



WITHOUT
YOU
THERE IS
NO **US.**



Natural Gas Catalog

November 2024



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AYU: Knowledge at Your Fingertips



You know all those questions you had when you first entered the industry and even decades on the job? Well, we're here to finally answer them.

The industries that A.Y. McDonald serves consist of centuries worth of history and knowledge. It's information that is very rarely written down, located in one place, and not available for just anyone to access...until now.

As a result of the many Innovation Summits held in recent years, the concept of A.Y. McDonald University (AYU) was born. By organizing our vast knowledge and experience, this **FREE** e-learning platform is an educational opportunity not often found in our industry. These courses are ready to be viewed, clicked through, and read by you. Use your desktop, iPad, or smartphone – it all works the same. Whether you're in the field or at the office, AYU is knowledge available 24/7 right at your fingertips.



Find out what all the fuss is about by signing up today at aymcdonald.com!



Social Media & A.Y. Alerts

Our industry is booming and we're just here to make sense of it. Scan the QR code to stay connected with A.Y. McDonald on any of our social media platforms by following, liking, commenting, or subscribing and don't forget to sign up for A.Y. Alerts (email blasts) to stay up-to-date on A.Y. McDonald news and product information.



A.Y. McDonald Mfg. Co.'s Interactive Digital Product Catalogs

DCatalog Library



Make sure to navigate A.Y. McDonald Mfg. Co.'s system/service that takes static PDFs to interactive digital catalogs. This upgraded catalog system brings functionality to the process, can be viewed on all devices, and you are not required to download a massive PDF document (although this is still an option)! One of the features of the digital catalog is called "My Catalog". This customizable tool allows you to select specific pages from our main product catalogs, tailoring your catalog to match your unique needs. This means you can quickly access the products you use most frequently, saving valuable time on every search.



You can access the digital catalogs when you [visit aymcdonald.com](http://aymcdonald.com), click on 'Support', then click on 'Resources', and then click 'Catalogs'.



- Toggle between single and double page views based on preferences
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- Crop images or specific pieces of catalog information to share, download, or print
- View page thumbnails for faster access to specific product sections
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A.Y. Cares 24/7/365 – Access. Online. Anytime

SERVICE & SUPPORT | aymcdonald.com

A.Y. McDonald's customer service team is constantly looking for new ways to provide the power of information at your fingertips. In recent years, the online customer portal located at aymcdonald.com has served as a perfect example of this, making for a helpful tool for customers to not only order product online but to also check order status as well.

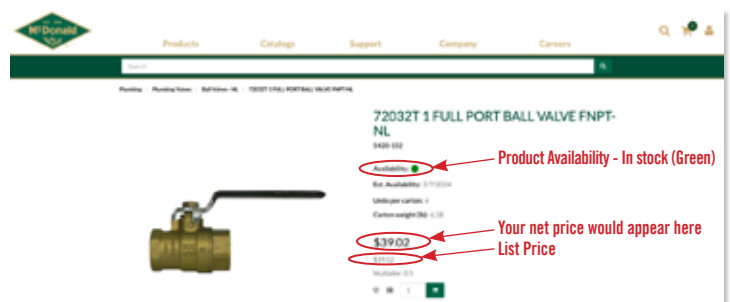
The portal's original design allowed a foundation for us to build more functionality and support for you, our customer, our boss. With 24/7 access, we have improved and built out new tools that we are ready to deliver to you today. You spoke, we listened. Learn about the portals features below.

Have an online account on A.Y. McDonald's website and you will be able to see this and much more:

- **Ability to search using keywords and attributes**
- **Check Order History*** - see estimated availability of items on order, as well as access to shipping costs and tracking information.
- **Price & Availability*** - enhanced visibility to net price and product availability!
- **Check invoices and invoice status**
- **Order Online*** - Fast and easy way to get your products!
- **Product Cross Reference** - allows for easy use to see comparable products across different companies
- **You ask and we answer.** Now you can live chat during normal business hours with a product expert on our aymcdonald.com website. Chat inquiries can include questions that pertain to products, installation instructions, submittal drawings, repair parts, etc.



Product Cross Reference



Product Availability, Net and List Pricing

Freight Program

I. PRODUCT GROUP QUALIFICATION LEVELS

Freight will be prepaid and allowed by Seller on orders that meet or exceed the following net prices or unit qualifiers (net prices reflect list prices less applicable discounts):

- 1. Natural Gas (may be combined with Plumbing Valves) \$2,500 Net
- 2. Water Service Products (may be combined with Curb Boxes, Pumps, Pump Accessories, Plumbing Valves, Frames and Covers, HPG, and Yoke Boxes) \$7,000 Net
- 3. Pumps 12+ units
- 4. Plumbing Products (may be combined with Pump Accessories) \$1,300 Net
- 5. Tanks 24+ units (may be 24 units in combination with Jets and Submersibles)
- 6. Pit Setters 15" diameter – 144 units
 18" diameter – 96 units
 21" diameter – 72 units
 24" diameter – 48 units
 30" and 36" diameter – 24 units

II. ADDITIONS

Once an order qualifies for freight in **any** product group, other products on your order ride free (excluding Tanks and Pit Setters). However, additions to freight allowed orders will **NOT** be allowed once the original order is on board or a partial shipment has been made against the original order.

Freight qualifiers are subject to change without notice.

Dimensions and weights are reference only and are subject to change.

Trade Customs

CONTROLLING PROVISIONS: These terms and conditions supersede all previous terms and conditions and shall control any sale by A.Y. McDonald Mfg. Co. ("Seller"). No alteration or waiver of these terms and conditions shall be valid unless specifically accepted in writing by an authorized representative of Seller.

PRICES: Billing prices are those in effect at the time the order is shipped. All prices are subject to change without notice. Possession of a price sheet shall not be construed as an offer to sell. Seller reserves the right to reject any order.

TERMS: 2% 10th Prox., Net 25th (A 2% cash discount can be taken if paid via ACH/wire on the 10th of the month following the shipment. The month is defined as the 26th through the 25th. For example, a February 25th invoice is due 2% on March 10th, a February 26th invoice is due 2% April 10th, and all invoices are due net the 11th and considered past due on the 26th of the month. No cash discount is available for check payment). Without open credit terms, payment may be required prior to shipping. A 2% monthly service charge (or the maximum amount permitted by law) may be applied to the balance of any past-due invoice. Buyer shall pay any necessary collection fees, including reasonable attorney fees.

TAXES: Any sales tax, use tax, manufacturer tax, duty, or other cost imposed by any government entity shall, at Seller's option, be added to the purchase price and payable by buyer. Buyer must certify any tax exemption and agree to indemnify Seller against any tax imposed contrary to such certification.

FREIGHT: All prices are F.O.B. Seller's factory, with full freight allowed within the contiguous United States and Canada on the orders that qualify pursuant to the Freight Program schedule. Seller reserves the right to select the carrier and route of shipment and to ship at the most economical rate. All extra charges for special handling or delivery services will be paid for by the buyer. Terms for shipment outside the contiguous United States and Canada shall be established on a case-by-case basis.

"LIMITED WARRANTY Subject to the limitations stated herein, A.Y. McDonald Mfg. Co. ("Seller") warrants that natural gas products manufactured by Seller shall be free from defects in material and workmanship and shall perform the services for which they are intended when properly installed, under normal use, and under ordinary conditions, for a period of ninety (90) days from the date of shipment from Seller's factory. This Limited Warranty does not cover or apply to water service products, plumbing products, or pumps or pump accessories manufactured by Seller. Buyer must notify Seller in writing of a potentially defective product as soon as possible and not later than ninety (90) days from the date of shipment from Seller's factory. Upon receipt of such notice, Seller shall, at its option and at its expense, examine such product at Seller's factory or such other location as Seller shall determine. Should Seller agree to a return of the product, buyer shall follow in every respect the packaging and transportation instructions provided by Seller. In no case shall a product be returned without first obtaining the permission of Seller. If a product is proven to the satisfaction of Seller to be defective, then Seller shall, at its option and at its expense, repair or replace such product or reimburse buyer for the price paid by buyer for such product. The cost of shipping to buyer a repaired or replaced product shall be paid by Seller on the same shipping terms as the original shipment of such product to buyer. Except as stated herein, buyer shall assume all responsibility and expense for any dismantling, removal, reinstallation, and shipping in connection with this Limited Warranty, and no claims will be allowed for labor, shipping, materials, or other costs incident to the repair, replacement, or return of a product.

THIS LIMITED WARRANTY IS THE ONLY WARRANTY PROVIDED BY SELLER AND IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SELLER'S LIABILITY IS LIMITED TO REPAIR, REPLACEMENT, OR REIMBURSEMENT AS PROVIDED ABOVE, AND IN NO EVENT SHALL SELLER'S LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT(S) INVOLVED. THIS LIMITED WARRANTY PROVIDES THE EXCLUSIVE REMEDY AGAINST SELLER FOR CLAIMS RELATING TO PRODUCTS, WHETHER IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE), OR UNDER ANY OTHER LEGAL THEORY, AND WHETHER ARISING OUT OF WARRANTIES, REPRESENTATIONS, INSTRUCTIONS, OR DEFECTS FROM ANY CAUSE. IN NO EVENT SHALL SELLER BE LIABLE FOR OR OBLIGATED TO PAY ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES OF ANY KIND.

THIS LIMITED WARRANTY EXTENDS ONLY TO BUYERS WHO PURCHASE SELLER'S PRODUCT(S) DIRECTLY FROM SELLER ("ORIGINAL PURCHASERS"), INCLUDING DISTRIBUTORS, WHOLESALERS, UTILITIES, AND CONTRACTORS. THIS LIMITED WARRANTY IS NOT ASSIGNABLE OR OTHERWISE TRANSFERABLE BY THE ORIGINAL PURCHASER TO ANY OTHER PARTY. SELLER EXTENDS NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO "CONSUMERS," AS THAT TERM IS DEFINED IN THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C. SECTIONS 2301 ET SEQ.) AND THE REGULATIONS PROMULGATED THEREUNDER. IN NO EVENT SHALL THE DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BE LONGER THAN THE NINETY (90) DAY PERIOD PRESCRIBED HEREIN.

This Limited Warranty shall not apply to product failure or defect: due to a defect in the design, engineering, or installation of any water, gas, or other system; where the product has been modified without the prior written authority of Seller; caused by the failure to install or use the product in conformity with any instructions or specifications provided by Seller; caused by the improper installation, use, application, maintenance, repair, transportation, handling, or storage of the product; caused by the fault or negligence of anyone other than Seller or any other act or event beyond the control of Seller. Seller makes no warranties as to any products or product parts or components that are not manufactured by Seller. The limitations of liability contained in this Limited Warranty shall be effective without regard to Seller's performance or failure or delay of performance under any other term or condition of any trade customs, warranty, or other agreement. No co-worker, representative, or agent of Seller, nor any other person, has authority to assume or incur on behalf of Seller any liability, obligation, or responsibility in place of or in addition to this Limited Warranty."

CLAIMS: Inspect all shipments immediately upon receipt, examining products for damage and verifying quantity. Any claim of damage, shortage, or non-conformance must be made in writing within 5 business days of receipt of goods (any claim of damage or shortage must be noted on the Freight Carrier's signed delivery receipt).

ORDERS: Seller is not responsible for and shall not be held liable for damages resulting from delays or failures in shipment, nor shall Seller be liable for any delay or failure to provide goods where occasioned by any force majeure event, including without limitation: strikes and other labor disputes; fires; acts of God; floods, snowstorms, tornados, and other storms; unusually severe inclement weather conditions; fuel, energy, carrier, or material shortages or embargoes; war; terrorism; civil disturbances; acts of civil or military authority; court order or decree; partial or complete destruction of factory or other facility; acts of buyer; inability to obtain or retain fuel, energy, carriers, materials, facilities, or labor without litigation or the payment of penalties or unreasonable prices or the acceptance of unreasonable terms and conditions; and any other cause beyond Seller's control.

RETURNS: Goods cannot be returned without the prior written approval of Seller. Return freight must be prepaid by buyer. After inspecting the returned goods, Seller may impose upon buyer: (1) a handling and restocking charge equal to a minimum of 25% of the invoiced cost of the returned goods; and, in addition thereto, (2) any costs required to put the goods in like-new condition. All credit memos are subject to cash discount terms as defined in our standard terms.

CANCELLATION: The contract resulting from Seller's acceptance of Buyer's order cannot be cancelled, terminated, or modified by Buyer, in whole or in part, except upon Seller's prior written approval.

NON-STOCK PRODUCTS: Non-stock products (i.e., customized or non-standard products) may require a minimum order and buyer should make prior inquiry to Seller. Once production has begun, orders for non-stock products cannot be cancelled without the prior written approval of Seller. Seller will not accept the return of non-stock products.

CONSTRUCTION: All sales, contracts, and offers to buy or sell, all rights, remedies and duties of all persons, and the construction and effect of all provisions hereof, shall be governed by and construed according to the laws of the State of Iowa.



WARNING: It is unlawful in CALIFORNIA and VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380. **▲ WARNING:** This product can expose you to chemicals including lead, which is known to the State of CALIFORNIA to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

WELCOME TO THE STANDARD OF SAFETY.

A.Y. McDonald Mfg. Co. designs and manufactures our natural gas products to comply with several industry standards – ASME, ANSI, and ASTM. But as of May 1, 2015, we took this a step further by starting to mark A.Y. McDonald Mfg. Co. natural gas products with a new barcode that was developed in the new ASTM F-2897-14 standard. As a real game changer, A.Y. McDonald Mfg. Co. is one step ahead when it comes to our commitment to gas safety and accountability through the use of traceability tags!

New times, new technology

Thanks to traceability, city streets and backyards can be a whole lot safer. With innovation and organization at its core, the ASTM F-2897-14 standard determines the information gas distribution products are marked with. In the event of an accident caused by a gas leak, gas utilities can access this information to locate other potentially faulty products. Through inspections and necessary replacements, we can prevent future accidents.

Making accountability easy

To make this standard of traceability convenient for you, A.Y. McDonald Mfg. Co. has made TRACE TAGS standard on each and every gas valve and meter bar we manufacture. These products come complete with a barcode detailing the type of material the product is made from; component details; and the date an A.Y. McDonald Mfg. Co. co-worker in Elizabethton, Tennessee, Albia or Dubuque, Iowa, machined, assembled, and tested the product.



All gas valves and meter bars you purchase from A.Y. McDonald Mfg. Co. will include a **TRACE TAG**. Once the tag is scanned for installation, enjoy the peace of mind of being forward thinking.

EVERY PART. COMPLETELY ACCOUNTED FOR.



Component Manufacturer

— Manufactured by A.Y. McDonald Mfg. Co.

Lot Code and Date Code

- Built-in Albia, or Dubuque, Iowa or Elizabethton, Tennessee
- Item Number
- Item Description
- Job Number (what cell it was built on, when it was built, and who was working on the cell)
- Date it was built

Connection Type and Size

— Inlet/Outlet Size

Component Type

- Plug Valve
- Ball Valve
- Meter Bar
- Meter Set Assembly (MSA)

Material

- Cast Iron
- Brass

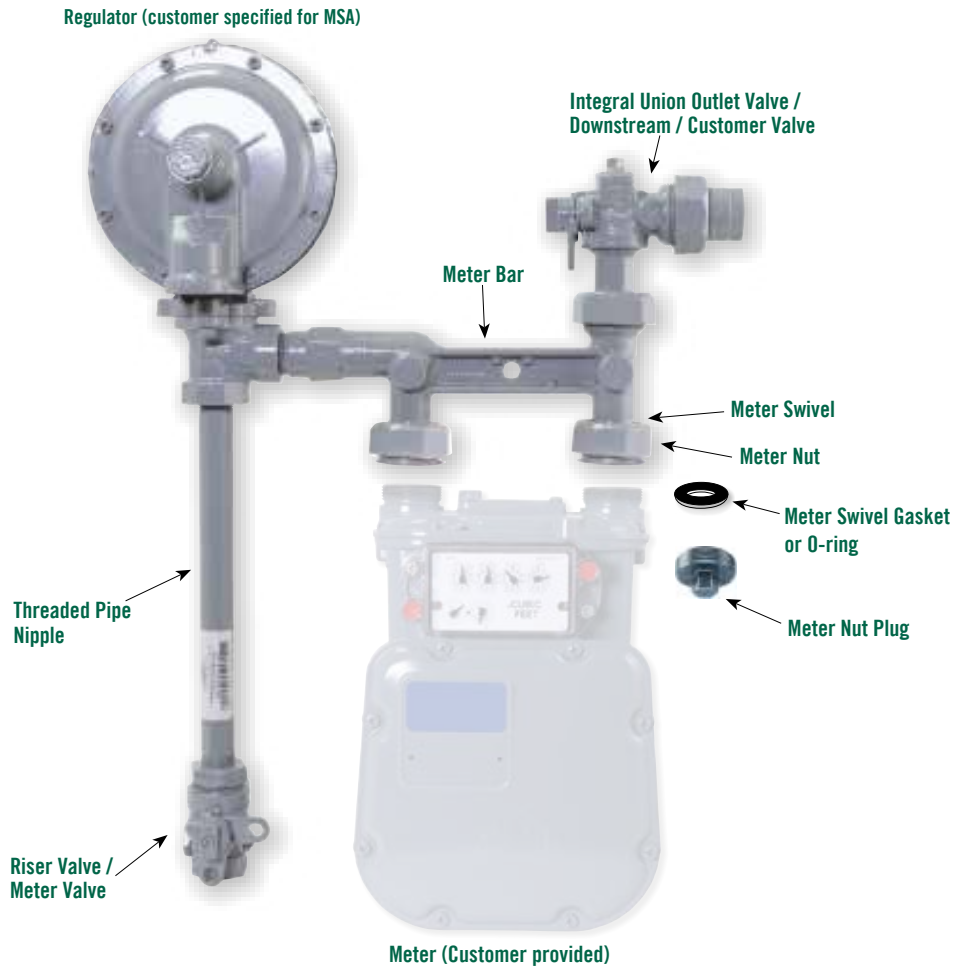


Learn more about making your community safer with **TRACE TAGS** by visiting our YouTube channel.



More than a brand. We're a family.

General Information



A.Y. McDonald Mfg. Co. is known in the gas industry for its wide variety of house piping valves and gas meter valves. Serving the needs of gas utilities is our number one priority. The items indicated above are the products we currently offer, produced at our state-of-the-art manufacturing facilities.

Traditionally a strong competitor in the industry, A.Y. McDonald Mfg. Co. continues to practice its founder's philosophy:

“WE WILL MAKE GOOD PRODUCTS AND SELL THEM HONESTLY”

Material Specifications

METER BAR - Cast Iron per ASTM A126 Class B

VALVE BODY/ENDPIECE - Cast Iron per ASTM A126 Class B or Ductile Iron per ASTM A536

PLUG - Cast Brass - ASTM B584/Alloy 83600 or Alloy 84400

BRASS BALL - CDA 36000 or CW617N

CAP (Ball Valve) - Diecast Zinc / Alloy #7

BRASS NUTS and WASHERS (Plug Valve) - ASTM B584/Alloy B83600 or Alloy 84400 or MPIF Std. 35 Code CZ 3002

O-RINGS/GASKETS - Buna-N (Nitrile) Rubber

PORT SEALS (Ball Valve) - PTFE

INSULATED UNION TAILPIECES - Super Tough Nylon 66 Insulation

UNION TAILPIECES - Zinc Plated Yellow Dichromate Finished Steel

STEM (Ball Valve) - Copper Alloy - CA 36000 CDA

UNION NUT - Malleable Iron per ASTM A47, ASTM A197 or Ductile Iron per ASTM A536

SWIVEL/SWIVEL NUT - Malleable Iron per ASTM A47, ASTM A197 or Ductile Iron per ASTM A536



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NO **US.**



Plug Valves

November 2024



Re-Lubrication Tool

FOR USE ON 175 PSI RE-LUBE VALVES AND WITH A.Y. McDONALD MFG. CO. GREASE ONLY

A.Y. McDonald Mfg. Co. model number 558 Re-Lubrication Tool is an easy and economical way to lubricate 175 psi gas meter valves.

The tool is machined from steel alloy for durability and has an Allen wrench mounted to the body for convenience. It can be used to re-lubricate A.Y. McDonald Mfg. Co. valves in the fully open or fully closed position when the valve is pressurized or unpressurized. It can also lubricate valves of other manufacturers, check with them for their recommended procedures.



- **558 - Grease Tool**
- **558GR - Grease Sticks** for use with 558 Re-Lubrication tool. 24 sticks/box.

Watch our Re-Lubrication Tool demonstration video



1. A.Y. McDonald Mfg. Co. 175 psi gas valves may be re-lubricated in the **full open or the full closed position** when the valve is pressurized or unpressurized.

2. Remove the 1/8" NPT Allen Head pipe relube plug from the re-lubrication port in the head of the valve plug.

3. Clean nozzle tip and carefully thread relube tool into relube port. Use only A.Y. McDonald Mfg. Co. approved lubricant.

4. Turn tee handle clockwise to force lubricant into valve. If immediate resistance is felt, the valve may have a hardened grease deposit which must be removed. Relube carefully to insure that valve is not overlubricated.

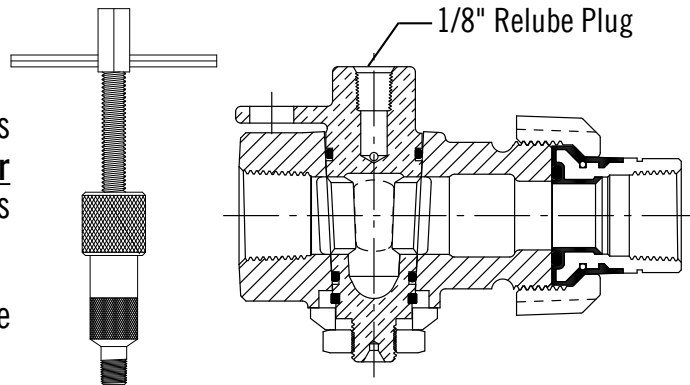
5. After re-lubrication, the 1/8" NPT Allen Head pipe relube plug should be securely replaced in the relube port in the head of the valve plug.

A small amount of gas leakage from the relube port may be observed during this procedure depending on the amount of lubrication already in the valve body.

NOTE: Other commercially available relube tools may be used. Check with A.Y. McDonald Mfg. Co. before using.

NOTE:

- 100 psi gas valves do not have lube ports and cannot be relubricated.
- A small amount of gas leakage may be observed from the re-lube port while performing this procedure based on the amount of grease left in the valve prior to the valve being re-lubed.
- After a few trials, the field service personnel should be able to tell by the resistance of the handle when the plug is filled with an adequate amount of grease.



Natural Gas Plug Valves

175 PSI PLUG VALVES

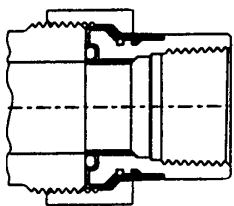
Precision machined and offer bubble tight leak protection while open or closed. Plug Valves can be re-lubricated while in service. Special machined grooves in the plug channel provide grease to all sealing surfaces.

All connections with pipe threads require use of thread sealant at installation. (PTFE tape is not recommended, see instruction sheet.)

Iron Body Gas Plug Valves Features

- A.Y. McDonald Mfg. Co.'s Iron Body, Brass Plug Valve is designed and tested to comply with ANSI/ASME B16.33 American National Standard for "Manually Operated Metallic Gas Valves for Use in Gas Piping Systems Up to 175 psi."
- Pressure rated at 175 psi.
- Each valve is factory lubricated and suitable for use with natural, manufactured, and LP gases.
- 175 psi valves can be re-lubricated while in service and under pressure. This renews the grease seal to a like new condition adding to the life of the valve.
- Plug valves are equipped with top and bottom O-rings for added security against external leakage.
- Tamperproof design prevents disassembly with normal household tools.
- The on/off turning torques are controlled at assembly by using torque machines to set the bottom nut which is also staked to maintain this torque.
- Pressure may be applied in either direction as A.Y. McDonald Mfg. Co.'s Plug Valve is a non-directional valve.
- Valve can be rotated full 360°. A 90° rotation provides a complete shut-off from fully open position.
- Available with or without lockwing. Both models accommodate industry-standard, separately-supplied locking devices such as the casket, barrel lock, and padlock.
- Port openings sized to accommodate the best known stop changers.
- Temperature Range: -20°F to +150°F.
- Available in FNPT x FNPT (560) or FNPT x Insulated Union with FNPT tailpiece (6276).
- Each valve is pressure tested electronically.

METER VALVE OUTLET UNION STYLES



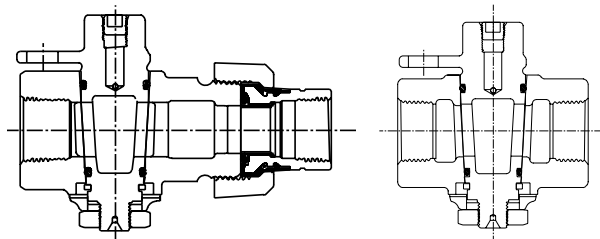
Insulated Union
with O-ring seal only
FNPT tailpiece



Plug Valve
Instruction Sheet

- A second O-ring is molded into the plastic to improve sealing without over tightening the union nut.
- The one piece molded insulator protects the service line and the main from stray currents.

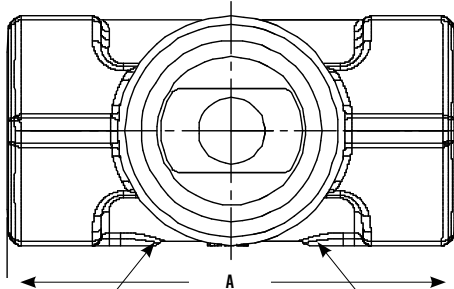
RE-LUBRICATION



Natural Gas Plug Valves - 559 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, BRASS PLUG

These valves are designed for use with natural, manufactured, and LP gases only. All A.Y. McDonald Mfg. Co. 175 psi Plug Valves may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. All A.Y. McDonald Mfg. Co. plug style gas valves have factory set turning torque. **Do Not Tamper with Bottom Nut.**



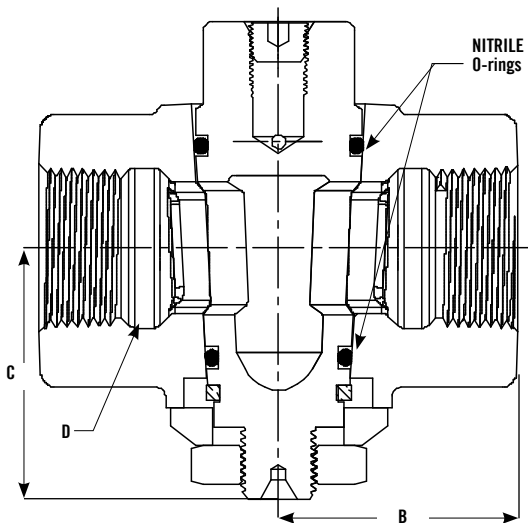
C - OPTIONAL 1/8" NPT TEST PORT (559BC)

D - OPTIONAL 1/8" NPT TEST PORT (559BD)



(Black Cast Iron Shown)

FNPT x FNPT



FINISH OPTIONS

559A Thermal-Diffusion Zinc

559B Black Cast Iron

559C Thermal-Diffusion Zinc and Painted

559PNT Painted

559BC Black Cast Iron with 1/8" Test Plug

559BD Black Cast Iron with 1/8" Test Plug

Taps available on all the above finish options.

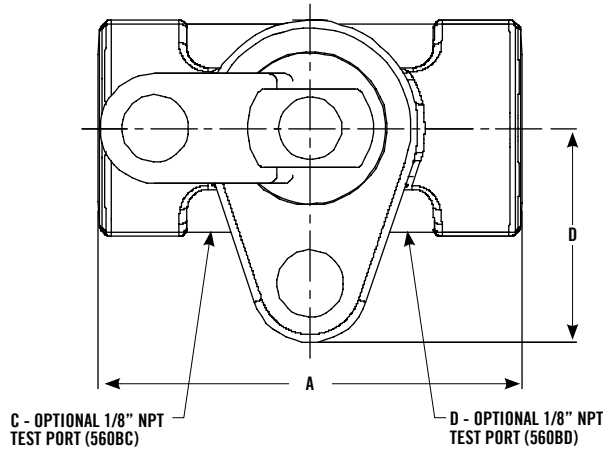
DIMENSIONS

Size	A	B	C	D
1/2"	3.1"	1.6"	1.6"	1/2"
3/4"	3.1"	1.6"	1.6"	3/4"
1"	3.4"	1.8"	1.8"	1"
1 1/4"	3.9"	2.0"	2.3"	1 1/4"
1 1/2"	4.7"	2.4"	2.6"	1 1/2"
2"	5.6"	2.8"	2.9"	2"

Natural Gas Plug Valves - 560 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, BRASS PLUG

These valves are designed for use with natural, manufactured, and LP gases only. All A.Y. McDonald Mfg. Co. 175 psi Plug Valves may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. All A.Y. McDonald Mfg. Co. plug style gas valves have factory set turning torque. **Do Not Tamper with Bottom Nut.**

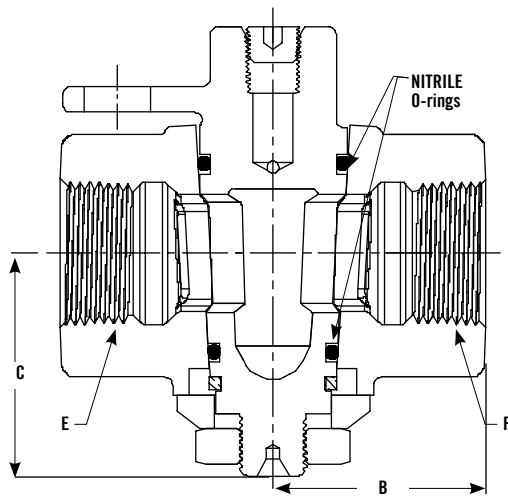


(Black Cast Iron Shown)

FNPT x FNPT

FINISH OPTIONS

- 560A Thermal-Diffusion Zinc
 - 560B Black Cast Iron
 - 560C Thermal-Diffusion Zinc and Painted
 - 560PNT Painted
 - 560BC Black Cast Iron with 1/8" Test Plug
 - 560BD Black Cast Iron with 1/8" Test Plug
- Taps available on all the above finish options.



