

**WITHOUT YOU
THERE IS NO US.**



**Natural Gas
Product Catalog**

April 2019



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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. High Pressure 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 & Covers, HPG, and Yoke Boxes) \$6,000 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 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). 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 high pressure 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 employee, 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 & 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.

YOU SPOKE AND WE LISTENED.

METER SET ASSEMBLY - SAFETY, TESTING, TECHNOLOGY, INNOVATION, CUSTOMER SERVICE.

A.Y. McDonald has been assembling for a long time but we are doing it for the first time ever as a full Meter Set Assembly. Our Meter Set Assemblies combine safety, testing, technology, innovation, and customer service in a single solution. With 163 years of expertise and knowledge to rely on, you won't be disappointed with the result!



At A.Y. McDonald, you aren't just getting a product; you are getting an innovative solution, access to educational opportunities, and the ability to be treated like family. The customer is the boss and we aim to break the mold on how we reach customer satisfaction. Because in the end, without you, there would be no us.

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WELCOME TO THE STANDARD OF SAFETY.

A.Y. McDonald 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 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 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 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 employee 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 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 & Date Code

- Built in Albia & 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

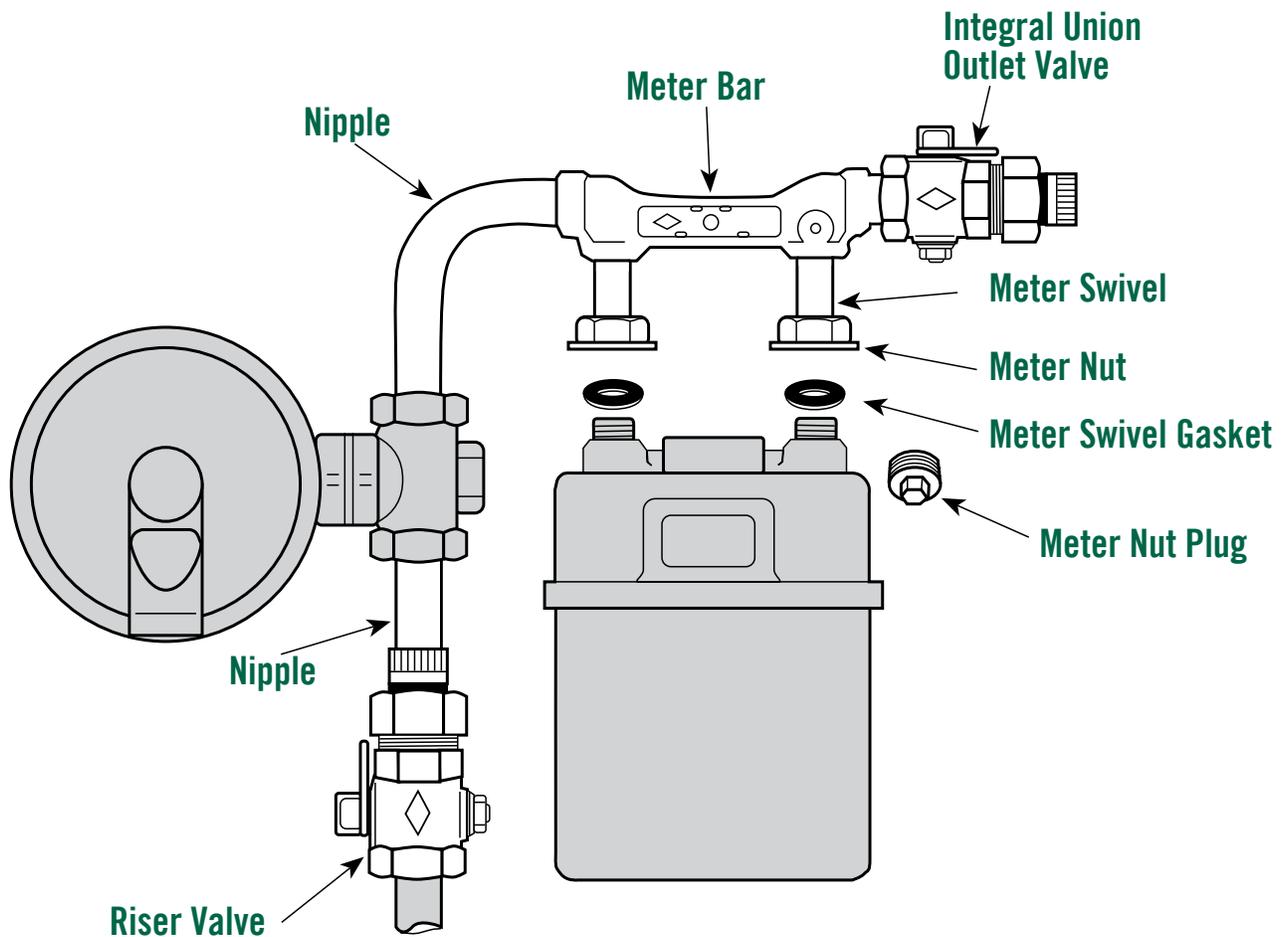
Material

- Cast Iron
- Brass

You Tube Learn more about making your community safer with **TRACE TAGS** by visiting our YouTube channel. <https://www.youtube.com/watch?v=URHP-QPr7BQ>



More than a brand. **We're a family.**



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

BODY/END PIECE - Cast Iron per ASTM A 126 Class B

PLUG - Cast Brass - ASTM B 584/Alloy 83600 or Alloy 84400

BRASS BALL - CDA 36000

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

BRASS NUTS & WASHERS (Plug Valve) - ASTM B 584/Alloy B83600 or Alloy 84400 or MPIF Std. 35 Code CZ 3002

O-RINGS/TORQUE SEALS - Buna-N (Nitrile) or Neoprene 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

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

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

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's Gas Ball Valve is a pretty big deal. After all, we proudly place our name on each and every A.Y. McDonald gas valve in the hopes that when you recognize it, you will think of safety, dependability, and a long-lasting product.



At A.Y. McDonald, you aren't just getting a product; you are getting an innovative solution, access to educational opportunities, and the ability to be treated like family. The customer is the boss and we aim to break the mold on how we reach customer satisfaction. Because in the end, without you, there would be no us.

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Ball Style



Natural Gas Ball Style

MORE THAN A BRAND. WE'RE A FAMILY.

Natural Gas Meter Ball Valves

175 PSIG BALL STYLE METER 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:

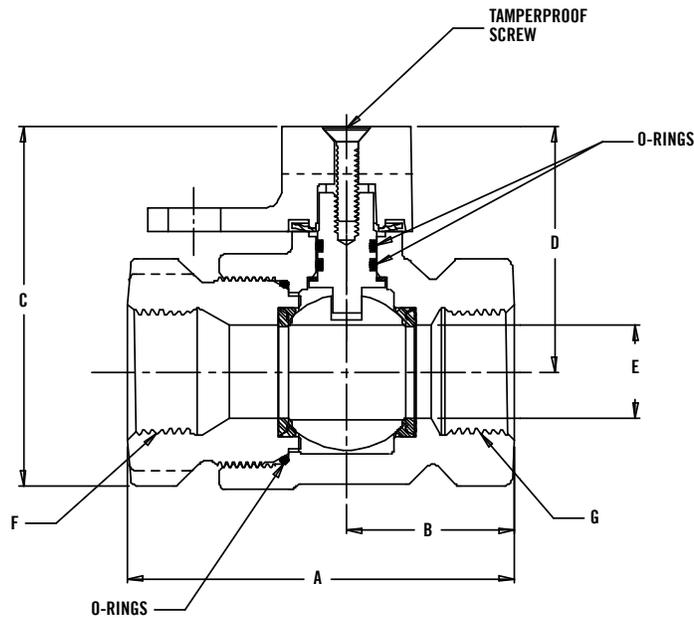
- A.Y. McDonald's Iron Body, Brass Ball Valve is designed and tested to comply with ANSI/ASME B16.33 American National Standard for "Manually Operated Metallic Gas Valves for use in Gas Piping Systems up to 175 PSIG."
- Soft seat design does not rely on grease to prevent leakage to the atmosphere or through the valve seats. Sealing capability is maintained even after many cycles.
- Tamper-resistant (Tamperproof) design makes the A.Y. McDonald Ball Valve virtually impossible to disassemble without making the valve unusable, i.e. pinned end piece 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 tamper-resistant stainless steel screw.
- Breaking 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 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's Ball Valve is a non-directional valve.
- Traditional lockwing design easily accommodates standard Barrel-Locks or padlocks.
- Full Port openings accommodate the best known stop changers and yet 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. Sealing against external leakage during this normal service is thereby doubly-provided and the stem seals do provide the necessary external leak protection during cycling.
- In the normal open position, the sealing surface of A.Y. McDonald'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.
- In addition to an o-ring, metal-to-metal positive seating of the end piece limits the squeeze on port seals, and serves as back-up seal if necessary.
- No field adjustment or maintenance required.
- Each valve is pressure tested in both directions electronically.
- Temperature Range: -20° to +150°F.
- Available in FNPT x FNPT (860) or FNPT x Insulated union (8276).

Note: These valves are intended for use with natural, manufactured and L.P. gas only.

Natural Gas Ball Valves - 860 Series

TAMPERPROOF, 175 PSIG, FLAT HEAD, BRASS BALL, LOCKWING

These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

FNPT x FNPT

COATINGS AVAILABLE

- 860B Black Iron
- 860G Zinc Coated w/Clear Chromate Finish Iron
- 860PNT Paint Coated
- 860N Zinc & Painted

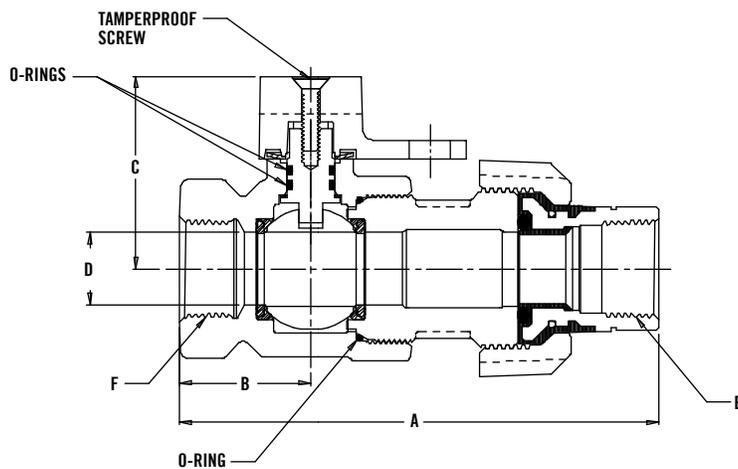
DIMENSIONS

Size	A	B	C	D	E	F	G	Weight
3/4"	3 1/8"	1 3/8"	2 13/16"	1 13/16"	3/4"	3/4"	3/4"	1.8
1"	3 9/15"	1 11/16"	3 1/8"	2"	1"	1"	1"	2.5
1 1/4"	4 3/8"	1 7/8"	3 15/16"	2 1/2"	1 1/4"	1 1/4"	1 1/4"	4.5
2"	5 7/16"	2 7/16"	5 1/16"	3"	2"	2"	2"	8.3

Natural Gas Ball Valves - 8276 Series

TAMPERPROOF, 175 PSIG, FLAT HEAD, BRASS BALL, LOCKWING

These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

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

COATINGS AVAILABLE

- 8276B Black Iron
- 8276G Zinc Coated w/Clear Chromate Finish Iron
- 8276PNT Paint Coated
- 8276N Zinc & Painted

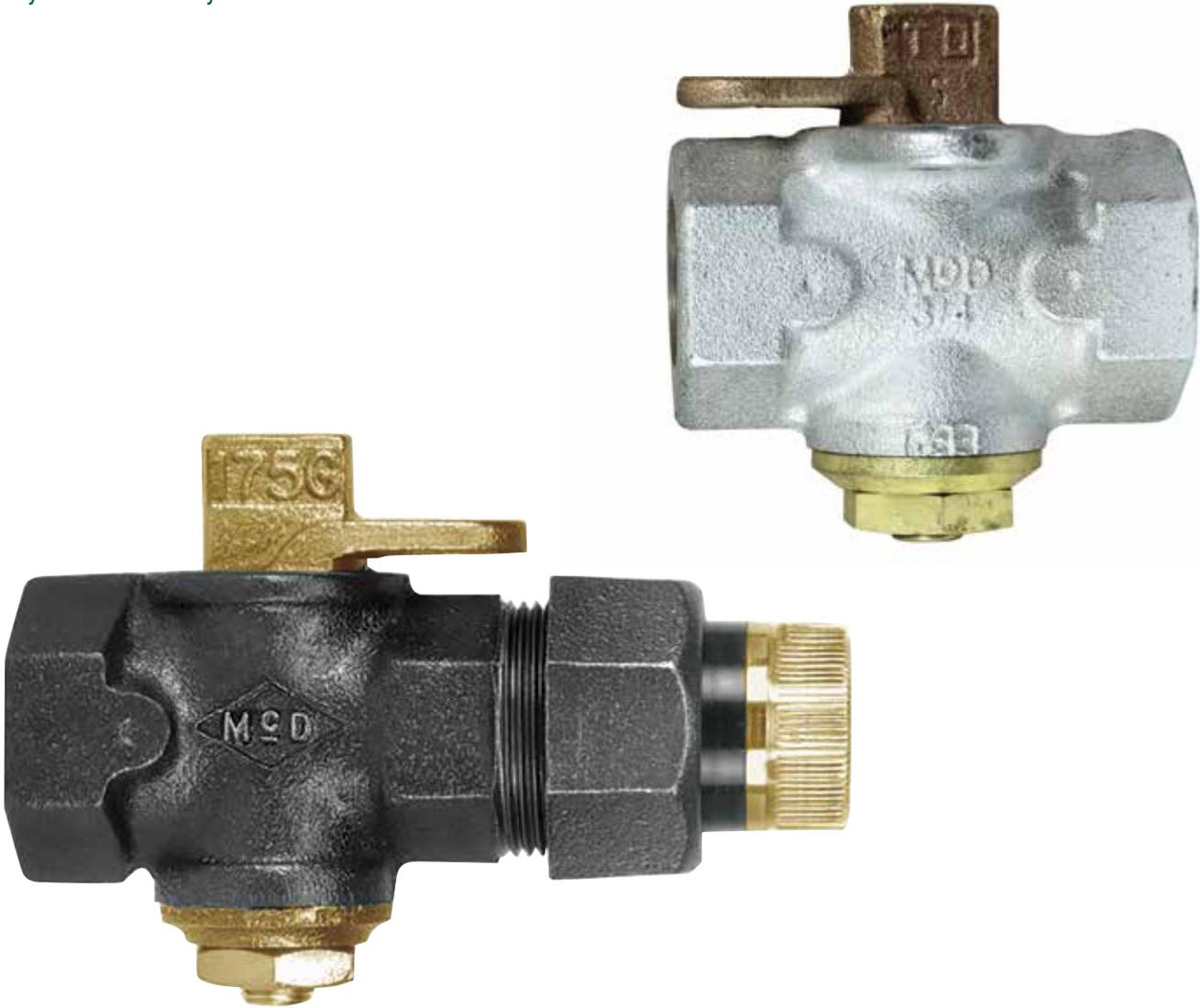
DIMENSIONS

Size	A	B	C	D	E	F	Weight
3/4"	5"	1 3/8"	1 13/16"	3/4"	3/4"	3/4"	2.5
1"	5 13/16"	1 11/16"	2"	1"	1"	1"	3.4
1 1/4"	7"	1 7/8"	2 1/2"	1 1/4"	1 1/4"	1 1/4"	5.7
2"	6 15/16"	2 7/16"	3"	2"	2"	2"	12.5

TURN TO US FOR YOUR VALVES.

