td>1&quot; 25 105 43 36</td>
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<td>E603-20-20</td>
<td>1.1/4&quot;-11.5 20</td>
<td>1.1/4&quot; 32 117 52 46</td>
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<td>2&quot;-11.5 32</td>
<td>2&quot; 50 134 58 60</td>
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</table>

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### JB60MPAPI SERIES

**Male Pipe API**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>API Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size H1</th>
<th>Weight</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
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<td>JB60MPAPI-24-24</td>
<td>1-1/2 - 11.5</td>
<td>1-1/2</td>
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<td>4.49</td>
<td>2.04</td>
<td>51.8</td>
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<td>JB60MPAPI-32-32</td>
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<td>2</td>
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<td>5.63</td>
<td>2.78</td>
<td>70.6</td>
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<td>63.5</td>
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</tbody>
</table>

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### 6032 SERIES

**HYDRAULIC COUPLINGS - 60/JB60**

**NEW PRODUCT**

**JB60MOFS SERIES**

**SAE Male O-Ring Face Seal**

![Image of 6032 Series JB60MOFS couplings]

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
<th>Weight</th>
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<td>JB60MOFS-12-12</td>
<td>3/4-14</td>
<td>3/4</td>
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<td>3.25</td>
<td>82.5</td>
<td>1.26</td>
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**JB60C61S SERIES**  
**SAE Code 61 Flange - Straight**

---

![Diagram of JB60C61S SERIES SAE Code 61 Flange - Straight](image)

---

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Flange Diameter -C-</th>
<th>Weight lbs.</th>
<th>Weight kg</th>
<th>Bulk Pack qty</th>
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</thead>
<tbody>
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<td>JB60C61S-12-12</td>
<td>3/4</td>
<td>3/4</td>
<td>3.35</td>
<td>1.89</td>
<td>1.50</td>
<td>0.81</td>
<td>0.37</td>
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<tr>
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<td>1</td>
<td>3.66</td>
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<td>1.75</td>
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<td>0.60</td>
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<td>1-1/4</td>
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<td>2.00</td>
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<td>15</td>
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</table>

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## 6036 SERIES

**SAE Code 61 Flange - 45° Elbow**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
<th>Weight lbs.</th>
<th>Weight kg</th>
<th>Bulk Pack qty</th>
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<tbody>
<tr>
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<td>JB60C6145-12-12</td>
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<td>19.1</td>
<td>5.04</td>
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<td>29.0</td>
<td>1.50</td>
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<td>6036-1616</td>
<td>JB60C6145-16-16</td>
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<td>38.0</td>
<td>2.00</td>
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</table>

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# JB60C6190 SERIES

**SAE Code 61 Flange - 90° Elbow**

<table>
<thead>
<tr>
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<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<td>3/4</td>
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<td>1</td>
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<td>1-1/4</td>
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<td>31.8</td>
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<td>1-1/2</td>
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<td>91.0</td>
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<td>6039-3232</td>
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<td>2</td>
<td>2</td>
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<td>8.31</td>
<td>211.0</td>
<td>5.31</td>
<td>135.0</td>
</tr>
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</table>

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# 6041 SERIES

## JB60C62S SERIES

**SAE Code 62 Flange - Straight**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Flange Diameter -C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>6041-1212</td>
<td>JB60C62S-12-12</td>
<td>3/4</td>
<td>19.1</td>
<td>3.82</td>
<td>2.05</td>
<td>1.62</td>
<td>0.89</td>
<td>50</td>
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<tr>
<td>6041-1616</td>
<td>JB60C62S-16-16</td>
<td>1</td>
<td>25.4</td>
<td>4.09</td>
<td>2.36</td>
<td>1.87</td>
<td>1.55</td>
<td>36</td>
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<td>JB60C62S-20-20</td>
<td>1-1/4</td>
<td>31.8</td>
<td>5.91</td>
<td>3.54</td>
<td>2.12</td>
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<td>15</td>
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<tr>
<td>6041-2424</td>
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<td>1-1/2</td>
<td>38.1</td>
<td>7.05</td>
<td>4.29</td>
<td>2.50</td>
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<tr>
<td>6041-3232</td>
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<td>5.35</td>
<td>3.12</td>
<td>5.71</td>
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</table>

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## JB60C6245 SERIES
### SAE Code 62 Flange - 45° Elbow

- **Catalog Part Number**: 6043-1212, 6043-1616, 6043-2020, 6043-2424, 6043-3232
- **Descriptive Part Number**: JB60C6245-12-12, JB60C6245-16-16, JB60C6245-20-20, JB60C6245-24-24, JB60C6245-32-32
- **Flange Size**: 3/4, 1, 1-1/4, 1-1/2, 2
- **Hose Inside Diameter**: 19.1, 25.4, 31.8, 38.1, 50.8
- **"A" Dimension Overall Length**: 5.16, 4.96, 6.69, 7.24, 9.02
- **"B" Dimension Cut-Off Length**: 3.11, 3.23, 4.29, 4.69, 6.02
- **"D" Dimension Drop**: 1.26, 1.42, 1.81, 1.97, 2.95
- **Flange Diameter -C-**: 1.62, 1.87, 2.12, 2.50, 3.12
- **Weight**: 0.93, 1.45, 2.58, 3.16, 7.85 lbs., 0.42, 0.66, 1.17, 1.44, 3.56 kg
- **Bulk Pack**: 32, 18, 12, 12, 6

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### Catalog Part Number

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter -C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<tr>
<td>6045-1212</td>
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<td>3/4</td>
<td>4.41</td>
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<td>79.0</td>
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<td>58.0</td>
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<td>JB60C6290-16-16</td>
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<td>1</td>
<td>5.24</td>
<td>133.0</td>
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<td>82.0</td>
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<td>JB60C6290-20-20</td>
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<td>1-1/4</td>
<td>6.06</td>
<td>154.0</td>
<td>4.29</td>
<td>109.0</td>
<td>3.54</td>
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</table>