DIMENSIONS

Size	A	B	C	D	E	F
1/2"	3.1"	1.6"	1.6"	1.6"	1/2"	1/2"
1/2" x 3/4"	3.1"	1.6"	1.6"	1.6"	1/2"	3/4"
3/4"	3.1"	1.6"	1.6"	1.6"	3/4"	3/4"
3/4" x 1"	3.4"	1.8"	1.8"	1.8"	3/4"	1"
1"	3.4"	1.8"	1.8"	1.8"	1"	1"
1 1/4"	3.9"	2.0"	2.3"	1.9"	1 1/4"	1 1/4"
1 1/2"	4.7"	2.4"	2.6"	2.3"	1 1/2"	1 1/2"
2"	5.6"	2.8"	2.9"	2.5"	2"	2"

Natural Gas Plug Valves - 6276 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, BRASS PLUG, INSULATED UNION

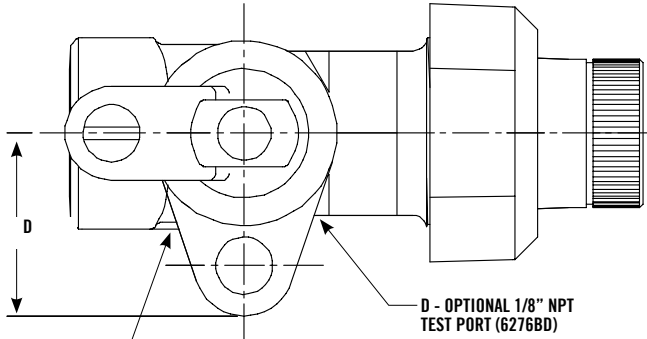
These valves are designed for use with natural, manufactured, and LP gases only. All A.Y. McDonald Mfg. Co. 175 psi Plug Valves may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. All A.Y. McDonald Mfg. Co. plug style gas valves have factory set turning torque. **Do Not Tamper with Bottom Nut.**



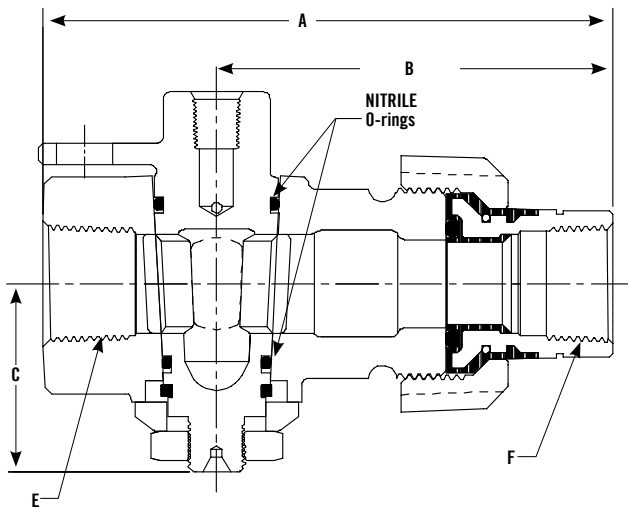
FNPT x Insulated Union with FNPT Tailpiece (O-ring only)

FINISH OPTIONS

- 6276A Thermal-Diffusion Zinc
 - 6276B Black Cast Iron
 - 6276C Thermal-Diffusion Zinc and Painted
 - 6276PNT Painted
 - 6276BC Black Cast Iron with 1/8" Test Plug
 - 6276BD Black Cast Iron with 1/8" Test Plug
- Taps available on all the above finish options.



C - OPTIONAL 1/8" NPT TEST PORT (6276BC)



DIMENSIONS

Size	A	B	C	D	E	F
3/4"	5"	1.5"	1.6"	1.6"	3/4"	3/4"
1"	5.8"	1.8"	1.8"	1.8"	1"	1"
1 x 3/4"	6"	2.5"	1.8"	1.6"	1"	3/4"
1 1/4" x 3/4"	6"	2.5"	1.8"	1.6"	1 1/4"	3/4"
1 1/4"	6.5"	2.2"	2.3"	1.9"	1 1/4"	1 1/4"
2"	7.8"	2.8"	2.8"	2.5"	2"	2"



Valve O-ring Repair Union

Valve Size	Insulated			Thermal-Diffusion		
	6300RB	6300RA	End O-ring	O-ring	Black Nut	Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844
2"	4821-062	4821-064	4811-592	3134-231	4811-581	4811-846

O-ring included with insulated end

Plug Valves



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NO **US.**



Ball Valves

November 2024



Natural Gas Ball Valves

175 PSI BALL VALVES

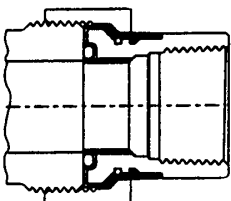
Precision machined and offers bubble tight leak protection both open and closed. Ball Valves offer the added feature of lower and more closely controlled operating torques for the life of the valve. The brass ball rides between two PTFE port seals that require no lubrication. The stem has a double O-ring seal and cannot be removed from the valve. The body and endpiece threads are pinned to prevent disassembly without damaging the valve. No field adjustment or maintenance of this valve is needed.

All connections with pipe threads require use of thread sealant at installation. (PTFE tape is not recommended, see instruction sheet.)

Additional Features

- A.Y. McDonald Mfg. Co.'s Iron Body, Brass Ball Valve is designed and tested to comply with ANSI/ASME B16.33 American National Standard for "Manually Operated Metallic Gas Valves for Use in Gas Piping Systems Up to 175 psi."
- Soft seat design does not rely on grease to prevent leakage to the atmosphere or through the valve seats. Sealing capability is maintained even after many cycles.
- Tamperproof design makes the A.Y. McDonald Mfg. Co. Ball Valve virtually impossible to disassemble without making the valve unusable, i.e. pinned endpiece requires excessive force to remove and valve cannot be reassembled if forcefully disassembled. The valve utilizes an internally loaded operating stem. The external cap is secured with a tamperproof stainless-steel screw.
- The on/off turning torques are controlled in excess of what can be turned "by hand" and yet low enough to ensure easy turning with a small wrench. Easy turning remains for normal life of valve.
- A 90° rotation provides complete shut-off from the open position. Valve can be rotated full 360°.
- Pressure may be applied in either direction as A.Y. McDonald Mfg. Co.'s Ball Valve is a non-directional valve.
- Traditional lockwing design easily accommodates industry-standard, separately-supplied lockwing devices such as barrel locks or padlocks.
- Full Port openings accommodate the best known stop changers and provide less flow restriction than non-circular openings or valves with reduced ports.
- Ball valve design isolates operating cap/stem seals and main shell from internal line pressure when the valve is in the normal used, full open position. The stem seals do provide the necessary external leak protection during cycling.
- In the normal open position, the sealing surface of A.Y. McDonald Mfg. Co.'s Brass Ball is isolated from the probable contaminants by the port seals. This results in a more reliable shut off over the life of the valve.
- No field adjustment or maintenance required.
- Each valve is pressure tested electronically.
- Temperature Range: -20°F to +150°F.
- Available in FNPT x FNPT (860) or FNPT x Insulated union with FNPT tailpiece (8276).
- These valves are designed for use with natural, manufactured, and LP gases only.

METER VALVE OUTLET UNION STYLES



Insulated Union
with O-ring seal only
FNPT tailpiece



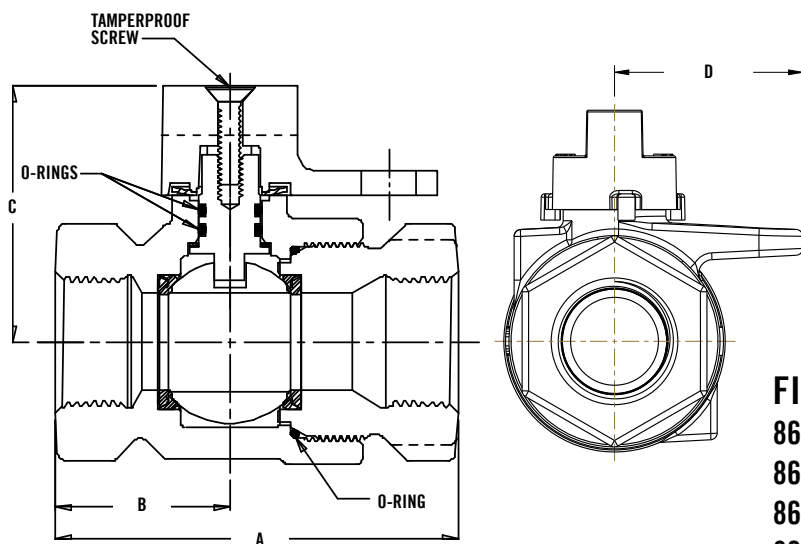
Ball Valve
Instruction Sheet

- A second O-ring is molded into the plastic to improve sealing without over tightening the union nut.
- The one piece molded insulator protects the service line and the main from stray currents.

Natural Gas Ball Valves - 860 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, FULL PORT BRASS BALL

These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

FNPT x FNPT

FINISH OPTIONS

860A Thermal-Diffusion Zinc

860B Black Cast Iron

860C Thermal-Diffusion Zinc and Painted

860PNT Painted

860BC - Black Cast Iron 3/4" and 1" with 1/4" Test Port

Taps available on all the above finish options.

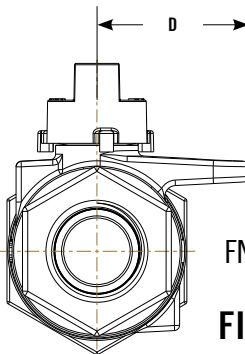
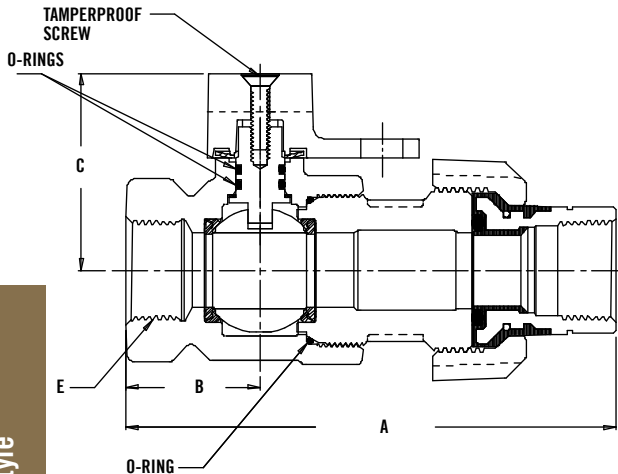
DIMENSIONS

Size	A	B	C	D
3/4"	3.1"	1.4"	2"	1.6"
3/4" x 1"	3.5"	1.4"	2"	1.6"
1"	3.6"	1.8"	2.1"	1.8"
1 1/4"	4.3"	1.9"	2.6"	2.3"
2"	5.4"	2.4"	3"	2.3"

Natural Gas Ball Valves - 8276 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, FULL PORT BRASS BALL, INSULATED UNION

These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece (O-ring only)

FINISH OPTIONS

8276A Thermal-Diffusion Zinc

8276B Black Cast Iron

8276C Thermal-Diffusion Zinc and Painted

8276PNT Painted

8276BC - Offered in 3/4" and 1" with 1/4" test port

8276BD - Offered in 1" with 1/8" test port

Taps available on all the above finish options.

DIMENSIONS

Size	A	B	C	D	E
3/4"	5"	1.4"	2"	1.6"	3/4"
1"	5.8"	1.8"	2.1"	1.8"	1"
1 1/4"	6.9"	1.9"	2.6"	2.3"	1 1/4"
2"	8.4"	2.4"	3"	2.3"	2"

Ball Style



Valve O-ring Repair Union

Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844
2"	4821-062	4821-064	4811-592	3134-231	4811-581	4811-846

O-ring included with insulated end



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Risers

November 2024



Connect with us on
our website and social
media platforms!

Anodeless Rigid Risers

Rigid Risers come pre-assembled with ASTM certified, polyethylene (PE) tubing. Designed for unmatched durability, the Rigid Riser has a solid carbon steel casing to protect the gas line from any above-ground damage as well as an electrostatically applied coating for corrosion resistance.

On the connection end, the heavy wall thread and convenient wrenching hex creates an ease of installation. Simply engage the CNC quality ANPT threads to the connection point, tighten it securely, and the work is done.

These risers are compatible for heat fusion joining with pipe or fittings manufactured from like or similar resin by butt fusion, socket fusion, or electrofusion methods. Mechanical fittings can be used to install Anodeless Rigid Risers depending on local requirements. Mechanical fitting options include stab and compression fittings.

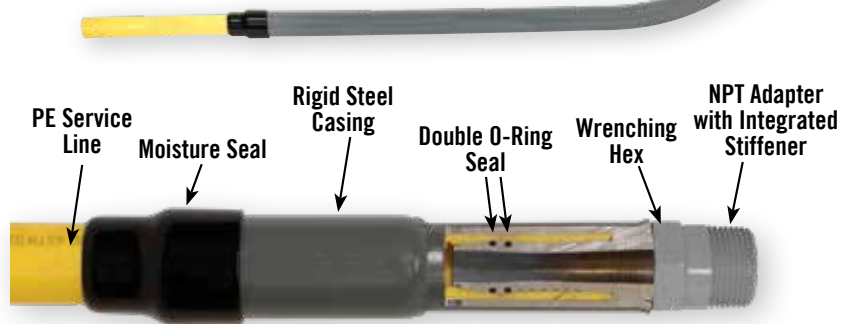
Before Meter Application



For more information, please scan this QR code.

Features:

- Double O-Ring Seal
- PE Tubing
- Heavy Wall Thread
- Electrically Applied Coating for Quality
- Traceability
- Wrenching Hex
- Electronic Leak Testing
- Meets all ASTM Performance Qualifications
- CNC Quality ANPT Threads
- Completely Coated Threads



Use model number system to fully build your customizable rigid riser. Contact factory for additional information.

Chicago Fittings Risers

<u>RR</u>	-	<u>10</u>		<u>B*</u>	-	<u>12</u>	-	<u>24</u>	-	<u>36</u>
RISER CODE		PE SIZE CODE		PE WALL CODE Wall Thickness		MPT CODE		Vertical Length		Horizontal Length
RR = Rigid Riser		10 = 1/2" CTS 17 = 3/4" IPS 21 = 1" IPS 27 = 1 1/4" IPS		B = .090" C = .095" G = .151" H = .166" J = .119"		8 = 1/2" 12 = 3/4" 16 = 1" 20 = 1 1/4"		24 = 24" 30 = 30" 36 = 36"		24 = 24" 30 = 30" 36 = 36"

*Add "H" to PE Wall Code for HDPE tubing, Example: "B" to "BH"



CERTIFICATIONS RIGID RISERS

Chicago Fittings Corporation Certifies that all rigid risers manufactured with integral stiffeners will meet all applicable requirements defined under 49CFR Part 192, D.O.T. 192.281, 192.283(b), 192.375, ASTM D2513 Category 1, ASTM F1973, ASTM F1948-12 Category 1, NFPA 58, NFPA 54 (ANSI Z223.1) and IFGC Section 403. IAPMO/UPC/IPC/CSA 137.4 Listed.

Material Definitions

- 3.1 Adapter: AISI C12L14, C1213, C1215
- 3.2 Casing: A513 Type 1 or 2
- 3.3 Seals: Buna-N (Nitrile)
- 3.4 Tubing: ASTM D2513 PE
- 3.5 Moisture Seals: Hot Dipped Vinyl



Semi-Rigid X-RISER®

Rigid Steel and Flexible Anodeless Riser for Natural Gas Application

This field assembled service head type riser is appropriate for both new construction and PE service line renewals. The Carbon steel casing can be used for rigid mounting while still allowing for flexible assembly underground. Use model number system to fully build your customizable semi-rigid riser.

This product meets NFPA54 requirements.



<u>RXR</u>	-	<u>10</u>		<u>B</u>	-	<u>12</u>	-	<u>24</u>	-	<u>36</u>
RISER CODE		PE SIZE CODE		PE WALL CODE Wall Thickness		MPT CODE		RIGID CODE Rigid Casing		FLEX CODE Flexible Conduit
RXR = Semi-Rigid/ Partial Flexible		10 = 1/2" CTS 13 = 1/2" IPS		A = .062" B = .090" C = .095" E = .100" F = .121" G = .151" H = .166" J = .119"		8 = 1/2" 12 = 3/4" 16 = 1" 20 = 1 1/4" 24 = 1 1/2" 32 = 2"		12 = 12" 18 = 18" 24 = 24" 36 = 36"		24 = 24" 36 = 36" 48 = 48" 60 = 60" 72 = 72" 96 = 96"
XR = Flexible		14 = 3/4" CTS 17 = 3/4" IPS 18 = 1" CTS 21 = 1" IPS 22 = 1 1/4" CTS 27 = 1 1/4" IPS 31 = 1 1/2" IPS 38 = 2" IPS		K = .173" M = .216"						



Scan the QR Code for more information on How to Install the X-Riser.

Unmatched Durability, Effortless Installation

Introducing Anodeless Rigid-Flex Risers: Your ultimate solution for new construction and PE service line renewals. Pre-assembled with ASTM certified polyethylene (PE) tubing, these risers are designed for unparalleled durability and ease of use.

Built to Last

- **Solid Carbon Steel Casing:** Protects gas lines from above-ground damage.
- **Corrosion Resistance:** Electrostatic coating ensures long-lasting protection.
- **Heavy Wall Thread & Wrenching Hex:** Create a solid joint without exposing bare metal.

Versatile Compatibility

- **Heat Fusion Joining:** Compatible with pipe or fittings made from like or similar resin via butt fusion, socket fusion, or electrofusion methods.
- **Mechanical Fittings:** Install with stab and compression fittings as per local requirements.

Easy Installation

- **CNC Quality ANPT Threads:** Simply engage and tighten with a flat jaw wrench.
- **Flexible Conduit:** Facilitates simple field installation while safeguarding the PE tubing.

Anodeless Rigid-Flex Risers meet NFPA54 requirements, ensuring safety and reliability for your gas line projects.

Upgrade to Rigid-Flex Risers for a seamless, durable, and secure gas line installation experience!

Coming **Soon!**

A.Y. McDonald Mfg. Co. and Chicago Fittings One Family, One Solution



**CHICAGO
FITTINGS**



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Bypass Ball Valves

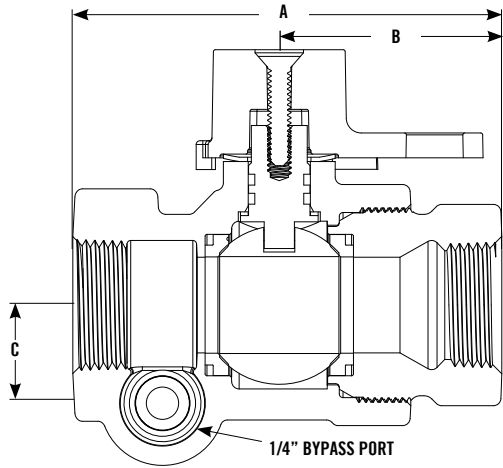
November 2024



Inline Bypass Ball Valves - 861 Series

TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, BYPASS OPTION, FULL PORT BRASS BALL

These valves are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Size	A	B	C
3/4"	3.5"	1.8"	.8"
1"	3.6"	1.9"	1.0"
1 1/4"	5.2"	2.5"	1.4"



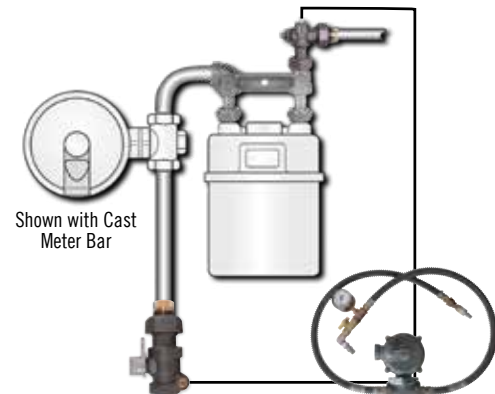
(Black Cast Iron Shown)

FNPT x FNPT

FINISH OPTIONS

- 861A** Thermal-Diffusion Zinc
- 861B** Black Cast Iron
- 861C** Thermal-Diffusion Zinc and Painted
- 861PNT** Painted

861KEY 3/4" - 1" & 861KEY 1 1/4"
Stainless Steel Inline Bypass Ball Valve Key is required for bypass operation.



Shown with Cast Meter Bar

Regulated Hose Kit

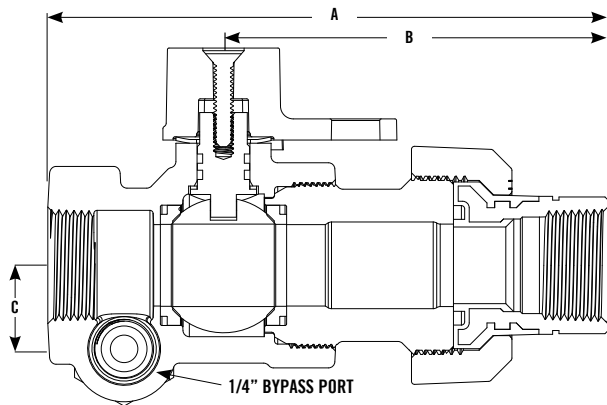


Inline Bypass Valve
Instruction Sheet

Inline Bypass Ball Valves - 8277 Series

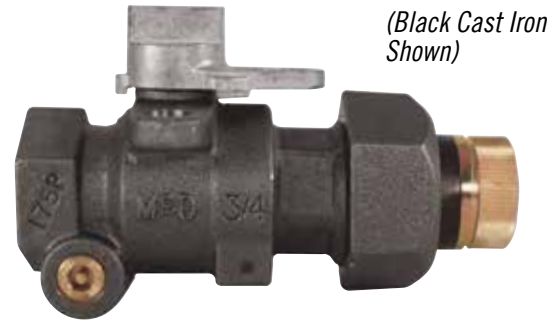
TAMPERPROOF, 175 PSI, FLAT HEAD, LOCKWING, BYPASS OPTION, FULL PORT BRASS BALL, INSULATED UNION

These valves are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Size	A	B	C
3/4"	5.3"	3.6"	.8"
1"	5.8"	4.15"	1.0"
1 1/4"	7.6"	5.1"	1.4"



FNPT x Insulated Union with FNPT Tailpiece (O-ring only)

FINISH OPTIONS

8277A Thermal-Diffusion Zinc

8277B Black Cast Iron

8277C Thermal-Diffusion Zinc and Painted

8277PNT Painted

Valve O-ring Repair Union

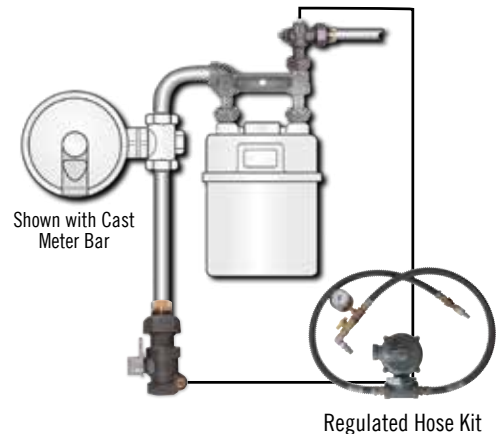


Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end

861KEY 3/4" - 1" **861KEY 1 1/4"**

Stainless Steel Inline Bypass Ball Valve Key is required for bypass operation.



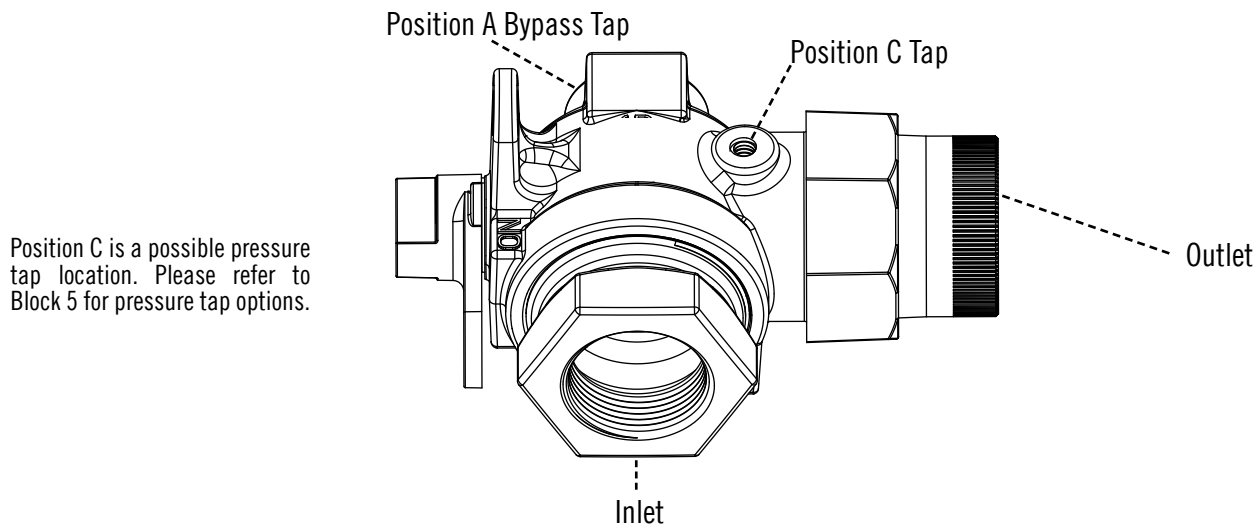
Inline Bypass Valve Instruction Sheet

Angle Bypass Ball Valves

5 PSI 3/4" AND 1", 25 PSI 1 1/4" ANGLE BALL VALVES

Precision machined and offer bubble tight leak protection both open and closed. Ball Valves offer the added feature of lower and more closely controlled operating torques for the life of the valve. The brass ball rides between two PTFE port seals that require no lubrication. The stem has a double O-ring seal and cannot be removed from the valve. The body and endpiece threads are pinned to prevent disassembly without damaging the valve. No field adjustment or maintenance of this valve is needed.

All connections with pipe threads require use of thread sealant at installation. (PTFE tape is not recommended, see instruction sheet.)



INLET AND OUTLET CONNECTIONS

NPT inlet tapping provides a solid connection directly into the valve. Outlets are available with NPT integral or union type connections. Union connections have a flat rubber gasket or an O-ring seal.

INSULATED UNION OUTLET

The union outlet is insulated to minimize electrolysis.

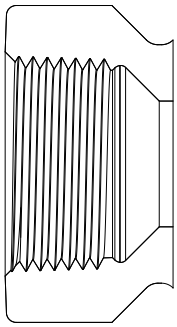
- Soft seat design does not rely on grease to prevent leakage to the atmosphere or through the valve seats. Sealing capability is maintained even after numerous cycles.
- Tamperproof design makes the A.Y. McDonald Mfg. Co. Ball Valve virtually impossible to disassemble without making the valve unusable. Pinned endpiece requires excessive force to remove and valve cannot be reassembled if forcefully disassembled. The valve utilizes an internally loaded stem and an external cap secured with a tamperproof stainless-steel screw.
- The on/off turning torques are closely controlled in excess of what can be turned by hand and yet low enough to ensure easy turning with a small wrench. Easy turning remains for normal life of valve.
- A 90° rotation from the open position places valve into bypass position.
- Traditional lockwing design easily accommodates industry-standard, separately-supplied lockwing devices such as barrel locks or padlocks.
- No field adjustment or maintenance required.
- Each valve is pressure tested electronically.
- Temperature Range: -20°F to +150°F.

Note: These valves are designed for use with natural, manufactured, and LP gases only.