NATURAL GAS PLUG VALVES

There's no room for mistakes in the natural gas industry. As a concept that never goes out of style, safety is at the core of the creation for A.Y. McDonald's Gas Plug Valves. Trust in a company that has seen success for 163 years – and many more to come!



At A.Y. McDonald, you aren't just getting a product; you are getting an innovative solution, access to educational opportunities, and the ability to be treated like family. The customer is the boss and we aim to break the mold on how we reach customer satisfaction. Because in the end, without you, there would be no us.

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Plug Style



Natural Gas Plug Style

MORE THAN A BRAND. WE'RE A FAMILY.

Re-Lubrication Tool

FOR USE ON 175 PSIG RE-LUBE VALVES & WITH A.Y. MCDONALD GREASE ONLY

A.Y. McDonald Mfg. Co. model number 558 Re-Lubrication Tool is an easy and economical way to lubricate 175 PSIG 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 valves in the full open or the full closed position when the valve is pressurized or unpressurized. It will also lubricate valves of other manufacturers. Check with them for their recommended procedures.

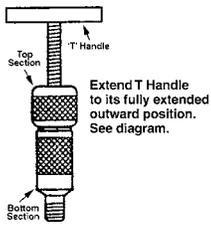


- **558 - Grease Tool**
- **558GR - Grease Sticks** for use with 588 Re-Lubrication tool. 24 sticks/box.

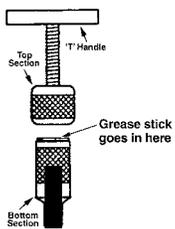
Watch our Re-Lubrication Tool demonstration video



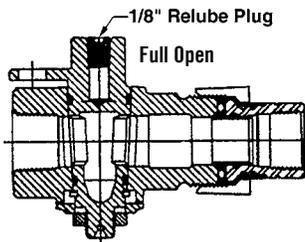
<https://www.youtube.com/watch?v=RMKheuv6nPM>



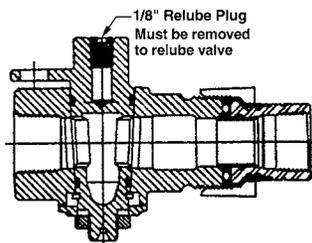
1 Turn the "T" Handle counter-clockwise until the handle is fully extended outward (see picture), this will raise plunger & O-ring into the cap so grease may be added inside the body (bottom section) of the tool.



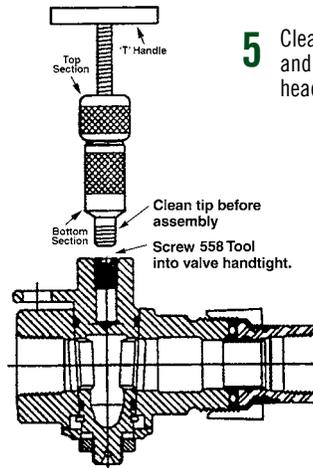
2 Unscrew the top section (with the handle) from the "558" Re-Lubricating Tool, insert a stick of A.Y. McDonald Grease (#558GR) into the body (bottom section) of the tool, and screw the top section back onto the bottom section hand tight.



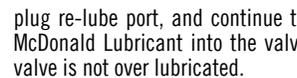
3 A.Y. McDonald 175 PSIG Gas Valves may be re-lubricated in the full open or the full closed position when the valve is pressurized or un-pressurized.



4 Remove the 1/8" NPT Allen Head Pipe Plug from the re-lubrication port in the head of the plug.

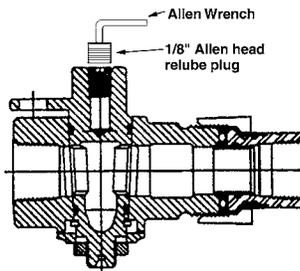


5 Clean the nozzle tip of the "558" Re-Lubrication Tool and very carefully thread it into the re-lube port in the head of the valve plug.



6 Turn the "T" Handle clockwise to force the lubricant into the valve, if immediate resistance is felt, the "558" Re-lubrication Tool may have a hardened grease deposit in the barrel which must be removed before proceeding to re-lube the gas valve, (remove re-lube tool from the valve, unscrew the top section from the bottom section of the re-lube tool, stick a piece of wire (smaller than opening on end of tube) through the bottom section of the re-lube tool until the wire comes out the opposite end) reassemble the top section to the bottom section, re-connect tool to valve

7 Unscrew "558" Re-Lubrication Tool by turning counter-clockwise until there is only a couple threads left engaged. Turn "T" Handle clockwise to add a little more grease to fill void left in head of plug from backing off the tool, then remove tool completely from valve (put tool back into container to avoid dirt or foreign material from contaminating grease on tool).



8 After re-lubrication of the valve is complete, the 1/8" Allen Head Re-Lube Plug must securely replaced in the re-lube port in the head of the valve plug and tightened with an Allen Wrench to 30 in. lbs. of torque.

NOTE:

- 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.
- Other commercially available re-lube tools may be used, but you must check with the factory before using.
- The field Service Personnel, after a few trials, should be able to tell by the feel (resistance) of the handle, when the stop is filled has a adequate amount of grease in it.

Plug Style

Natural Gas Meter Plug Valves

175 PSIG PLUG STYLE METER VALVES

Precision machined and offer bubble tight leak protection both open and closed. Plug Style Meter Valves can be relubricated while in service. Special machined grooves in the plug channel provide grease to all sealing surfaces.

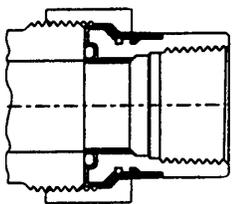
All connections with pipe threads require use of thread sealant at installation. (PTFE tape is not recommended, see instruction sheet.)

Iron Body Gas Plug Valves Features

- A.Y. McDonald'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 PSIG."
- Pressure ratings are or 175 PSIG.
- Each valve is factory lubricated and suitable for use with natural, manufactured and LP gases.
- 175 PSIG valves can be relubricated while in service and under pressure. This renews the grease seal to a like new condition adding to the life of the valve.
- Valves plugs are equipped with top and bottom o-rings for added security against external leakage.
- Tamper-resistant (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 in place to maintain this torque.
- Pressure may be applied in either direction as A.Y. McDonald's Plug Valve is a non-directional valve.
- The 90° rotation provides complete shut-off from open position. Valve can be rotated full 360°.
- Available with or without lockwing. Both models fit industry-standard, separately-supplied locking devices such as the casket, barrel lock or padlock.
- Port openings sized to accommodate the best known stop changers.
- Temperature Range: -20° to +150°F.
- Available in FNPT x FNPT (560) or FNPT x Insulated union (6276).
- Each valve is pressure tested in both directions electronically or with air under water.

Note: These valves are intended for use with natural, manufactured and L.P. gas only.

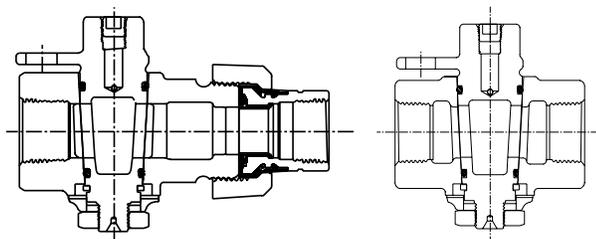
METER VALVE OUTLET UNION STYLES



Insulated Union
with O-ring seal
FNPT Outlet Threads

- 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.

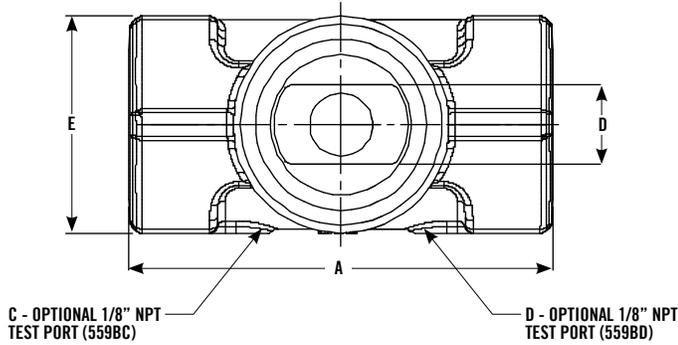
RE-LUBRICATION



Natural Gas Plug Valves - 559 Series

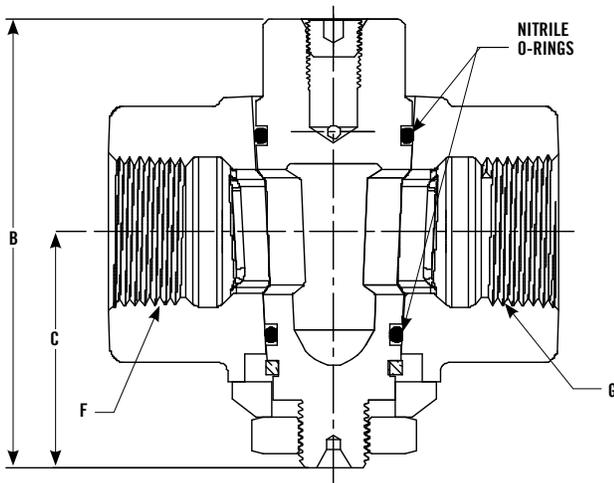
TAMPERPROOF, 175 PSIG, FLAT HEAD, BRASS PLUG

These valves are designed for use with natural, manufactured and L.P. gas only. All A.Y. McDonald 175 PSIG Gas Valves may be re-lubricated in the full open or the full closed position when the valve is pressurized or un-pressurized. **Do Not Tamper with Bottom Nut**



COATINGS AVAILABLE

- 559B Black Iron
 - 559G Zinc Coated w/Clear Chromate Finish Iron
 - 559PNT Paint Coated
 - 559N Zinc & Painted
 - 559BC Black Iron w/ 1/8" Test Plug
 - 559BD Black Iron w/ 1/8" Test Plug
- Taps available on all the above product options.



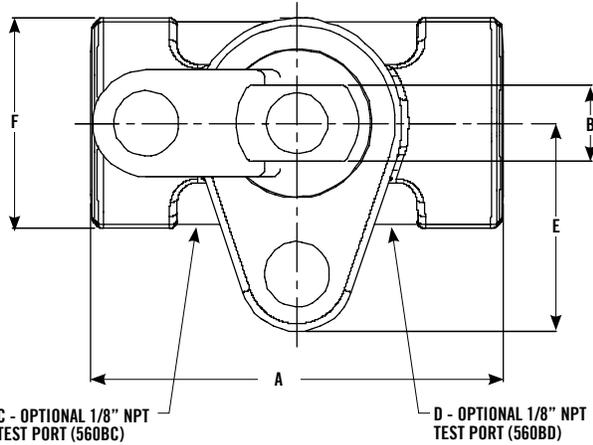
DIMENSIONS

Size	A	B	C	D	E	F	G	Weight
1/2"	3.14	3.16	1.66	.59	1.62	1/2"	1/2"	1.6
3/4"	3.14	3.16	1.66	.59	1.62	3/4"	3/4"	1.6
1"	3.36	3.53	1.86	.59	1.94	1"	1"	2.4
1 1/4"	3.88	4.38	2.38	.65	2.31	1 1/4"	1 1/4"	3.7
1 1/2"	4.65	4.99	2.66	.62	2.62	1 1/2"	1 1/2"	6.1
2"	5.60	5.57	2.96	.59	3.00	2"	2"	9.3

Natural Gas Plug Valves - 560 Series

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

These valves are designed for use with natural, manufactured and L.P. gas only. All A.Y. McDonald 175 PSIG Gas Valves may be re-lubricated in the full open or the full closed position when the valve is pressurized or un-pressurized. **Do Not Tamper with Bottom Nut**

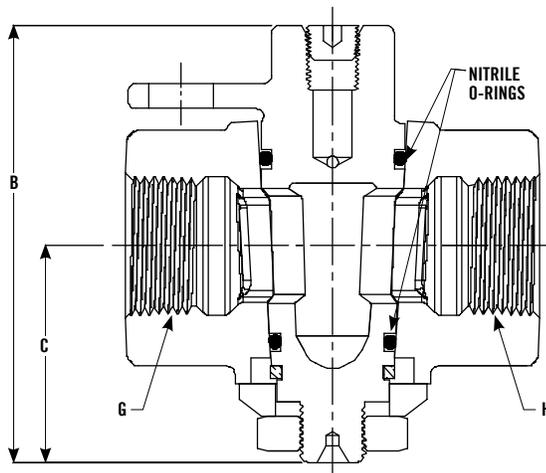


(black iron shown)

FNPT x FNPT

COATINGS AVAILABLE

- 560B Black Iron
 - 560G Zinc Coated w/Clear Chromate Finish Iron
 - 560PNT Paint Coated
 - 560N Zinc & Painted
 - 560BC Black Iron w/ 1/8" Test Plug
 - 560BD Black Iron w/ 1/8" Test Plug
- Taps available on all the above product options.