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## JB60FSPPBSP SERIES

**Female Swivel Parallel Pipe**  
**BSP - 30° Cone - Metric**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Hex Sizes</th>
<th>Weight</th>
<th>Bulk Pack</th>
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<tbody>
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<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
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<tr>
<td>6048-1212</td>
<td>JB60FSPPBSP-12-12</td>
<td>3/4-14</td>
<td>3/4</td>
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<td>3.23</td>
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<tr>
<td>6048-1616</td>
<td>JB60FSPPBSP-16-16</td>
<td>1-11</td>
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<td>3.90</td>
<td>99.0</td>
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<td>JB60FSPPBSP-24-24</td>
<td>1-1/2-11</td>
<td>1-1/2</td>
<td>38.1</td>
<td>4.69</td>
<td>119.0</td>
<td>2.09</td>
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<td>6048-3232</td>
<td>JB60FSPPBSP-32-32</td>
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<td>50.8</td>
<td>5.31</td>
<td>135.0</td>
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<td>59.0</td>
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</tbody>
</table>

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**6049 SERIES**

**JB60FSPPBSP45 SERIES**

Female Swivel Parallel Pipe

**BSP - 30° Cone - 45° Elbow - Metric**

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size</th>
<th>Weight</th>
<th>Bulk Pack</th>
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</thead>
<tbody>
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<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>inch</td>
<td>lbs</td>
<td>kg</td>
</tr>
<tr>
<td>6049-1212</td>
<td>JB60FSPPBSP45-12-12</td>
<td>3/4-14</td>
<td>3/4</td>
<td>19.1</td>
<td>5.16</td>
<td>131.0</td>
<td>3.11</td>
<td>0.77</td>
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<tr>
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<td>JB60FSPPBSP45-16-16</td>
<td>1-11</td>
<td>1</td>
<td>25.4</td>
<td>5.24</td>
<td>133.0</td>
<td>3.11</td>
<td>1.21</td>
<td>0.55</td>
</tr>
<tr>
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<td>JB60FSPPBSP45-20-20</td>
<td>1-1/4-11</td>
<td>1-1/4</td>
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<td>6.57</td>
<td>167.0</td>
<td>4.17</td>
<td>1.61</td>
<td>1.21</td>
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<tr>
<td>6049-2424</td>
<td>JB60FSPPBSP45-24-24</td>
<td>1-1/2-11</td>
<td>1-1/2</td>
<td>38.1</td>
<td>7.13</td>
<td>181.0</td>
<td>4.57</td>
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<td>6049-3232</td>
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</table>

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### JB60FSPPBSP90 SERIES
**Female Swivel Parallel Pipe**
**BSP - 30° Cone - 90° Cone - Metric**

#### 6050 SERIES

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Thread</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Hex Size H1</th>
<th>Weight lbs.</th>
<th>Weight kg</th>
<th>Bulk Pack qty</th>
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<tbody>
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<td>JB60FSPPBSP90-12-12</td>
<td>3/4-14</td>
<td>3/4</td>
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<td>6050-1616</td>
<td>JB60FSPPBSP90-16-16</td>
<td>1-11</td>
<td>1</td>
<td>25.4</td>
<td>5.31</td>
<td>135.0</td>
<td>3.19</td>
<td>2.48</td>
<td>3.46</td>
<td>1.61</td>
</tr>
<tr>
<td>6050-2020</td>
<td>JB60FSPPBSP90-20-20</td>
<td>1-1/4-11</td>
<td>31.8</td>
<td>6.06</td>
<td>3.66</td>
<td>93.0</td>
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<td>1.97</td>
</tr>
<tr>
<td>6050-2424</td>
<td>JB60FSPPBSP90-24-24</td>
<td>1-1/2-11</td>
<td>38.1</td>
<td>6.14</td>
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<td>91.0</td>
<td>3.46</td>
<td>8.80</td>
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<td>JB60FSPPBSP90-32-32</td>
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<td>50.8</td>
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<td>5.31</td>
<td>5.51</td>
<td>73.0</td>
<td>8.05</td>
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</table>

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## HYDRAULIC COUPLINGS - 60/JP60

### 6060 SERIES

#### JB60CATS SERIES

Caterpillar Style Flange - Straight

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>Flange Diameter</th>
<th>Weight</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
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<td>inch mm</td>
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<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>lbs</td>
<td>kg</td>
</tr>
<tr>
<td>6060-1012</td>
<td>JB60CATS-12-12</td>
<td>3/4 19.1</td>
<td>3/4 19.1</td>
<td>3.82 97.0</td>
<td>2.05 52.0</td>
<td>1.62 41.2</td>
<td>1.00</td>
<td>0.45</td>
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<td>JB60CATS-16-16</td>
<td>1 25.4</td>
<td>3/4 19.1</td>
<td>4.44 112.7</td>
<td>2.51 63.8</td>
<td>1.87 47.6</td>
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<td>0.58</td>
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<tr>
<td>6060-1016</td>
<td>JB60CATS-16-16</td>
<td>1 25.4</td>
<td>1 25.4</td>
<td>4.09 104.0</td>
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<td>JB60CATS-20-16</td>
<td>1-1/4 31.8</td>
<td>1 25.4</td>
<td>5.19 131.9</td>
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<tr>
<td>6060-2020</td>
<td>JB60CATS-20-20</td>
<td>1-1/4 31.8</td>
<td>1-1/4 31.8</td>
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<td>3.54 90.0</td>
<td>2.12 53.9</td>
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<td>1.17</td>
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<tr>
<td>6060-2420</td>
<td>JB60CATS-24-20</td>
<td>1-1/2 38.1</td>
<td>1-1/4 31.8</td>
<td>5.81 147.6</td>
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<td>6060-2424</td>
<td>JB60CATS-24-24</td>
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<td>1-1/2 38.1</td>
<td>7.05 179.0</td>
<td>4.29 109.0</td>
<td>2.50 63.5</td>
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<td>2 50.8</td>
<td>7.56 192.0</td>
<td>5.35 136.0</td>
<td>3.12 79.3</td>
<td>5.80</td>
<td>2.63</td>
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JB60CAT45 SERIES
Caterpillar Style Flange - 45° Elbow