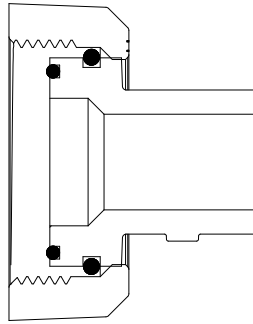


Angle Bypass Ball Valve Instruction Sheet

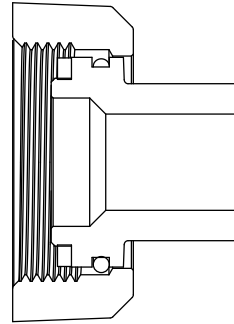
Inlet Types - Block 1



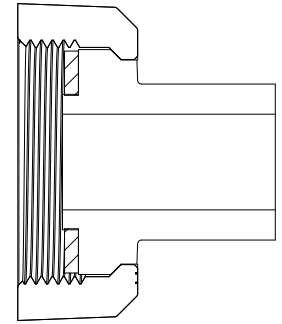
FNPT



Meter Swivel Nut O-ring Seal

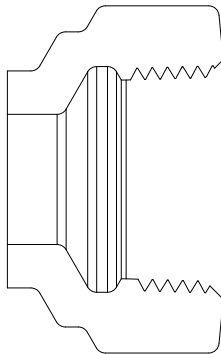


Meter Swivel Nut Flat Gasket Seal

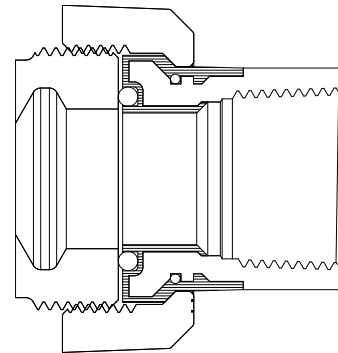


Union Swivel Nut Flat Gasket Seal

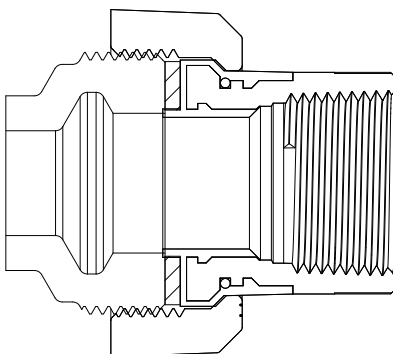
Outlet Types - Block 2



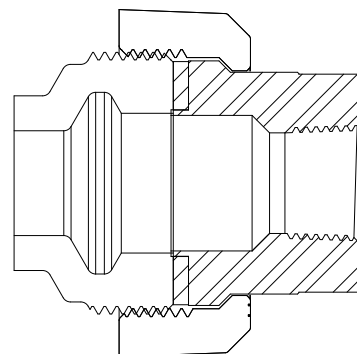
FNPT



Insulated Union with FNPT Tailpiece O-ring Seal



Insulated Union with FNPT Tailpiece Flat Gasket Seal



Non Insulated Union with FNPT Tailpiece Flat Gasket Seal

Angle Bypass Ball Valves - 835 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FNPT X FNPT

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number.

TO ORDER:

Example: Model number **835BAG 3/4x3/4x1** means:



BLOCK 1 - INLET TYPE

83 = FNPT

BLOCK 2 - OUTLET TYPE

5 = FNPT

BLOCK 3 - FINISH

A = Thermal-Diffusion Zinc
 B = Black Cast Iron
 C = Thermal-Diffusion Zinc and Painted
 P = Painted

BLOCK 4 - TAP LOCATION(S)

A = Pos. A (Bypass)
 C = Pos. C
 E = Pos. A and C (A with 3/8" recessed plug)
 F = Pos. A and C (A with 3/8" square head plug)
 G = Pos. A and C (A with 3/4" square head plug)
 H = Pos. A and C (A with 3/4" recessed plug)

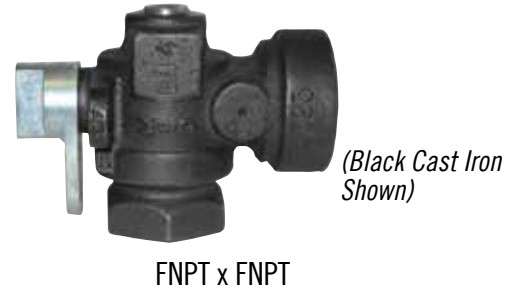
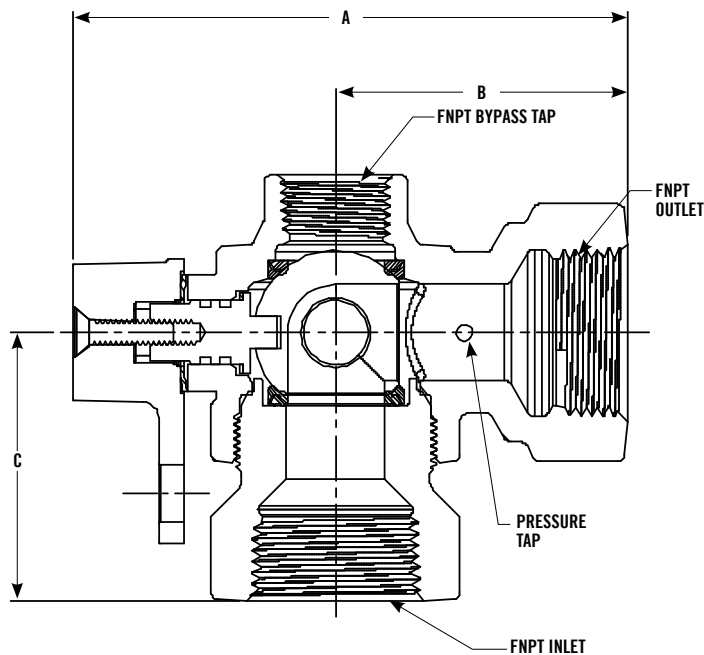
BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT no plug
 D = 1/4" NPT recessed hex plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT no plug
 G = 3/8" NPT recessed hex plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT no plug
 M = 1/8" NPT hex head plug
 P = 3/4" NPT recessed hex plug (1 1/4" only)
 R = 3/4" NPT square head plug (1 1/4" only)

Angle Bypass Ball Valves - 835 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FNPT X FNPT

Can be assembled to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



FINISH OPTIONS

835A Thermal-Diffusion Zinc

835B Black Cast Iron

835C Thermal-Diffusion Zinc and Painted

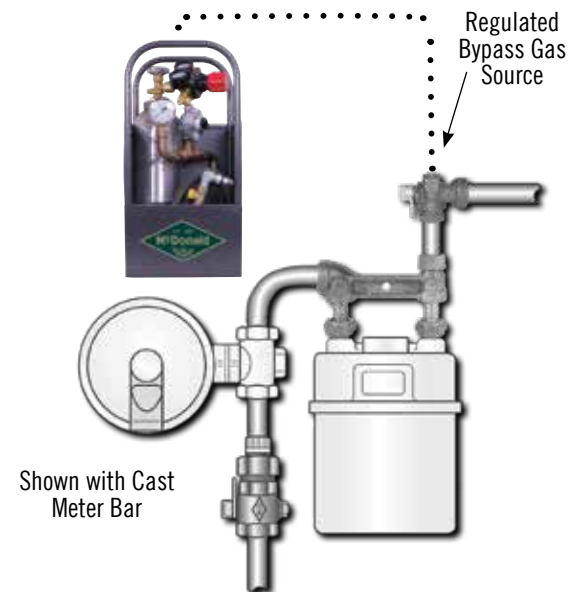
835P Painted

Taps available on all the above finish options.

DIMENSIONS

Inlet	Port	Outlet	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4"	3/4" or 1"*	3/8"	4.3"	2.3"	1.8"	See Block 4 and 5
1"	3/4"	3/4" or 1"*	3/8"	4.3"	2.3"	2.1"	
1 1/4"	1 1/4"	1 1/4"	3/4"	5.1"	2.5"	2.5"	

* 1" is reducing port



NOTE:

For external source of gas, see Portable Bypass Kit on page 42

Angle Bypass Ball Valves - 837 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FNPT X INSULATED UNION WITH FNPT TAILPIECE

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number.

TO ORDER:

Example: Model number **837BAG 3/4x3/4x3/4** means:



BLOCK 1 - INLET TYPE

83 = FNPT Inlet

BLOCK 2 - OUTLET TYPE

- 7 = FNPT insulated O-ring union
- 8 = FNPT insulated flat gasket union
- 9 = FNPT non-insulated flat gasket union

BLOCK 3 - FINISH

- A = Thermal-Diffusion Zinc
- B = Black Cast Iron
- C = Thermal-Diffusion Zinc and Painted
- P = Painted

BLOCK 4 - TAP LOCATION(S)

- A = Pos. A (Bypass)
- C = Pos. C
- E = Pos. A and C (A with 3/8" recessed plug)
- F = Pos. A and C (A with 3/8" square head plug)
- G = Pos. A and C (A with 3/4" square head plug)
- H = Pos. A and C (A with 3/4" recessed plug)

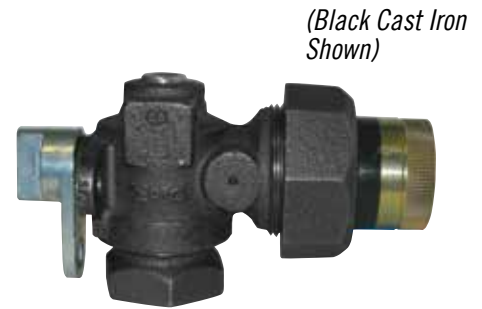
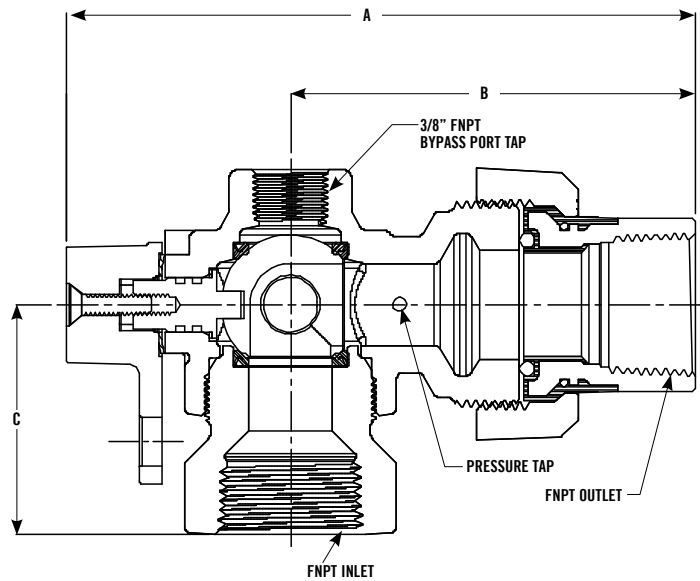
BLOCK 5 - TAP SIZE / PLUG TYPE

- A = 1/8" NPT recessed hex plug
- B = 1/8" NPT square head plug
- C = 1/8" NPT no plug
- D = 1/4" NPT recessed hex plug
- E = 1/4" NPT square head plug
- F = 1/4" NPT no plug
- G = 3/8" NPT recessed hex plug
- H = 3/8" NPT square head plug
- J = 3/8" NPT no plug
- M = 1/8" NPT hex head plug
- P = 3/4" NPT recessed hex plug (1 1/4" only)
- R = 3/4" NPT square head plug (1 1/4" only)

Angle Bypass Ball Valves - 837 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FNPT X INSULATED UNION WITH FNPT TAILPIECE

Can be assembled to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

837A Thermal-Diffusion Zinc

837B Black Cast Iron

837C Thermal-Diffusion Zinc and Painted

837P Painted

Taps available on all the above finish options.

DIMENSIONS

Inlet	Port	Outlet	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4"	3/4" or 1"*	3/8"	5.5"	3.4"	1.8"	See Block 4 and 5
1"	3/4"	3/4" or 1"*	3/8"	5.8"	3.7"	2.1"	
1 1/4"	1 1/4"	1 1/4"	3/4"	6.7"	4.0"	2.5"	

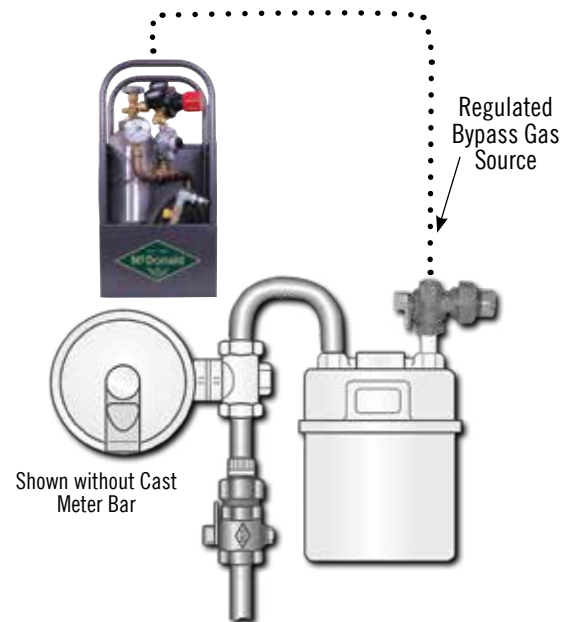
* 1" is reducing port



Valve O-ring Repair Union

Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end



NOTE:

For external source of gas, see Portable Bypass Kit on page 42

Angle Bypass Ball Valves - 855 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, METER SWIVEL NUT X FNPT

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number. Please note the difference in numbers between valves without built-in swivels and valves with built-in swivels. Valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **855BAGB- 3/4x3/4 20LT** means:



BLOCK 1 - INLET TYPE

85 = Meter Swivel Nut

BLOCK 2 - OUTLET TYPE

5 = FNPT

BLOCK 3 - FINISH

A = Thermal-Diffusion Zinc
B = Black Cast Iron
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 4 - TAP LOCATION(S)

A = Pos. A (Bypass)
C = Pos. C
E = Pos. A and C (A with 3/8" recessed plug)
F = Pos. A and C (A with 3/8" square head plug)
G = Pos. A and C (A with 3/4" square head plug)
H = Pos. A and C (A with 3/4" recessed plug)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
G = 3/8" NPT recessed hex plug
H = 3/8" NPT square head plug
J = 3/8" NPT no plug
M = 1/8" NPT hex head plug
P = 3/4" NPT recessed hex plug (1 1/4" only)
R = 3/4" NPT square head plug (1 1/4" only)

BLOCK 6 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal
B = 20LT - 20 Light swivel with flat gasket seal
C = 20LTO - 20 Light swivel with O-ring seal
D = 30LT - 30 Light swivel with flat gasket seal
E = 30LTO - 30 Light swivel with O-ring seal
F = OEM - O-Emco swivel with flat gasket seal
G = OEMO - O-Emco swivel with O-ring seal
H = 1A - 1A Sprague swivel with flat gasket seal
J = 1AO - 1A Sprague swivel with O-ring seal
K = 45LT - 45 Light swivel with flat gasket seal

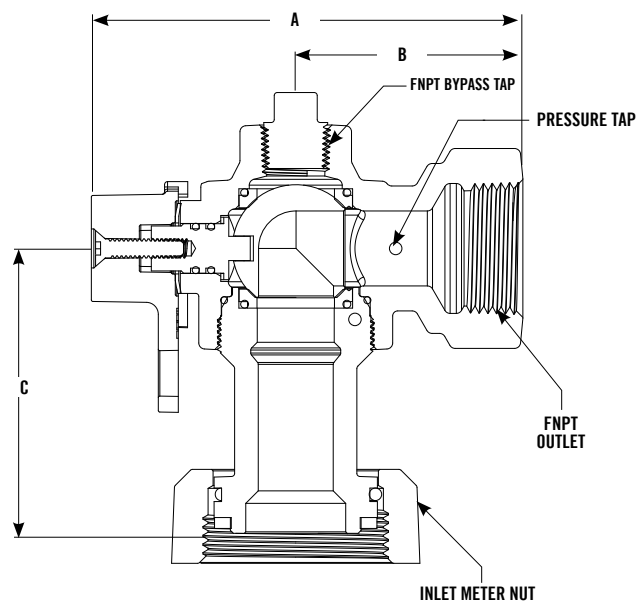
BLOCK 7 - SWIVEL SPECIAL

- = Standard swivel and nut

Angle Bypass Ball Valves - 855 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, METER SWIVEL NUT X FNPT

Can be assembled directly to the meter outlet, or assembled directly to a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

Meter Swivel Nut x FNPT

FINISH OPTIONS

855A Thermal-Diffusion Zinc

855B Black Cast Iron

855C Thermal-Diffusion Zinc and Painted

855P Painted

Taps available on all the above finish options.

DIMENSIONS

Port	FNPT Outlet	Swivel Nut Size	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4" or 1"*	10LT	3/8"	4.3"	2.3"	3.5"	See Block 4 and 5
3/4"	3/4" or 1"*	1A	3/8"	4.3"	2.3"	3.5"	
3/4"	3/4" or 1"*	OEM	3/8"	4.3"	2.3"	3.5"	
3/4"	3/4" or 1"*	20LT	3/8"	4.3"	2.2"	3.5"	
1 1/4"	1 1/4"	30LT	3/4"	5.1"	2.5"	3.5"	
1 1/4"	1 1/4"	45LT	3/4"	5.1"	2.5"	3.5"	

* 1" is reducing port



NOTE:

For external source of gas, see Portable Bypass Kit on page 42

Angle Bypass Ball Valves - 857 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, METER SWIVEL NUT X INSULATED UNION WITH FNPT TAILPIECE

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number. Please note the difference in numbers between valves without built-in swivels and valves with built-in swivels. Valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **857BAGA- 3/4X3/4 20LT** means:



BLOCK 1 - INLET TYPE

85 = Meter Swivel Nut

BLOCK 2 - OUTLET TYPE

7 = FNPT insulated O-ring union
8 = FNPT insulated flat gasket union
9 = FNPT non-insulated flat gasket union

BLOCK 3 - FINISH

A = Thermal-Diffusion Zinc
B = Black Cast Iron
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 4 - TAP LOCATION(S)

A = Pos. A (Bypass)
C = Pos. C
E = Pos. A and C (A with 3/8" recessed plug)
F = Pos. A and C (A with 3/8" square head plug)
G = Pos. A and C (A with 3/4" square head plug)
H = Pos. A and C (A with 3/4" recessed plug)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
G = 3/8" NPT recessed hex plug
H = 3/8" NPT square head plug
J = 3/8" NPT no plug
M = 1/8" NPT hex head plug
P = 3/4" NPT recessed hex plug (1 1/4" only)
R = 3/4" NPT square head plug (1 1/4" only)

BLOCK 6 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal
B = 20LT - 20 Light swivel with flat gasket seal
C = 20LTO - 20 Light swivel with O-ring seal
D = 30LT - 30 Light swivel with flat gasket seal
E = 30LTO - 30 Light swivel with O-ring seal
F = OEM - O-Emco swivel with flat gasket seal
G = OEMO - O-Emco swivel with O-ring seal
H = 1A - 1A Sprague swivel with flat gasket seal
J = 1A0 - 1A Sprague swivel with O-ring seal
K = 45LT - 45 Light swivel with flat gasket seal

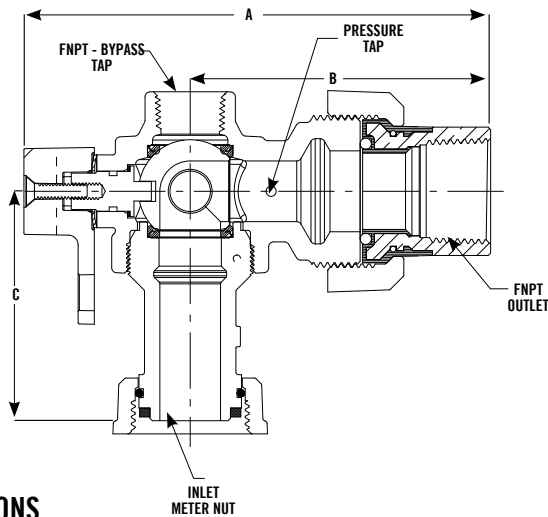
BLOCK 7 - SWIVEL SPECIAL

- = Standard swivel and nut

Angle Bypass Ball Valves - 857 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, METER SWIVEL NUT X INSULATED UNION WITH FNPT TAILPIECE

Can be assembled directly to the meter outlet, or assembled directly to a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

Meter Swivel Nut x Insulated Union with FNPT Tailpiece

DIMENSIONS

Port	FNPT Outlet	Swivel Nut Size	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4" or 1"*	10LT	3/8"	5.5" or 5.8"	3.4" or 3.7"	3.5"	See Block 4 and 5
3/4"	3/4" or 1"*	1A	3/8"	5.5" or 5.8"	3.4" or 3.7"	3.5"	
3/4"	3/4" or 1"*	OEM	3/8"	5.5" or 5.8"	3.4" or 3.7"	3.5"	
3/4"	3/4" or 1"*	20LT	3/8"	5.5" or 5.8"	3.4" or 3.7"	3.5"	
1 1/4"	1 1/4"	30LT	3/4"	6.7"	4.0"	3.5"	
1 1/4"	1 1/4"	45LT	3/4"	6.7"	4.0"	3.5"	

* 1" is reducing port



Valve O-ring Repair Union

Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end



Shown without Cast Meter Bar

NOTE:

For external source of gas, see Portable Bypass Kit on page 42

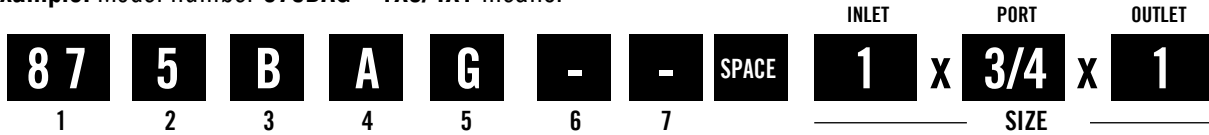
Angle Bypass Ball Valves - 875 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FEMALE UNION X FNPT

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number. Please note the difference in numbers between valves without built-in swivels and valves with built-in swivels. Valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 875BAG-- 1X3/4X1 means:



BLOCK 1 - INLET TYPE

87 = Female Union

BLOCK 2 - OUTLET TYPE

5 = FNPT

BLOCK 3 - FINISH

A = Thermal-Diffusion Zinc
 B = Black Cast Iron
 C = Thermal-Diffusion Zinc and Painted
 P = Painted

BLOCK 4 - TAP LOCATION(S)

A = Pos. A (Bypass)
 C = Pos. C
 E = Pos. A and C (A with 3/8" recessed plug)
 F = Pos. A and C (A with 3/8" square head plug)
 G = Pos. A and C (A with 3/4" square head plug)
 H = Pos. A and C (A with 3/4" recessed plug)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT no plug
 D = 1/4" NPT recessed hex plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT no plug
 G = 3/8" NPT recessed hex plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT no plug
 M = 1/8" NPT hex head plug
 P = 3/4" NPT recessed hex plug (1 1/4" only)
 R = 3/4" NPT square head plug (1 1/4" only)

BLOCK 6 - SWIVEL SIZE/TYPE

- = Female Union

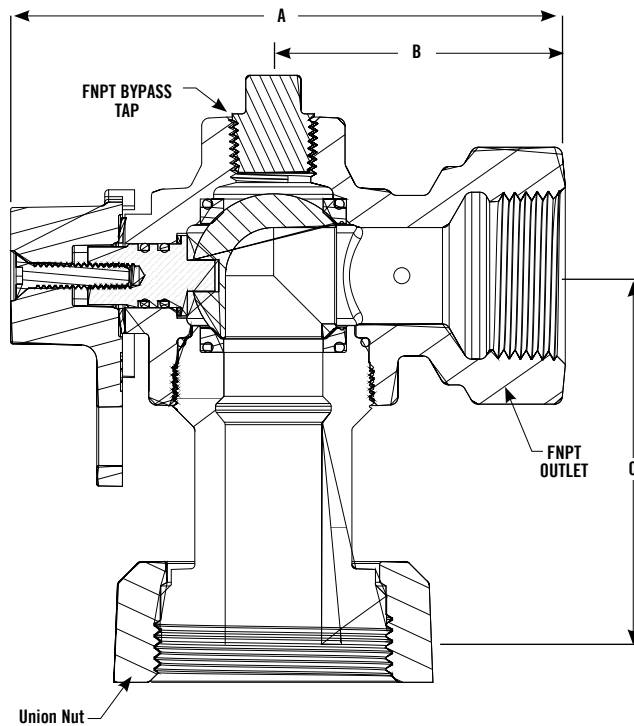
BLOCK 7 - SWIVEL SPECIAL

- = Standard swivel and nut

Angle Bypass Ball Valves - 875 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FEMALE UNION X FNPT

Can be assembled directly to a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

Female Union x FNPT

FINISH OPTIONS

875A Thermal-Diffusion Zinc

875B Black Cast Iron

875C Thermal-Diffusion Zinc and Painted

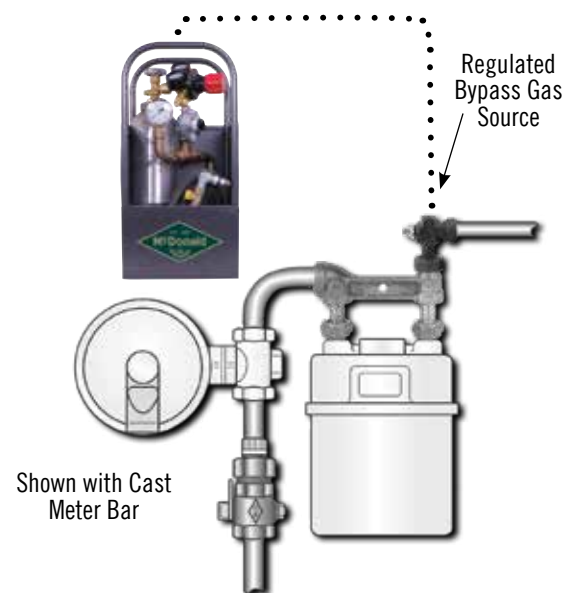
875P Painted

Taps available on all the above finish options.

DIMENSIONS

Inlet	Port	Outlet	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4"	3/4" or 1"*	3/8"	4.3"	2.3"	3.5"	See Block 4 and 5
1"	3/4"	3/4" or 1"*	3/8"	4.3"	2.3"	3.5"	
1 1/4"	1 1/4"	1 1/4"	3/4"	5.1"	2.5"	3.5"	

* 1" is reducing port



Shown with Cast Meter Bar

NOTE:

For external source of gas, see Portable Bypass Kit on page 42

Angle Bypass Ball Valves - 877 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FEMALE UNION X INSULATED UNION WITH FNPT TAILPIECE

A.Y. McDonald Mfg. Co. Angle Bypass Ball Valves can be ordered to fit your requirements. Select the features you need from the list below and build your own ordering number. Please note the difference in numbers between valves without built-in swivels and valves with built-in swivels. Valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **877BAG-- 1x3/4x1** means:



BLOCK 1 - INLET TYPE

87 = Female Union

BLOCK 2 - OUTLET TYPE

7 = FNPT insulated O-ring union
 8 = FNPT insulated flat gasket union
 9 = FNPT non-insulated flat gasket union

BLOCK 3 - FINISH

A = Thermal-Diffusion Zinc
 B = Black Cast Iron
 C = Thermal-Diffusion Zinc and Painted
 P = Painted

BLOCK 4 - TAP LOCATION(S)

A = Pos. A (Bypass)
 C = Pos. C
 E = Pos. A and C (A with 3/8" recessed plug)
 F = Pos. A and C (A with 3/8" square head plug)
 G = Pos. A and C (A with 3/4" square head plug)
 H = Pos. A and C (A with 3/4" recessed plug)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT no plug
 D = 1/4" NPT recessed hex plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT no plug
 G = 3/8" NPT recessed hex plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT no plug
 M = 1/8" NPT hex head plug
 P = 3/4" NPT recessed hex plug (1 1/4" only)
 R = 3/4" NPT square head plug (1 1/4" only)

BLOCK 6 - SWIVEL SIZE/TYPE

- = Female Union

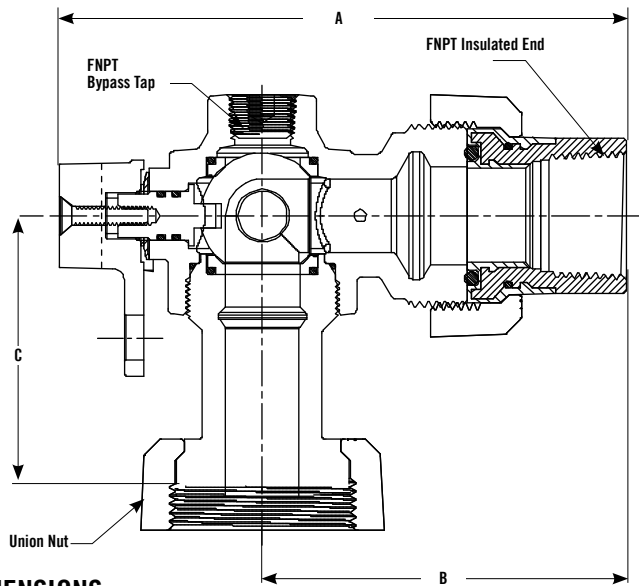
BLOCK 7 - SWIVEL SPECIAL

- = Standard swivel and nut

Angle Bypass Ball Valves - 877 Series

TAMPERPROOF, FLAT HEAD, LOCKWING, BYPASS OPTION, FEMALE UNION X INSULATED UNION WITH FNPT TAILPIECE

Can be assembled directly to the meter outlet, or assembled directly to a meter bar that provides a solid anchor to the meter set. These valves are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Inlet	Port	Outlet	Bypass Tap Size	A	B	C	Pressure Tap (Optional)
3/4"	3/4"	3/4" or 1"*	3/8"	5.5"	3.4"	3.5"	See Block 4 and 5
1"	3/4"	3/4" or 1"*	3/8"	5.8"	3.7"	3.5"	
1 1/4"	1 1/4"	1 1/4"	3/4"	6.7"	4.0"	3.5"	

* 1" is reducing port



Valve O-ring Repair Union

Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end



(Black Cast Iron Shown)

Female Union x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

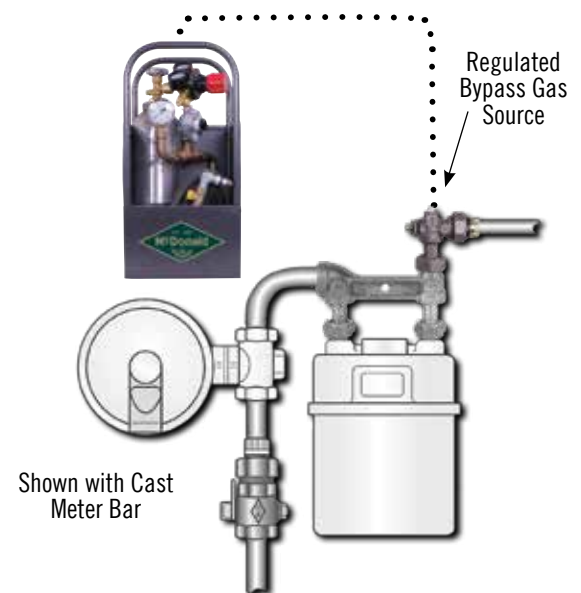
877A Thermal-Diffusion Zinc

877B Black Cast Iron

877C Thermal-Diffusion Zinc and Painted

877P Painted

Taps available on all the above finish options.