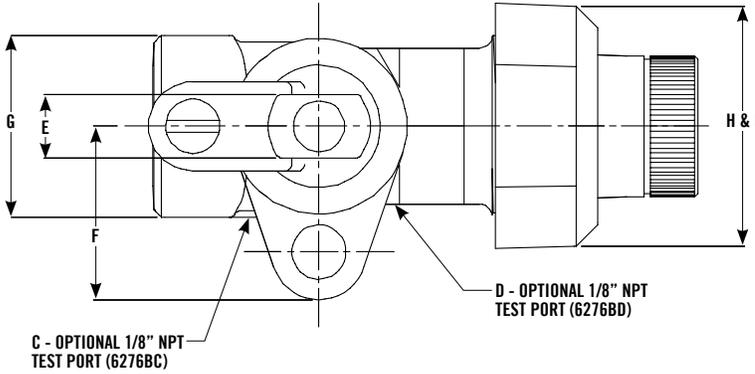
DIMENSIONS

Size	A	B	C	D	E	F	G	H	Weight
1/2"	3.14	3.34	1.66	.59	1.60	1.62	1/2"	1/2"	1.8
1/2" x 3/4"	3.14	3.34	1.66	.59	1.60	1.62	1/2"	3/4"	1.8
3/4"	3.14	3.34	1.66	.59	1.60	1.62	3/4"	3/4"	1.8
3/4" x 1"	3.36	3.67	1.86	.59	1.67	1.94	3/4"	1"	2.5
1"	3.88	4.69	2.37	.65	1.94	2.31	1 1/4"	1 1/4"	2.4
1 1/4"	4.66	5.43	2.65	.62	2.31	2.62	1 1/2"	1 1/2"	3.9
1 1/2"	5.60	5.82	2.96	.47	2.53	3.00	2"	2"	6.9
2"	5.60	5.82	2.96	.47	2.53	3.00	2"	2"	9.5

Natural Gas Plug Valves - 6276 Series

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

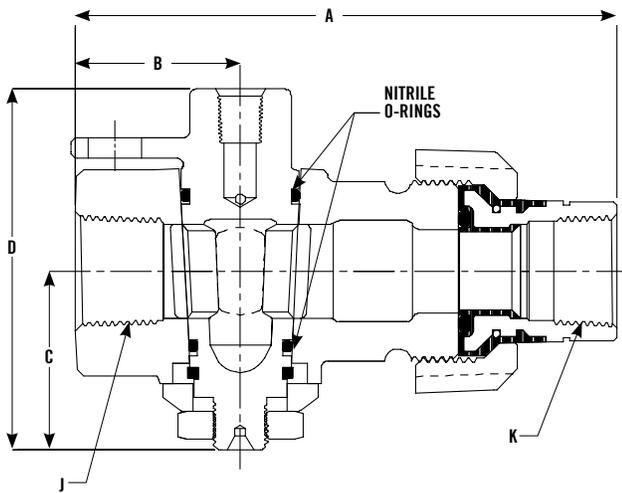
These valves are designed for use with natural, manufactured and L.P. gas only. All A.Y. McDonald 175 PSIG Gas Valves may be re-lubricated in the full open or the full closed position when the valve is pressurized or un-pressurized. All A.Y. McDonald plug style gas valves have factory set turning torque.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



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

COATINGS AVAILABLE

- 6276B Black Iron
 - 6276G Zinc Coated w/Clear Chromate Finish Iron
 - 6276PNT Paint Coated
 - 6276N Zinc & Painted
 - 6276BC Black Iron w/ 1/8" Test Plug
 - 6276BD Black Iron w/ 1/8" Test Plug
- Taps available on all the above product options.



DIMENSIONS

Size	A	B	C	D	E	F	G	H	I	J	K	Weight
3/4"	5.03	1.54	1.66	3.34	.59	1.60	1.68	1.96	HEX	3/4"	3/4"	2.5
1"	5.74	1.68	1.86	3.68	.59	1.65	1.94	2.30	DCT	1"	1"	3.5
1" x 3/4"	6.03	2.50	1.66	3.34	.59	1.59	2.12	1.96	HEX	1"	3/4"	3.1
1 1/4" x 3/4"	6.02	2.49	1.66	3.34	.59	1.59	2.12	1.96	HEX	1 1/4"	3/4"	5.3
1 1/4"	6.51	2.18	2.37	4.68	.59	1.94	2.12	2.57	DCT	1 1/4"	1 1/4"	3.1
2"	7.85	2.81	2.97	5.82	.59	2.52	3.00	3.86	DCT	2"	2"	12.4

Plug Style



Natural Gas Bypass Ball Valves

Bypass Ball Valves

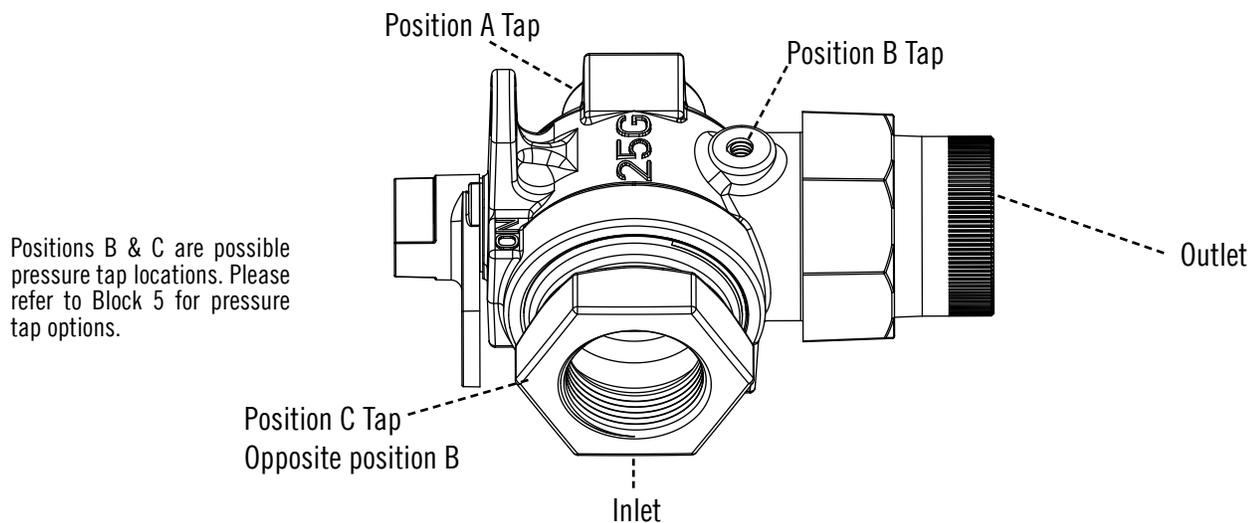
MORE THAN A BRAND. WE'RE A FAMILY.

Angle Ball Valves

5 PSIG 3/4" & 1", 25 PSIG 1 1/4" ANGLE BALL STYLE METER 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.

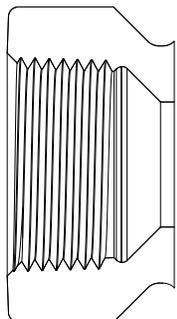
INSULATED UNION OUTLET

The union outlet is available insulated to minimize electrolysis.

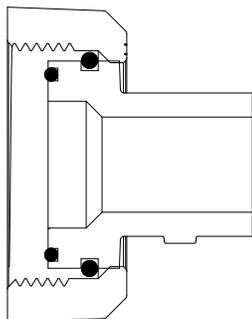
- Soft seat design does not rely on grease to prevent leakage to the atmosphere or through the valve seats. Sealing capability is maintained even after many cycles.
- Tamper-resistant (Tamperproof) design makes the A.Y. McDonald Ball Valve virtually impossible to disassemble without making the valve unusable, i.e. pinned end piece 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 tamper-resistant stainless steel screw.
- Breaking 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.
- In addition to an o-ring, metal-to-metal positive seating of the end piece limits the squeeze on port seals, and serves as back-up seal if necessary.
- Traditional lockwing design easily accommodates standard Barrel-Locks or padlocks.
- 1" is reducing port.
- No field adjustment or maintenance required.
- Each valve is pressure tested in both directions electronically or with air under water.
- Temperature Range: -20° to +150°F.

Note: These valves are intended for use with natural, manufactured and L.P. gas only.

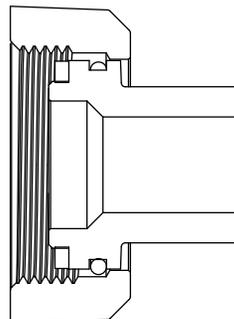
Inlets/Type - Block 1



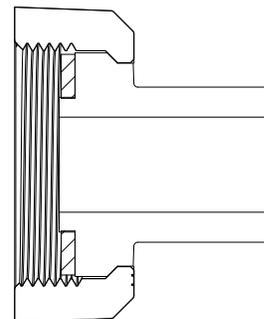
Integral FNPT



Meter Swivel Nut O-ring Seal

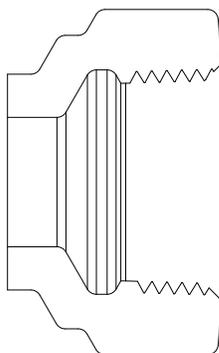


Meter Swivel Nut Flat Gasket Seal

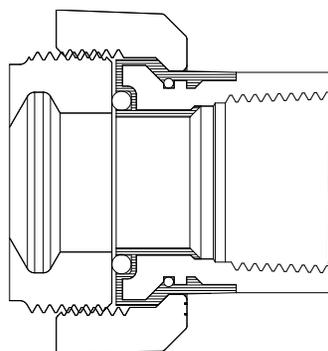


Union Inlet

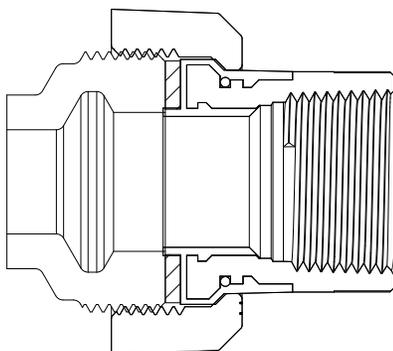
Outlets/Type - Block 2



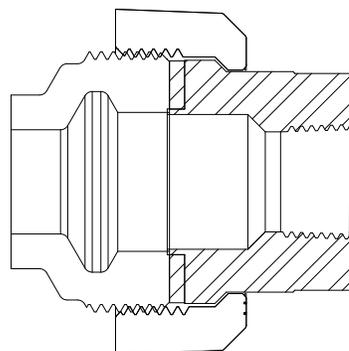
Integral FNPT



Insulated Union / O-ring Seal FNPT



Insulated Union / Flat Gasket Seal FNPT



Non Insulated Union / Flat Gasket FNPT

Bypass Ball Valves

Meter Outlet / Bypass Ball Valves - 835 Series

FOR 835 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **835BAG** means:



BLOCK 1 - INLET TYPE

83 = Integral FNPT Inlet

BLOCK 2 - OUTLET TYPE

5 = Integral FNPT

BLOCK 3 - FINISH

B = Black cast iron finish
G = Zinc plated with Clear Sealant finish
H = Zinc plated Clear Sealant & paint
P = Painted finish

BLOCK 4 - TAP(S) LOCATION

A = Pos. A (Bypass)
B = Pos. B
C = Pos. C
D = Pos. A & B (A with 3/8" recessed head)
E = Pos. A & C (C with 3/8" recessed head)
F = Pos. A & C (A with 3/8" square head)

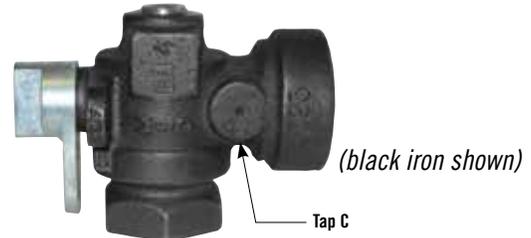
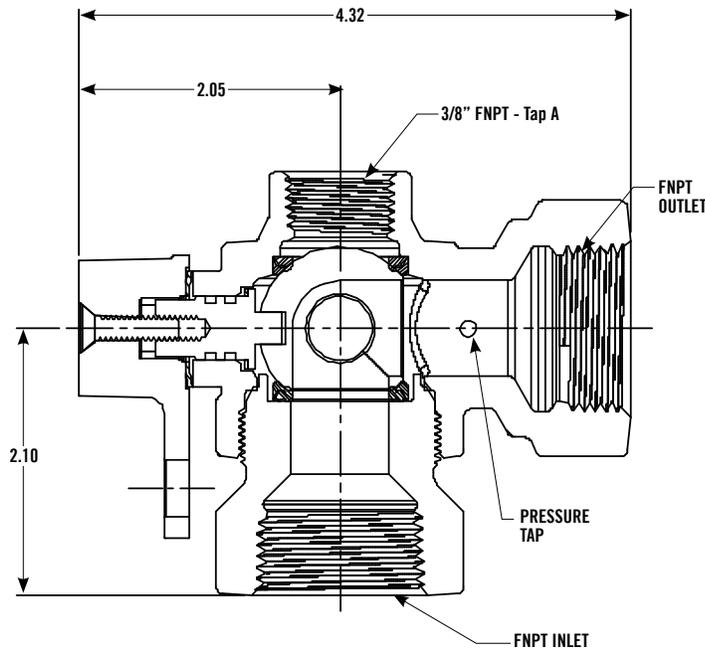
BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

Meter Outlet / Bypass Ball Valves - 835 Series

TAMPERPROOF, LOCKWING, BYPASS OPTION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



INTEGRAL FNPT x INTEGRAL FNPT

COATINGS AVAILABLE

- 835B** Black Iron
 - 835G** Zinc Coated w/Clear Sealant Finish Iron
 - 835N** Zinc Plated Clear Sealant /Painted Finish
 - 835P** Painted Finish
- Taps available on all the above product options.

DIMENSIONS

FNPT Inlet	Port Size	FNPT Outlet	Pressure Tap (optional)
3/4"	3/4"	3/4"	See Block 4 & 5
1"	1"*	1"	
1 1/4"	1 1/4"	1 1/4"	

* 1" is reducing port



NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 837 Series

FOR 837 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **837BAG** means:



BLOCK 1 - INLET TYPE

83 = Integral FNPT

BLOCK 2 - OUTLET TYPE

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

BLOCK 3 - FINISH

B = Black cast iron finish
 G = Zinc plated with Clear Sealant finish
 H = Zinc plated Clear Sealant & paint
 P = Painted finish

BLOCK 4 - TAP(S) LOCATION

A = Pos. A (Bypass)
 B = Pos. B
 C = Pos. C
 D = Pos. A & B (A with 3/8" recessed head)
 E = Pos. A & C (C with 3/8" recessed head)
 F = Pos. A & C (A with 3/8" square head)

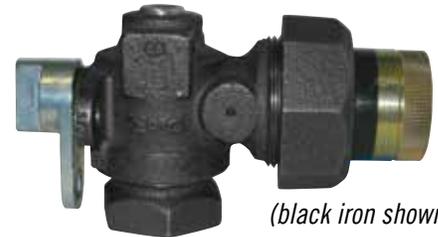
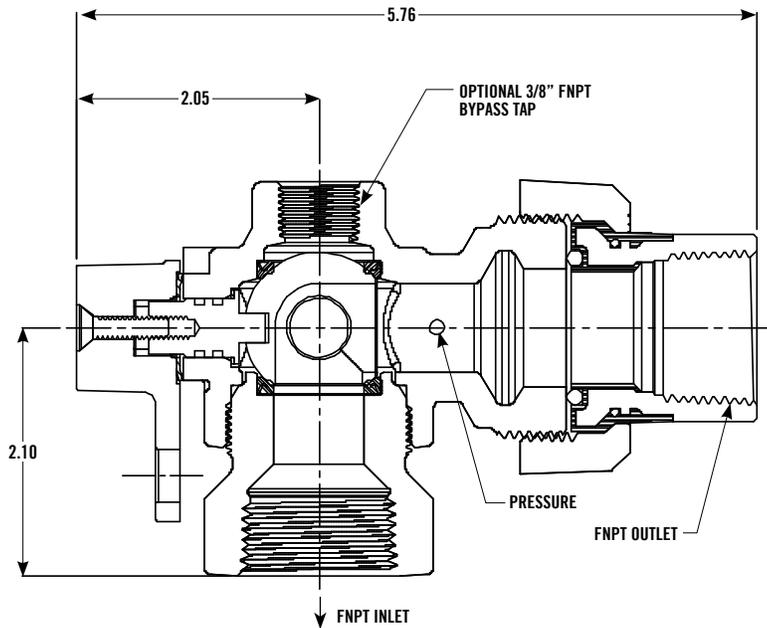
BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex head plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT - no plug
 D = 1/4" NPT recessed hex head plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT - no plug
 G = 3/8" NPT recessed hex head plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT - no plug
 K = 1/8" NPT square head plug (raised bosses)
 L = 1/8" NPT hex head (raised bosses)
 M = 1/8" NPT hex head plug
 N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

Meter Outlet / Bypass Ball Valves - 837 Series

TAMPERPROOF, LOCKWING, UNION, BYPASS OPTION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

Integral FNPT x Insulated Union with FNPT Tailpiece

COATINGS AVAILABLE

837B Black Iron

837G Zinc Coated w/Clear Sealant Finish Iron

837N Zinc Plated Clear Sealant /Painted Finish

837P Painted Finish

Taps available on all the above product options.