**Catalog Part Number** | **Descriptive Part Number** | **Flange Size** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Flange Diameter-C-** | **Weight** | **Bulk Pack**
---|---|---|---|---|---|---|---|---|---
6062-1212 | JB60CAT45-12-12 | 3/4 | 19.1 | 3/4 | 19.1 | 5.16 | 131.0 | 3.11 | 79.0 | 1.26 | 32.0 | 1.62 | 41.2 | 1.04 | 0.47 | 32
6062-1616 | JB60CAT45-16-16 | 1 | 25.4 | 1 | 25.4 | 4.96 | 126.0 | 3.23 | 82.0 | 1.42 | 36.0 | 1.87 | 47.6 | 1.70 | 0.77 | 18
6062-2020 | JB60CAT45-20-20 | 1-1/4 | 31.8 | 1-1/4 | 31.8 | 6.69 | 170.0 | 4.29 | 109.0 | 1.81 | 46.0 | 2.12 | 53.9 | 2.77 | 1.25 | 12
6062-2424 | JB60CAT45-24-24 | 1-1/2 | 38.1 | 1-1/2 | 38.1 | 7.24 | 184.0 | 4.69 | 119.0 | 1.97 | 50.0 | 2.50 | 63.5 | 3.36 | 1.53 | 12
6062-3232 | JB60CAT45-32-32 | 2 | 50.8 | 2 | 50.8 | 9.02 | 229.0 | 6.02 | 155.0 | 2.95 | 75.0 | 3.12 | 79.3 | 6.88 | 3.12 | 6

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**6064 SERIES**

**JB60CAT90 SERIES**
Caterpillar Style Flange - 90° Elbow

<table>
<thead>
<tr>
<th>Catalog Part Number</th>
<th>Descriptive Part Number</th>
<th>Flange Size</th>
<th>Hose Inside Diameter</th>
<th>&quot;A&quot; Dimension Overall Length</th>
<th>&quot;B&quot; Dimension Cut-Off Length</th>
<th>&quot;D&quot; Dimension Drop</th>
<th>Flange Diameter - C-</th>
<th>Weight</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>6064-1212</td>
<td>JB60CAT90-12-12</td>
<td>3/4</td>
<td>19.1</td>
<td>4.41</td>
<td>112.0</td>
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<td>79.0</td>
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<td>0.49 32</td>
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<td>JB60CAT90-16-12</td>
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<td>25.4</td>
<td>4.33</td>
<td>109.9</td>
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<td>61.0</td>
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⚠️ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
FIELD ATTACHABLE (REUSABLE) COUPLINGS - FOR SAE 100R5, J1402 TYPE AII, FMVSS 106 HOSES

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<td>JFR5MP</td>
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*Federal law requires registration with the Department of Transportation (DOT) for anyone producing air brake hose assemblies with swaged or crimp fittings. The Jason 5050 Series hoses have been tested and meet SAE 100R5 and J1402 Type All/FMVSS 106 requirements with the Jason 75 Series field attachable (reusable) couplings. Sizes 16 (7/8" bore) and larger are not included in the SAE J1402/FMVSS 106 standards.*
### 7500 SERIES

**JFR5FS SERIES**

*Female Swivel JIC 37° Flare*

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**JFR5FS45 SERIES**

**Female Swivel JIC 37° Flare**

**45° Elbow**

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## HYDRAULIC COUPLINGS - 75/JFR5

### 7504 SERIES

**Female Swivel JIC 37° Flare - 90° Elbow**

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## JFR5FA SERIES

**Female Swivel SAE 45° Flare**

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![Image of JFR5FA Series coupling](image)

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**Catalog Part Number** | **Descriptive Part Number** | **Thread** | **Hose Inside Diameter** | **"A" Dimension Overall Length** | **"B" Dimension Cut-Off Length** | **"D" Dimension Drop** | **Hex Sizes** | **Weight** | **Bulk Pack** |
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### 7520 SERIES

**JFR5MP SERIES**

**Male Pipe NPTF**

#### Catalog

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</table>

*Standard Pack is 1.

We disclaim any liability for use of our products in applications other than which they are designed.

**NOTE:** Only approved field attachable (reusable) screw together couplings can be used on this hose for compliance with DOT FMVSS 106 requirements. No crimp couplings may be used on any airbrake hose without the end assembler testing, registering and complying with DOT.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
FIELD ATTACHABLE (REUSABLE) COUPLING ASSEMBLY PROCEDURE

1. Place socket only (removing insert if it is already screwed into socket) securely in vise to allow insertion into the hose.

2. The hose to be assembled should be cleanly cut square with minimal burrs on the outside and clean on the inside. A slight chamfering of the hose’s inner tube is good practice to make installation easier.

3. Do not oil the socket during this stage. The hose tube can be lubed with suitable oil or it can be lubed after inserted in socket. (Figure 1)

4. Turn the hose into the socket restrained in the vise counterclockwise until fully bottomed out (Figure 2). Then turn the hose clockwise 1/4-to-1/2 turn.

5. Generously lubricate the inside of the hose (if not done earlier), including the threads that engage the insert. Likewise, lube the insert mating threads with the same suitable oil. (Figures 3 & 4)

6. Carefully push the insert into the socket/hose assembly while turning the insert clockwise to engage the threads. (Figure 5)

7. Using a suitable wrench on the insert hex, turn until completely threaded. Do not overtighten the threads past fully engaged. Damage to the components can occur if over-torqued, especially on smaller sizes. (Figure 6)
**S.T.A.M.P.E.D. INFORMATION REQUEST FORM**

<table>
<thead>
<tr>
<th>COMPANY:</th>
<th>FAX:</th>
</tr>
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<tbody>
<tr>
<td>CONTACT:</td>
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<tr>
<td>ADDRESS:</td>
<td>P.O.#:</td>
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<td>TERMS:</td>
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### Size

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<tr>
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<th>OUTSIDE DIAMETER</th>
<th>OVERALL LENGTH</th>
<th>TOLERANCE</th>
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### Temperature

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<thead>
<tr>
<th>MATERIAL CONVEYED</th>
<th>ENVIRONMENTAL TEMPERATURE</th>
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<tbody>
<tr>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>°F /°C</td>
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<tr>
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<td>MAXIMUM</td>
</tr>
<tr>
<td>°F /°C</td>
<td>°F /°C</td>
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### Application