Shown with Cast Meter Bar

NOTE:

For external source of gas, see Portable Bypass Kit on page 42



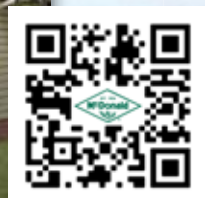
CORROSION PROTECTION JUST WENT FROM BETTER TO BEST



Thermal-Diffusion Zinc VS Zinc Plating

- Coating thickness = .00197"
- Strong bond, resistant to gouging
- Intermetallic layers
- Coating thickness = .0006"
- Thin layer of zinc can be scratched off and gouged

CHECK OUT THE VIDEO TO LEARN MORE



CLICK ON THE HOUSE TO VIEW THE YOUTUBE VIDEO OR SCAN THE QR CODE



**WITHOUT
YOU
THERE IS
NO US.**



Bypass Support Kits

November 2024



Portable Bypass Kit (PBK) - 891 Series

A.Y. McDonald Mfg. Co. brings both safety and convenience to the natural gas industry: the Portable Bypass Kit. This durable and lightweight kit is designed to provide technicians with a safe and easy transport option to the job site when bypassing a meter set for inspection, maintenance, or testing. Ex: meter change is maintenance. The Portable Bypass Kit can be used with our angle body valves and bypass bars, allowing continuous service to the customer. This means no reschedules, no loss of pilot lights, and no interruption of service. With adapter valve sizes of 1/4" or 3/8" and regulator pressure settings of 5"-10" WC or 2 psi, the user experiences flexibility in the meter sets they are servicing.



FEATURES / BENEFITS / SAFETY:

- All-in-one system: regulator, gauges, and cylinder
- Made of durable materials for a long-lasting product, yet lightweight for easy transportation from service truck to service location
 - Powder coated
 - Designed to protect gauges and components while easily visible to the technician
- Dimensions of 11" x 9.5" x 23" and complete weight of 28 pounds
- Gas Hose rated to 350 psi with a spring guard
- Regulator pressure settings of 5"-10" WC or 2 psi
- Optional adapter valve size of 1/4" or 3/8" adapters
- Optional Quick Thread HP Adapter for easy cylinder refill or connection to backup cylinder
- CGA 350 Aluminum Cylinder rated to 2216 psi
- Natural gas rated cylinder, hose, and adapters



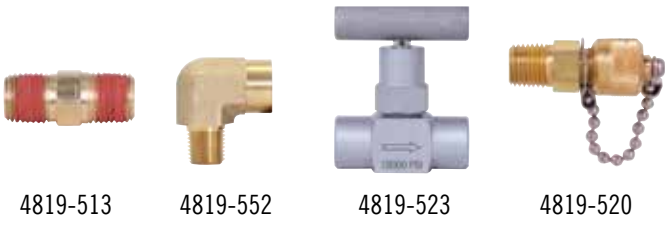
Portable Bypass Kit
Instruction Sheet

Portable Bypass Kit

Part #	Models
4819-000	891-B0AA-- PBK 5"-10" WC 1/4" Adapter Aluminum Box
4819-001	891-B2AA-- PBK 2 psi 1/4" Adapter Aluminum Box
4819-002	891-B0AB-- PBK 5"-10" WC 3/8" Adapter Aluminum Box
4819-003	891-B2AB-- PBK 2 psi 3/8" Adapter Aluminum Box



Portable Bypass Kit - Add On Parts



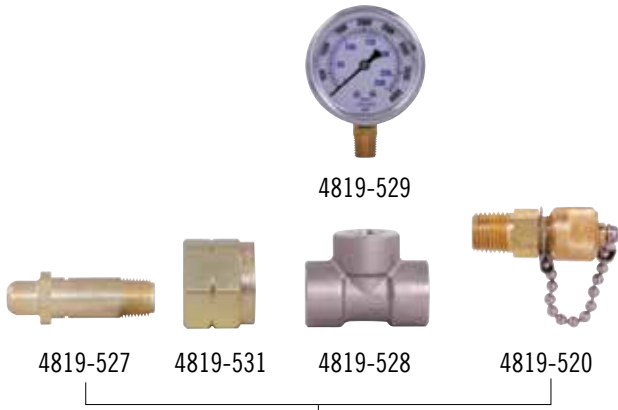
PBK Tank Threaded HP Quick Fill Adapter

Part #	Add On Parts
4819-004	891HPNPT PBK Threaded HP Quick Fill Adapter
4819-513	Hex Nipple 1/4" Male Natural Gas Brass w/ Vibraseal
4819-520	Quick Thread Natural Gas Adapter Fitting 1/4" MNPT
4819-523	Natural Gas Needle Valve 1/4" FNPT
4819-552	Elbow 90° 1/4" MNPT x FNPT High Pressure Brass



Extension Adapter Connection with Valve

Part #	Add On Parts
4819-006	891 PBK 1/4" NPT Tap Extension Adapter Connection with Valve
4819-524	Hex Nipple 3/8" x 1/4" MNPT Swivel Connection Steel
4819-526	Ball Valve 1/4" - Tee Handle Brass
4819-525	Hex Nipple Long 1/4" MNPT Brass



Charging Station Threaded HP Quick Fill Adapter

Part #	Add On Parts
4819-005	891HPCGA PBK Threaded HP Quick Fill Adapter
4819-529	Gauge Natural Gas (Makes up 4819-005)
4819-527	CGA 350 X 1/4 MNPT Adapter Nipple
4819-531	CGA 350 LH Thread Adapter Nut
4819-528	Tee 1/4" Natural Gas FNPT
4819-520	Quick Thread Natural Gas Adapter Fitting 1/4" MNPT



Quick Thread Hose
(Used to connect Quick Fill Adapters)

Part #	Add On Parts
4819-521	Quick Thread Natural Gas Hose, 5000 psi rating - 5 ft

Portable Bypass Kit - Replacement Parts



4819-504



4819-505



4819-506



4819-507



4819-508



4819-511



4819-512



4819-513



4819-514



4819-515



4819-516



4819-517



4819-518



4819-520



4819-522



4819-523



4819-524



4819-525



4819-526



4819-527



4819-528



4819-529



4819-531



4819-552



5422-094



4901-161

Part #	Replacement Parts
4819-504	Aluminum Bypass Box - Complete Weld and Powder Coat
4819-505	CGA 350 Aluminum Cylinder
4819-506	Natural Gas Regulator - Methane
4819-507	Low Pressure Regulator 5" - 10" WC
4819-508	CNG 1/2" NPT Hose w/ Spring Guard
4819-511	Bypass Box Elbow 1/2" MNPT x 1/2" FNPT
4819-512	Bypass Box Elbow 1/2" MNPT x 1/4" FNPT
4819-513	Hex Nipple 1/4" Male Natural Gas Brass w/ Vibraseal
4819-514	Hex Nipple 3/8" x 1/2" MNPT Brass w/ Vibraseal
4819-515	Elbow 90° 1/2" MNPT x 3/8" NPSM Swivel Steel Plated
4819-516	Hex Nipple 3/8" MNPT Swivel Connection Steel Plated
4819-517	Low Pressure Gauge 0"-15" WC
4819-518	Low Pressure Gauge 0-5 psi

Part #	Replacement Parts
4819-520	Quick Thread Natural Gas Adapter Fitting 1/4" MNPT (Stand Alone Fitting)*
4819-522	Low Pressure Regulator .5 - 2.7 psi
4819-523	Natural Gas Needle Valve 1/4" FNPT
4819-524	Hex Nipple 3/8" x 1/4" MNPT Swivel Connection Steel (Makes up 4819-006)*
4819-525	Hex Nipple Long 1/4" MNPT Brass (Makes up 4819-006)
4819-526	Ball Valve 1/4" - Tee Handle Brass (Makes up 4819-006)
4819-527	CGA 350 X 1/4 MNPT Adapter Nipple (Makes up 4819-005)
4819-528	Tee 1/4" Natural Gas FNPT (Makes up 4819-005)
4819-529	High Pressure Gauge 4000 psi (Makes up 4819-005)
4819-531	CGA 350 LH Thread Adapter Nut (Makes up 4819-005)
4819-552	Elbow 90° 1/4" MNPT x FNPT High Pressure Brass
5422-094	72230 1/2" x 1/4" Reducing Tee - NL
4901-161	10710Y 1/2" Gas Ball Valve CSA Yellow Handle

Regulated Hose Kit (RHK) - 894 Series

A.Y. McDonald Mfg. Co. is excited to announce a product that brings both safety and convenience to the natural gas industry: the Regulated Hose Kit. This durable and lightweight kit is designed to provide technicians with a safe and easy transport option without the need of an external source of gas to the job site when bypassing a meter set for inspection, maintenance, meter change out, regulator, riser valve, or sample testing. The Regulated Hose Kit can be used with our angle body valves and inline bypass ball valves, allowing continuous service to the customer. This means no reschedules, no loss of pilot lights, and no interruption of service. Having an adapter valve size of 3/8" and regulator pressure of 6"-8" WC gives the user flexibility in the meter sets they are servicing.



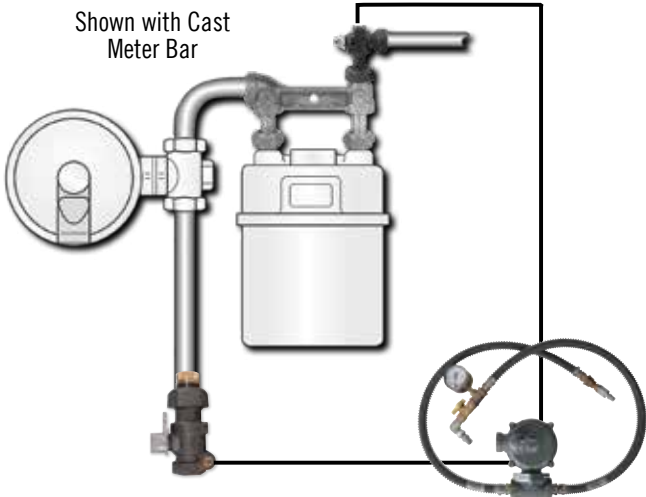
4819-019

FEATURES / BENEFITS / SAFETY:

- All-in-one system: regulator, gauges and hoses
- Made of durable materials for a long-lasting product - yet lightweight for easy transportation from service truck to service location
- Natural Gas Hose rated to 350 psi with a spring guard
- Regulator pressure settings 6"-8" WC
- Adapter valve size of 1/4", 3/8", or 3/4"



4819-020
Case designed to protect gauges and components



Regulated Hose Kit

Part #	Models
4819-019	894-AHAHAE- RHK 7IN WC 1/4" In x 3/8" Out 3/4" x 3/4" Reg Spring Hose
4819-020	894-AHAHAEA RHK 7IN WC 1/4" In x 3/8" Out 3/4" x 3/4" Reg Spring Hose w/Case
4819-022	894-DDDDADA RHK 8IN WC 3/4" In x 3/4" Out 3/4" x 3/4" Reg Spring Hose w/Case
4819-023	894-EDDDADA RHK 8IN WC 1/4" In x 3/4" Out 3/4" x 3/4" Reg Spring Hose w/Case

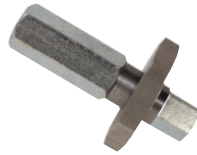
Regulated Hose Kit - Replacement Parts



4042-504



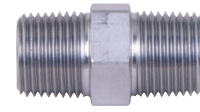
4818-004



4818-025



4819-515



4819-516



4819-517



4819-547



4819-548



4819-549



4819-550



4901-161



5422-094



5429-082



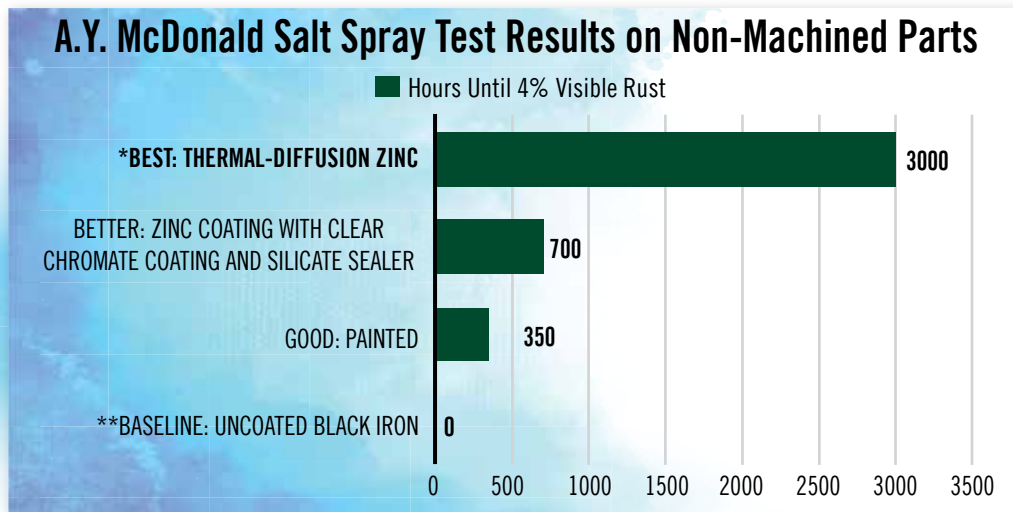
4422-338

Part #	Replacement Parts
4042-504	Case w/Foam
4818-004	861Key Inline Bypass Ball Valve Key Assembly
4818-005	861Key 1 1/4" Inline Bypass Ball Valve Key
4819-515	Elbow 90° 1/2" MNPT x 3/8" NPSM Swivel Steel Plated
4819-516	Hex Nipple 3/8" MNPT Swivel Connection Steel Plated
4819-517	Low Pressure Gauge 0"-15" WC
4819-547	Belgas P140 3/4" x 3/4" 1/8 ORF 7WC Hose Kit Regulator

Part #	Replacement Parts
4819-548	CNG 1/2" NPT 3 FT Hose 1/2" x 3/4" MNPT w/Spring Guard
4819-549	Quick Connect Body 1/4 MNPT
4819-550	Quick Connect Plug 1/4 MNPT
4901-161	10710Y 1/2" Gas Ball Valve CSA Yellow Handle
5422-094	72230 1/2" x 1/4" Reducing Tee - NL
5429-082	72210D 1/2" x 1/4" Reducing Coupling Domestic - NL
4422-338	2200 1/2" Pipe Nipple Close

CORROSION PROTECTION JUST WENT FROM BETTER TO BEST

Thermal-Diffusion Zinc



Benefits – Why Thermal-Diffusion Zinc?

- Not just a coating, it is a bond. Thermal-Diffusion Zinc is a coating that is environmentally friendly and is uniformly applied on all external and internal surfaces to create a bond with the casting.
- The Thermal-Diffusion Zinc bond provides excellent adhesion properties for paint**
- Extensive use in marine and automotive environments, as well as electrical utility applications.
- Strength of iron castings with premium corrosion protection



Check out the video!

Disclaimers:

- * = Uncoated Black Cast Iron Will Rust in 24 Hours or Less After Initial Exposure to Salt Spray Environment
- ** = Test Stopped at 3000 Hours without Failure. Paint can be applied over Thermal-Diffusion Zinc for additional corrosion benefits.



WE TAKE CARE OF CUSTOMERS BETTER THAN ANYONE ELSE.

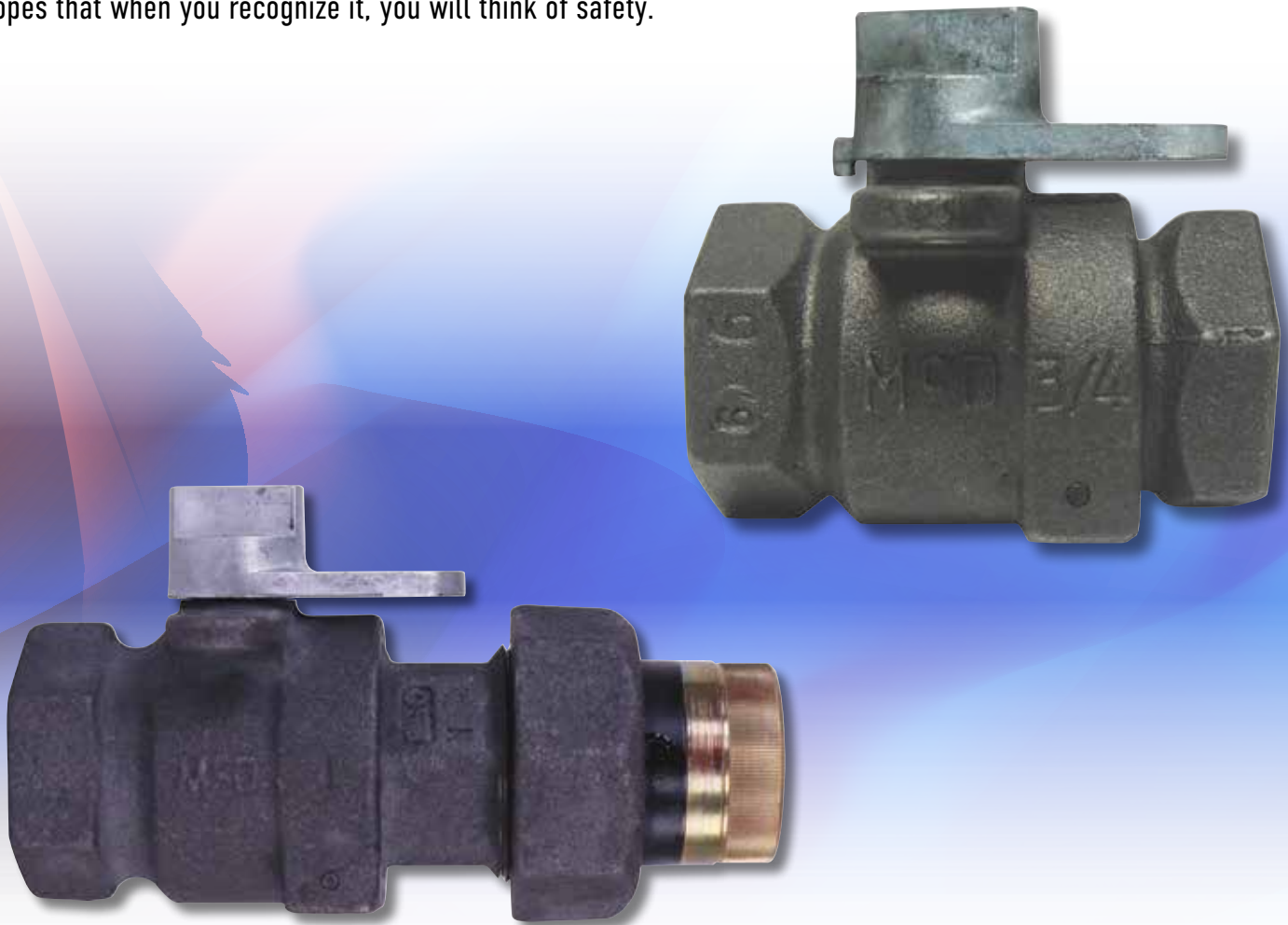
Let us make your life easier!

sales@aymcdonald.com | 800.292.2737 | aymcdonald.com

YOU CAN'T SPELL SAFETY WITHOUT A.Y.

SAFETY - NO ROOM FOR MISTAKES. BALL VALVES.

As a solution that can make life for you and your customers' that much easier, A.Y. McDonald Mfg. Co.'s Gas Ball Valve is a pretty big deal. We proudly place our name on each and every A.Y. McDonald Mfg. Co. gas valve in the hopes that when you recognize it, you will think of safety.



**WE TAKE CARE OF CUSTOMERS
BETTER THAN ANYONE ELSE.**

Let us make your life easier!

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WITHOUT
YOU
THERE IS
NO **US.**



Cast Iron Meter Bars

November 2024



Cast Iron Meter Bars

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars are constructed from a durable one piece I-Beam construction to protect the meter from piping stresses and ensure a solid installation.

Cast Iron Meter Bars without Integral Swivels

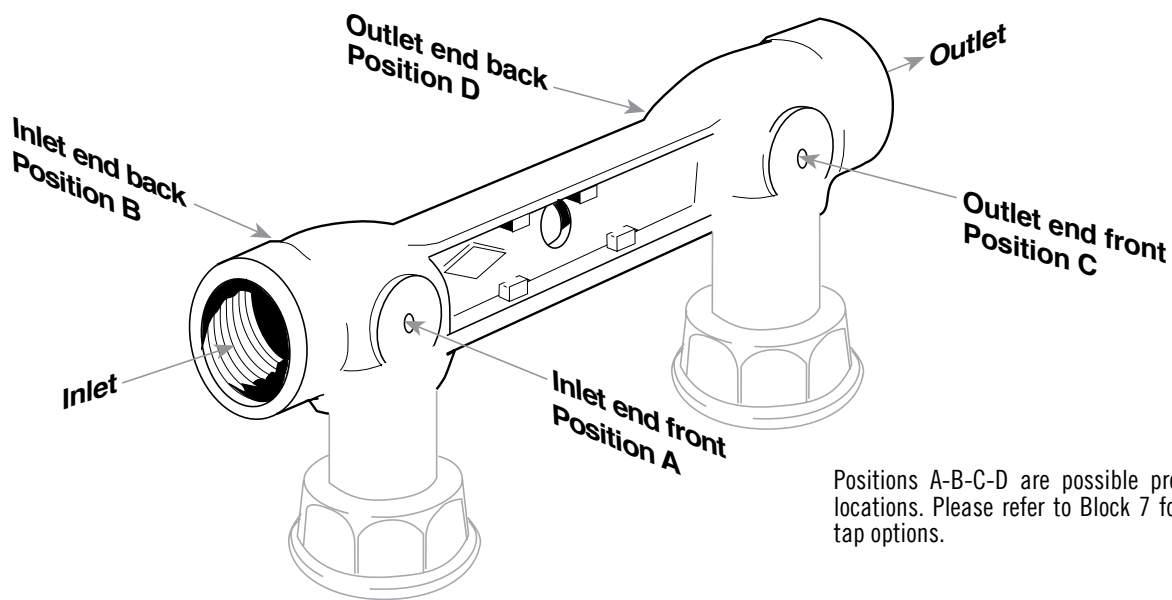
NPT threads are provided on the inlet, outlet, and bottom swivel taps. A. Y. McDonald Mfg. Co. meter bars can fit most requirements by using them with a combination of straight or offset meter swivels.

Gas Meter Bars with Integral Swivels

NPT threads are provided on the inlet and outlet taps. Special meter swivels are integral to the meter bar, thus decreasing leakage potential and improving convenience of handling and maintenance. Swivels are provided with flat gaskets or O-rings.

All connections with pipe threads require use of thread sealant at installation. (PTFE tape is not recommended, see instruction sheet.)

Cast Iron Meter Bars



Positions A-B-C-D are possible pressure tap locations. Please refer to Block 7 for pressure tap options.

INLET AND OUTLET CONNECTIONS

NPT inlet tapping provides a solid connection directly into the bar. Outlets are provided with NPT integral or union type connections. Union connections have a flat rubber gasket or an O-ring seal.

INSULATED UNION OUTLET

The union outlet can be insulated to minimize electrolysis.



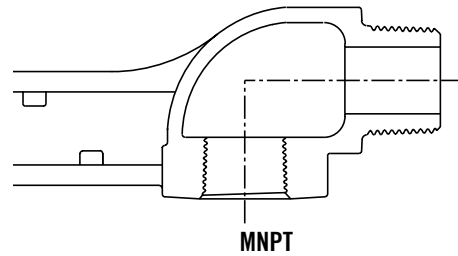
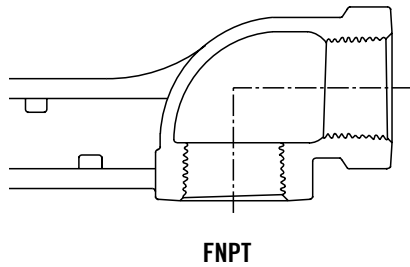
Meter Bar
Instruction Sheet

Note: Each meter bar is pressure tested electronically at a minimum of 60 psi. These bars are intended for use with natural, manufactured, and LP gases only.

Material Specifications

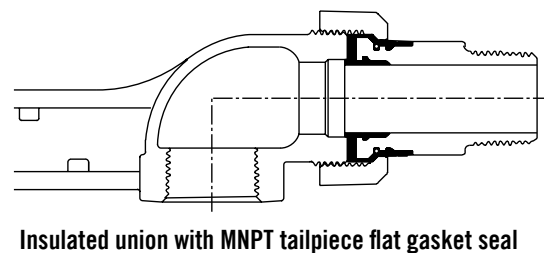
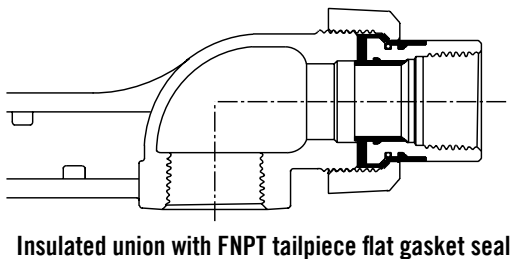
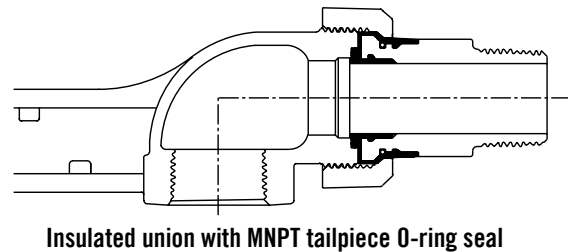
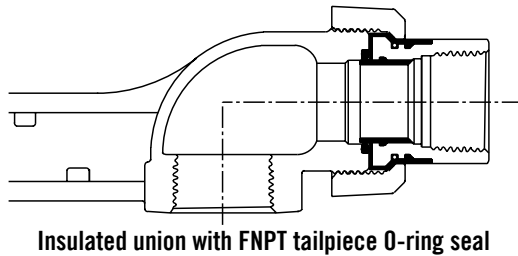
- METER BAR** - Cast iron per ASTM A126 Class B
- UNION NUT** - Malleable iron per ASTM A47 or Ductile iron per ASTM A536
- UNION TAILPIECES** - Zinc plated yellow dichromate finished steel
- INSULATED UNION TAILPIECES** - Super tough nylon 66 insulation
- FLAT GASKET/O-rings** - Buna-N suitable for use with natural, manufactured, and LP gases
- SWIVELS AND SWIVEL NUTS** - Malleable iron per ASTM A47 or Ductile iron per ASTM A536
- METER PLUGS** - Cast iron per ASTM A126 Class B

Integral Outlets - Block 6

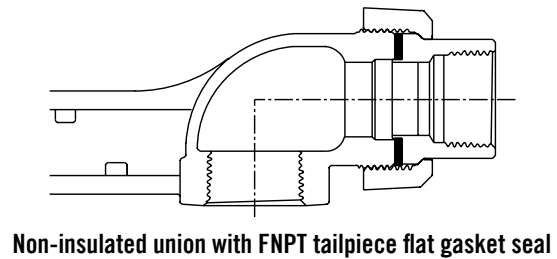
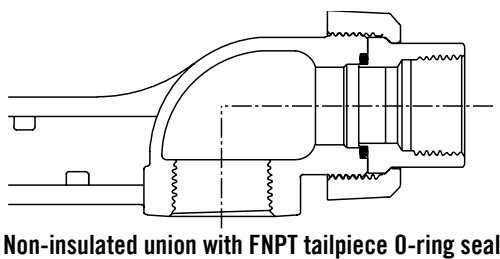


Insulated Union Outlets - Block 6

- Insulated tailpiece has second O-ring molded into the plastic to improve sealing without over-tightening the union nut.