DIMENSIONS

FNPT Inlet	Port Size	FNPT Outlet	Pressure Tap (optional)
3/4"	3/4"	3/4"	See Block 4 & 5
1"	1"*	1"	
1 1/4"	1 1/4"	1 1/4"	

* 1" is reducing port



NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 855 Series

FOR 855 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **855B** means:



BLOCK 1 - INLET TYPE

85 = Meter Swivel Nut

BLOCK 2 - OUTLET TYPE

5 = Integral FNPT

BLOCK 3 - FINISH

B = Black cast iron finish
G = Zinc plated with Clear Sealant finish
H = Zinc plated Clear Sealant & paint
P = Painted finish

BLOCK 4 - TAP(S) LOCATION

A = Pos. A (Bypass)
B = Pos. B
C = Pos. C
D = Pos. A & B (A with 3/8" recessed head)
E = Pos. A & C (C with 3/8" recessed head)
F = Pos. A & C (A with 3/8" square head)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

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
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 - Only flat gasket

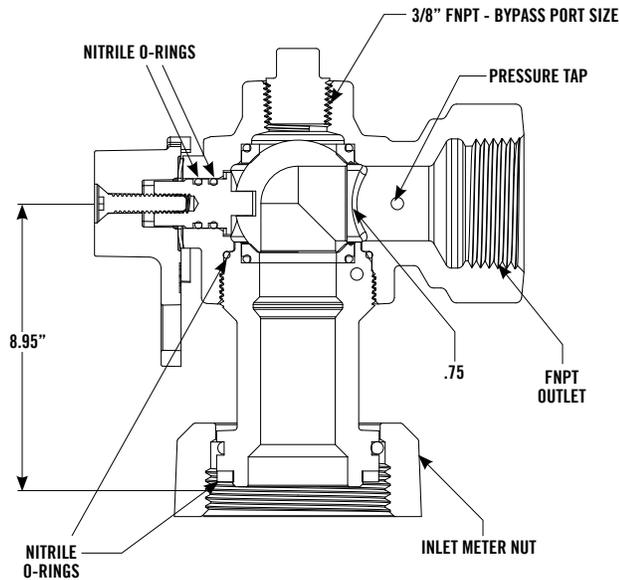
BLOCK 7 - SPECIAL

- = Standard swivels and nuts
G = Galvanized swivels and nuts
H = Galvanized nuts only
P = Zinc with yellow di-chromate plated nuts only
Q = Zinc with yellow di-chromate plated nuts only with swivel gaskets not attached

Meter Outlet / Bypass Ball Valves - 855 Series

TAMPERPROOF, LOCKWING, BYPASS OPTION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

Meter Swivel Nut x Integral FNPT

COATINGS AVAILABLE

855B Black Iron

855G Zinc Coated w/Clear Sealant Finish Iron

855N Zinc Plated Clear Sealant /Painted Finish

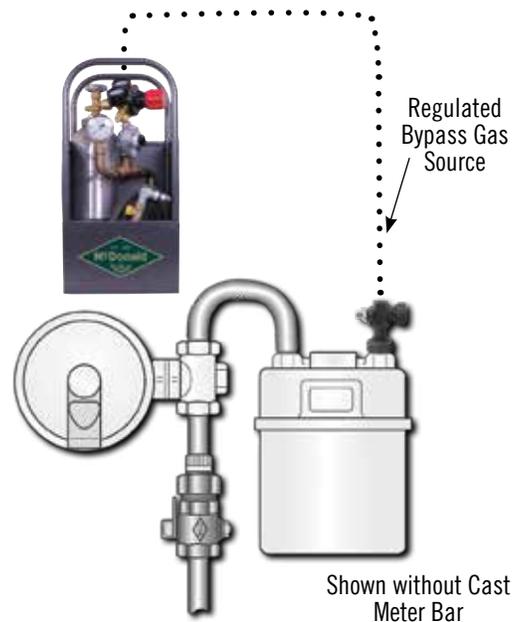
855P Painted Finish

Taps available on all the above product options.

DIMENSIONS

Port Size	FNPT Outlet	Swivel Size Nut	Pressure Tap (optional)
3/4"	3/4" or 1" *	10LT	See Block 4 & 5
3/4"	3/4" or 1" *	1A	
3/4"	3/4" or 1" *	OEM	
3/4"	3/4" or 1" *	20LT	
1 1/4"	1 1/4"*	30LT	
1 1/4"	1 1/4"	45LT	

* 1" is reducing port



NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 857 Series

FOR 857 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **857BAGAA-** means:



BLOCK 1 - INLET TYPE

85 = Meter Swivel Nut

BLOCK 2 - OUTLET TYPE

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

BLOCK 3 - FINISH

B = Black cast iron finish
 G = Zinc plated with Clear Sealant finish
 H = Zinc plated Clear Sealant & paint
 P = Painted finish

BLOCK 4 - TAP(S) LOCATION

A = Pos. A (Bypass)
 B = Pos. B
 C = Pos. C
 D = Pos. A & B (A with 3/8" recessed head)
 E = Pos. A & C (C with 3/8" recessed head)
 F = Pos. A & C (A with 3/8" square head)

BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex head plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT - no plug
 D = 1/4" NPT recessed hex head plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT - no plug
 G = 3/8" NPT recessed hex head plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT - no plug
 K = 1/8" NPT square head plug (raised bosses)
 L = 1/8" NPT hex head (raised bosses)
 M = 1/8" NPT hex head plug
 N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

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
 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 - Only flat gasket

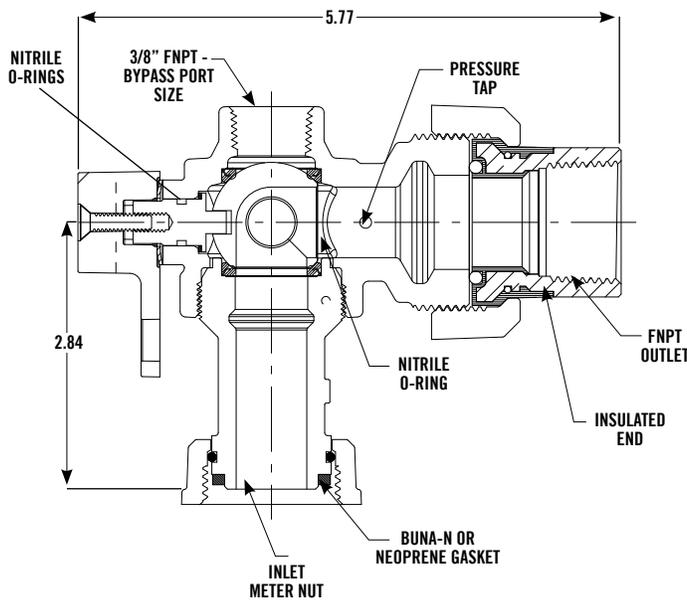
BLOCK 7 - SPECIAL

- = Standard swivels and nuts
 G = Galvanized swivels and nuts
 H = Galvanized nuts only
 P = Zinc with yellow di-chromate plated nuts only
 Q = Zinc with yellow di-chromate plated nuts only with swivel gaskets not attached

Meter Outlet / Bypass Ball Valves - 857 Series

TAMPERPROOF, LOCKWING, BYPASS OPTION, UNION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

Meter Swivel Nut x Insulated Union with FNPT Threads Tailpiece

COATINGS AVAILABLE

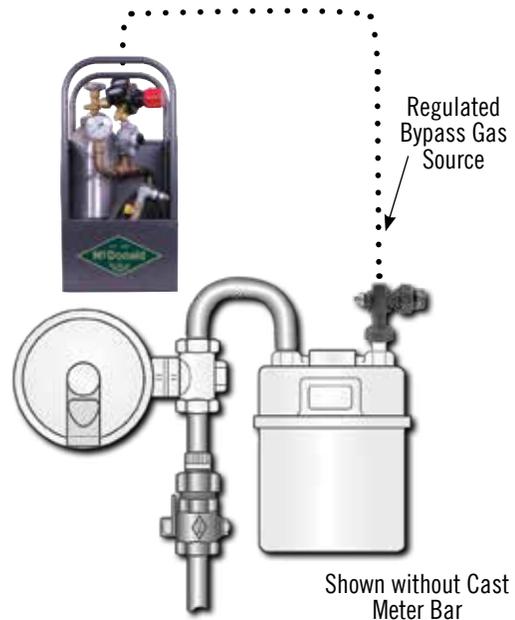
- 857B Black Iron
- 857G Zinc Coated w/Clear Sealant Finish Iron
- 857N Zinc Plated Clear Sealant /Painted Finish
- 857P Painted Finish

Taps available on all the above product options.

DIMENSIONS

Port Size	FNPT Outlet	Swivel Nut Size	Pressure Tap (optional)
3/4"	3/4" or 1" *	10LT	See Block 4 & 5
3/4"	3/4" or 1" *	1A	
3/4"	3/4" or 1" *	OEM	
3/4"	3/4" or 1" *	20LT	
1 1/4"	1 1/4"	30LT	
1 1/4"	1 1/4"	45LT	

* 1" is reducing port



NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 875 Series

FOR 875 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **875BAG** means:



BLOCK 1 - INLET TYPE

87 = Female Union Inlet

BLOCK 2 - OUTLET TYPE

5 = Integral FNPT

BLOCK 3 - FINISH

B = Black cast iron finish
 G = Zinc plated with Clear Sealant finish
 H = Zinc plated Clear Sealant & paint
 P = Painted finish

BLOCK 4 - TAP(S) LOCATION

A = Pos. A (Bypass)
 B = Pos. B
 C = Pos. C
 D = Pos. A & B (A with 3/8" recessed head)
 E = Pos. A & C (C with 3/8" recessed head)
 F = Pos. A & C (A with 3/8" square head)

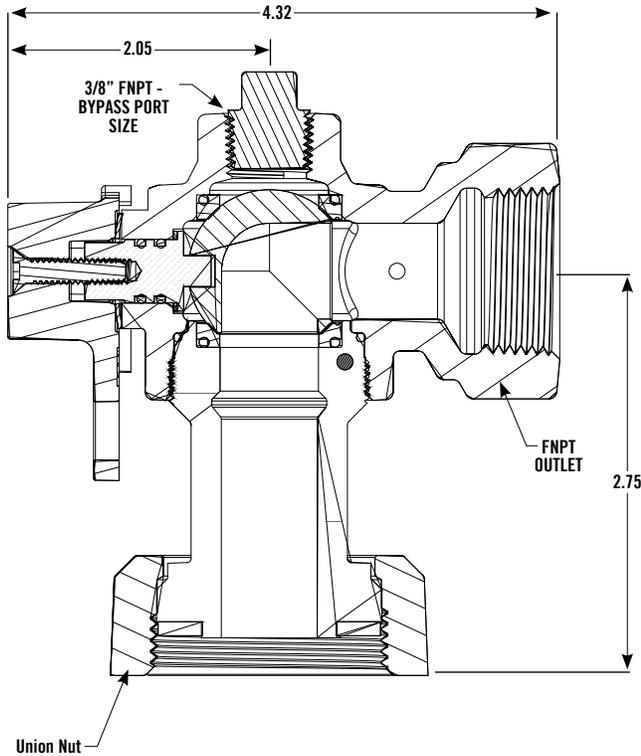
BLOCK 5 - TAP SIZE / PLUG TYPE

A = 1/8" NPT recessed hex head plug
 B = 1/8" NPT square head plug
 C = 1/8" NPT - no plug
 D = 1/4" NPT recessed hex head plug
 E = 1/4" NPT square head plug
 F = 1/4" NPT - no plug
 G = 3/8" NPT recessed hex head plug
 H = 3/8" NPT square head plug
 J = 3/8" NPT - no plug
 K = 1/8" NPT square head plug (raised bosses)
 L = 1/8" NPT hex head (raised bosses)
 M = 1/8" NPT hex head plug
 N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

Meter Outlet / Bypass Ball Valves - 875 Series

TAMPERPROOF, LOCKWING, BYPASS OPTION, UNION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



Female Union x Integral FNPT

COATINGS AVAILABLE

- 875B** Black Iron
 - 875G** Zinc Coated w/Clear Sealant Finish Iron
 - 875N** Zinc Plated Clear Sealant /Painted Finish
 - 875P** Painted Finish
- Taps available on all the above product options.

DIMENSIONS

Union Inlet	Port Size	FNPT Outlet	Pressure Tap (optional)
3/4"	3/4"	3/4"	See Block 4 & 5
1"	3/4"*	1"	
1 1/4"	1 1/4"	1 1/4"	

* 1" is reducing port



NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 877 Series

FOR 877 SERIES OUTLET ANGLE VALVES - BALL STYLE

A.Y. McDonald Mfg. Co. Gas 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 valves, and valves with built in swivels. Meter valves with swivels have two extra blocks before the size to select the size and type of swivels.

TO ORDER:

Example: Model number **877B** means:



BLOCK 1 - INLET TYPE

87 = Female Union Inlet

BLOCK 2 - OUTLET TYPE

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

BLOCK 3 - FINISH

- B** = Black cast iron finish
- G** = Zinc plated with Clear Sealant finish
- H** = Zinc plated Clear Sealant & paint
- P** = Painted finish

BLOCK 4 - TAP(S) LOCATION

- A** = Pos. A (Bypass)
- B** = Pos. B
- C** = Pos. C
- D** = Pos. A & B (A with 3/8" recessed head)
- E** = Pos. A & C (C with 3/8" recessed head)
- F** = Pos. A & C (A with 3/8" square head)

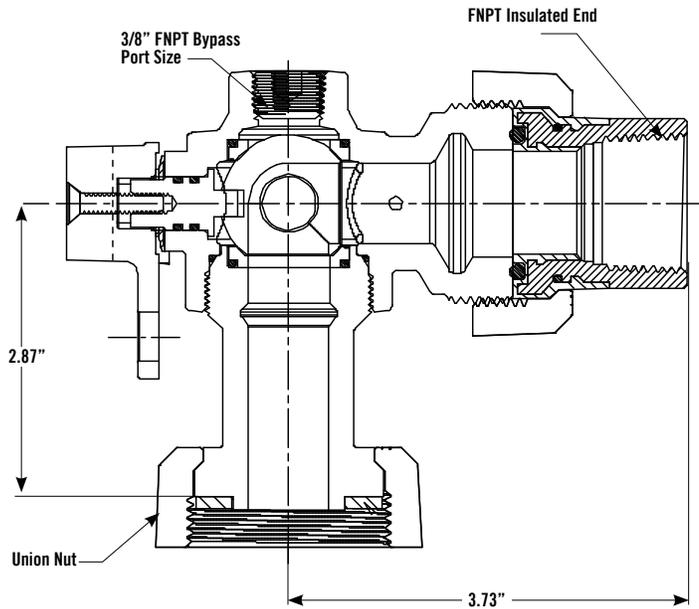
BLOCK 5 - TAP SIZE / PLUG TYPE

- A** = 1/8" NPT recessed hex head plug
- B** = 1/8" NPT square head plug
- C** = 1/8" NPT - no plug
- D** = 1/4" NPT recessed hex head plug
- E** = 1/4" NPT square head plug
- F** = 1/4" NPT - no plug
- G** = 3/8" NPT recessed hex head plug
- H** = 3/8" NPT square head plug
- J** = 3/8" NPT - no plug
- K** = 1/8" NPT square head plug (raised bosses)
- L** = 1/8" NPT hex head (raised bosses)
- M** = 1/8" NPT hex head plug
- N** = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

Meter Outlet / Bypass Ball Valves - 877 Series

TAMPERPROOF, LOCKWING, BYPASS OPTION, UNION

Can be assembled directly to the meter outlet, or used with a meter bar that provides a solid anchor to the meter set. This valve can be produced with or without a Bypass feature. These valves are designed for use with natural, manufactured and L.P. gas only.