<table>
<thead>
<tr>
<th>Type and Flow Rate</th>
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### Material/Media

<table>
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<tr>
<th>INTERNAL MEDIA:</th>
<th>EXTERNAL ENVIRONMENT:</th>
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### Pressure

<table>
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<tr>
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<th>SPIKES</th>
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<tr>
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<td>Inches of Hg/BAR</td>
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### Ends

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<th>STYLE/MATERIAL</th>
<th>SIZE</th>
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<th>HOLE ALIGNMENT</th>
<th>ORIENTATION</th>
<th>ATTACHMENT METHODS</th>
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### Delivery

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### Special Requirements:

---

**JASON REPRESENTATIVE**

**DATE**

**CUSTOMER**

**DATE**

---

[11x472] GENERAL INFORMATION

[36x742] INFORMATION

[46x720] S.T.A.M.P.E.D. INFORMATION REQUEST FORM

[48x693] COMPANY: FAX:

[48x666] CONTACT: EMAIL:

[48x640] ADDRESS: P.O.#:

[48x613] PHONE: TERMS:

[61x571] SIZE

[150x584] INSIDE DIAMETER OUTSIDE DIAMETER OVERALL LENGTH TOLERANCE

[57x517] TEMPERATURE

[192x538] MATERIAL CONVEYED ENVIRONMENTAL TEMPERATURE

[62x517] MINIMUM MAXIMUM MINIMUM MAXIMUM

[61x517] °F /°C °F /°C °F /°C °F /°C

[62x502] APPLICATION

[66x517] Type and Flow Rate

[61x466] MATERIAL/MEDIA

[301x432] MATERIAL CONVEYED INTERNAL MEDIA: EXTERNAL ENVIRONMENT:

[61x466] PRESSURE

[152x466] MAXIMUM WORKING PRESSURE SPIKES VACUUM

[140x417] °F /°C °F /°C Inches of Hg/BAR

[61x355] END STYLE/MATERIAL SIZE THREADS/BOLTS HOLE ALIGNMENT ORIENTATION ATTACHMENT METHODS CAPPED

[61x299] DELIVERY

[140x282] 1 Y N 2 Y N


[43x134] SPECIAL REQUIREMENTS:

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[www.Jasonindustrial.com]
## CRIMPING EQUIPMENT & ACCESSORIES

<table>
<thead>
<tr>
<th>Series</th>
<th>Page</th>
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<tbody>
<tr>
<td>JCD100S-T420</td>
<td>174</td>
</tr>
<tr>
<td>Portable Service Hose Crimper</td>
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<tr>
<td>JCD165M-T420</td>
<td>176</td>
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<tr>
<td>Hose Crimper</td>
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<tr>
<td>JCD205M-WB</td>
<td>178</td>
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<tr>
<td>Hydraulic Hose Crimper</td>
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<tr>
<td>JCC-200</td>
<td>180</td>
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<tr>
<td>General Production Hose Crimper</td>
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<tr>
<td>JIC340 - NEW!</td>
<td>182</td>
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<tr>
<td>General Production Hose Crimper</td>
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<tr>
<td>JHS</td>
<td>184</td>
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<tr>
<td>JHS-150, -300, -500 Hose Saws and Blades</td>
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<tr>
<td>PAG - NEW!</td>
<td>186</td>
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<tr>
<td>Polyethylene Armor Guard</td>
<td></td>
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</table>
The JCD100S-T420 Portable Series hose crimper with the T420 Micrometer Style Adjustment and 35 tons of crimping force has the capability to crimp hoses up to 1” 2 wire and 3/4” 4SP.

**T420 Flex Caged Die Sets & Flex Cages**
- Flex caged dies sets for heavy duty environments.
- Eliminates need to replace broken screws and springs.

**Accurate and Repeatable**
The “MicroSite” indicator on the T420 micrometer allows the operator to make accurate and fast repeatable crimps.

**Engineered to Accommodate Your Needs**
- Hose capacity up to 1” 2 wire and 3/4” 4SP.
- T420 micrometer is fully adjustable for a precise crimp.
- Available Hand Pump, Pneumatic Pump 10,000 psi or Multi-Electric Pump.
- Crimper position can be adjusted for optimum crimping position or dropped to vertical position for better balance when the crimper is being carried.
- Removable Pusher and 2 piece T420 rubber caged die set make accurate fitting positioning easy.
- JCD100S-T420 Portable Crimper weights only 47 lbs.
- Optional Die Storage Shelf keeps dies organized and readily available.
- Base mounting holes allow the crimper to be bench or truck bed mounted if required.

**Durable, Reliable Design = Profitability**
- 35 Tons of crimping force.
- Open design to provide excellent operator visibility.
- Complete range of dies and accessories available.

**Light Weight Portable Unit**
Truly “portable” crimper can be carried to almost any location where service is required.

**CRIMPX Die Lubricant Oil**
- Extends die life and performance.
- Easy to use and hands stay clean.

**WARNING:** This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
The JCD100S-T420 Portable Series hose crimper paired with either a Hand Pump, Pneumatic Pump or Multi-Electric Pump make the perfect combination for portable crimping requirements.

**T420 Micrometer (Included)**
P/N: 103085

**Hand Pump** (Optional) P/N: VHP-10-25

**Pneumatic Pump** (Optional) P/N: VAP-10-100

**Multi-Electric Pump** (Optional)

**T420/D Series Die Removal Magnet** (Included) P/N: 104679

**CRIMPX Die Lubricant: Oil**
4 oz bottle with dauber cap (Included) P/N: 103886

**CRIMPX Die Lubricant: Grease**
4 oz can with brush (Optional) P/N: 104162

**Die Storage Shelf** (Optional) P/N: 101431

---

**Powerful 35 Ton**
Hydraulic Cylinder

**Removable Pusher**

**T420 Pressure Plate**

**T420 Flex Caged Die Series**

**Crimper Position Can Be Adjusted**

**Mounted on a convenient carrying frame**

**TECHNICAL DATA**

- **Crimping Force:** 35 Ton
- **Crimping Capacity:** 1” - 2 Wire 3/4” 4SP
- **Dimensions - L:** 12-1/2” x W: 12-1/2” x H: 24”
- **Weight:** 47 lbs.
- **Micrometer Style Adjustment:** T420
- **Die Series:** JCD160-T420 Flex Caged
- **Available Pumps:** Hand Pump Pneumatic Pump Multi-Electric Pump

---

**WARNING:** This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
The JCD165M-T420 Series crimper with micrometer style adjustment and 62 tons of cramping force has the capability to crimp 4 spiral hoses up to 1-1/4”.