Non-Insulated Union Outlets - Block 6



Cast Iron Meter Bars

Cast Iron Meter Bars - 6600 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6600-CCE 1x1** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

0 = 6 1/2" spread

BLOCK 4 - CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

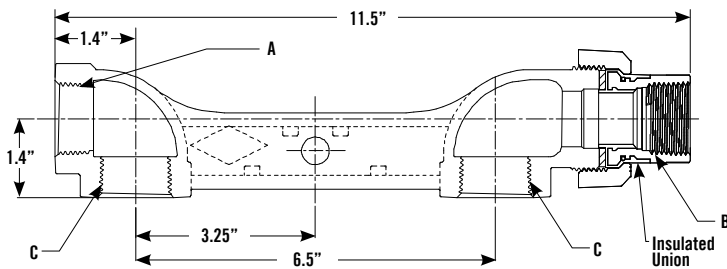
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6600 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



FNPT x Insulated Union with FNPT Tailpiece (Black Cast Iron Shown)



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6 1/2"	3/4" or 1"	3/4" or 1"	3/4" or 1"

Meter Bar Gasket Repair Union

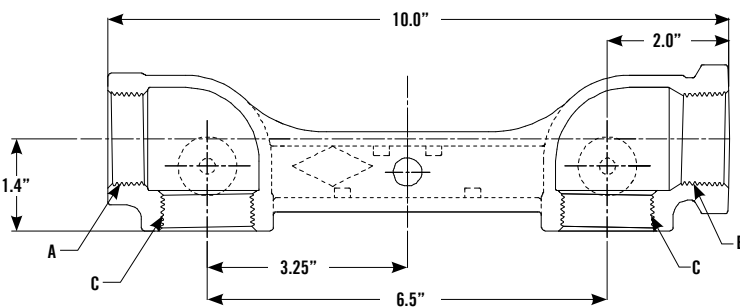
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



FNPT x FNPT (Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6 1/2"	3/4" or 1"	3/4" or 1"	3/4" or 1"

FINISH OPTIONS

6600- Black Cast Iron

6600A Thermal-Diffusion Zinc

6600C Thermal-Diffusion Zinc and Painted

6600P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 52.

For other options, see page 52.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars - 6610 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6610-CAB 1x1** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

M = MNPT

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

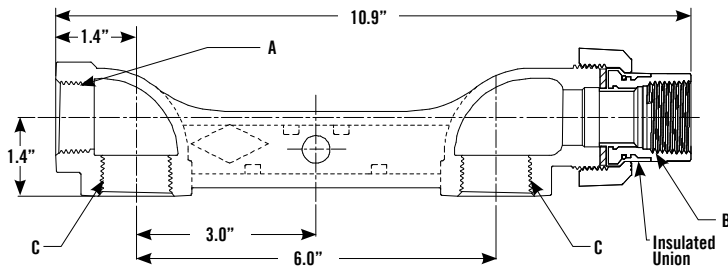
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6610 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"

Meter Bar Gasket Repair Union

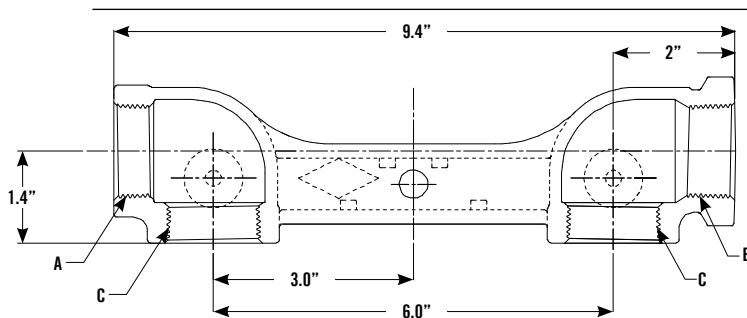
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"
6"	1 1/2"	1 1/2"	1 1/2"

FINISH OPTIONS

6610- Black Cast Iron

6610A Thermal-Diffusion Zinc

6610C Thermal-Diffusion Zinc and Painted

6610P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 54.

For other options, see page 54.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

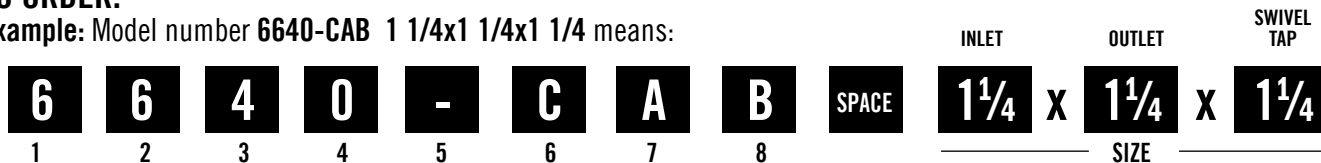
Cast Iron Meter Bars - 6640 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6640-CAB 1 1/4x1 1/4x1 1/4** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

4 = 7" spread

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

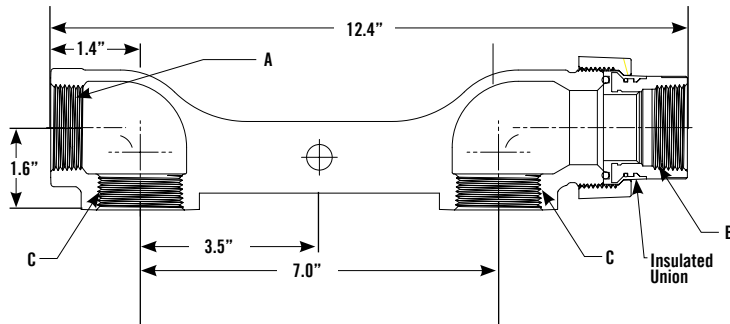
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6640 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



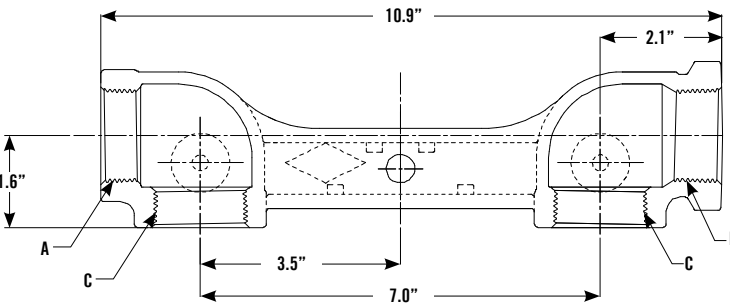
DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"

Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"

FINISH OPTIONS

- 6640- Black Cast Iron
- 6640A Thermal-Diffusion Zinc
- 6640C Thermal-Diffusion Zinc and Painted
- 6640P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 56.

For other options, see page 56.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars - 6604 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6604-CAB 1x1** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

0 = 6 1/2" spread

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

Q = Male 20LT meter thread

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

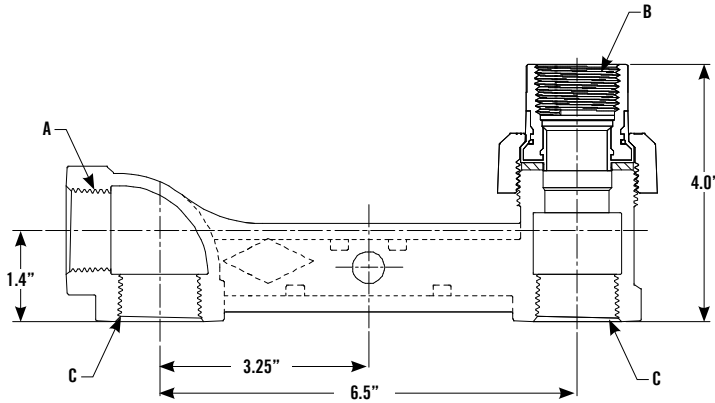
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6604 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



FNPT x Insulated Union with FNPT Tailpiece

(Black Cast Iron Shown)



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6 1/2"	3/4" or 1"	3/4" or 1"	3/4" or 1"

Meter Bar Gasket Repair Union

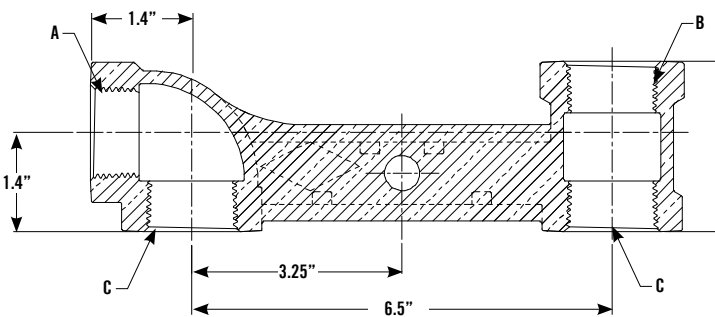
Outlet Size	Insulated End		Gasket	Black Nut	Thermal-Diffusion Zinc Nut	
	6301RB	6301RA				
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	Insulated End		O-ring	Black Nut	Thermal-Diffusion Zinc Nut	
	6302RB	6302RA				
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



FNPT x FNPT

(Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6 1/2"	3/4" or 1"	3/4" or 1"	3/4" or 1"

FINISH OPTIONS

6604- Black Cast Iron

6604A Thermal-Diffusion Zinc

6604C Thermal-Diffusion Zinc and Painted

6604P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 58.

For other options, see page 58.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars - 6614 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6614-CAB 1x1x1** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

Q = Male 20LT meter thread

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

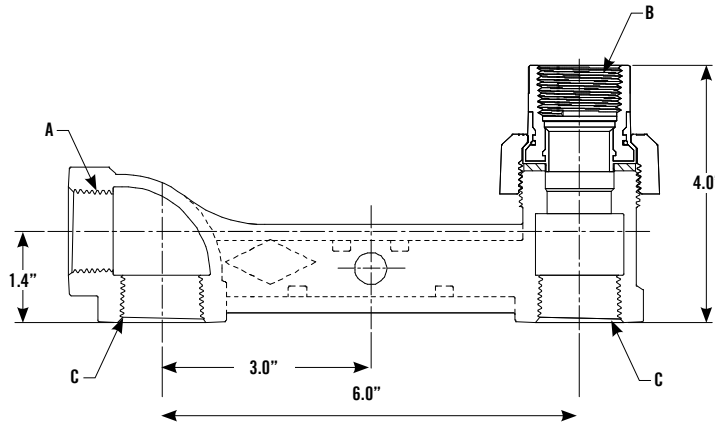
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6614 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"



FNPT x Insulated Union with FNPT Tailpiece

(Black Cast Iron Shown)



Meter Bar Gasket Repair Union

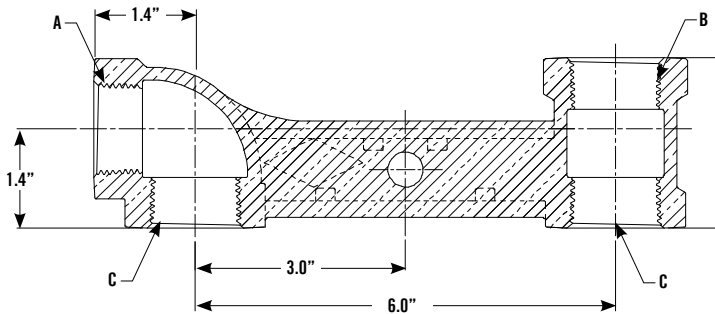
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"



FNPT x FNPT

(Black Cast Iron Shown)

FINISH OPTIONS

- 6614- Black Cast Iron
- 6614A Thermal-Diffusion Zinc
- 6614C Thermal-Diffusion Zinc and Painted
- 6614P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 60.

For other options, see page 60.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars

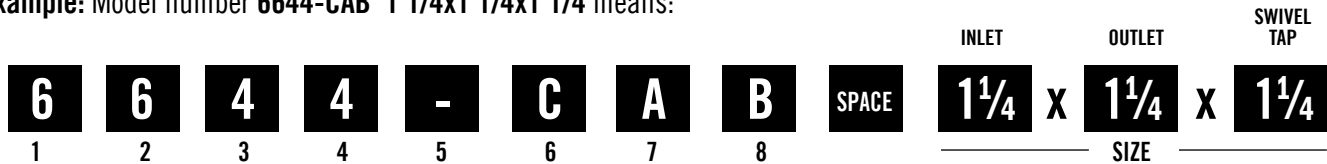
Cast Iron Meter Bars - 6644 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6644-CAB 1 1/4x1 1/4x1 1/4 means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

4 = 7" spread

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

C = FNPT insulated O-ring union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

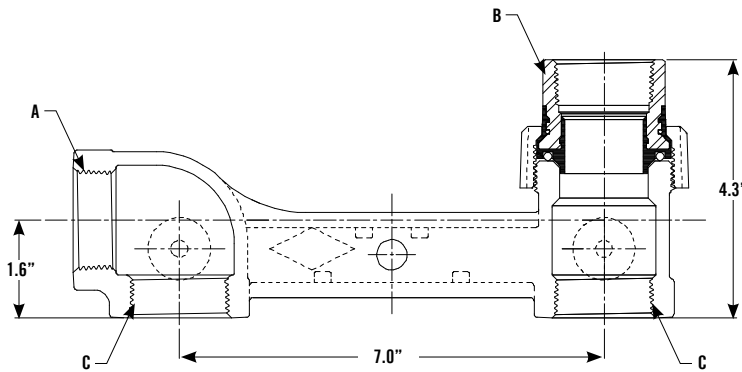
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6644 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



FNPT x Insulated Union with FNPT Tailpiece

(Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"

FINISH OPTIONS

6644- Black Cast Iron

6644A Thermal-Diffusion Zinc

6644C Thermal-Diffusion Zinc and Painted

6644P Painted

Taps available on all the above finish options.



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end

NOTE:

For side taps, see pages 50 and 62.

For other options, see page 62.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars - 6684 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6684-CAB 1 1/4x1 1/4x1 1/4** means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

8 = 8 1/4" spread

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

X = Male 30LT meter thread

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

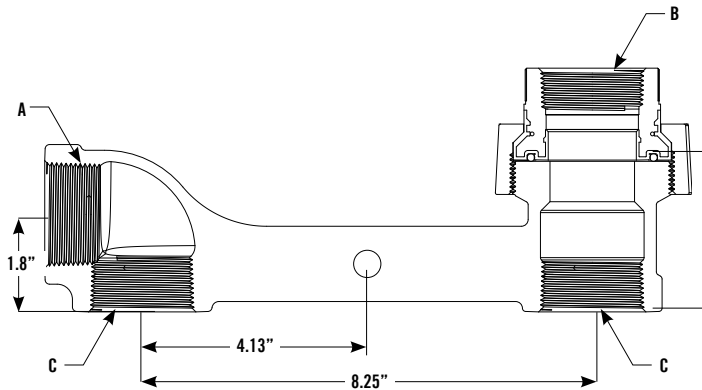
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars - 6684 Series

HORIZONTAL INLET AND VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



FNPT x Insulated Union with FNPT Tailpiece (Black Cast Iron Shown)



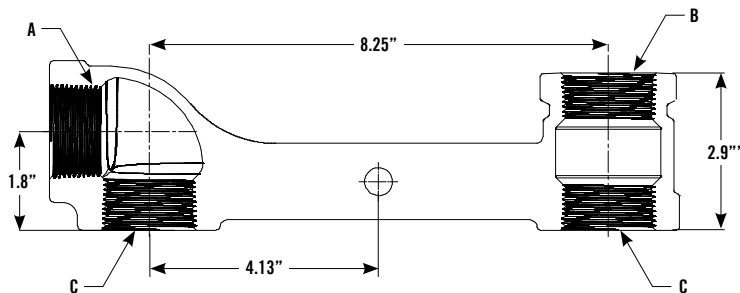
DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C FNPT Swivel Tap Size
8 1/4"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"

Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844
1 1/2"	4821-068	4821-070	4811-658	3134-227	4820-262	4811-848

O-ring included with insulated end



FNPT x FNPT (Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
8 1/4"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"

FINISH OPTIONS

6684- Black Cast Iron

6684A Thermal-Diffusion Zinc

6684C Thermal-Diffusion Zinc and Painted

6684P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 64.

For other options, see page 64.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Cast Integral Swivels - 6560 Series

HORIZONTAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6560-CAAB- 1x1 20LT means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with MNPT inlet

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

M = MNPT

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

F = 1/4" NPT square head plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

F = OEM - O-Emco swivel with flat gasket seal

G = OEMO - O-Emco swivel with O-ring seal

H = 1A - 1A Sprague swivel with flat gasket seal

J = 1A0 - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

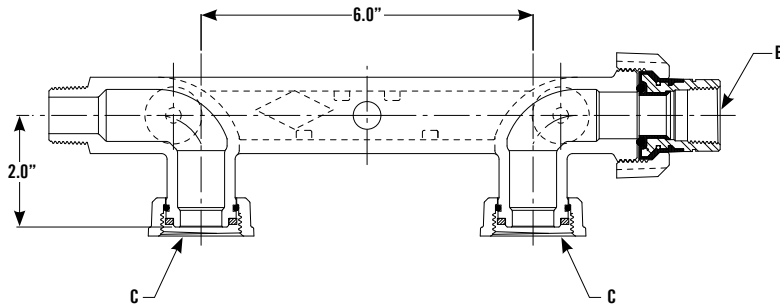
- = Standard swivel and nut

D = Brass nuts (20LT only)

Cast Iron Meter Bars with Cast Integral Swivels - 6560 Series

HORIZONTAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



MNPT x Insulated Union with FNPT Tailpiece



DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

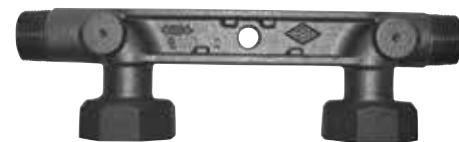
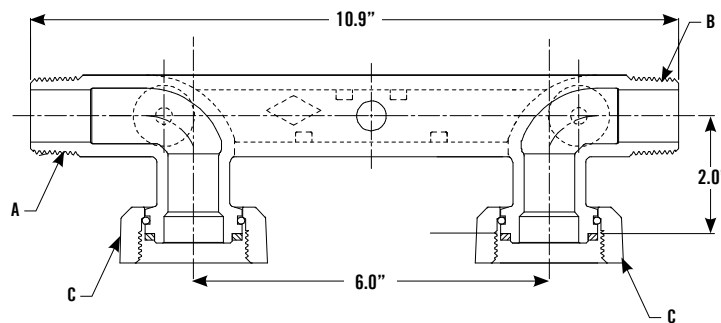
Meter Bar Gasket Repair Union

Outlet Size	6301RB		6301RA		Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
	4821-005	4821-073	4811-623	4822-404	4822-222	4822-223	4810-987	4822-474
3/4"								
1"	4821-013	4821-076	4822-404	4822-223	4810-987			4811-803

Meter Bar O-ring Repair Union

Outlet Size	6302RB		6302RA		Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
	4821-080	4821-082	4811-599	4822-404	4811-599	3134-212	4822-356	4822-474
3/4"								
1"	4821-065	4821-067	4822-404	3134-216	4810-987			4811-803

O-ring included with insulated end except 1"



(Black Cast Iron Shown)
MNPT x MNPT

DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B MNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

FINISH OPTIONS

6560- Black Cast Iron

6560A Thermal-Diffusion Zinc

6560C Thermal-Diffusion Zinc and Painted

6560P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 66.

For other options, see page 66.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Integral Swivels - 6564 Series

HORIZONTAL MNPT INLET AND VERTICAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6564-CCEB- 1x1 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with MNPT inlet

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

F = FNPT insulated flat gasket union

Q = Male 20LT meter thread

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

F = OEM - O-Emco swivel with flat gasket seal

G = OEMO - O-Emco swivel with O-ring seal

H = 1A - 1A Sprague swivel with flat gasket seal

J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

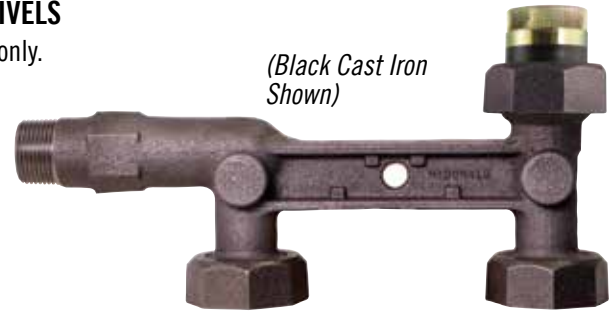
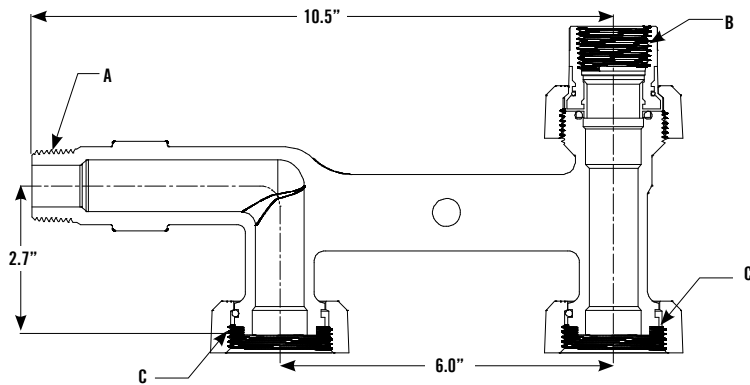
- = Standard swivel and nuts

D = Brass nuts (20LT only)

Cast Iron Meter Bars with Integral Swivels - 6564 Series

HORIZONTAL MNPT INLET AND VERTICAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

MNPT x Insulated Union with FNPT Tailpiece



DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

Meter Bar Gasket Repair Union

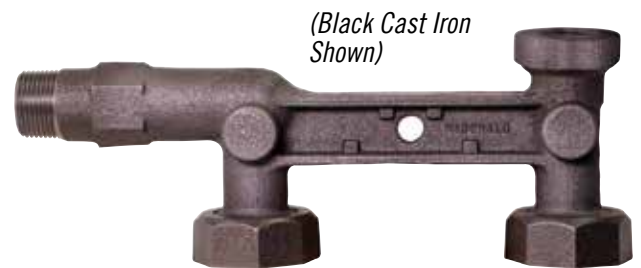
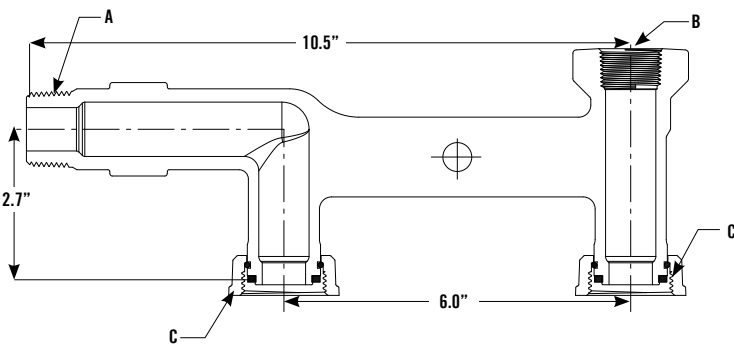
Outlet Size	Insulated End			Thermal-Diffusion		
	Gasket	Black Nut	Zinc Nut			
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803

Cast Iron Meter Bars

Meter Bar O-ring Repair Union

Outlet Size	Insulated End			Thermal-Diffusion		
	O-ring	Black Nut	Zinc Nut			
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



(Black Cast Iron Shown)

MNPT x FNPT

DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	1"	3/4"	10LT, 20LT, OEM, or 1A

FINISH OPTIONS

6564- Black Cast Iron

6564A Thermal-Diffusion Zinc

6564C Thermal-Diffusion Zinc and Painted

6564P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 68.

For other options, see page 68.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Cast Integral Swivels - 6568 Series

VERTICAL MNPT INLET AND VERTICAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6568-CAAB- 1x1 20LTX3 means:

6	5	6	8	-	C	A	A	B	-	SPACE	INLET 1	X	OUTLET 1	SPACE	SWIVEL 20LT	INLET HEIGHT X3
1	2	3	4	5	6	7	8	9	10							11

Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with MNPT inlet

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

8 = Vertical elbow inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

Q = Male 20LT meter thread

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

F = OEM - O-Emco swivel with flat gasket seal

G = OEMO - O-Emco swivel with O-ring seal

H = 1A - 1A Sprague swivel with flat gasket seal

J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nut

D = Brass nuts (20LT only)

BLOCK 11 - INLET HEIGHT

X3 = 3.3" height from inlet to swivel

X6 = 5.7" height from inlet to swivel

Typical Installation

FEATURES:

- **Strength** - Solid One Piece Cast Iron Construction
- **Accuracy** - Correct Meter Alignment Every Time
- **Time** - Ready to Install From Factory
- **Safety** - Fewer Leak Paths Connect Directly to Regulator
- **Space** - Compact Meter Sets



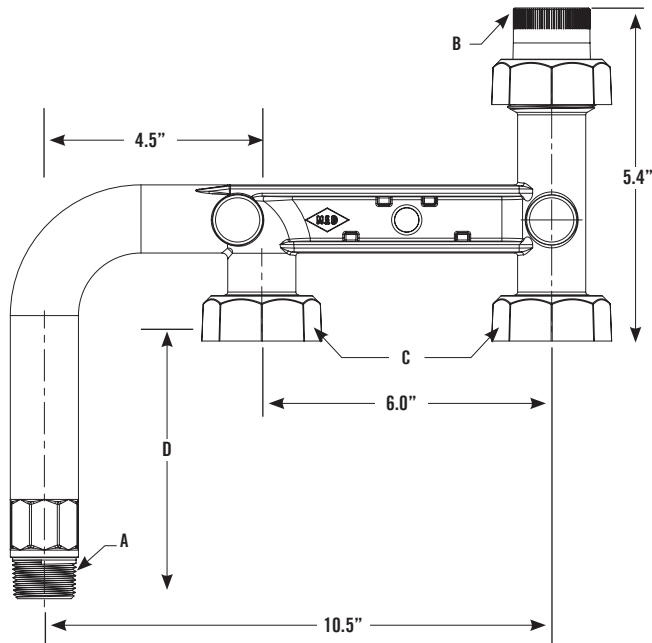
WARNING

Over torquing may occur when the regulator is tightened on with the correct orientation and another turn is attempted to get the regulator positioned all the way around, which can cause the casting to crack. Therefore, when attaching the regulator to the cast inlet connection, please use caution not to over tighten. Use a wrench on the meter bar hexagon for assembly.

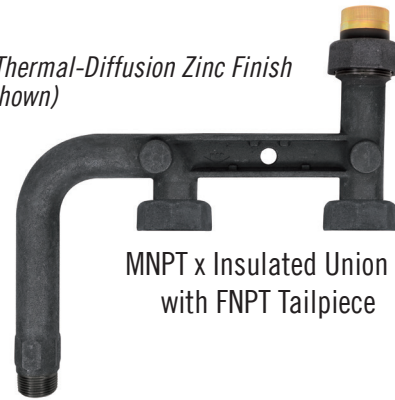
Cast Iron Meter Bars with Cast Integral Swivels - 6568 Series

VERTICAL MNPT INLET AND VERTICAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



(Thermal-Diffusion Zinc Finish Shown)



MNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6568- Black Cast Iron
 - 6568A Thermal-Diffusion Zinc
 - 6568C Thermal-Diffusion Zinc and Painted
 - 6568P Painted
- Taps available on all the above finish options.

DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size	D Inlet Height
6"	1"	3/4" or 1"	20LT, OEM, or 1A	3.3" or 5.7"



Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"

NOTE:

For side taps, see pages 50 and 70.
For other options, see page 70.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Cast Integral Swivels - 6569 Series

VERTICAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6569-CAAB- 1x1 20LT means:

										INLET	X	OUTLET	SPACE	SWIVEL
6	5	6	9	-	C	A	A	B	-	SPACE	1	1	SPACE	20LT
1	2	3	4	5	6	7	8	9	10	SIZE				

BLOCK 1 - METER BAR
6 = All meter bars

BLOCK 2 - METER BAR TYPE
5 = Standard meter bar with MNPT inlet

BLOCK 3 - METER BAR SPREAD
6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION
9 = Vertical elbow inlet by horizontal outlet

BLOCK 5 - FINISH
- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET TYPE
C = FNPT insulated O-ring union
E = FNPT insulated flat gasket union (reducing NPT)
F = FNPT insulated flat gasket union
H = MNPT insulated O-ring union
M = MNPT
S = FNPT non-insulated O-ring union
U = FNPT non-insulated flat gasket union
W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)
- = No tap
A = Pos. A
B = Pos. B
C = Pos. C
D = Pos. D
E = Pos. A and B
H = Pos. A and C
J = Pos. A and D
K = Pos. B and C
L = Pos. B and D
N = Pos. C and D
Q = Pos. A, B, and C
R = Pos. A, B, and D
T = Pos. A, C, and D
W = Pos. B, C, and D
X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE
- = No tap
A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE
A = 10LT - 10 Light swivel with flat gasket seal
B = 20LT - 20 Light swivel with flat gasket seal
C = 20LTO - 20 Light swivel with O-ring seal
F = OEM - O-Emco swivel with flat gasket seal
G = OEMO - O-Emco swivel with O-ring seal
H = 1A - 1A Sprague swivel with flat gasket seal
J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL
- = Standard swivel and nuts
D = Brass nuts (20LT only)

Typical Installation

FEATURES:

- **Strength** - Solid One Piece Cast Iron Construction
- **Accuracy** - Correct Meter Alignment Every Time
- **Time** - Ready to Install From Factory
- **Safety** - Fewer Leak Paths Connect Directly to Regulator
- **Space** - Compact Meter Sets



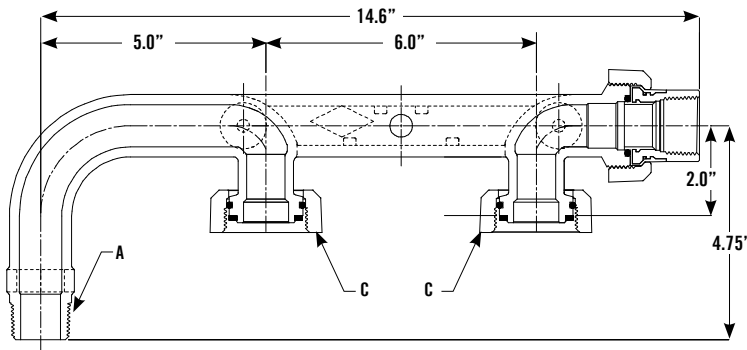
WARNING

Over torquing may occur when the regulator is tightened on with the correct orientation and another turn is attempted to get the regulator positioned all the way around, which can cause the casting to crack. Therefore, when attaching the regulator to the cast inlet connection, please use caution not to over tighten. Use a wrench on the meter bar hexagon for assembly.

Cast Iron Meter Bars with Cast Integral Swivels - 6569 Series

VERTICAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



MNPT x Insulated Union with FNPT Tailpiece

(Black Cast Iron Shown)



DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

Meter Bar Gasket Repair Union

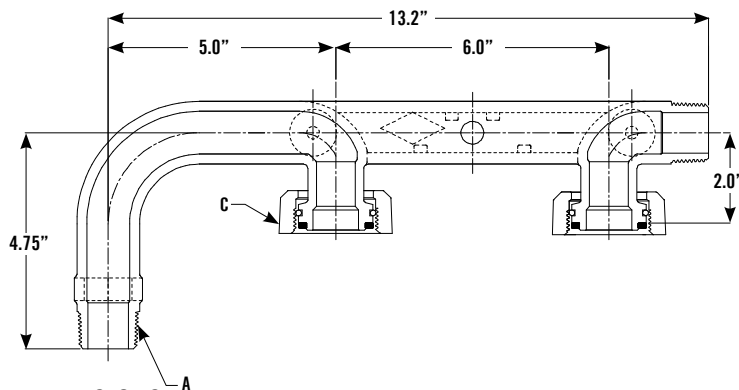
Outlet Size	Insulated End		Gasket	Black Nut	Thermal-Diffusion Zinc Nut
	6301RB	6301RA			
3/4"	4821-005	4821-073	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	Insulated End		O-ring	Black Nut	Thermal-Diffusion Zinc Nut
	6302RB	6302RA			
3/4"	4821-080	4821-082	3134-212	4822-356	4822-474
1"	4821-065	4821-067	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



MNPT x MNPT

(Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B MNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

FINISH OPTIONS

6569- Black Cast Iron

6569A Thermal-Diffusion Zinc

6569C Thermal-Diffusion Zinc and Painted

6569P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 72.

For other options, see page 72.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Cast Integral Swivels - 6570 Series

HORIZONTAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6570-CAAB- 1x1 20LT** means:

6	5	7	0	-	C	A	A	B	-	SPACE	INLET 1	X	OUTLET 1	SPACE	SWIVEL 20LT
1	2	3	4	5	6	7	8	9	10						
											SIZE				

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with MNPT inlet

BLOCK 3 - METER BAR SPREAD

7 = 8 1/4" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

E = FNPT insulated flat gasket union (reducing NPT)

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

M = MNPT

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

W = FNPT non-insulated flat gasket union (reducing NPT)

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP PLUG SIZE/TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

B = 20LT - 20 Light swivel with flat gasket seal

D = 30LT - 30 Light swivel with flat gasket seal

BLOCK 10 - SWIVELS SPECIAL

- = Standard swivel and nuts

D = Brass nuts (20LT only)

Typical Installation

FEATURES:

- **Strength** - Solid One Piece Cast Iron Construction
- **Accuracy** - Correct Meter Alignment Every Time
- **Time** - Ready to Install From Factory
- **Safety** - Fewer Leak Paths Connect Directly to Regulator
- **Space** - Compact Meter Sets

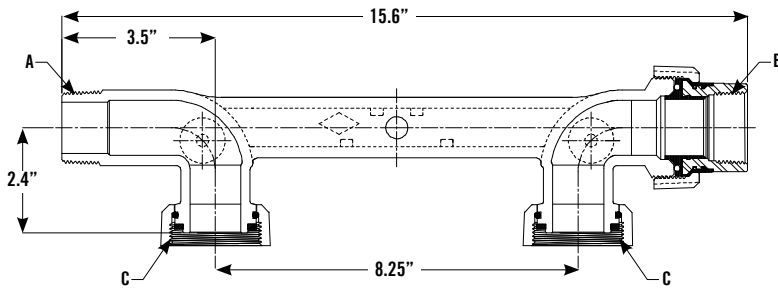


Cast Iron Meter Bars

Cast Iron Meter Bars with Cast Integral Swivels - 6570 Series

HORIZONTAL MNPT INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
8 1/4"	1"	1"	20LT
8 1/4"	1 1/4"	1 1/4"	30LT



(Black Cast Iron Shown)

MNPT x Insulated Union with FNPT Tailpiece



Meter Bar Gasket Repair Union

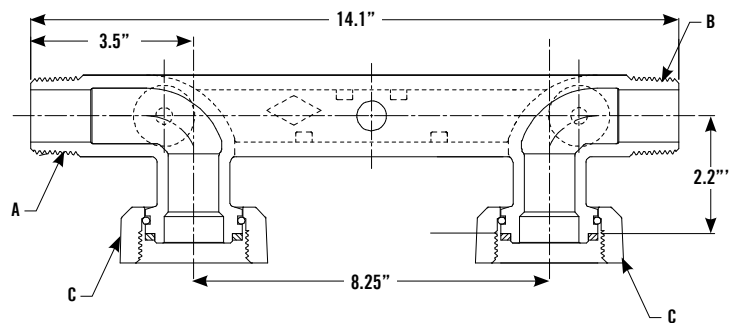
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

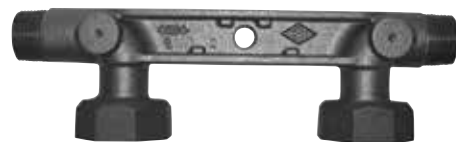
Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end except 1"



DIMENSIONS

Meter Bar Spread	A MNPT Inlet	B MNPT Outlet	C Swivel Nut Size
8 1/4"	1"	1"	20LT
8 1/4"	1 1/4"	1 1/4"	30LT



(Black Cast Iron Shown)

MNPT x MNPT

FINISH OPTIONS

6570- Black Cast Iron

6570A Thermal-Diffusion Zinc

6570C Thermal-Diffusion Zinc and Painted

6570P Painted

Taps available on all the above options.

NOTE:

For side taps, see pages 50 and 74.

For other options, see page 74.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Integral Swivels - 6620 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6620-BAAB- 1x1 20LT means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

2 = 6" spread with integral meter swivels

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

F = FNPT insulated flat gasket union

M = MNPT

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP PLUG SIZE/TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

F = OEM - O-Emco swivel with flat gasket seal

G = OEMO - O-Emco swivel with O-ring seal

H = 1A - 1A Sprague swivel with flat gasket seal

J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

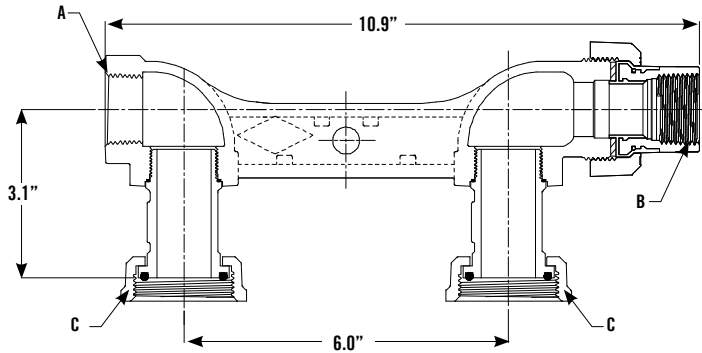
- = Standard swivel and nut

D = Brass nuts and standard swivels (20LT only)

Cast Iron Meter Bars with Integral Swivels - 6620 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece



Meter Bar Gasket Repair Union

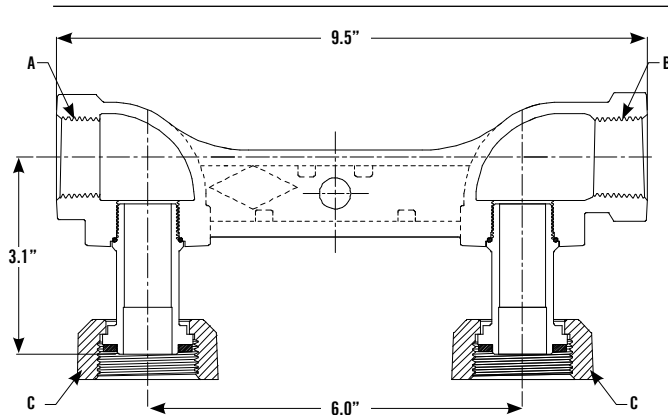
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A



(Black Cast Iron Shown)

FNPT x FNPT

FINISH OPTIONS

6620- Black Cast Iron

6620A Thermal-Diffusion Zinc

6620C Thermal-Diffusion Zinc and Painted

6620P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 76.

For other options, see page 76.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Integral swivels are NOT replaceable, they are factory installed with an O-ring and threadlocker.

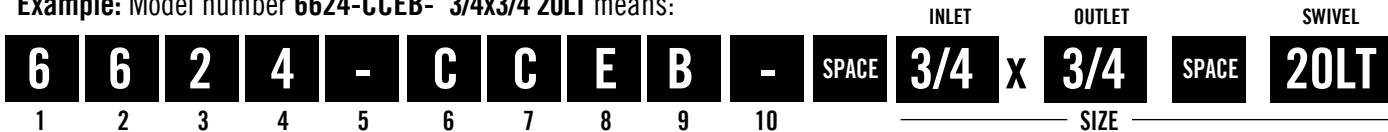
Cast Iron Meter Bars with Integral Swivels - 6624 Series

HORIZONTAL INLET AND VERTICAL OUTLET, INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6624-CCEB- 3/4x3/4 20LT means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

2 = 6" spread with integral meter swivels

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

F = FNPT insulated flat gasket union

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP PLUG SIZE/TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

A = 10LT - 10 Light swivel with flat gasket seal

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

F = OEM - O-Emco swivel with flat gasket seal

G = OEMO - O-Emco swivel with O-ring seal

H = 1A - 1A Sprague swivel with flat gasket seal

J = 1AO - 1A Sprague swivel with O-ring seal

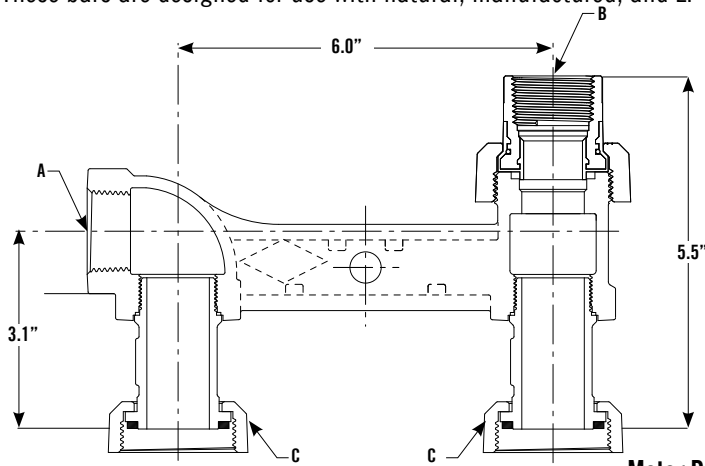
BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nuts

Cast Iron Meter Bars with Integral Swivels - 6624 Series

HORIZONTAL INLET AND VERTICAL OUTLET, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

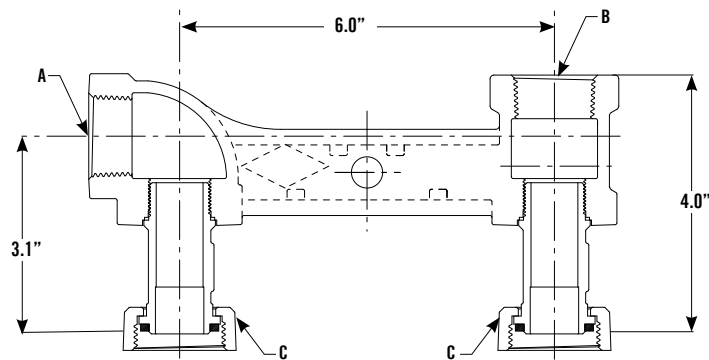
Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803

Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



(Black Cast Iron Shown)

FNPT x FNPT

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 20LT, OEM, or 1A

FINISH OPTIONS

6624- Black Cast Iron

6624A Thermal-Diffusion Zinc

6624C Thermal-Diffusion Zinc and Painted

6624P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 78.

For other options, see page 78.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Integral swivels are NOT replaceable, they are factory installed with an O-ring and threadlocker.

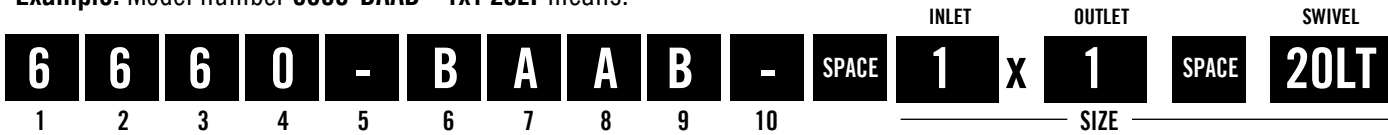
Cast Iron Meter Bars with Cast Integral Swivels - 6660 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6660-BAAB- 1x1 20LT means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron

A = Thermal-Diffusion Zinc

C = Thermal-Diffusion Zinc and Painted

P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT

C = FNPT insulated O-ring union

F = FNPT insulated flat gasket union

H = MNPT insulated O-ring union

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A and B

H = Pos. A and C

J = Pos. A and D

K = Pos. B and C

L = Pos. B and D

N = Pos. C and D

Q = Pos. A, B, and C

R = Pos. A, B, and D

T = Pos. A, C, and D

W = Pos. B, C, and D

X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap

A = 1/8" NPT recessed hex plug

B = 1/8" NPT square head plug

C = 1/8" NPT no plug

D = 1/4" NPT recessed hex plug

E = 1/4" NPT square head plug

F = 1/4" NPT no plug

M = 1/8" NPT hex head plug

P = 1/4" NPT temperature/pressure plug (Texas Fairfax)

Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

B = 20LT - 20 Light swivel with flat gasket seal

C = 20LTO - 20 Light swivel with O-ring seal

D = 30LT - 30 Light swivel with flat gasket seal

E = 30LTO - 30 Light swivel with O-ring seal

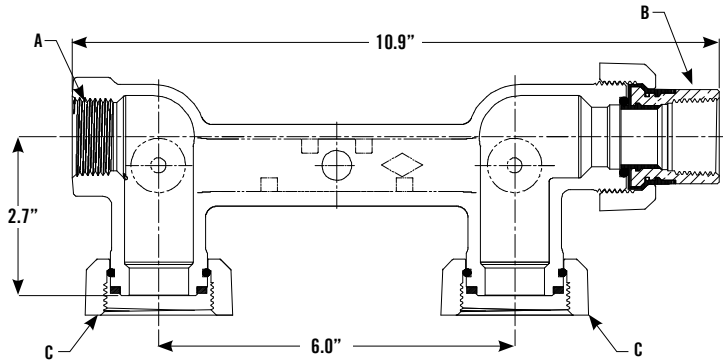
BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nuts

Cast Iron Meter Bars with Cast Integral Swivels - 6660 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	20LT or 30LT



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece



Meter Bar Gasket Repair Union

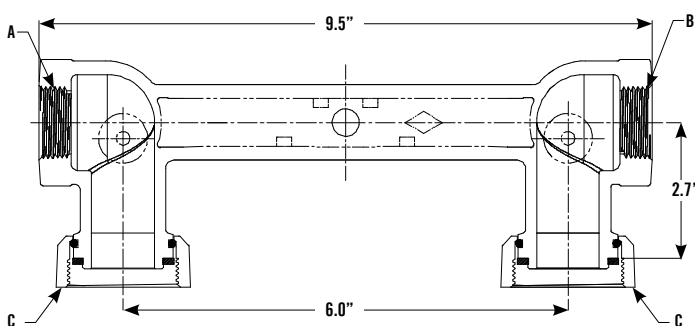
Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

O-ring included with insulated end except 1"



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	20LT or 30LT



(Black Cast Iron Shown)

FNPT x FNPT

FINISH OPTIONS

6660- Black Cast Iron

6660A Thermal-Diffusion Zinc

6660C Thermal-Diffusion Zinc and Painted

6660P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 80.

For other options, see page 80.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

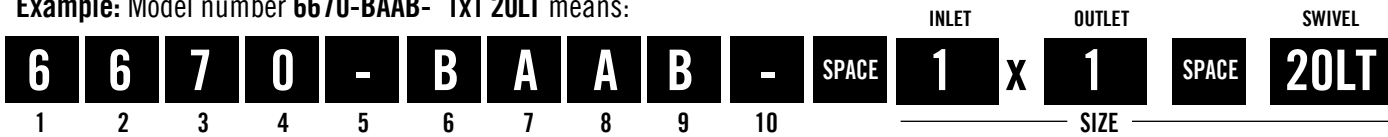
Cast Iron Meter Bars with Cast Integral Swivels - 6670 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6670-BAAB- 1x1 20LT means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

7 = 8 1/4" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET END TYPE

B = FNPT integral
C = FNPT insulated O-ring union
F = FNPT insulated flat gasket union
H = MNPT insulated O-ring union
S = FNPT non-insulated O-ring union

BLOCK 7 - TAP LOCATION(S)

- = No tap
A = Pos. A
B = Pos. B
C = Pos. C
D = Pos. D
E = Pos. A and B
H = Pos. A and C
J = Pos. A and D
K = Pos. B and C
L = Pos. B and D
N = Pos. C and D
Q = Pos. A, B, and C
R = Pos. A, B, and D
T = Pos. A, C, and D
W = Pos. B, C, and D
X = Pos. A, B, C, and D

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

B = 20LT - 20 Light swivel with flat gasket seal
C = 20LTO - 20 Light swivel with O-ring seal
D = 30LT - 30 Light swivel with flat gasket seal
E = 30LTO - 30 Light swivel with O-ring seal

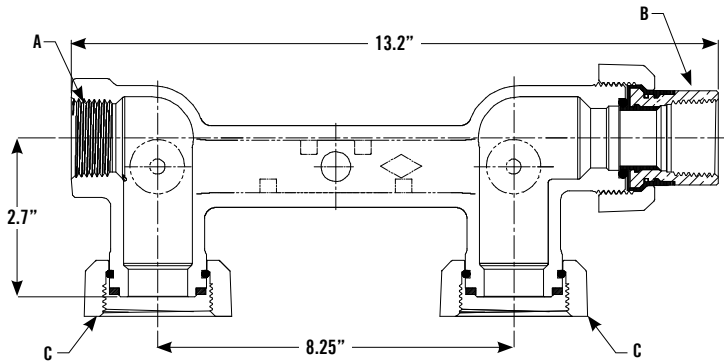
BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nuts
D = Brass nuts (20LT only)

Cast Iron Meter Bars with Cast Integral Swivels - 6670 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
8 1/4"	1" or 1 1/4"	1 1/4"	20LT or 30LT



FNPT x Insulated Union with FNPT Tailpiece

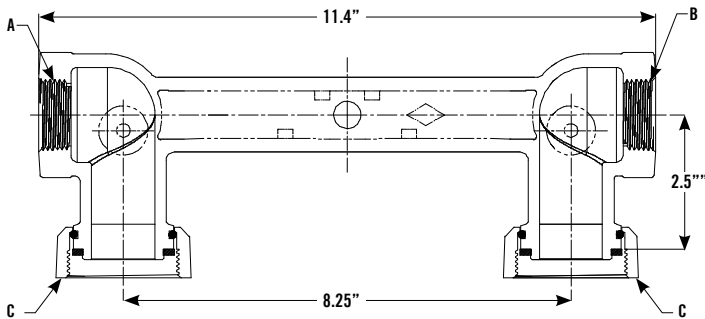


Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844

O-ring included with insulated end

Cast Iron Meter Bars



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
8 1/4"	1" or 1 1/4"	1" or 1 1/4"	20LT or 30LT



FNPT x FNPT

FINISH OPTIONS

6670- Black Cast Iron

6670A Thermal-Diffusion Zinc

6670C Thermal-Diffusion Zinc and Painted

6670P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 82.

For other options, see page 82.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars with Integral Valve - 6712 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6712-CCB 1x1 means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

7 = Meter bar w/valve
(Integral 3/4" valve - relube)

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

2 = Rear center horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
- A = Thermal-Diffusion Zinc
- C = Thermal-Diffusion Zinc and Painted
- P = Painted
- L = Lockwing Black Cast Iron
- D = Lockwing Thermal-Diffusion Zinc
- E = Lockwing Thermal-Diffusion Zinc and Painted
- R = Lockwing Painted

BLOCK 6 - OUTLET END TYPE

- C = FNPT insulated O-ring union
- D = FNPT insulated O-ring union (reducing NPT)
- E = FNPT insulated flat gasket union (reducing NPT)
- F = FNPT insulated flat gasket union
- S = FNPT non-insulated O-ring union
- U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap
- A = Pos. A
- C = Pos. C
- H = Pos. A and C

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
- A = 1/8" NPT recessed hex plug
- B = 1/8" NPT square head plug
- C = 1/8" NPT no plug
- D = 1/4" NPT recessed hex plug
- E = 1/4" NPT square head plug
- F = 1/4" NPT no plug
- M = 1/8" NPT hex head plug
- P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
- Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Meter Bar Gasket Repair Union



Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803

Meter Bar O-ring Repair Union



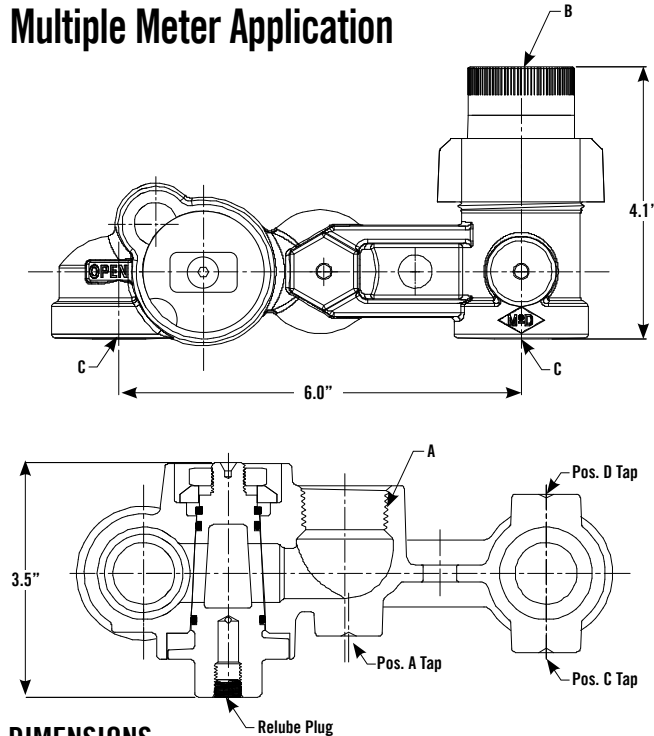
Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

Cast Iron Meter Bars with Integral Valve - 6712 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications.

Multiple Meter Application



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6712- Black Cast Iron
 - 6712A Thermal-Diffusion Zinc
 - 6712C Thermal-Diffusion Zinc and Painted
 - 6712P Painted
- Taps available on all the above finish options.

High security lock design integral valve

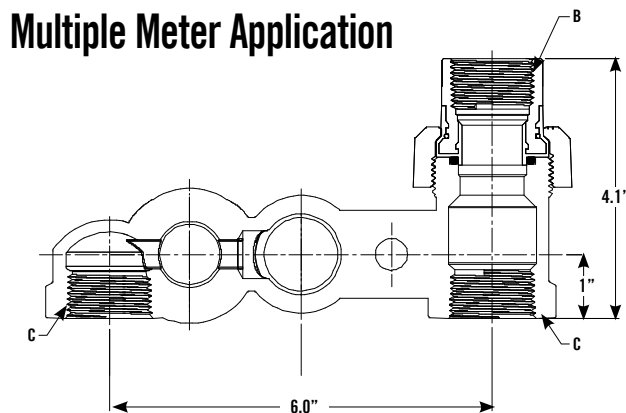
With Relube Valve - This A.Y. McDonald Mfg. Co. Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. See page 10.

Cast Iron Meter Bars with Integral Valve - 6712L Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications.

Multiple Meter Application



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6712L Lockwing Black Cast Iron
- 6712D Lockwing Thermal-Diffusion Zinc
- 6712E Lockwing Thermal-Diffusion Zinc and Painted
- 6712R Lockwing Painted

Taps available on all the above finish options.

*Lockwing can be turned in both directions.

Cast Iron Meter Bars with Integral Valve - 6722 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6722-ECEC-1x1-SPACE-1x1-SPACE-20LTO means:



Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

7 = Meter bar w/valve
(Integral 3/4" valve - relube)

BLOCK 3 - METER BAR SPREAD

2 = 6" spread with integral meter swivels

BLOCK 4 - END CONFIGURATION

2 = Rear center horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
- A = Thermal-Diffusion Zinc
- C = Thermal-Diffusion Zinc and Painted
- D = Lockwing Thermal-Diffusion Zinc
- E = Lockwing Thermal-Diffusion Zinc and Painted
- P = Painted
- L = Lockwing Black Cast Iron
- R = Lockwing Painted

BLOCK 6 - OUTLET TYPE

- B = FNPT integral
- C = FNPT insulated O-ring union
- D = FNPT insulated O-ring union (reducing NPT)
- E = FNPT insulated flat gasket union (reducing NPT)
- F = FNPT insulated flat gasket union
- Q = Male 20LT meter thread
- S = FNPT non-insulated O-ring union
- U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap
- A = Pos. A
- C = Pos. C
- H = Pos. A and C

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
- A = 1/8" NPT recessed hex plug
- B = 1/8" NPT square head plug
- C = 1/8" NPT no plug
- D = 1/4" NPT recessed hex plug
- E = 1/4" NPT square head plug
- F = 1/4" NPT no plug
- M = 1/8" NPT hex head plug
- P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
- Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE and TYPE

- A = 10LT - 10 Light swivel with flat gasket seal
- B = 20LT - 20 Light swivel with flat gasket seal
- C = 20LTO - 20 Light swivel with O-ring seal
- F = OEM - O-Emco swivel with flat gasket seal
- G = OEMO - O-Emco swivel with O-ring seal
- H = 1A - 1A Sprague swivel with flat gasket seal
- J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nuts
- D = Brass nuts (20LT only)

Typical Installation

MULTIPLE METER MANIFOLDS



Meter Bar Gasket Repair Union

Outlet Size	Insulated End		Gasket	Black Nut	Thermal-Diffusion Zinc Nut	
	6301RB	6301RA				
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

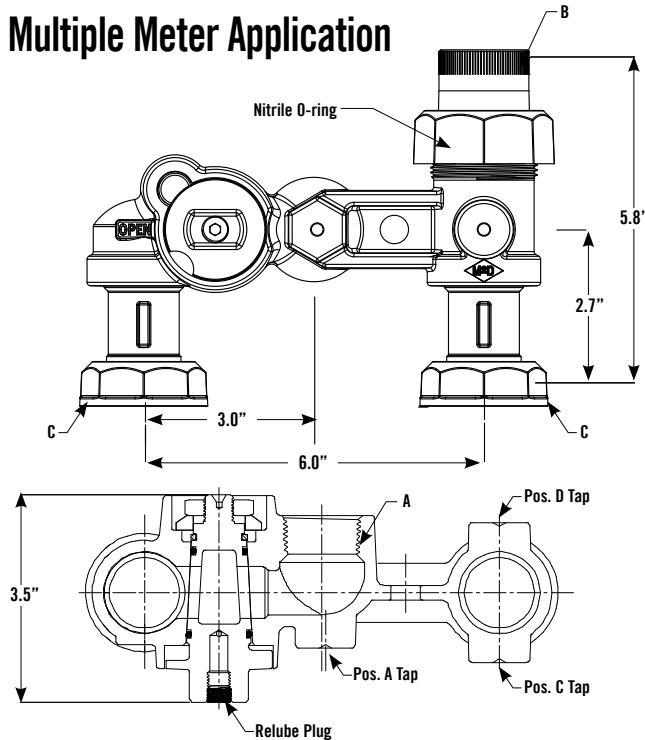
Outlet Size	Insulated End		O-ring	Black Nut	Thermal-Diffusion Zinc Nut	
	6302RB	6302RA				
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

Cast Iron Meter Bars with Integral Valve - 6722 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications.