(black iron shown)

Female Union x Insulated Union
with FNPT Threads Tailpiece

COATINGS AVAILABLE

- 877B** Black Iron
- 877G** Zinc Coated w/Clear Sealant Finish Iron
- 877N** Zinc Plated Clear Sealant /Painted Finish
- 877P** Painted Finish

Taps available on all the above product options.

DIMENSIONS

Union Inlet	Port Size	FNPT Outlet	Pressure Tap (optional)
3/4"	3/4"	3/4"	See Block 4 & 5
1"	3/4"*	1"	
1 1/4"	1 1/4"	1 1/4"	

* 1" is reducing port



Shown with Cast
Meter Bar

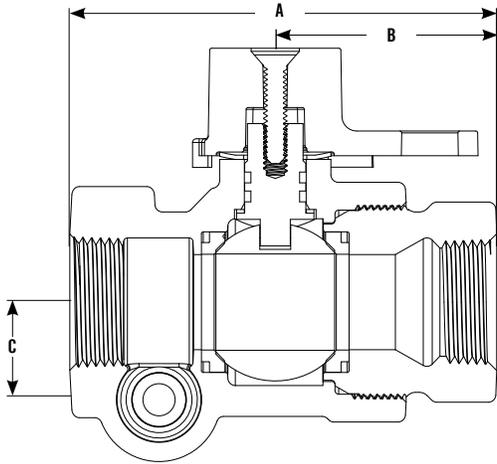
NOTES:

For external source of gas see Portable Bypass Kit on page 36

Meter Outlet / Bypass Ball Valves - 861 Series

TAMPERPROOF, 175 PSIG, LOCKWING, BYPASS OPTION, BRASS BALL FULL PORT

These valves are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Size	A	B	C	Weight
3/4"	3.45"	1.79"	.76"	1.8
1"	3.59"	1.91"	.96"	2.5



(black iron shown)

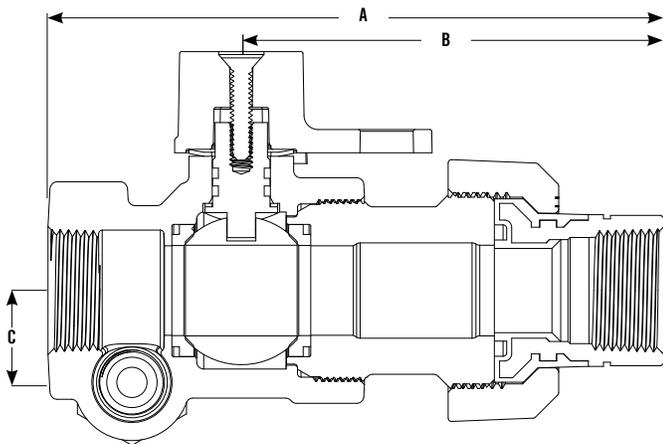
COATINGS AVAILABLE

- 861B Black Iron
- 861G Zinc Coated w/Clear Sealant Finish Iron
- 861N Zinc Plated Clear Sealant /Painted Finish
- 861P Painted Finish

Meter Outlet / Bypass Ball Valves - 8277 Series

TAMPERPROOF, 175 PSIG, LOCKWING, BYPASS OPTION, INSULATED UNION, BRASS BALL FULL PORT

These valves are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Size	A	B	C	Weight
3/4"	5.30"	3.64"	.79"	2.5
1"	5.82"	4.15"	.96"	3.4

COATINGS AVAILABLE

- 8277B Black Iron
- 8277G Zinc Coated w/Clear Sealant Finish Iron
- 8277N Zinc Plated Clear Sealant /Painted Finish
- 8277P Painted Finish



861KEY - Stainless Steel Inline Gas Ball Valve Key
A security key is required for bypass operation.
Contact factory.

Bypass Ball Valves



Portable Bypass Kits



Natural Gas Portable Bypass Kits

MORE THAN A BRAND. WE'RE A FAMILY.

Portable Bypass Kits

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, meter change out, regulator, riser valve, or sample testing. 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 optional adapter valve sizes of 1/4" or 3/8" and optional regulator sizes 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 size options 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
- Natural gas rated cylinder, hose, and adapters

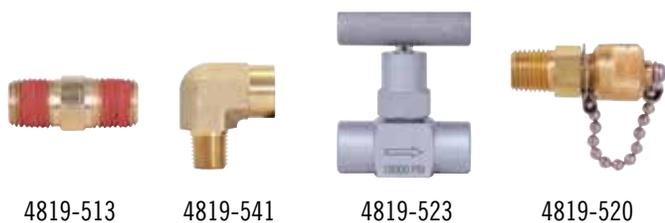


Portable Bypass Kits Available

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

Portable Bypass Kits



4819-513 4819-541 4819-523 4819-520



4819-004

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*
4819-541	Elbow 90° 1/4" MNPT x FNPT High Pressure Brass



4819-524 4819-526 4819-525



4819-006

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



4819-527 4819-531 4819-528 4819-520



4819-005

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



4819-521

Part #	Add On Parts
4819-521	Quick Thread Natural Gas Hose - 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



4819-073



4901-161



4819-518



4819-520



4819-522



4819-523



4819-541



4819-524



4819-525



4819-526



4819-527



4819-528



4819-529



4819-531

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
4422-073	2230 1/2" Tee
4901-161	10710Y 1/2" Gas Ball Valve CSA Yellow Handle

Part #	Replacement Parts
4819-518	Low Pressure Gauge 0-5 PSI
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)
4819-541	Elbow 90° 1/4" MNPT x FNPT High Pressure Brass



Cast Iron Meter Bars



Natural Gas Cast Iron Meter Bars

MORE THAN A BRAND. WE'RE A FAMILY.

Meter Bars

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

Gas Meter Bars without Integral Swivels

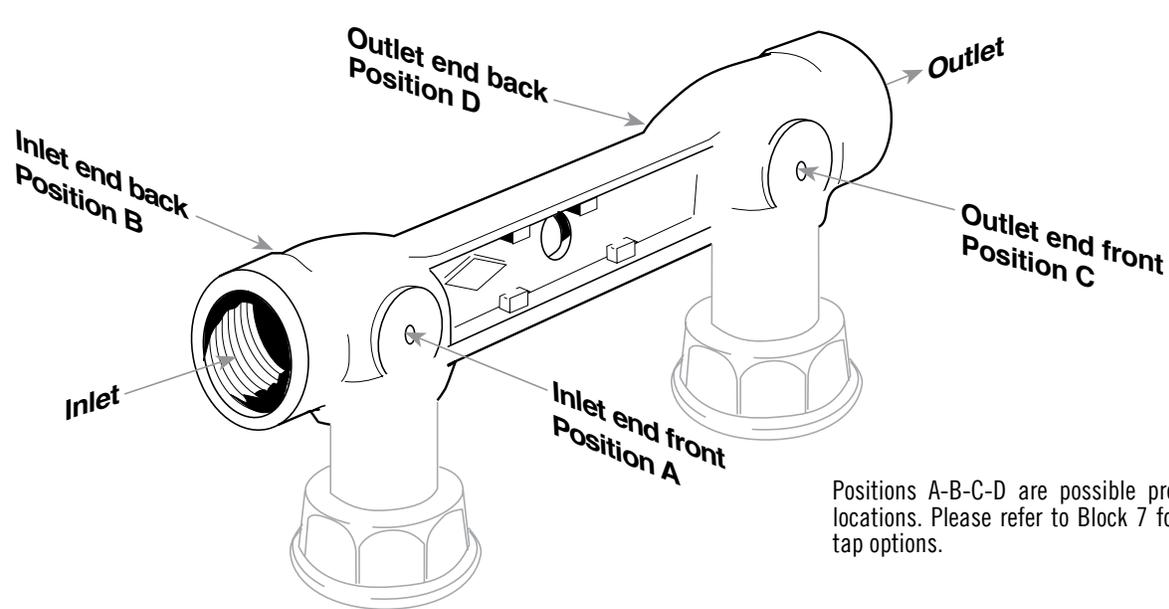
National Pipe Threads (NPT) are provided on the inlet, outlet, and bottom swivel taps. A. Y. McDonald meter bars can fit most requirements by using them with a combination of straight or offset meter swivels.

Gas Meter Bars with Integral Swivels

National Pipe Threads (NPT) 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 provided insulated to minimize electrolysis.

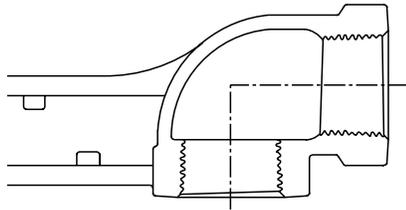
Note: These bars are intended for use with natural, manufactured and L.P. gas only.

Material Specifications

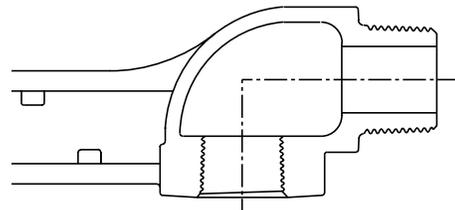
- METER BAR** - Cast iron per ASTM A126 Class B
- UNION NUT** - Malleable iron per ASTM A47 or Ductile iron per ASTM A536
- UNION TAILPIECES** - Zinc plated yellow dichromate finished steel
- INSULATED UNION TAILPIECES** - Super tough nylon 66 insulation
- FLAT GASKET/O-RINGS** - Buna-N or neoprene suitable for use with natural, manufactured and L.P. 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

- Meter bars are electronically leak tested or equivalent at a minimum of 60 PSIG.

Integral Outlets - Block 6



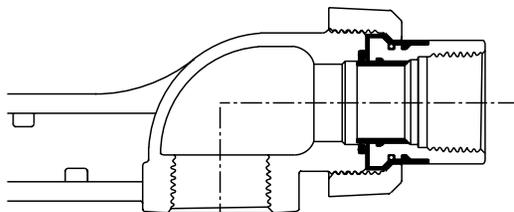
FNPT threads



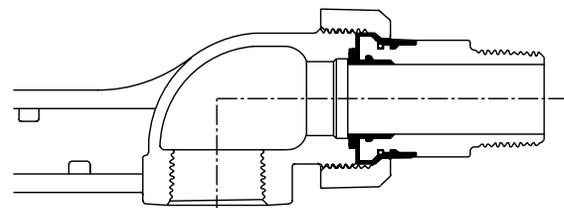
MNPT threads

Insulated Union Outlets - Block 6

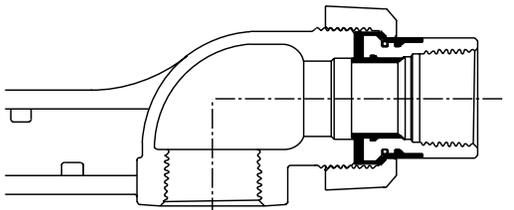
- Insulated tailpiece has second o-ring molded into the plastic to improve sealing without over-tightening the union nut.



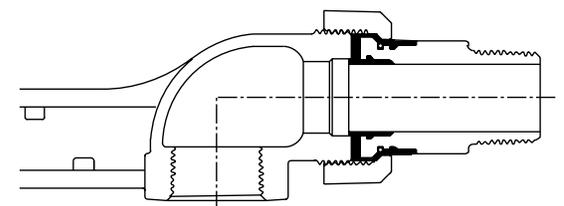
O-Ring seal/FNPT threads



O-Ring seal/MNPT threads

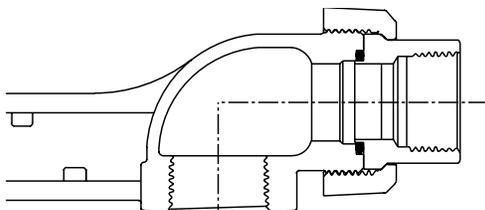


Flat gasket seal/FNPT threads

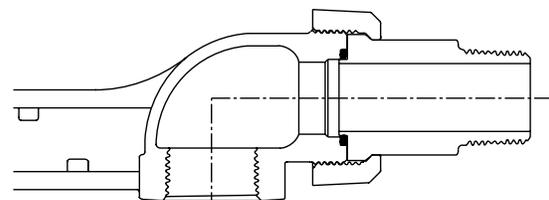


Flat gasket seal/MNPT threads

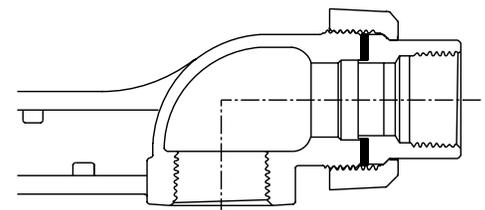
Non-Insulated Union Outlets - Block 6



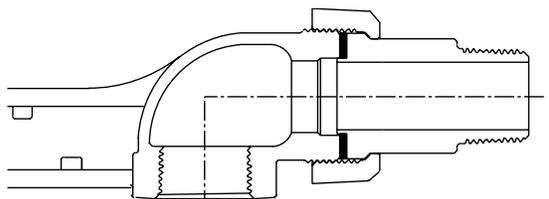
O-Ring seal/FNPT threads



O-Ring seal/MNPT threads



Flat gasket seal/FNPT threads



Flat gasket seal/MNPT threads

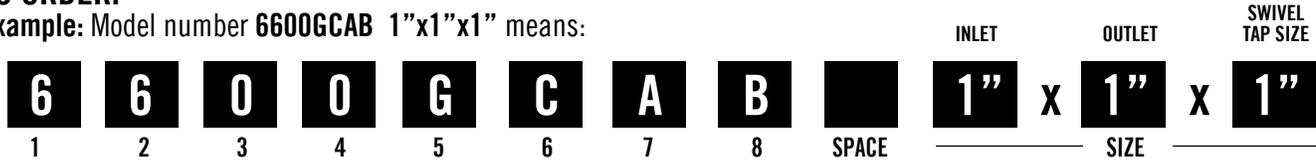
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6600GCAB 1"x1"x1"** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

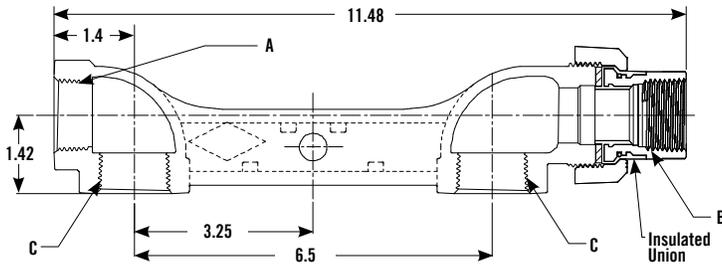
P = 1/4" NPT temperature/pressure plug

*For mixed combinations, contact factory.