**ENGINEERED TO ACCOMMODATE YOUR NEEDS**

- Hose capacity up to 1-1/4” 4 spiral.
- Automatic Shut-off for precise crimps.
- Removable pusher and two piece rubber cage crimp die set make accurate fitting positioning easy.
- Built-in adjustable retraction stop limits ram retraction to only the amount required to remove the hose and coupling saving time on multiple crimps.
- Optional die storage shelf keeps dies organized and readily available.
- Optional flexible built-in work lamp to illuminate work area for better visibility.
- Base mounting holes allow crimper to bench or truck bed mounted if required.

**DURABLE RELIABLE DESIGN = PROFITABILITY**

- 62 tons of cramping force.
- Open design to provide excellent operator visibility.
- Complete range of dies and accessories available.

**WARNING**: This product can expose you to chemicals including DNP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
CRIMPING EQUIPMENT & ACCESSORIES

TECHNICAL DATA

| SPECIFICATION                          | T420 Flex Cage | 62 Tons | Up to 1-1/4” 4 Spiral | 1HP / 110V / 1phz (Standard) | 2HP / 220V / 1phz (Optional) | T-420 Adjustable Micrometer | L: 24” x W: 12.5” x H: 22.5” | 140 lbs. | 1 US Gallon | ISO 46 Hydraulic Oil | Optional | P/N:101431 (Optional) | P/N:100954 (Included) | P/N: 103886 (Included) |
|----------------------------------------|----------------|---------|----------------------|----------------------------|----------------------------|------------------------------|----------------------------|--------------------------|-------------|----------------|----------------------|----------|----------------------|----------------------|-------------------------|

WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
CRIMPING EQUIPMENT & ACCESSORIES

CRIMPERS

JCD205M-WB

HYDRAULIC HOSE CRIMPER

Die Stack with EN98-032 Die Series
1. Large Pusher Plate.
2. EN98-032 Die Series (Not included).

Die Stack with EN98-020 Die Series
1. Bent Tube Pusher Plate.
3. EN98-020 Die Series (Not included).
4. Cone Insert.

ENGINEERED TO ACCOMMODATE YOUR NEEDS

• Hose capacity up to 1-¼” 6SP (with standard dies EN98-020, and up to 2” 6-wire hose (with optional EN98-032 die series).
• An infinitely adjustable micrometer and electronic shut off switch make accurate crimps.
• Inverted die positioning gives good visibility allowing the operator to accurately position the fitting prior to making the final crimp.
• Removable pusher and inverted die position make accurate fitting positioning easy.
• Built-in adjustable retraction stop limits ram retraction to only the amount required to remove the hose and coupling saving time on multiple crimps.
• Flexible built-in work lamp to illuminate work area for better visibility.
• Pneumatic remote switch can be operated with hand or foot.
• Base mounting holes allow the crimper to be bench or truck bed mounted if required.

DURABLE, RELIABLE DESIGN = PROFITABILITY

• 80 Tons of crimping force.
• Open design to provide excellent operator visibility.
• Complete range of dies and accessories available.

WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
The JCD205M-WB is a unique vertical crimper with its powerful 80 ton hydraulic cylinder comes packed with functions and features that enable you to quickly and accurately crimp all of your hose assemblies up to 2” 6 wire hose (with EN98-032 Die Series).

**Metric Micrometer (Included)**
P/N: 101587

**Pneumatic Pendent Switch (Included)**
P/N: 101349

**D205/D206 Coupling Stop (Included)**
P/N: 101631

**CRIMPX Die Lubricant (Included)**
Grease 4 oz can with brush
P/N: 104162

**Built-in flexible 24" Work Lamp (Included)**
P/N: 1668-02

**(5) Screws for die series EN98-020 (Included)**
P/N: EN84-115

**(5) Springs for die series EN98-020 (Optional)**
P/N: LL 022D 01

**D205/D206 Die Storage Shelf (Optional)**
P/N: 101625

**D205/D206 Mobile Cart (Optional)**
P/N: 101956

**Powerful 80 Ton Hydraulic Cylinder**

**Built-in Work Lamp**

**Removable Pusher**

**Easy Adjustable Micrometer for an accurate crimp**

**Adjustable Retraction Stop**

**2HP/220V/Single Phase Pump For Fast Crimps**

**Main Power Switch**

**Electrical Enclosure**

**Reservoir**

**Pneumatic Remote Switch**

**TECHNICAL DATA**

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<th>80 Ton</th>
<th>160 Ton</th>
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<td>EN98-020 dies</td>
<td>EN98-032 dies</td>
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<tr>
<td>1-1/4&quot; - 1-2 Wire</td>
<td>2&quot; - 1-2 Wire</td>
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<tr>
<td>1-1/4&quot; - 4 SP</td>
<td>2&quot; - 4 SP</td>
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<tr>
<td>1-1/4&quot; - 6 SP</td>
<td>2&quot; - 6 SP</td>
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<tr>
<td>Dimensions - L: 32&quot; x W: 17&quot; x H: 29&quot;</td>
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<tr>
<td>Weight: 305 lbs.</td>
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<tr>
<td>Power: 2HP/220V/1 Phase (Standard) 1HP/110V/1 Phase (Optional)</td>
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<td>Micrometer Style Adjustment</td>
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<td>Die Series: EN98-020 / EN98-032</td>
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<tr>
<td>Reservoir Capacity: 1 US Gallon</td>
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<tr>
<td>Oil Type: ISO 46 Hydraulic Oil</td>
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</table>

**WARNING:** This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)
CRIMPING EQUIPMENT & ACCESSORIES

JCC-200

GENERAL PRODUCTION HOSE CRIMPER

MICROMETER ADJUSTABLE AND EASY TO USE!