Multiple Meter Application



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	10LT, 20LT, OEM, or 1A

*3/4" outlet obtained with reducing endpiece



FNPT x Insulated Union
with FNPT Tailpiece

(Black Cast Iron
Shown)

FINISH OPTIONS

- 6722- Black Cast Iron
 - 6722A Thermal-Diffusion Zinc
 - 6722C Thermal-Diffusion Zinc and Painted
 - 6722P Painted
- Taps available on all the above finish options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Mfg. Co. Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. See page 10.

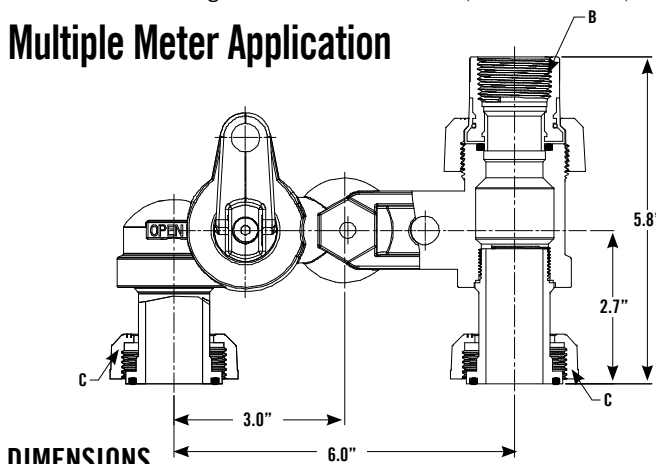
Integral swivels are NOT replaceable, they are factory installed with an O-ring and threadlocker.

Cast Iron Meter Bars with Integral Valve - 6722L Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications

Multiple Meter Application



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	10LT, 20LT, OEM, or 1A

*3/4" outlet obtained with reducing endpiece



FNPT x Union

(Black Cast Iron
Shown)

FINISH OPTIONS

- 6722L Lockwing Black Cast Iron
 - 6722D Lockwing Thermal-Diffusion Zinc
 - 6722E Lockwing Thermal-Diffusion Zinc and Painted
 - 6722R Lockwing Painted
- Taps available on all the above finish options.
*Lockwing can be turned in both directions.

Cast Iron Meter Bars

Cast Iron Meter Bars with Integral Valve - 6762 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, CAST INTEGRAL SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6762-CCEB- 1x1 20LT means:

6	7	6	2	-	C	C	E	B	-	SPACE	1	X	1	SPACE	20LT
1	2	3	4	5	6	7	8	9	10		INLET SIZE		OUTLET SIZE		SWIVEL

Cast Iron Meter Bars

BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

7 = Meter bar w/valve
(Integral 3/4" valve - relube)

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral meter swivels

BLOCK 4 - END CONFIGURATION

2 = Rear center horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET TYPE

C = FNPT insulated O-ring union
D = FNPT insulated O-ring union (reducing NPT)
E = FNPT insulated flat gasket union (reducing NPT)
F = FNPT insulated flat gasket union
S = FNPT non-insulated O-ring union
U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap
A = Pos. A
C = Pos. C
H = Pos. A and C

See drawing on page 50 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

BLOCK 9 - SWIVEL SIZE/TYPE

B = 20LT - 20 Light swivel with flat gasket seal
C = 20LTO - 20 Light swivel with O-ring seal
H = 1A - 1A Sprague swivel with flat gasket seal
J = 1AO - 1A Sprague swivel with O-ring seal

BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel and nut
D = Brass nuts (20LT only)

Meter Bar Gasket Repair Union



Outlet Size	Insulated		Thermal-Diffusion			
	6301RB	6301RA	End	Gasket	Black Nut	Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803

Meter Bar O-ring Repair Union



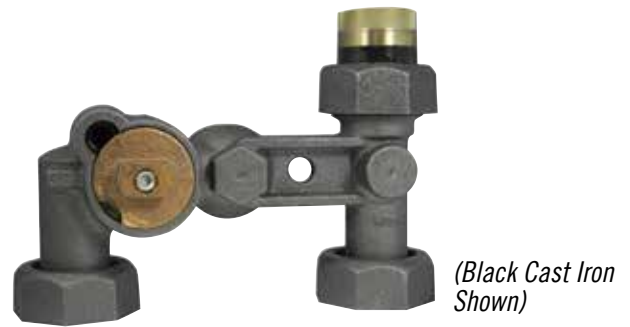
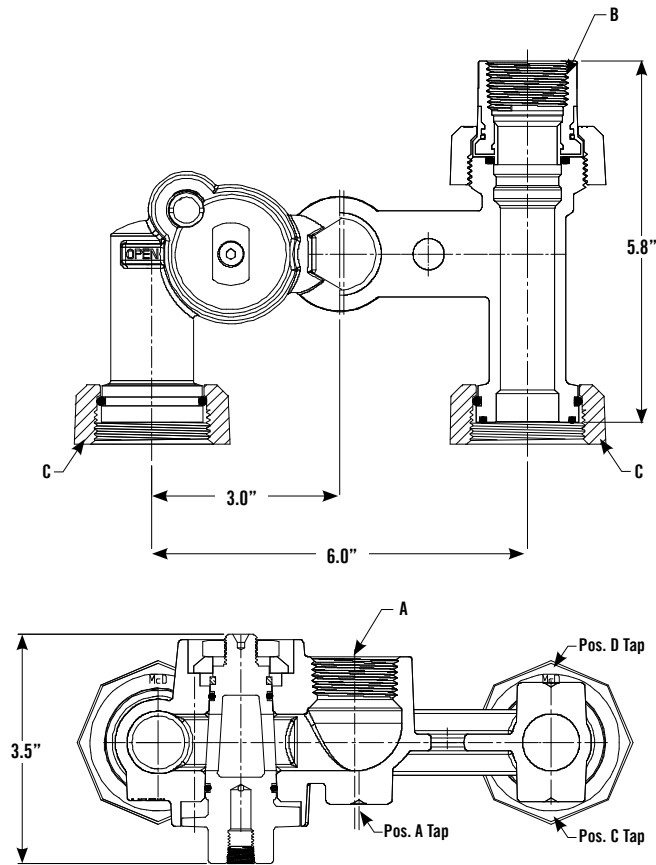
Outlet Size	Insulated		Thermal-Diffusion			
	6302RB	6302RA	End	O-ring	Black Nut	Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

Cast Iron Meter Bars with Integral Valve - 6762 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, 2 PSI, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications.

Multiple Meter Application



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

6762- Black Cast Iron

6762A Thermal-Diffusion Zinc

6762C Thermal-Diffusion Zinc and Painted

6762P Painted

Taps available on all the above finish options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Mfg. Co. Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. See page 10.

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	1A or 20LT

*3/4" outlet obtained with reducing endpiece

Cast Iron Meter Bars with Integral Valve - 6814 Series

HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6814-FAB 1x1x1 means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

8 = Meter bar w/valve
(Integral 1" valve - no relube)

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT
C = FNPT insulated O-ring union
E = FNPT insulated flat gasket union
(reducing NPT)
F = FNPT insulated flat gasket union
S = FNPT non-insulated O-ring union
U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap
A = Pos. A
B = Pos. B
C = Pos. C
D = Pos. D
E = Pos. A and B
H = Pos. A and C
J = Pos. A and D
K = Pos. B and C
L = Pos. B and D
N = Pos. C and D
Q = Pos. A, B, and C
R = Pos. A, B, and D
T = Pos. A, C, and D
W = Pos. B, C, and D
X = Pos. A, B, C, and D

See drawing on page 50 for positions

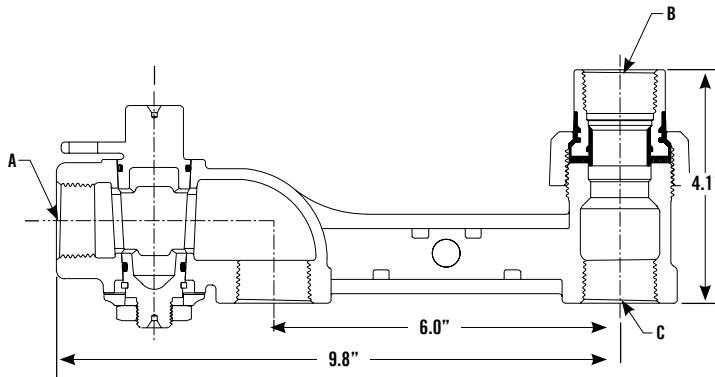
BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars with Integral Valve - 6814 Series

HORIZONTAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.



FNPT x Insulated Union with FNPT Tailpiece
(Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece

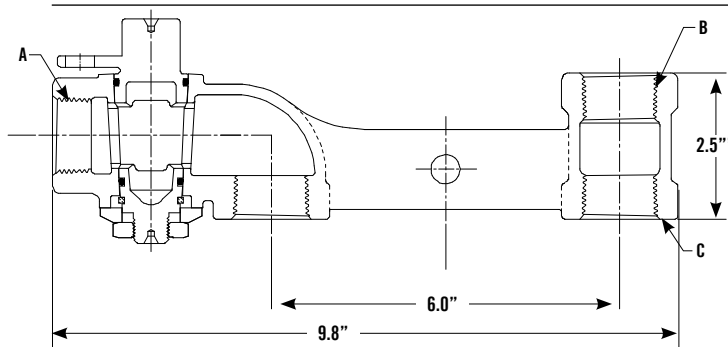
Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803



FNPT x FNPT
(Black Cast Iron Shown)

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"

FINISH OPTIONS

6814- Black Cast Iron

6814A Thermal-Diffusion Zinc

6814C Thermal-Diffusion Zinc and Painted

6814P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 90.

For other options, see page 90.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

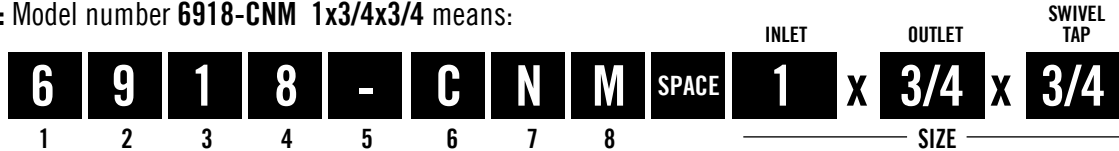
Cast Iron Meter Bars with Integral Valve - 6918 Series

VERTICAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Cast Iron Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between meter bars without built-in swivels, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6918-CNM 1x3/4x3/4 means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

9 = Meter bar w/valve
(3/4" union valve)

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

8 = Vertical inlet x vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET TYPE

B = FNPT
C = FNPT insulated O-ring union
F = FNPT insulated flat gasket union
S = FNPT non-insulated O-ring union
U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

- = No tap
C = Pos. C
D = Pos. D
N = Pos. C and D

See drawing on page 50 for positions

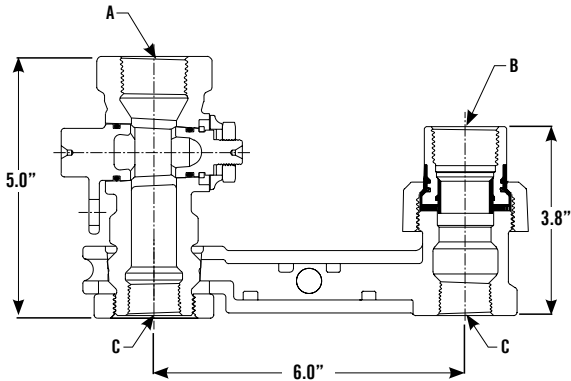
BLOCK 8 - TAP SIZE/PLUG TYPE

- = No tap
A = 1/8" NPT recessed hex plug
B = 1/8" NPT square head plug
C = 1/8" NPT no plug
D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Cast Iron Meter Bars with Integral Valve - 6918 Series

VERTICAL INLET AND VERTICAL OUTLET, FLAT HEAD, LOCKWING, 2 PSI, NO ATTACHED SWIVELS

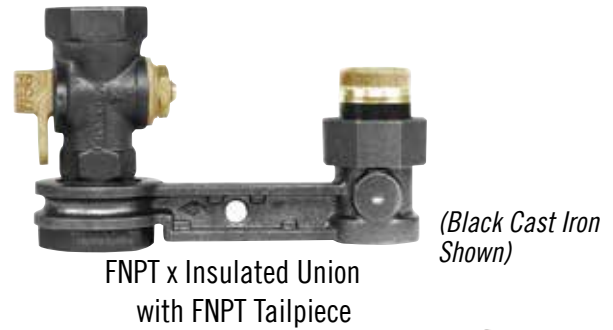
These bars are designed for use with natural, manufactured, and LP gases only.



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	1"	*3/4" or 1"	3/4"

*3/4" outlet obtained with reducing endpiece



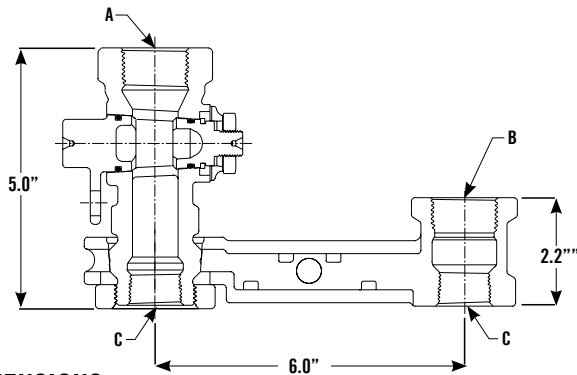
Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



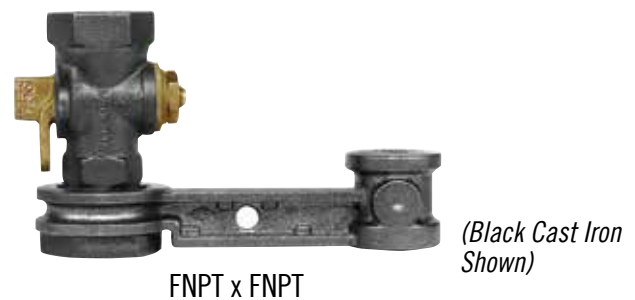
Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803



DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	1"	1"	3/4"



FINISH OPTIONS

6918- Black Cast Iron

6918A Thermal-Diffusion Zinc

6918C Thermal-Diffusion Zinc and Painted

6918P Painted

Taps available on all the above finish options.

NOTE:

For side taps, see pages 50 and 92.

For other options, see page 92.

All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

BYPASS THE TROUBLES DON'T INTERRUPT YOUR CUSTOMERS.

RESIDENTIAL AND COMMERCIAL BYPASS OPTIONS

When it comes to bypass technology, A.Y. McDonald Mfg. Co. is ahead of the game. Gone are the days of scheduling and rescheduling appointments, relighting pilot lights, and all the other pains that come with gas meter change-outs. Make you and your customer's lives easier with A.Y. McDonald Mfg. Co.'s many residential and commercial bypass solutions!



**WE TAKE CARE OF CUSTOMERS
BETTER THAN ANYONE ELSE.**

Let us make your life easier!

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WITHOUT
YOU
THERE IS
NO **US.**



Bypass Meter Bars

November 2024



Bypass Meter Bars - 6410 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, 2 INTEGRAL PLUG VALVES, FLAT HEAD, 5 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Bypass Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between regular meter bars, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6410-EFD 3/4x3/4 1** means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

4 = Bypass Meter bar w/valve
(Two integral 3-Port valves - relube)

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET END TYPE

C = FNPT insulated O-ring union
D = FNPT insulated O-ring union (reducing NPT)
E = FNPT insulated flat gasket union (reducing NPT)
F = FNPT insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

F = Pos. E Standard

See drawing on page 97 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Bypass Meter Bars



6410 Series
Instruction Sheet



Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

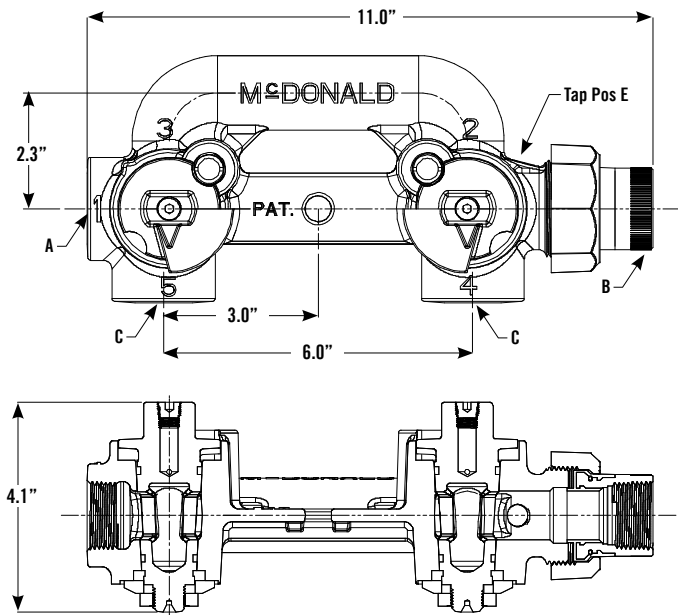
Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

Bypass Meter Bars - 6410 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, 2 INTEGRAL PLUG VALVES, FLAT HEAD, 5 PSI, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured, and LP gases only.

Residential Meter Application



FNPT x Insulated Union with FNPT Tailpiece

(Black Cast Iron Shown)

FINISH OPTIONS

- 6410- Black Cast Iron
 - 6410A Thermal-Diffusion Zinc
 - 6410C Thermal-Diffusion Zinc and Painted
 - 6410P Painted
- Taps available on all the above finish options.

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivel Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Mfg. Co. Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. See page 10.

For other bypass valve options see pages 24-39.

Bypass Meter Bars

IT'S ABOUT TIME!

Bypass Systems That Make Sense.

Full Flow Even in Bypass Mode

- No interruption in service or reduction in flow capacity.
- No loss of pilot lights.
- Scheduling, re-lights, and associated cost are a thing of the past.
- Meter change-outs can be performed anytime, 12 months a year.

Safe - Fast - Secure

- No need for additional hoses, regulators, bottles, or any special tools.
- Your gas supply is always ready and regulated to the correct pressure.
- A few turns of the valve and your bypass is complete.
- Industry proven locking design for theft protection.
- Performance testing proven at **gti**.



See our video on website for operation of the Bypass meter bar.

6410 Residential Meter Bar



Check Out The Video

It is about time, and time is money. If you want a real return on your investment \$\$, call us today for more information.

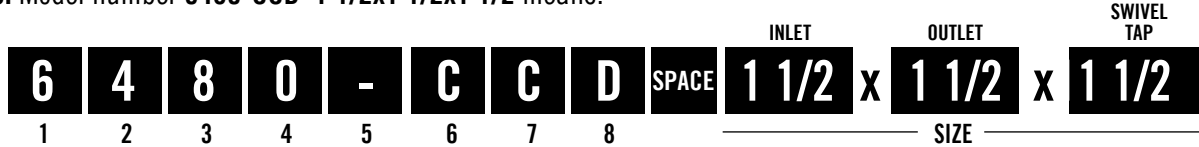
Bypass Meter Bars - 6480 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, 2 INTEGRAL BALL VALVES, FLAT HEAD, 25 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Bypass Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between regular meter bars, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6480-CCD** 1 1/2x1 1/2x1 1/2 means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

4 = Bypass meter bar w/valve
(Two integral 3-Port valves)

BLOCK 3 - METER BAR SPREAD

8 = 8 1/4" spread

BLOCK 4 - END CONFIGURATION

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET END TYPE

C = FNPT insulated O-ring union

BLOCK 7 - TAP LOCATION(S)

C = Pos. C Standard

See drawing on page 99 for positions

BLOCK 8 - TAP SIZE/PLUG TYPE

B = 1/8" NPT Square head plug
D = 1/4" NPT recessed hex plug
F = 1/4" NPT no plug
P = 1/4" NPT temperature/pressure plug (Texas Fairfax)
Q = 1/4" NPT temperature/pressure plug (Pete's Plug)

Bypass Meter Bars



6480 Series
Instruction Sheet



Meter Bar O-ring Repair Union

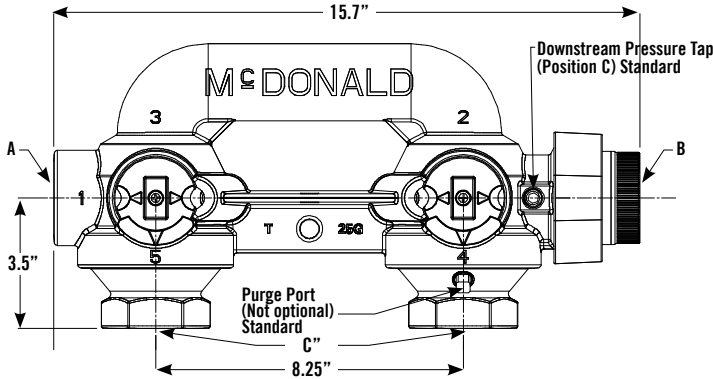
Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844
1 1/2"	4821-068	4821-070	4811-658	3134-227	4820-262	4811-848

O-ring included with insulated end

Bypass Meter Bars - 6480 Series

HORIZONTAL INLET AND HORIZONTAL OUTLET, 2 INTEGRAL BALL VALVES, FLAT HEAD, 25 PSI, NO ATTACHED SWIVELS
 These bars are designed for use with natural, manufactured, and LP gases only.

Commercial Bypass Meter Bar



FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6480-** Black Cast Iron
 - 6480A** Thermal-Diffusion Zinc
 - 6480C** Thermal-Diffusion Zinc and Painted
 - 6480P** Painted
- Taps available on all the above finish options.

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivels Tap Size
8.25"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"

High security lock design integral valve
 For other bypass valve options see pages 24-39.

Bypass Meter Bars

6480 Commercial Bypass Meter Bar

IT'S ABOUT TIME! Bypass Systems That Make Sense.

- Full Flow Even in Bypass Mode**
- No interruption in service or reduction in flow capacity.
 - No loss of pilot lights.
 - Scheduling, re-lights, and associated cost are a thing of the past.
 - Meter change-outs can be performed anytime, 12 months a year.
- Safe - Fast - Secure**
- No need for additional hoses, regulators, bottles, or any special tools.
 - Your gas supply is always ready and regulated to the correct pressure.
 - A few turns of the valve and your bypass is complete.
 - Industry proven locking design for theft protection.
 - Performance testing proven at **gti**.



See our video on website for operation of the Bypass meter bar.



Check Out The Video

It is about time, and time is money. If you want a real return on your investment \$\$, call us today for more information.

Bypass Meter Bars - 6312 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, 2 INTEGRAL PLUG VALVES, FLAT HEAD, 5 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Bypass Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between regular meter bars, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number 6312-FFD 1x1 1 means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

3 = Bypass meter bar w/valve
(one 1" 2 Port and one Integral 3 Port Valves - Relube)

BLOCK 3 - METER BAR SPREAD

1 = 6" spread

BLOCK 4 - END CONFIGURATION

2 = Rear center Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET END TYPE

C = FNPT insulated O-ring union
D = FNPT insulated O-ring union (reducing NPT)
E = FNPT insulated flat gasket union (reducing NPT)
F = FNPT insulated flat gasket union

BLOCK 7 - TAP LOCATION(S)

F = Pos. E Standard
G = Pos. A and E

BLOCK 8 - TAP SIZE/PLUG TYPE

D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug
M = 1/8" NPT hex head plug

See drawing on page 101 for positions

Bypass Meter Bars



6312 Series
Instruction Sheet



Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



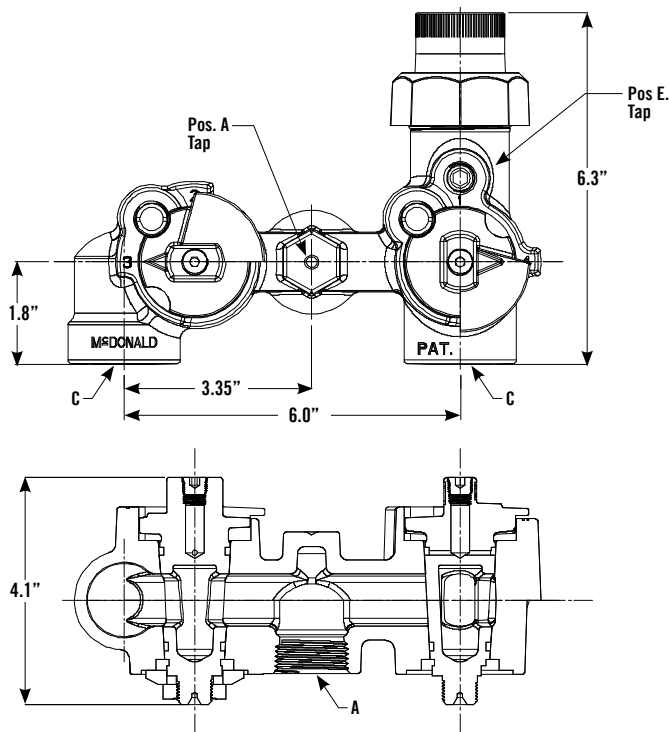
Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803

Bypass Meter Bars - 6312 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, 2 INTEGRAL PLUG VALVES, FLAT HEAD, 5 PSI, NO ATTACHED SWIVELS
 These bars are designed for use with natural, manufactured, and LP gases only. For CMMC multiple meter manifold applications.

Multiple Meter Application



(Black Cast Iron Shown)

FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6312- Black Cast Iron
- 6312A Thermal-Diffusion Zinc
- 6312C Thermal-Diffusion Zinc and Painted
- 6312P Painted

Taps available on all the above finish options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Mfg. Co. Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or unpressurized. See page 10.

For other bypass valve options see pages 24-39.

DIMENSIONS

Meter Bar Spread	A FNPT Inlet	B Insulated Union with FNPT Tailpiece	C Swivels Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece

Bypass Meter Bars

IT'S ABOUT TIME! Bypass Systems That Make Sense.

Full Flow Even in Bypass Mode

- No interruption in service or reduction in flow capacity.
- No loss of pilot lights.
- Scheduling, re-lights, and associated cost are a thing of the past.
- Meter change-outs can be performed anytime, 12 months a year.

Safe - Fast - Secure

- No need for additional hoses, regulators, bottles, or any special tools.
- Your gas supply is always ready and regulated to the correct pressure.
- A few turns of the valve and your bypass is complete.
- Industry proven locking design for theft protection.
- Performance testing proven at **gti**.

6312 Multiple Meter Manifold Bypass Bar



See our video on website for operation of the Bypass meter bar.



Check Out The Video

It is about time, and time is money. If you want a real return on your investment \$\$, call us today for more information.