Cast Iron Meter Bars - 6600 Series

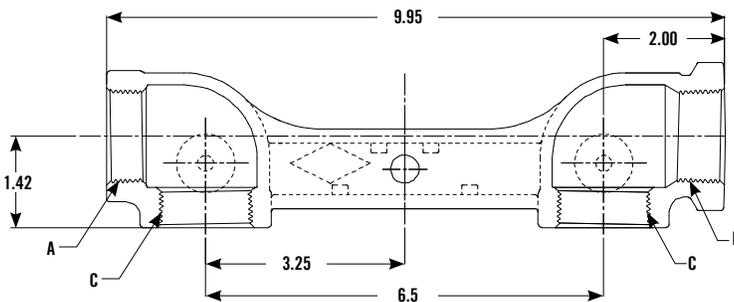
HORIZONTAL INLET & OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	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"



DIMENSIONS

Centerline	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"

COATINGS AVAILABLE

- 6600- Black Iron
 - 6600G Zinc Coated w/Clear Chromate Finish Iron
 - 6600P Paint Coated
 - 6600N Zinc & Painted
- Taps available on all the above product options.

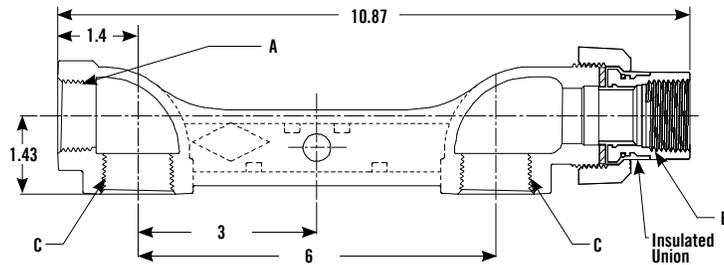
NOTE:

For side taps, add letters. See page 40 & 42.
 For other options, see page 42.
 All dimensions shown are for reference only.
 Contact factory if specific dimensional values or tolerances are required.
 These bars are intended for use with natural, manufactured and L.P. gas only.

Cast Iron Meter Bars - 6610 Series

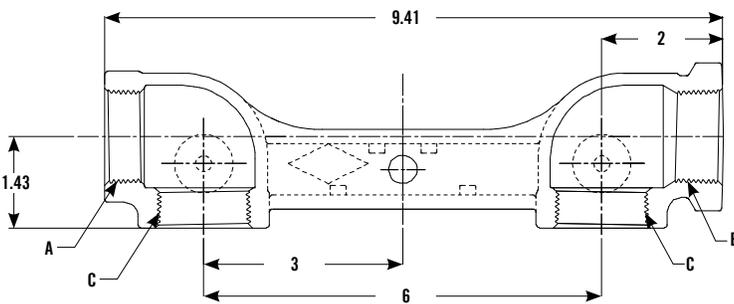
HORIZONTAL INLET & OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

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



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6"	3/4", 1" or 1 1/2"	3/4", 1" or 1 1/2"	3/4", 1" or 1 1/2"

COATINGS AVAILABLE

- 6610- Black Iron
 - 6610G Zinc Coated w/Clear Chromate Finish Iron
 - 6610P Paint Coated
 - 6610N Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 45.

For other options, see page 45.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

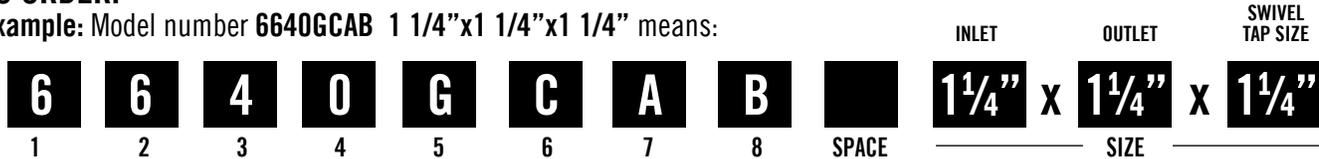
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6640GCAB** 1 1/4"x1 1/4"x1 1/4" means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

C = FNPT insulated O-ring union

H = MNPT insulated O-ring union

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE /TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

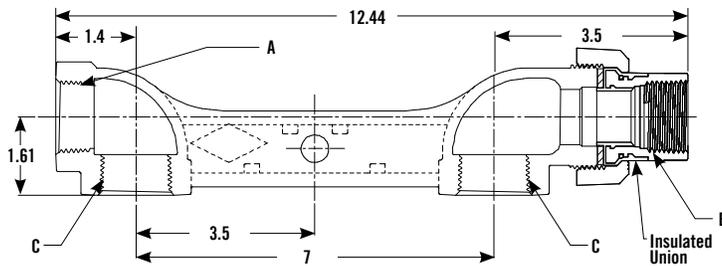
P = 1/4" NPT temperature/pressure plug

*For mixed combinations, contact factory.

Cast Iron Meter Bars - 6640 Series

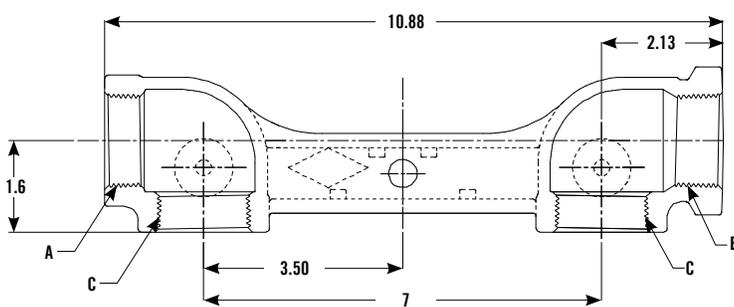
HORIZONTAL INLET & OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"

COATINGS AVAILABLE

- 6640- Black Iron
 - 6640G Zinc Coated w/Clear Chromate Finish Iron
 - 6640P Paint Coated
 - 6640N Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 46.

For other options, see page 46.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

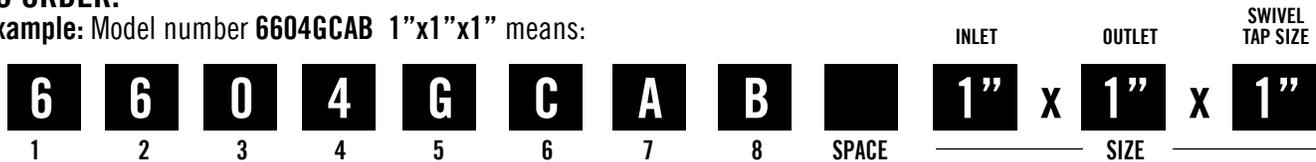
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6604GCAB 1"x1"x1"** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH / PACKAGING

– = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

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 integral 2OLT flat gasket

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(S) LOCATION

– = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

– = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

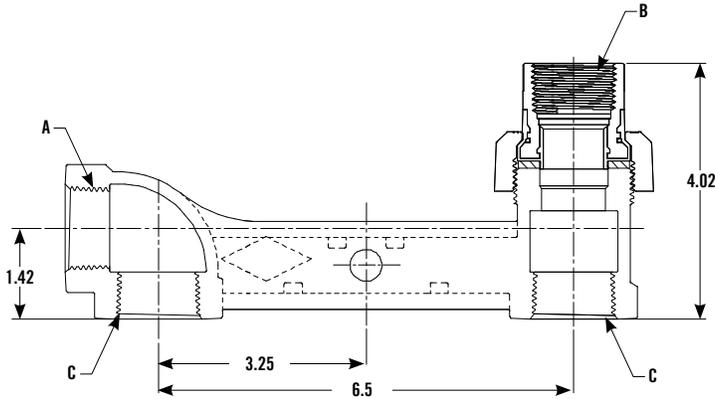
P = 1/4" NPT temperature/pressure plug

*For mixed combinations, contact factory.

Cast Iron Meter Bars - 6604 Series

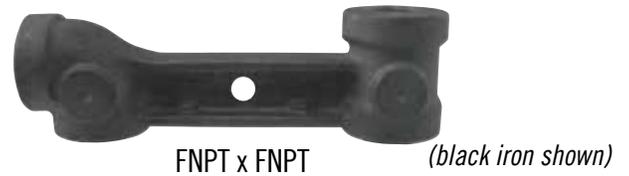
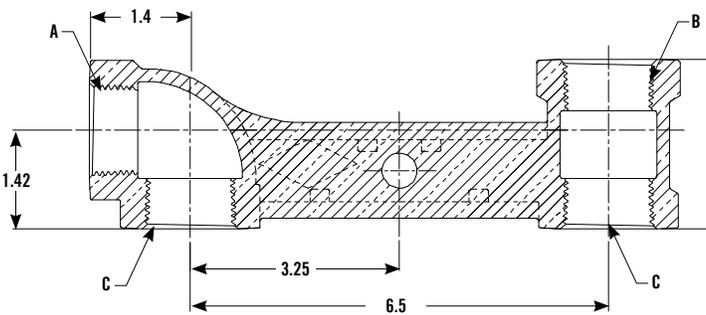
HORIZONTAL INLET & VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
6 1/2"	3/4" or 1"	3/4" or 1" Only 1" MNPT	3/4" or 1"



DIMENSIONS

Centerline	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"

COATINGS AVAILABLE

- 6604-** Black Iron
 - 6604G** Zinc Coated w/Clear Chromate Finish Iron
 - 6604P** Paint Coated
 - 6604N** Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 48.

For other options, see page 48.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

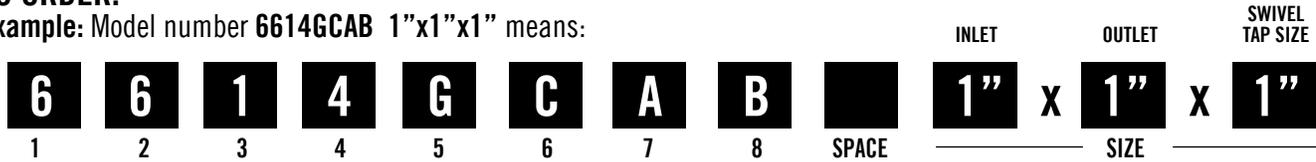
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6614GCAB 1"x1"x1"** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

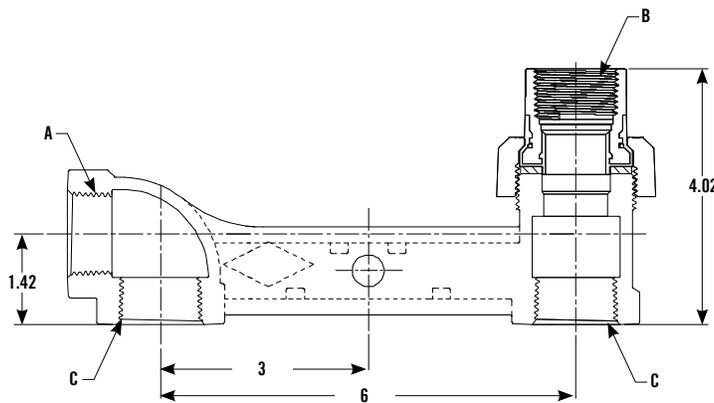
P = 1/4" NPT temperature/pressure plug

*For mixed combinations, contact factory.

Cast Iron Meter Bars - 6614 Series

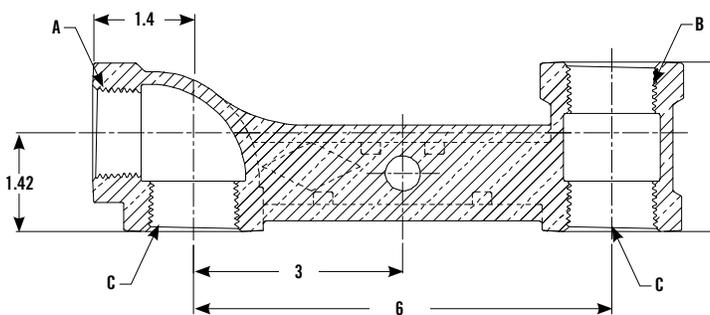
HORIZONTAL INLET & VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

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



DIMENSIONS

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

COATINGS AVAILABLE

- 6614-** Black Iron
 - 6614G** Zinc Coated w/Clear Chromate Finish Iron
 - 6614B** Paint Coated
 - 6614H** Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 50.

For other options, see page 50.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6644GCAB 1 1/4"x1 1/4"x1 1/4"** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

4 = Horizontal inlet by vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
- G = Zinc plated with Clear Sealant finish
- H = Zinc plated with Clear Sealant & paint
- P = Painted finish

BLOCK 6 - OUTLET END TYPE

- C = FNPT insulated O-ring union
- S = FNPT non-insulated O-ring union

BLOCK 7 - TAP(S) LOCATION

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

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

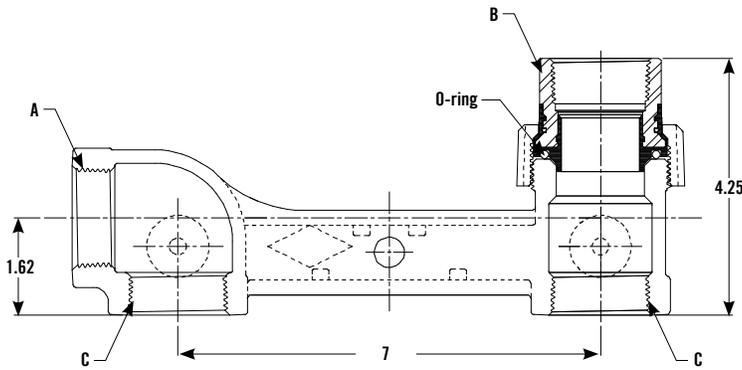
- = No tap
- A = 1/8" NPT recessed hex head plug
- B = 1/8" NPT square head plug
- C = 1/8" NPT - no plug
- D = 1/4" NPT recessed hex head plug
- E = 1/4" NPT square head plug
- F = 1/4" NPT - no plug
- G = 3/8" NPT recessed hex head plug
- H = 3/8" NPT square head plug
- J = 3/8" NPT - no plug
- K = 1/8" NPT square head plug (raised bosses)
- L = 1/8" NPT hex head (raised bosses)
- M = 1/8" NPT hex head plug
- N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
- P = 1/4" NPT temperature/pressure plug

*For mixed combinations, contact factory.