ENGINEERED TO ACCOMMODATE YOUR NEEDS

- Hose capacity up to 2-½" 6 wire hydraulic and up to 3" industrial hose.
- Maximum head opening without dies 6.30" (160mm).
- Micrometer Style Adjustment makes precise settings of crimp diameters simple.
- Foot Switch permits dies to be "jogged" into position and keeps both hands free.
- Easy grease maintenance through 8 grease fittings.
- Protective Master Die Foam Pads between the die fingers prevent debris from dropping into the critical surfaces and causing permanent damage.
- Reservoir mounting holes allow the crimper to be bench or truck bed mounted if required.

DURABLE, RELIABLE DESIGN = PROFITABILITY

- 340 Tons of crimping force.
- 55 HP motor wired at 230 volts 3 phase with gear pump for fast crimps (standard).
- Complete range of dies and accessories available.

WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov
The features found on the JCC200 Series hose crimper and the accessories included make it the best value of any crimper in its class.

99mm Quick Change Tool (Included) P/N: 102571

Foot Pedal Assembly (Included) P/N: 104118

Manual Back Stop (Included) P/N: MBS-60

Adapter Die Set 130mm OD to 99mm ID (Included) P/N: 101575

Mini Grease Gun w/ CRIMPX Lubricant 3 oz mini grease tube (Included) P/N: 103889

Die Rack 9 Station Die Holders (Included) P/N: 102616-99mm

Micrometer Style Adjustment

Crimper Stand 16 Station Die Holders (Optional) P/N: 101247-99

The 5 HP motor delivers the power needed to get the job done quickly.

Built-in die storage panel keeps frequently used die sets readily available

Small footprint for minimum use of space

CRIMPING EQUIPMENT & ACCESSORIES

TECHNICAL DATA

Crimping Force: 340 Ton

Max. Crimping Capacity:
- 2SP: 2-½"
- 4SP: 2-½"
- 6SP: 2-½"

Max. Industrial Crimping Capacity: 3"

Dimensions: L: 20" x W: 29" x H: 32"

Weight: 635 lbs.

Power:
- 5HP / 230V / 3 Phase (Standard)
- 5HP / 440V / 3 Phase (Optional)
- 5HP / 230V / 1 Phase (Optional)
- 1HP / 12VDC (Optional)
- 1HP / 24VDC (Optional)

Die Series: 99S / 130S

Adjustability: Micrometer

Opening Without Dies: 160mm / 6.30"

Master Die Inside Diameter: 130mm / 5.12"

Master Die Travel: 38mm / 1.5"

Reservoir Capacity: 8 US Gallons

Oil Type: ISO 46 Hydraulic Oil

WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov

www.JasonIndustrial.com 181
CRIMPING EQUIPMENT & ACCESSORIES

JIC340

GENERAL PRODUCTION HOSE CRIMPER
WITH InfoCrimp™ CONTROLLER

WARNING:
This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov

FUNCTIONALITY:
- Easy to use interface, on a 10-inch color capacitive touch screen.
- Daily reports*.
- Remote downloading of updated crimp specifications*.
- Save thousands of favorite crimp details.
- Security - end-to-end data encryption from tablet to cloud.
- Operators only have access to essential crimp applications.

OPERATIONALLY:
- Bluetooth calipers provided with each crimper.
- User accounts track operations to individual team members.
- Remote troubleshooting*.
- In-depth training and tutorial guides.
- Video support*.

LONGEVITY:
- Preventative maintenance alerts.
- Full controller backup to the cloud*.
- Future enhancements through cloud updates*.

*Needs connection to Wi-Fi.

TECHNICAL DATA

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<th>Crimping Force: 340 Ton</th>
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<tbody>
<tr>
<td>Max. Crimping Capacity:</td>
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<tr>
<td>2SP: 2-½”</td>
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<td>4SP: 2-⅜”</td>
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<tr>
<td>6SP: 2-⅜”</td>
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<tr>
<td>Max. Industrial Crimping Capacity: 3”</td>
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<tr>
<td>Weight: 635 lbs.</td>
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<tr>
<td>Power: 7.5HP / 230V / 3 Phase (Standard)</td>
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<tr>
<td>7.5HP / 440V / 3 Phase (Optional)</td>
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<td>5HP / 230V / 1 Phase (Optional)</td>
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<tr>
<td>Die Series: 99S / 130S</td>
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<tr>
<td>Adjustability: Inch / Metric</td>
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<tr>
<td>Opening Without Dies: 160mm / 6.30”</td>
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<tr>
<td>Master Die Inside Diameter:</td>
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<tr>
<td>130mm / 5.12”</td>
</tr>
<tr>
<td>Master Die Travel: 38mm / 1.5”</td>
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<tr>
<td>Reservoir Capacity: 8 US Gallons</td>
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<tr>
<td>Oil Type: ISO 46 Hydraulic Oil</td>
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</table>
The features found on the JIC340 Series hose crimper and the accessories included make it the best value of any crimper in its class.

- **99mm Quick Change Tool (Included)** P/N: 102571
- **CC-Foot Switch (Included)** P/N: CC-FOOTSWITCH
- **Manual Back Stop (Included)** P/N: MBS-60
- **Electronic Back Stop (Optional)** P/N: EBS-60
- **Adapter Die Set 130mm OD to 99mm ID (Included)** P/N: 101575
- **Mini Grease Gun w/ CRIMPX Die Lubricant 3 oz mini grease tube (Included)** P/N: 103889
- **Die Rack 9 Station Die Holders (Optional)** P/N: 102616-99mm
- **Crimper Stand 16 Station Die Holders (Optional)** P/N: 101247-99
- **Verified Crimp Accuracy**
- **Save Thousands of Favorite Crimp Details**
- **View Operation History**
- **Be Alerted to Preventative Maintenance**

**WARNING:** This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
JHS-150/JHS-300/JHS-500

These rugged, JHS-150/JHS-300/JHS-500 dependable saws offer features not found on other saws. Choose the one with the capacity and features which meet your individual requirements.