Bypass Meter Bars - 6282 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, 2 INTEGRAL BALL VALVES, FLAT HEAD, 25 PSI, NO ATTACHED SWIVELS

A.Y. McDonald Mfg. Co. Bypass Meter Bars can be ordered to fit your requirements. Select the features you need from list below and build your own ordering number. Please note the difference in numbers between regular meter bars, and meter bars with built-in swivels. Meter bars with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **6282-CCD 1 1/4x 1 1/4 1 1/4** means:



BLOCK 1 - METER BAR

6 = All meter bars

BLOCK 2 - METER BAR TYPE

2 = Bypass meter bar w/valve
(Two integral 2 port valves)

BLOCK 3 - METER BAR SPREAD

8 = 8 1/4" spread

BLOCK 4 - END CONFIGURATION

2 = Rear center Horizontal inlet by vertical outlet

BLOCK 5 - FINISH

- = Black Cast Iron
A = Thermal-Diffusion Zinc
C = Thermal-Diffusion Zinc and Painted
P = Painted

BLOCK 6 - OUTLET END TYPE

C = FNPT insulated O-ring union

BLOCK 7 - TAP LOCATION(S)

C = Pos. C Standard

BLOCK 8 - TAP SIZE/PLUG TYPE

D = 1/4" NPT recessed hex plug
E = 1/4" NPT square head plug
F = 1/4" NPT no plug

See drawing on page 103 for positions

Bypass Meter Bars



6282 Series
Instruction Sheet



Meter Bar O-ring Repair Union

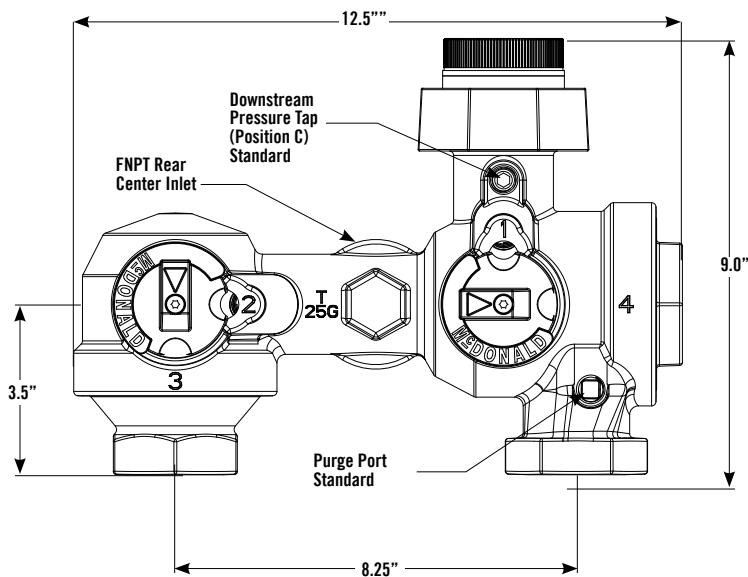
Outlet Size	Insulated End		Thermal-Diffusion Zinc Nut	
	6302RB	6302RA	O-ring	Black Nut
1 1/4"	4821-083	4821-085	4811-807	3134-224
1 1/2"	4821-068	4821-070	4811-658	3134-227

O-ring included with insulated end

Bypass Meter Bars - 6282 Series

REAR CENTER HORIZONTAL INLET AND VERTICAL OUTLET, 2 INTEGRAL BALL VALVES, FLAT HEAD, 25 PSI, NO ATTACHED SWIVELS
 These bars are designed for use with natural, manufactured, and LP gases only.

Multiple Meter Application



FNPT x Insulated Union with FNPT Tailpiece

FINISH OPTIONS

- 6282- Black Cast Iron
 - 6282A Thermal-Diffusion Zinc
 - 6282C Thermal-Diffusion Zinc and Painted
 - 6282P Painted
- Taps available on all the above finish options.

DIMENSIONS

Meter Bar Spread	FNPT Inlet	Insulated Union with FNPT Tailpiece	Swivels Tap Size
8 1/4"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"	1 1/4" or 1 1/2"

High security lock design integral valve

*For other bypass valve options see pages 24-39.

Bypass Meter Bars

IT'S ABOUT TIME! Bypass Systems That Make Sense.

Full Flow Even in Bypass Mode

- No interruption in service or reduction in flow capacity.
- No loss of pilot lights.
- Scheduling, re-lights, and associated cost are a thing of the past.
- Meter change-outs can be performed anytime, 12 months a year.

Safe - Fast - Secure

- No need for additional hoses, regulators, bottles, or any special tools.
- Your gas supply is always ready and regulated to the correct pressure.
- A few turns of the valve and your bypass is complete.
- Industry proven locking design for theft protection.
- Performance testing proven at **gti**.

**It is about time, and time is money.
 If you want a real return on your investment \$\$, call us today for more information.**

MAKE YOUR JOB EASIER WITH A.Y.

NATURAL GAS PRODUCTS BUILT TO LAST

As a natural gas leader, A.Y. McDonald Mfg. Co. is known throughout the industry for our wide variety of meter bars, valves, accessories, bypass solutions, and – most of all – meter set assemblies. With a product line that just keeps growing, consider us your go-to provider for all natural gas distribution products!



Meter Set Assembly



Ball Valve



MNPT Inlet Meter Bar



Angle Ball Valve



Commercial Bypass Meter Bar - Rear Center



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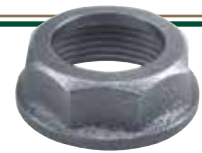


Accessories

November 2024



Accessories



METER NUTS

Meter Nuts are used to connect straight and/or offset swivel gas fittings to the gas meter. Manufactured per ANSI B109.1.

Black Part #	Galvanized Part #	Meter Size	Threads Per Inch	I.D. DIM. In Inches	Carton PCS/WT	Black Part #	Galvanized Part #	Meter Size	Threads Per Inch	I.D. DIM. In Inches	Carton PCS/WT
4815-671	4815-673	5LT	12	0.88"	100/13	4815-566	4815-576	45LT	11 1/2	1.90"	100/42
4815-501	4815-517	10LT	11 1/2	1.16"	100/18	4815-624	4815-626	#3 / #4	11 1/2	2.00"	50/37
4815-507	4815-523	20LT	11 1/2	1.42"	100/22	4815-830	4815-832	60LT	11 1/2	1.90"	50/24
4815-543	4815-557	30LT	11 1/2	1.69"	100/30	4815-806	4815-808	5A	8	2.90"	20/36
4815-513	4815-529	1A	12	1.34"	100/24	4815-700		100LT	11 1/2	2.40"	20/26
4815-564	4815-574	OEM Pittsburgh	11 1/2	1.34"	100/24						

METER PLUGS

Meter Plugs are used to prevent the unintentional flow of gas from meter sets without meters attached. They also prevent insects and other foreign material from entering the gas piping. They are available as shown or can be supplied with 1/8" or 1/4" pipe taps in the center of the hex, with or without standard pipe plugs.



Not Tapped	1/8" Tap* Part #	1/4" Tap* Part #	1/4" Tap Part #	Meter Size	Threads Per Inch	Carton PCS/WT
4820-181	4820-000	4820-010	4820-195	10LT	11 1/2	100/21
4820-180	4820-002	4820-198		1A	12	100/26
4820-182	4820-001	4820-009	4820-196	20LT	11 1/2	100/30
4815-663	4815-750	4815-749	4820-014	30LT	11 1/2	100/41
4815-665	4815-769	4820-199		45LT	11 1/2	100/48

*Without standard pipe plugs.

REPLACEMENT PIPE PLUGS



Part #	Replacement Plug Description
4810-232	RELUBE PLUG 1/8 NPT PLUG VALVE HEX SOCKET DRYSEAL
4810-909	PIPE PLUG 1/8 NPT RECESSED HEX PLATED W/VIBRASEAL
3126-114	PIPE PLUG 1/8 NPT SQUARE HEAD PLATED W/VIBRASEAL
4822-250	PIPE PLUG 1/4 NPT RECESSED HEX PLATED W/VIBRASEAL
3126-126	PIPE PLUG 1/4 NPT SQUARE HEAD PLATED W/VIBRASEAL

Part #	Replacement Plug Description
4823-284	PIPE PLUG 3/8 NPT RECESSED HEX PLATED W/VIBRASEAL
3126-862	PIPE PLUG 3/8 NPT SQUARE HEAD PLATED W/VIBRASEAL
3126-865	PIPE PLUG 3/4 NPT RECESSED HEX PLATED W/VIBRASEAL
3126-108	PIPE PLUG 3/4 NPT SQUARE HEAD PLATED W/VIBRASEAL

Pipe plugs are used to seal pressure ports on valves and meter bars. The following list can be used for replacing lost or damaged plugs in the field. The relube screw is used for the grease port in the plug valves.

GASKETS FOR SWIVELS

Gaskets are used to seal malleable iron offset or straight swivel gas fittings on the face of the gas meter when tightening the swivel nut on meter thread or meter nut plug. These rubber gaskets, made of Buna-N or neoprene, are resistant to the action of natural, manufactured, and LP gases. The inside diameter is intended to lightly grip the pilot O.D. of the fitting to minimize problems during assembly of the swivel nut to the meter.



Part #	Size	I.D. DIM. In Inches	O.D. DIM. In Inches	Thickness	Carton PCS/WT
4820-197	5LT	.72"	.94"	.109"	100/10
4820-184	10LT	.97"	1.25"	.109"	100/30
4820-185	1A and OEM	.97"	1.41"	.109"	100/40
4820-186	20LT	1.29"	1.60"	.109"	100/40
4820-187	30LT	1.47"	1.88"	.109"	50/25

Part #	Size	I.D. DIM. In Inches	O.D. DIM. In Inches	Thickness	Carton PCS/WT
4820-188	45LT	1.60"	2.00"	.109"	50/30
4820-190	#3/#4	1.47"	2.13"	.109"	50/40
4820-191	5A	2.20"	3.23"	.109"	50/40
4820-192	60LT	1.88"	2.20"	.109"	50/30

METER ADAPTERS

The McDonald Meter Adapters are used to efficiently convert from one meter size to another. Each adapter comes with a flat gasket seal on the FNPT end. In addition, each fitting is zinc plated for corrosion protection. The zinc is applied after machining so the threads are protected. If you are converting meter sizes in your system, consider these fittings for a cost effective approach. Manufactured per ANSI B109.1.



Part #	Male Meter Thread (converting from)	FNPT Meter Thread (converting to)	Carton PCS/WT
4820-007	10LT	20LT	50/30
4820-008	1A	10LT	50/18
4820-013	10LT	1A	50/17

LT SERIES - METER ADAPTERS

LT series Meter Adapters are used to efficiently convert from one meter size to another. Each adapter comes with a flat gasket seal on the female end. Each adapter is zinc plated and E-Coated grey for corrosion protection.



CF Part #	Male	Female	CF Part #	Male	Female
LT-1A-10-HEX	1A	10LT	LT-20-1A-HEX	20LT	1A
LT-1A-20-HEX	1A	20LT	LT-20-10-HEX	20LT	10LT
LT-1A-30-HEX	1A	30LT	LT-20-30-HEX	20LT	30LT
LT-10-1A-HEX	10LT	1A	LT-30-1A-HEX	30LT	1A
LT-10-20-HEX	10LT	20LT	LT-30-10-HEX	30LT	10LT
LT-10-30-HEX	10LT	30LT	LT-30-20-HEX	30LT	20LT

Accessories

NON-INSULATED SWIVELS, 25 PSI

Used with meter nuts to connect to gas meter. Manufactured per ANSI B109.1.

	Description	Black	Galvanized	Length	Thread Size	Carton PCS/WT
5LT	5LT 3/8" Offset	4815-667		2 1/8"	1/2" MNPT	100/17
	10LT Straight	4815-503	4815-519	2 5/16"	3/4" MNPT	100/29
10LT	10LT 1" Offset	4815-505	4815-521	3 1/8"	3/4" MNPT	100/39
	10LT 1 1/4" Offset	4815-675		3 1/4"	3/4" MNPT	100/44
	10-5LT 3" Offset	4815-679	4815-681	4"	1/2" MNPT	50/30
	10LT Elbow	4815-738	4815-740		3/4" MNPT	100/42
1A	1A Straight	4815-537	4815-551	2 1/8"	3/4" MNPT	100/33
	1A Straight	4815-539	4815-553	2 13/32"	1" MNPT	100/37
	1A 1" Offset	4815-515	4815-531	2 11/16"	3/4" MNPT	100/39
20LT	1A Spud		4815-549	1 1/8"	3/4" FNPT	200/36
	20LT Straight	4815-509	4815-525	2 3/4"	1" MNPT	100/47
	20LT Straight		4815-864	4"	1" MNPT	
	20LT 1" Offset	4815-511	4815-527	3 1/2"	1" MNPT	100/57
	20LT 1 1/4" Offset	4815-584		3 25/32"	1" MNPT	50/34
	20-10LT 1 5/8" Offset	4815-683		3 3/4"	3/4" MNPT	50/31
	20-5LT 3" Offset	4815-541		3 1/2"	1/2" MNPT	50/34
30LT	20-10LT 3 5/8" Offset	4815-712		3 1/2"	3/4" MNPT	50/44
	20-10LT Straight	4815-730	4815-732	2 3/8"	3/4" MNPT	100/42
	20LT Elbow		4815-693		1" MNPT	50/33
	30LT Straight	4815-545	4815-559	2 29/32"	1 1/4" MNPT	50/30
	30LT 1" Offset	4815-547	4815-561	3 3/4"	1 1/4" MNPT	50/42
45LT	30LT 1 1/2" Offset	4815-871	4815-872	3 3/4"	1 1/4" MNPT	50/37
	30-20LT Straight	4815-687	4815-689	2 27/32"	1" MNPT	100/50
	30-20LT 1 1/4" Offset	4815-616	4815-618	3 25/32"	1" MNPT	50/39
	30LT-10LT 3" Offset	4815-840	4815-842	4"	3/4" MNPT	40/28
	45LT Straight	4815-568	4815-578	2 15/16"	1 1/2" MNPT	50/38
#3 / #4	45LT 1" Offset	4815-570	4815-580	4"	1 1/2" MNPT	50/53
	45LT 1 5/8" Offset	4815-911	4815-912	3 3/4"	1 1/2" MNPT	25/29
	45LT 2 1/2" Offset	4815-572	4815-582	5 1/2"	1 1/2" MNPT	25/38
	45-30LT Straight	4815-734	4815-736	3 7/8"	1 1/4" MNPT	50/51
	45-30LT 1 5/8" Offset	4815-852	4815-854	4"	1 1/4" MNPT	30/26
60LT	#3/#4 Straight	4815-856	4815-857	3 1/8"	1 1/2" MNPT	50/40
	#3/#4 4 1/2" Offset		4815-908	8 9/16"	1 1/2" MNPT	
5A	60LT 1" Offset	4815-879	4815-880	5 3/8"	1 1/2" MNPT	25/30
	60LT 4 1/2" Offset	4815-884	4815-886	8 3/4"	1 1/2" MNPT	12/32
100LT	5A Straight	4815-810		2 1/8"	2" FNPT	25/30
	100LT Straight	4815-696	4815-698	3 3/4"	2" MNPT	40/60



Straight



Offset



Spud



Elbow

INSULATED SWIVELS, 25 PSI

Used with meter nuts to connect to gas meter. Manufactured per ANSI B109.1.

All insulated swivels are zinc plated for corrosion protection. The zinc is applied after machining so the threads are also protected.

	Description	Zinc	Length	Thread Size	Carton PCS/WT
1A	1A Spud	4815-723	1"	3/4" FNPT	72/17
	1A Straight	4815-755	2 3/8"	3/4" MNPT	72/22
	1A Straight	4815-760	2 3/8"	1" MNPT	144/
	1A 1" Offset	4815-765	2 3/4"	3/4" MNPT	72/
20LT	20LT Straight	4815-746	2 3/4"	1" MNPT	72/
	20LT 1 1/4" Offset	4815-748	3 11/16"	1" MNPT	30/
	20-10LT Spud	4815-779	1 1/4"	3/4" FNPT	144/
30LT	30LT Straight	4815-796	3"	1 1/4" MNPT	50/
	30-20LT Straight	4815-786	2 7/8"	1" MNPT	72/
45LT	45LT Straight	4815-882	2 15/16"	1 1/2" MNPT	50/



Straight



Spud

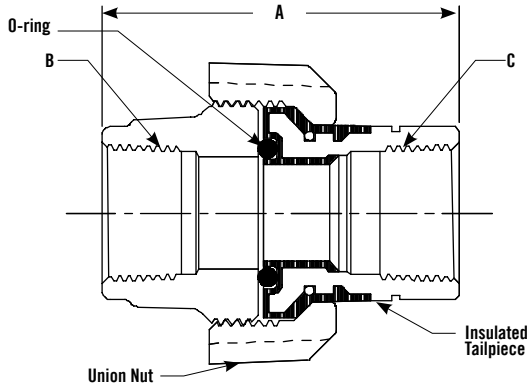
Accessories

3 Part Unions - 6300 Series

FNPT OR MNPT INSULATED UNION, 300 PSI

Designed to prevent electrolysis or other corrosive effects in 3/4" through 2" gas service lines. They are resistant to most chemical substances, including gas, water, and petroleum oils at normal temperatures. Meets ANSI B1.20.1 standards.

FNPT



(Black Cast Iron Shown)

6300 - DIMENSIONS

Insulated O-ring Union Outlet

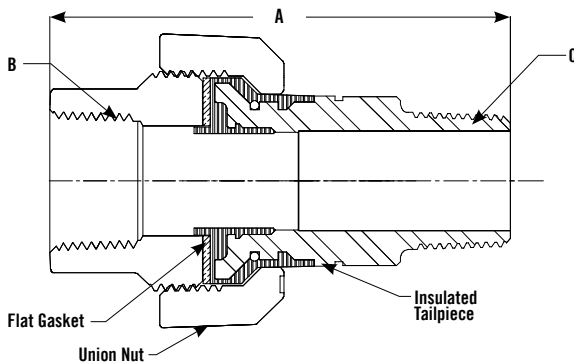
6300B Part #	6300A Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-000	4821-087	3/4"	2.7"	3/4"	3/4"
4821-008	4821-088	1"	2.9"	1"	1"
4821-031	4821-089	1 1/4"	3.1"	1 1/4"	1 1/4"
4821-038	4821-090	1 1/2"	3.3"	1 1/2"	1 1/2"
4821-032	4821-091	2"	3.3"	2"	2"

6301 - DIMENSIONS

Insulated Flat Gasket Union Outlet - Black

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-001	3/4"	2.7"	3/4"	3/4"
4821-009	1"	2.9"	1"	1"

Male



(Black Cast Iron Shown)

6310 - DIMENSIONS

Insulated O-ring Union Outlet - Black

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-002	3/4"	3.5"	3/4"	3/4"
4821-010	1"	3.9"	1"	1"

6311 - DIMENSIONS

Insulated Flat Gasket Union Outlet - Black

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-003	3/4"	3.5"	3/4"	3/4"
4821-011	1"	3.9"	1"	1"

Accessories

Repair Unions - 6300R Series
FNPT INSULATED TAILPIECE, 150 PSI

Union Nut - FNPT



Valve O-ring Repair Union

Valve Size	6300RB	6300RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-004	4821-052	4811-599	3134-212	4822-356	4822-474
1"	4821-056	4821-058	4822-456	3134-217	4810-987	4811-803
1 1/4"	4821-059	4821-061	4811-807	3134-224	4810-989	4811-844
2"	4821-062	4821-064	4811-592	3134-231	4811-581	4811-846

O-ring included with insulated end



Meter Bar Gasket Repair Union

Outlet Size	6301RB	6301RA	Insulated End	Gasket	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-005	4821-073	4811-623	4822-222	4822-356	4822-474
1"	4821-013	4821-076	4822-404	4822-223	4810-987	4811-803
1" x 3/4"	4821-077	4821-079	4822-325	4822-223	4810-987	4811-803



Meter Bar O-ring Repair Union

Outlet Size	6302RB	6302RA	Insulated End	O-ring	Black Nut	Thermal-Diffusion Zinc Nut
3/4"	4821-080	4821-082	4811-599	3134-212	4822-356	4822-474
1"	4821-065	4821-067	4822-404	3134-216	4810-987	4811-803
1 1/4"	4821-083	4821-085	4811-807	3134-224	4810-989	4811-844
1 1/2"	4821-068	4821-070	4811-658	3134-227	4820-262	4811-848

O-ring included with insulated end except 1"

Meter Bar Brackets

Meter Bar Brackets need to be durable and withstand the elements of environmental conditions for many years into the future. They are manufactured from heavy 9 gauge, hot rolled steel for durability and feature a gray, polyester powder-coated surface for superior corrosion resistance.



Part No.	Model	Description	Size	WT.
4826-218	649-T-44-	Bracket Standard Meter Bar 2.0 Wide	Standard Meter Bar	1.5
4826-219	649-T-44D	Bracket 6480 Meter Bar 2.9 Wide	6480	2.3

YOU CALL. WE ANSWER.

Great Customer Service Never Goes Out of Style

When was the last time you communicated with a company that answered your call and your questions the first time around? No machine. Just good old-fashioned customer service. At A.Y. McDonald Mfg. Co., we strive to be an innovative company that operates based on commitment to the customer, our family roots, and our vast history since 1856.



Erin Rauen
Director of Customer Service
24 Years

- ✓ A Real Person
- ✓ Education/AY University
- ✓ Innovation
- ✓ First Time Answers
- ✓ Training
- ✓ A Company That Cares
- ✓ Product Knowledge
- ✓ Product Availability
- ✓ Best Service



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Meter Set Assemblies (MSA)

November 2024



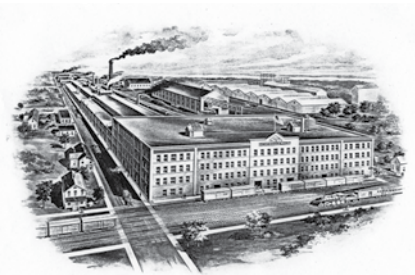
THE NATURAL GAS METER SET ASSEMBLY

YOU SPOKE. WE LISTENED.

Since 1856, A.Y. McDonald Mfg. Co. has had the pleasure of providing quality solutions for the industries we serve. We are a family business that, at our core, believes the customer is the boss. One of the fundamental jobs that A.Y. McDonald Mfg. Co. does for our boss is to listen to their needs. Even more important than listening is to have the wherewithal to act on those needs, such as the decision to produce Natural Gas Meter Set Assemblies (MSA), an idea that stemmed from one of our own Innovation Summits. Adding this solution to our natural gas product line means that the customer will receive consistent timelines and lead times, along with open communication from our team to yours.

DEMAND IN THE MARKET

The natural gas distribution market has seen an increase in demand for meter set assemblies due to utilities looking to have consistency in assembly. Meter set assemblies not only provide time savings but also cost savings in labor for utilities. In addition, there's an added safety factor to meter set assemblies since they are tested prior to being installed. A.Y. McDonald Mfg. Co.'s meter set assemblies in particular are tested electronically, not by water, thus eliminating human error in the process.



CUSTOMER FOCUSED

- Consistent lead times
- Quality meter set assemblies
- Pressure testing for safety and quality
- Top notch customer service
- All parts under one roof - except regulator
- Traceability

TRACEABILITY FOCUSED

In May of 2015, A.Y. McDonald Mfg. Co. introduced traceability tags for all of our natural gas products (excluding accessories), which include critical information such as manufacturer, materials, and date of manufacture.

Not only do traceability tags provide an innovative solution for detecting where underground pipes lie within a gas system, but they also serve as a safety initiative allowing utilities to manage assets.

Like our standalone products, A.Y. McDonald Mfg. Co.'s meter set assemblies also contain traceability tags for utility companies to upload product information into their asset management system (see picture to the right).



QUALITY

We control all components of a customer meter set as they are all A.Y. McDonald Mfg. Co. components, with the exception of the regulator. This includes quality control of thread connections on all components. A.Y. McDonald Mfg. Co. MSA's will include pipe nipples with CNC threads that are cut to length and quality checked before and after bending. As well as a focus on pipe cleanliness. Threads meet the ANPT Standard aeronautical thread measurement, truncation, and thread angle.

THE NATURAL GAS METER SET ASSEMBLY

PRESSURE TESTING

A.Y. McDonald Mfg. Co. meter set assemblies are tested electronically, eliminating the chance of water getting in the regulator or initiating rust prior to painting. Each meter set assembly goes through three tests, including the following steps:

- 1) The regulator is pressurized to ensure it is the correct regulator and is set properly.
*Not a flowing set point per regulator specification
- 2) The inlet of the meter set assembly is pressurized according to the customer's required specification so leaks can be detected.
*We do detect lockup – not at designated pressure
- 3) Joints after the regulator are tested to ensure all joints are sealed.
- 4) The outlet side of the meter set assembly is tested at about 40 psi.



PAINT

In preparation for the meter set assembly addition, an investment was made for an entirely new paint line. The focus for this new paint line is based on efficiency, quality, and taking into account the vast volume of meter set assemblies that can be completed.

- Paint Specifications (relates to color and gloss, not to paint material):

- Fabrication Paint - 2-part epoxy primer applied by electrostatic air spray, ANSI 49 gray 2-part Urethane topcoat applied by electrostatic air spray, Approximately 6-10 mils total DFT (dry film thickness).
- The paint chosen provides excellent corrosion resistance and durability for MSAs. Salt spray tests have been performed in order to ensure the protection is acceptable. The paint, along with an efficient process, provides a quality meter set assembly.

- Coating Test Documents - Salt Spray Test per ASTM B117, measuring failure at 4% rust



- Cleaning specification

- Pipe will be free of chips and debris using a solvent wash per SSPC-SP1 standards.

- Protection in paint process (masking, etc.)

- Threads and open ends will be plugged or capped to prevent any paint from entering the meter set assembly.
- Custom masks will be applied for tags and other areas that need to remain unpainted.

THE NATURAL GAS METER SET ASSEMBLY

PACKAGING

- Bulk packages are provided in 40" x 48" x 36" gaylords. Foam bags protect the meter sets assemblies with cardboard pads separating the stacked layers. A lid is provided to allow for double stacking of the skids for storage. Custom packaging available upon request.



ELBOWS:

- Schedule 40 black A106 seamless

NIPPLES: Machined from 2" up to 36"

- Schedule 40 black A106 seamless
- Schedule 40 galvanized A53 welded
- Schedule 80 black A106 seamless

Pipe	Min	Max
3/4"	5" x 5"	18" x 18"*
1"	5" x 5"	18" x 18"*
1 1/4"	6 2/3" x 6 2/3"	18" x 18"*

All nipples machined using single point CNC machining for quality threads

*Individual end lengths may vary, maximum overall length is 36"

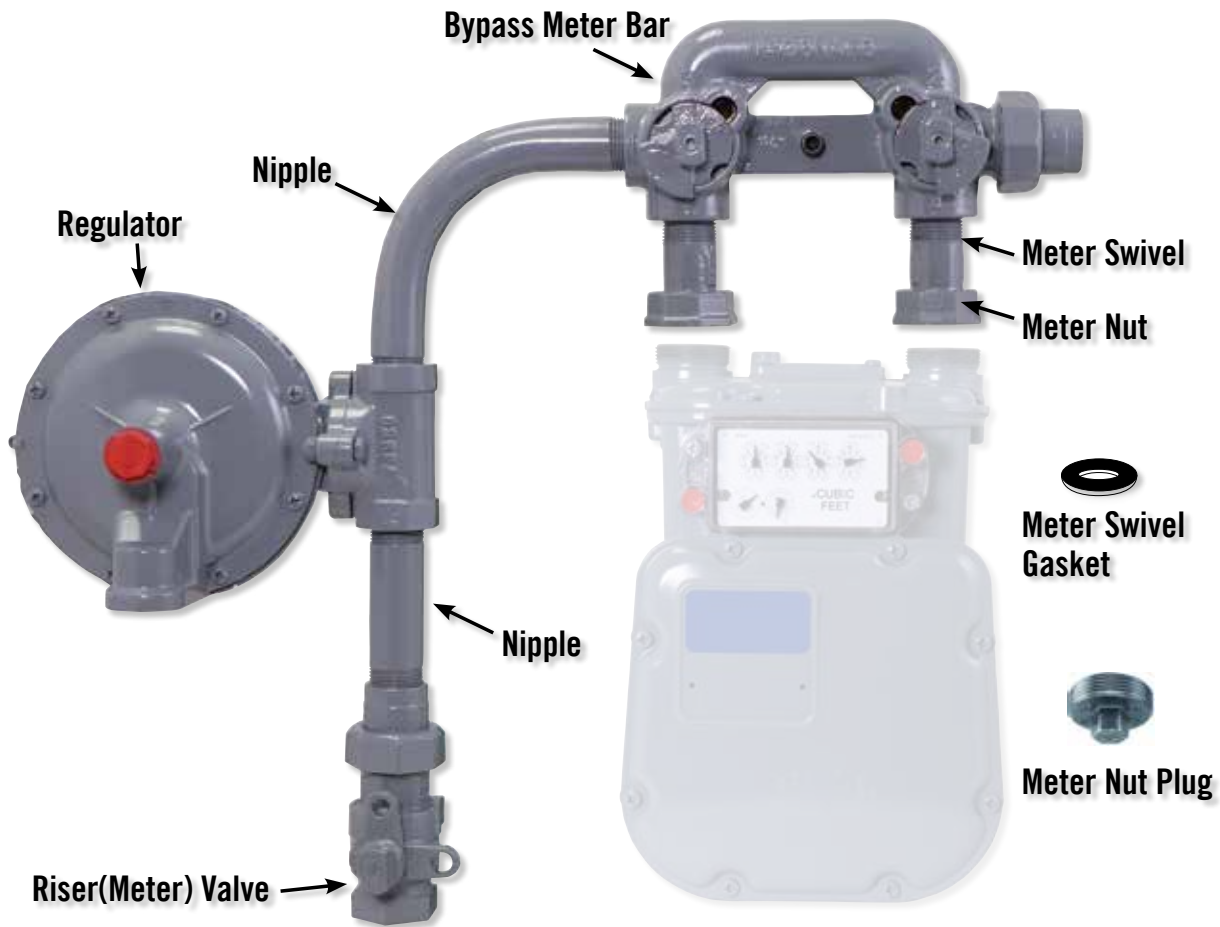




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