Cast Iron Meter Bars - 6644 Series

HORIZONTAL INLET & VERTICAL OUTLET, NO SWIVELS ATTACHED

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C FNPT Swivel Tap Size
7"	1 1/4"	1 1/4"	1 1/4"

COATINGS AVAILABLE

6644- Black Iron

6644G Zinc Coated w/Clear Chromate Finish Iron

6644B Paint Coated

6644H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 51.

For other options, see page 51.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

Cast Iron Meter Bars - 6684 Series

HORIZONTAL INLET & VERTICAL OUTLET, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

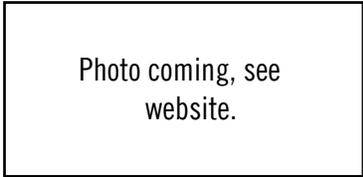
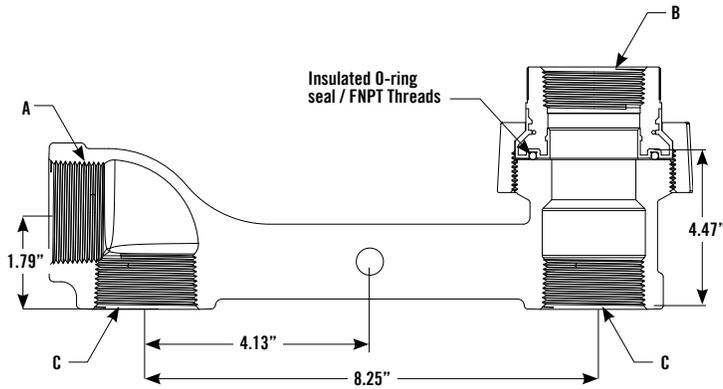


Photo coming, see website.

FNPT x FNPT Union

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	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"

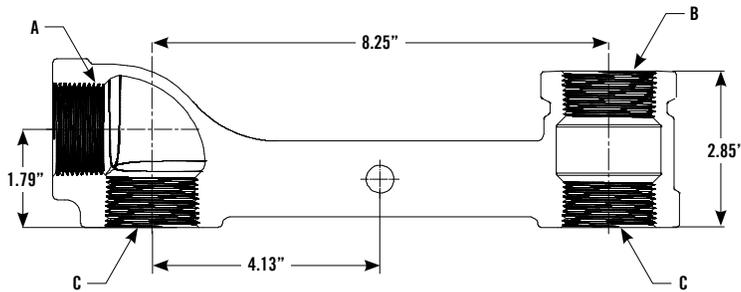


Photo coming, see website.

FNPT x FNPT

DIMENSIONS

Centerline	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"

COATINGS AVAILABLE

- 6684-** Black Iron
 - 6684G** Zinc Coated w/Clear Chromate Finish Iron
 - 6684P** Paint Coated
 - 6684H** Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 54.
For other options, see page 54.

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

These bars are intended for use with natural, manufactured and L.P. gas only.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6560GBAAB- 1"x1" 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with integral MNPT inlet

BLOCK 3 - METER BAR SPREAD

1 = 6" spread with cast integral

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END 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 integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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

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

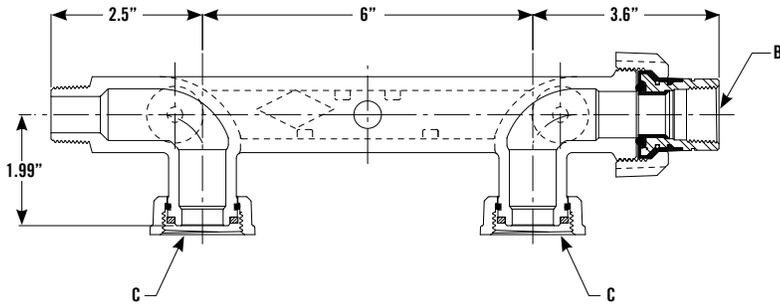
BLOCK 10 - SWIVEL SPECIAL

- = Standard swivel & nuts

Cast Iron Meter Bars with Cast Integral Swivels - 6560 Series

INTEGRAL MNPT INLET & OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

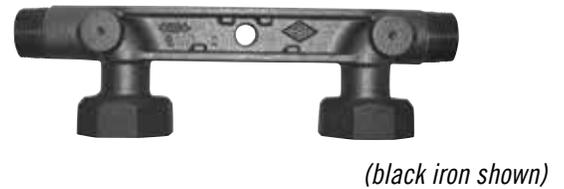
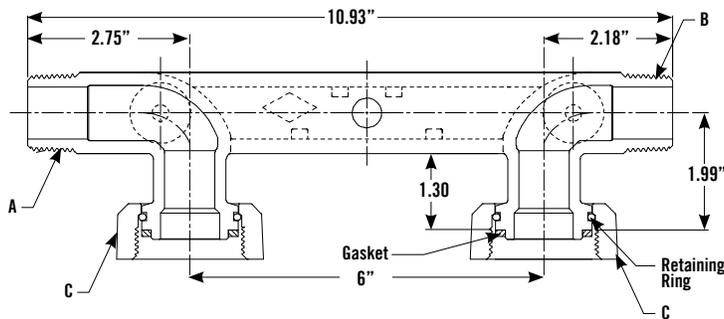


MNPT x FNPT Union

DIMENSIONS

Centerline	A MNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	1"	1"	10LT, 20LT, OEM, 1A

Cast Iron Meter Bars



MNPT x MNPT

DIMENSIONS

Centerline	A MNPT Inlet	B MNPT Outlet	C Swivel Nut Size
6"	1"	1"	10LT, 20LT, OEM, 1A

COATINGS AVAILABLE

- 6560**- Black Iron
 - 6560G** Zinc Coated w/Clear Chromate Finish Iron
 - 6560P** Paint Coated
 - 6560H** Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 56.

For other options, see page 56.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6570GBAAAB- 1"x1" 20LT** means:



BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with integral MNPT inlet

BLOCK 3 - METER BAR SPREAD

7 = 8 1/4" spread with integral

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END 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 integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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 & nuts

Typical Space - Saving Installation

FEATURES:

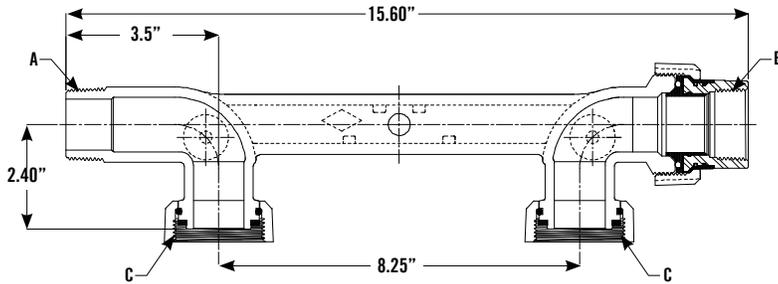
- **Strength** - Solid One Piece Cast Iron Construction
- **Accuracy** - Correct Meter Alignment Every Time
- **Time** - Ready to Install From Factory
- **Safety** - Fewer Leak Paths Connect Directly To Regulator
- **Space** - Compact Meter Sets
- Replaceable Meter Nuts



Cast Iron Meter Bars with Cast Integral Swivels - 6570 Series

INTEGRAL MNPT INLET & OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

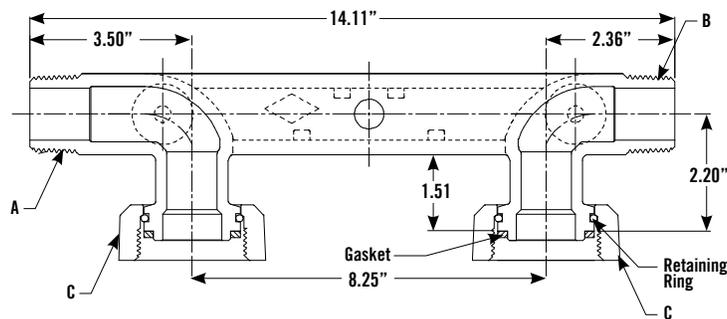


(black iron shown)

MNPT x FNPT Union

DIMENSIONS

Centerline	A MNPT Inlet	B FNPT Union	C Swivel Nut Size
8 1/4"	1"	1"	20LT
8 1/4"	1 1/4"	1 1/4"	30LT



(black iron shown)

MNPT x MNPT

DIMENSIONS

Centerline	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

COATINGS AVAILABLE

- 6570- Black Iron
 - 6570G Zinc Coated w/Clear Chromate Finish Iron
 - 6570P Paint Coated
 - 6570H Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 58.

For other options, see page 58.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6569GBAAAB- 1"x1" 20LT** means:



BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar with integral MNPT inlet

BLOCK 3 - METER BAR SPREAD

6 = 6" spread

BLOCK 4 - END CONFIGURATION / BAR TYPE

9 = Vertical elbow inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END 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 integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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

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 SPECIALS

- = Standard swivel & nuts

Typical Installation

FEATURES:

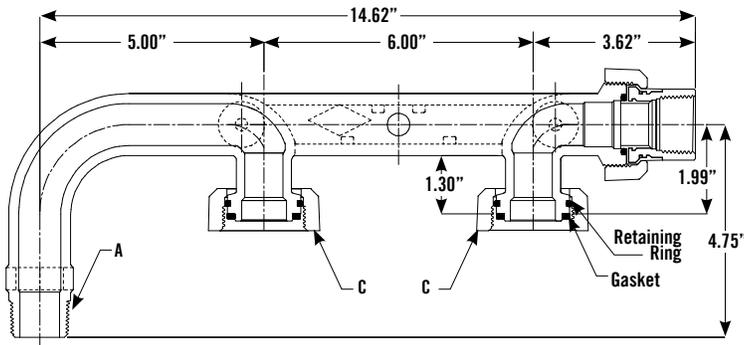
- **Strength** - Solid One Piece Cast Iron Construction
- **Accuracy** - Correct Meter Alignment Every Time
- **Time** - Ready to Install From Factory
- **Safety** - Fewer Leak Paths Connect Directly To Regulator
- **Space** - Compact Meter Sets
- Replaceable Meter Nuts



Cast Iron Meter Bars with Cast Integral Swivels - 6569 Series

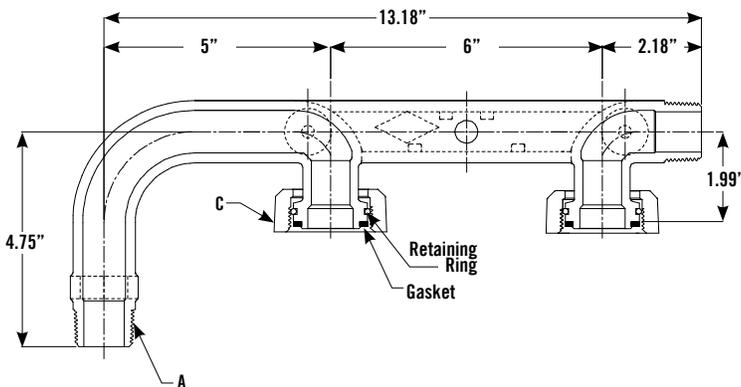
INTEGRAL MNPT INLET & OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	A MNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4", 1"	3/4", 1"	10LT, 1A, 20LT



DIMENSIONS

Centerline	A MNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4", 1"	3/4", 1"	10LT, 1A, 20LT

COATINGS AVAILABLE

6569- Black Iron

6569G Zinc Coated w/Clear Chromate Finish Iron

6569B Paint Coated

6569H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 60.

For other options, see page 60.

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

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.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6660GBAAB- 1"x1" 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with cast integral

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

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

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure plug

BLOCK 9 - SWIVEL SIZE & TYPE

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

C = 20LTO - 20 Light swivel with o-ring

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

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

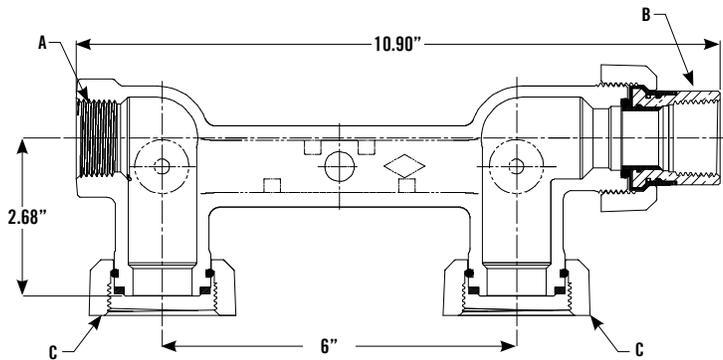
BLOCK 10 - SWIVEL SPECIALS

- = Standard swivel & nuts

Cast Iron Meter Bars with Cast Integral Swivels - 6660 Series

HORIZONTAL INLET & OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

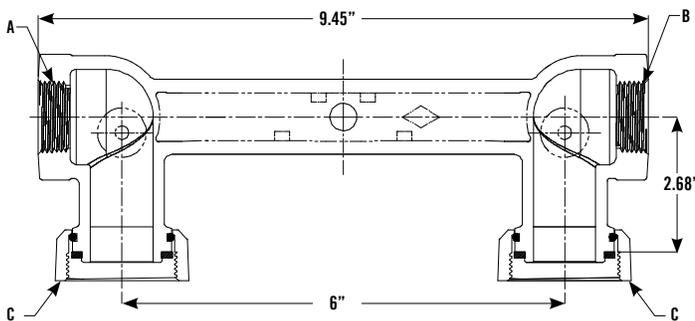


(black iron shown)

FNPT x FNPT Union

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4", 1"	3/4", 1"	20LT or 30LT



(black iron shown)

FNPT x FNPT

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Outlet	C Swivel Nut Size
6"	3/4", 1"	3/4", 1"	20LT or 30LT

COATINGS AVAILABLE

6660- Black Iron

6660G Zinc Coated w/Clear Chromate Finish Iron

6660P Paint Coated

6660H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 62.