ENGINEERED TO ACCOMMODATE YOUR NEEDS

• **Mister Hose Assembly (Optional) (P/N: 103172)**
  Available only for the JHS-300 and JHS-500 Hose Saws. The Mister sprays a fine mist of air tool oil on the saw blade for longer blade life and cleaner cuts.

• **Hose Channel System (Optional) (P/N: 103073)**
  Available in 5 foot sections only for the JHS-300 and JHS-500 Hose Saws. The Hose Channel System both measures and supports the hoses up to 2 inch diameter as they are being cut.

• **Counter (Included) (P/N: 1895T42)**
  Available only for the JHS-300 and JHS-500 Hose Saws. The Counter makes it easy to keep track of the number of cuts made and is easily reset to zero.

• **Hose Helper (Included) (P/N: 103297)**
  Available only for the JHS-300 and JHS-500 Hose Saws. The Hose Helper attachment prevents the hose from being drawn back during a cut and gives the operator the ability to more precisely control the cut length.

DURABLE, RELIABLE DESIGN = PROFITABILITY

• Powerful motors (Available different configurations) to make cutting fast.
• Available different types of blades to meet your requirements and it is easy to change blades.
• Available Vacuum Port only for the JHS-300 and JHS-500 Hose Saws.
• Hose Bending Pins prevent the blade from binding during a cut (included in all models).
• Base mounting holes allow the hose saw to be bench or truck bed-mounted if required.

WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
NOTE: The edges of the blade may appear to be dull. This does not mean that the blade is not effective. As long as the blade is still giving clean cuts, do not replace the blade.

NOTE: New blades must be properly conditioned to assure long life and clean cuts. For the first ten cuts, feed the blade slowly through a medium size hose. This will properly break in and condition the blade for long life.

*NOTE: Pay close attention to the direction of rotation marked on the blade - it is the opposite of most blades of this type.

*Serrated Blade (General Purpose): Is recommended to cut multi-spiral hose.

Scalloped Blade (General Purpose): Is recommended to cut multi-spiral hose.

Double Bevel Blade with SS Slots: Is recommended for braided hose with minimum debris during the cut.

### TECHNICAL DATA

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<th>Hose Saw Model</th>
<th>Blade Type</th>
<th>Blade Size</th>
<th>Durometer</th>
<th>Arbor Size</th>
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</table>

**WARNING:** This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information visit www.P65WARNINGS.ca.gov
**Application:** Used to protect hose assemblies from external mechanical damage

**Construction Material:** Polyethylene (black)

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*Order in carton quantities only. No cut lengths
We disclaim any liability for use of our products in applications other than which they are designed.

WARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information visit www.P65WARNINGS.ca.gov
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1 inch = 25.4 millimeters

### VACUUM CONVERSION TABLE FOR WATER (SUCTION)

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**TEMPERATURE CONVERSION**

Look up reading in middle column (shaded). If in degrees Centigrade, read Farenheit equivalent in right-hand column; if in Farenheit degrees, read Centigrade equivalent in left-hand column.

\[^\circ F = (^\circ C \times 1.8) + 32 \quad ^\circ C = (^\circ F - 32) \times 0.5556\]

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<th>C</th>
<th>F</th>
<th>C</th>
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Jason Industrial is pleased to provide an easy to use downloadable Mobile App enabling users coupling specifications for the hose products we offer. Our App, Jason MyCrimp provides a fast, easy to use tool for obtaining important information to ensure safety by using the right coupling and hose together.

Our App, enables you to search by Hose, Coupling type or crimping equipment to obtain the right specification to ensure you are safely following the right procedures.

Our Application features include:

- Online/Offline Functionality—however, when online, the application downloads the most current information
- Complete up to date specifications on your smartphone (iOS and Android)
- Search by Hose, Coupling Type, Hose Size or Crimper

Jason Industrial Hydraulic Hose, Couplings and Crimping Equipment is now available in the Americas in:

- 1 & 2 Wire Braid Hose and 38 Series of Couplings
- 4 Spiral Hose and 35 Series of Couplings
- 4 and 6 Spiral Hose and 19 Series of Couplings
Guidelines - Liability

Jason Industrial® products are part of an engineered system which must be assembled and used in accordance with Jason instructions and limitations. Jason hose, couplings and crimping machines are a reliable assembly system designed by our engineering group. The use of non-Jason components (hose, couplings, equipment) may produce assemblies that will not meet the rated performance. Failure to follow Jason guidelines could lead to premature hose failures resulting in property damage, serious injury or death.

Jason’s limited warranty shall only apply if the customer uses the hose, hose fittings and crimping equipment specifically approved by Jason’s engineers.

Jason will not be responsible when interchanging hose and/or couplings with hose and/or couplings with any other manufacturer. Jason’s liability ends and customer’s begins when data is ignored or altered and products, other than Jason’s are assembled together.

Jason Industrial disclaims any responsibility or liability for any crimped hose assemblies that have NOT been made exclusively from genuine Jason hose, hose fittings and approved equipment. This is in conformance with current Jason Industrial guidelines for each specific hose assembly.

Product liability responsibility for such hose assemblies become the personal responsibility of the assembler or the company endorsing these practices.

Proper End Fitting - Care must be taken to ensure proper compatibility exists between the hose and coupling selected based on the manufacturers’ recommendation substantiated by testing to industry standards such as SAE J517.

Critical Points

- The data supplied with the Jason crimper was developed after extensive testing with Jason hose and couplings.

- The data that Jason supplies only pertains to products bearing the Jason name and catalog part number.

- Jason couplings, used with other manufacturer’s hose, will not necessarily produce an acceptable assembly. Hose styles with identical SAE specs, for instance, are not necessarily the same when it comes to performance with Jason couplings.

- Hose compatibility with various materials is a reference only. The purchaser is responsible for the verification of sustainability. Consult Jason if there is any doubt.

- Jason crimpers can only be used to crimp approved Jason hose and couplings.

- Minimum burst pressure ratings listed in our catalog are for reference and design purpose only. Minimum burst pressure ratings give no idication that the product should be used above the indicated rated working pressure.

Current Crimp Specifications:

Jason Industrial’s recommended crimping specifications are available online at www.jasonindustrial.com or you can scan the Q.R. code below to be taken directly to them.
HOSE CARE, MAINTENANCE & STORAGE

Hose has a limited life and the use must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

General instructions are also described for the proper storage of hose to minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber products. Proper storage conditions can enhance and extend substantially the ultimate life of hose products.

SAFETY WARNING: Failure to properly follow the manufacturer’s recommended procedures for the care, maintenance and storage of a particular hose might result in the failure to perform in the manner intended and might result in possible damage to property and serious bodily harm.

General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as not to subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling the large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

General Test & Inspection Procedures

An inspection and hydrostatic test should be made at periodic intervals to determine if a hose is suitable for continued service. A visual inspection of the hose should be made for loose covers, kinks, bulges, or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of movement of the hose from the couplings, the hose should be removed from service. The periodic inspection should include a hydrostatic test for one minute at 150% of the recommended working pressure. An exception to this would be the woven jacketed fire hose. During the hydrostatic test, the hose should be straight, not coiled or in a kinked position. Water is the usual test medium and, following the test, the hose may be flushed with alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained.

Safety Warning: Before conducting any pressure tests on hose, provision must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct any pressure tests.

1. Air or any other compressible gas must never be used as the test medium because of the explosive action of the gas should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.

2. Air should be removed from the hose by bleeding it through an outlet valve while the hose is being filled with the test medium.

3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10’ (3m) intervals along its length to keep the hose from "whipping" if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.

4. If liquids such as gasoline, oil, solvent, or other hazardous fluids are used as a test fluid, precautions must be taken to protect against fire or other damage should a hose assembly fail and the test liquid be sprayed over the surrounding area.

Storage

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on the size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom.

Since hose products vary considerably in size, weight and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products and adequate protection from them should be provided.

Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humidity conditions in excess of 70%.

The ideal temperature for storage of rubber product ranges from 50° to 70°F (10-21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration.

Hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health’s upper limit of 0.10 ppm. Exposure to direct or reflected sunlight—even through windows—should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free from dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

* Woven jacket fire hose should be tested in accordance with the service test provisions contained in the current edition of the National Fire Protection Association Bulletin No. 1962 - Standard for the Care, Use and Service Testing of Fire Hose.

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All prices, terms and conditions of sale are subject to change without prior notice. Buyer agrees to all terms and conditions of seller upon the placement of any and all purchase orders.

**GENERAL**

- All orders are subject to a minimum charge of $100.00
- All claims must be made within seven (7) days of receipt of merchandise.
- The company reserves the right at all times to reject any and all orders for any reason.

**PAYMENT TERMS**

- Net 30 days (to approved and qualified accounts)
- We reserve the right to hold shipments against past due accounts.
- Seller may require full or partial payment in advance if, in its sole judgement, the financial condition of the buyer does not justify the terms specified.
- All past due accounts are subject to a late payment charge of 1.5% per month, or maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney’s fees
- Returned checks are subject to a minimum $50.00 charge.

**ACCEPTANCE, ALTERATION AND CANCELLATION OF ORDERS**

Orders for other than standard items or standard lengths may not be cancelled after purchase has been committed, production scheduled or any costs incurred.

**RETURN OF DEFECTIVE MERCHANDISE**

Defective or failed material to be held at the buyer’s premises until authorization has been granted by seller to return or dispose of merchandise. Merchandise to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon our inspection based on prices at time of purchase.

**LIMITED WARRANTY**

The merchandise or products sold or distributed by Jason Industrial are warranted to our customers to be free from defects in material and workmanship at the time of shipment by us. All warranty claims shall be made within 90 days after we have shipped the merchandise. Our liability hereunder is limited to the purchase price of any merchandise proved defective, or, at our option, to the replacement of such merchandise upon its authorized return to us.

**MERCHANDISE SHIPPED IN ERROR**

Buyer must notify seller immediately on any merchandise shipped in error. Upon notification, merchandise is to be returned to seller either via truck on a Freight Collect basis, via carrier of our choice, or via UPS on a Freight Prepaid basis. Buyer will be reimbursed for cost of merchandise, plus any additional freight which may have been incurred due to shipping error.

**MERCHANDISE ORDERED IN ERROR**

Standard packaged merchandise only may be returned, provided that the merchandise is in the original buyer’s possession not more than 30 days. If merchandise is accepted for return, merchandise must be returned Freight Prepaid, and buyer will be charged a minimum of 15% rehandling charge, plus a chargeback for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any merchandise that is specifically manufactured to meet the buyer’s requirement of either specifications or large quantity.

**DELIVERY, DAMAGES, SHORTAGES**

Delivery to the initial common carrier shall constitute the delivery to the buyer. Our responsibility, insofar as transportation risks are concerned, ceases upon the delivery of the merchandise in good condition to such a carrier, and all the merchandise shall be shipped at the buyer’s risk.

**GOODS DAMAGED IN SHIPMENT**

Upon receipt of shipment, any evidence of damage to original shipping package must be reported by the receiving party and a claim made with the delivering carrier upon receipt of shipment.

**CONCEALED DAMAGE**

Any evidence of damage to material shipped, upon the opening of the original shipping package, must be reported by the receiving party to and a claim made with the delivering carrier upon receipt of shipment.
Founded in 1958 in Fairfield NJ, Jason Industrial quickly gained a solid reputation as a go to source for both industrial hose and power transmission belts. Products, supported by reliable stocks and knowledgeable customer care quickly enabled Jason to become well recognized as a solid partner to distributors across the States. In subsequent decades, Jason expanded its successful Fairfield business model across the US opening distribution centers in Carol Stream, IL; Tampa, FL; Dallas, TX; Los Angeles, CA and Portland, OR. Outside of the US, expansion took place in Canada, Mexico, Brazil, Colombia and Peru.

In 2007, Jason Industrial was acquired by Megadyne and became part of the Megadyne Group. In 2018, the Megadyne Group joined with Ammeraal to create AMMEGA. Today, Jason Industrial is a Commercial Division of AMMEGA serving North, Central and South America offering a wide range of both industrial and hydraulic hose, couplings, equipment and accessories.