For other options, see page 62.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6670GBAAB- 1"x1" 20LT** means:



BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

6 = Standard meter bar

BLOCK 3 - METER BAR SPREAD

7 = 8 1/4" spread with integral

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

C = FNPT insulated O-ring union

H = MNPT insulated O-ring union

S = FNPT non-insulated O-ring union

BLOCK 7 - TAP(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure plug

BLOCK 9 - SWIVEL SIZE & TYPE

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

C = 20LTO - 20 Light swivel with o-ring

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

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

BLOCK 10 - SWIVEL SPECIALS

- = Standard swivel & nuts

D = Brass nuts & standard swivels

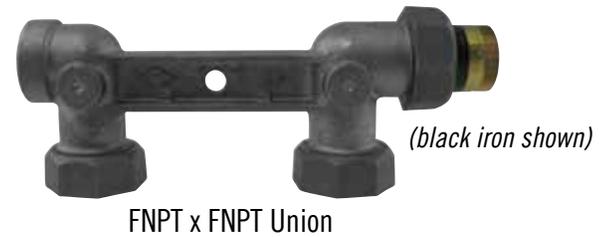
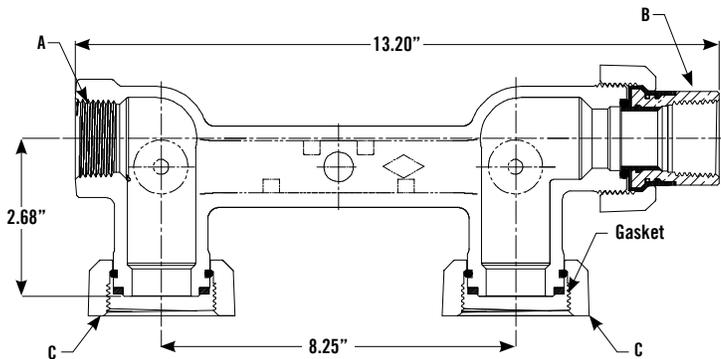
H = Galvanized nuts only

P = Zinc with yellow di-chromate plated nuts only

Cast Iron Meter Bars with Cast Integral Swivels - 6670 Series

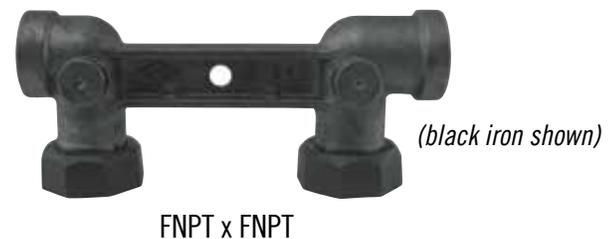
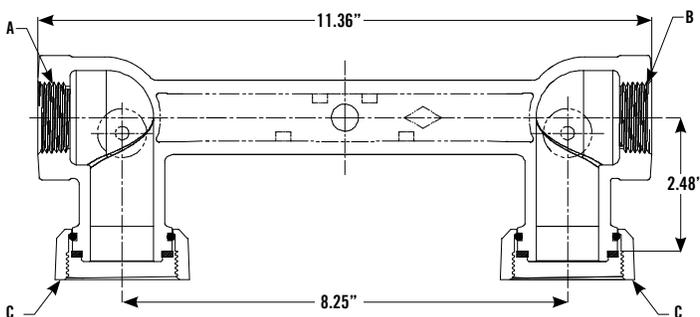
HORIZONTAL INLET & OUTLET, CAST INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
8 1/4"	1" or 1 1/4"	1 1/4"	20LT or 30LT



DIMENSIONS

Centerline	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

COATINGS AVAILABLE

- 6670- Black Iron
 - 6670G Zinc Coated w/Clear Chromate Finish Iron
 - 6670P Paint Coated
 - 6670H Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 64.
 For other options, see page 64.
 All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6620GBAAAB- 1"x1" 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

0 = Horizontal inlet by horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant finish

H = Zinc plated with Clear Sealant & paint

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

C = FNPT insulated O-ring union

F = FNPT insulated flat gasket union

M = MNPT integral

S = FNPT non-insulated O-ring union

U = FNPT non-insulated flat gasket union

BLOCK 7 - TAP(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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

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

BLOCK 10 - SWIVEL SPECIALS

- = Standard swivel & nuts

A = Swivel gaskets or O-rings assembled with tie wrap

B = Brass swivels and standard nuts

D = Brass nuts & standard swivels

G = Galvanized swivels and nuts

H = Galvanized nuts only

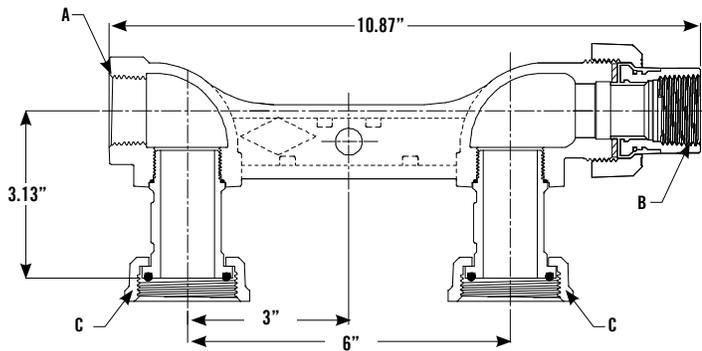
P = Zinc with yellow di-chromate plated nuts only

Q = Zinc with yellow di-chromate plated nuts only with swivel gaskets not attached to the bar

Cast Iron Meter Bars with Integral Swivels - 6620 Series

HORIZONTAL INLET & OUTLET, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

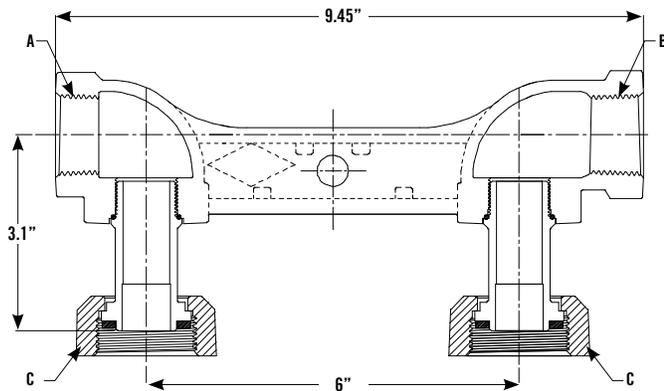


(black iron shown)

FNPT x FNPT Union

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 1A, 20LT, or OEM



(black iron shown)

FNPT x FNPT

DIMENSIONS

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

COATINGS AVAILABLE

6620- Black Iron

6620G Zinc Coated w/Clear Chromate Finish Iron

6620P Paint Coated

6620H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 66.

For other options, see page 66.

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

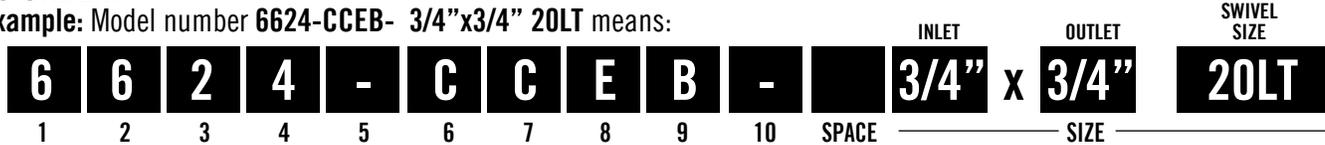
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6624-CCEB- 3/4"x3/4" 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 / BAR TYPE

4 = Horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant

H = Zinc plated with Clear Sealant & Painted

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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

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

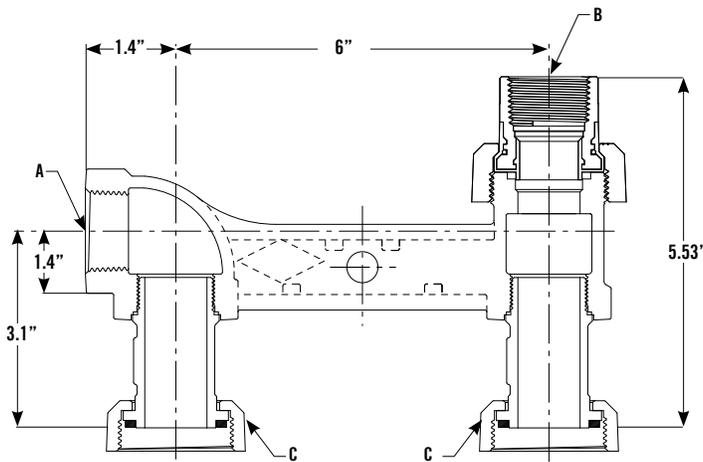
BLOCK 10 - SWIVEL SPECIALS

- = Standard swivel & nuts

Cast Iron Meter Bars with Integral Swivels - 6624 Series

HORIZONTAL INLET & VERTICAL OUTLET, INTEGRAL SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

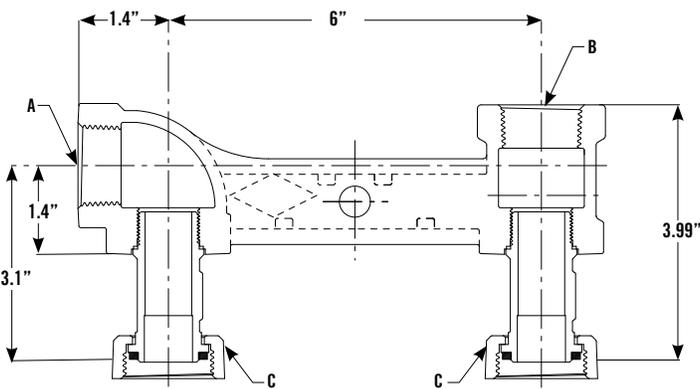


(black iron shown)

FNPT x FNPT Union

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	10LT, 1A, 20LT, or OEM



(black iron shown)

FNPT x FNPT

DIMENSIONS

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

COATINGS AVAILABLE

- 6624- Black Iron
- 6624G Zinc Coated w/Clear Chromate Finish Iron
- 6624P Paint Coated
- 6624H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 68.

For other options, see page 68.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6564-CCEB- 1"x 1" 20LT** means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

5 = Standard meter bar w/Integral MNPT inlet

BLOCK 3 - METER BAR SPREAD

6 = 6" spread with integral cast meter swivels

BLOCK 4 - END CONFIGURATION / BAR TYPE

4 = Horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish

G = Zinc plated with Clear Sealant

H = Zinc plated with Clear Sealant & Painted

P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral

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(S) LOCATION

- = No tap

A = Pos. A

B = Pos. B

C = Pos. C

D = Pos. D

E = Pos. A & B

H = Pos. A & C

J = Pos. A & D

K = Pos. B & C

L = Pos. B & D

N = Pos. C & D

Q = Pos. A, B & C

R = Pos. A, B & D

T = Pos. A, C & D

W = Pos. B, C & D

X = Pos. A, B, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap

A = 1/8" NPT recessed hex head plug

B = 1/8" NPT square head plug

C = 1/8" NPT - no plug

D = 1/4" NPT recessed hex head plug

E = 1/4" NPT square head plug

F = 1/4" NPT - no plug

G = 3/8" NPT recessed hex head plug

H = 3/8" NPT square head plug

J = 3/8" NPT - no plug

K = 1/8" NPT square head plug (raised bosses)

L = 1/8" NPT hex head (raised bosses)

M = 1/8" NPT hex head plug

N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet

P = 1/4" NPT temperature/pressure 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

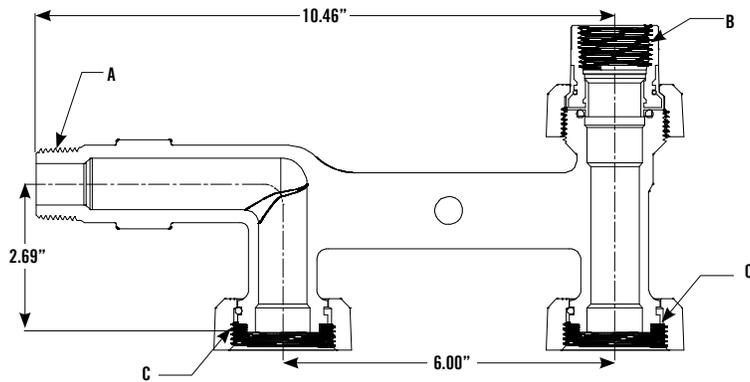
BLOCK 10 - SWIVEL SPECIALS

- = Standard swivel & nuts

Cast Iron Meter Bars with Integral Swivels - 6564 Series

HORIZONTAL INLET & VERTICAL OUTLET, INTEGRAL SWIVELS

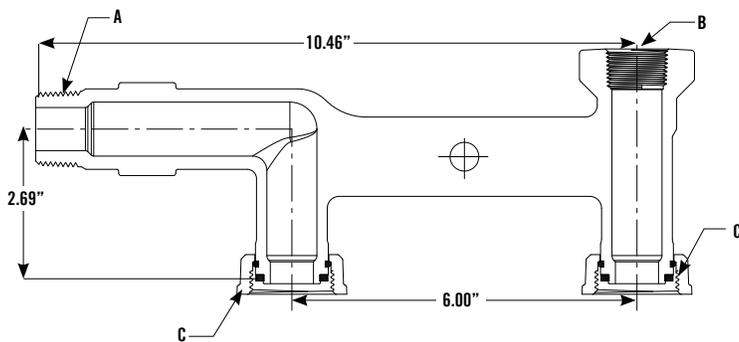
These bars are designed for use with natural, manufactured and L.P. gas only.



MNPT x FNPT Union

DIMENSIONS

Centerline	A MNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	1"	3/4" or 1"	10LT, 20LT



MNPT x FNPT

DIMENSIONS

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

COATINGS AVAILABLE

- 6564- Black Iron
 - 6564G Zinc Coated w/Clear Chromate Finish Iron
 - 6564P Paint Coated
 - 6564H Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 70.

For other options, see page 70.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6814-FAB 1"x1"x1" means:



BLOCK 1 - INLET TYPE

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 (no swivel)

BLOCK 4 - END CONFIGURATION / BAR TYPE

4 = Horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral
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(S) LOCATION

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

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

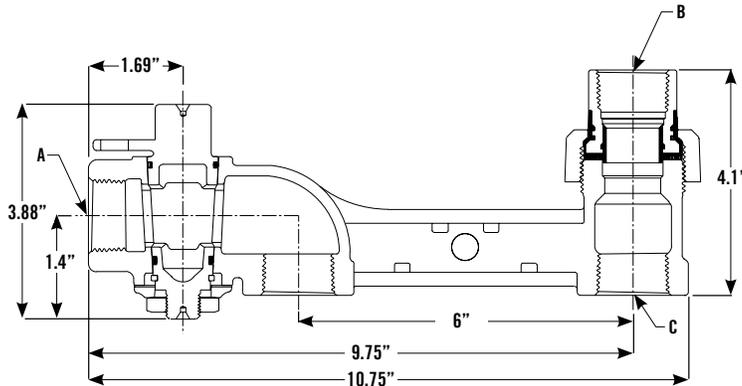
- = No tap
A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
P = 1/4" NPT temperature/pressure plug

BLOCK 9 - BLANK

Cast Iron Meter Bars with Integral Valve - 6814 Series

HORIZONTAL INLET WITH INTEGRAL 1" VALVE & VERTICAL OUTLET - 2 PSIG, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

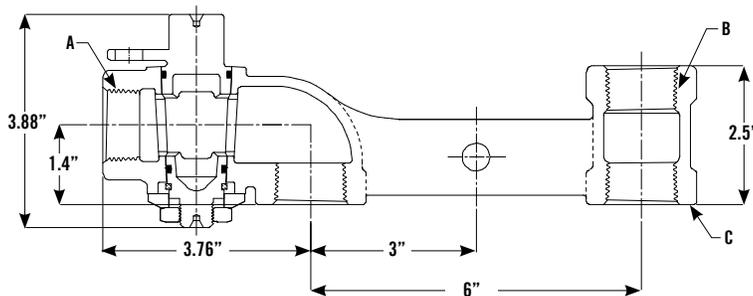


FNPT x FNPT Union

(black iron shown)

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"



FNPT x FNPT

(black iron shown)

DIMENSIONS

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

COATINGS AVAILABLE

6814- Black Iron

6814G Zinc Coated w/Clear Chromate Finish Iron

6814P Paint Coated

6814H Zinc & Painted

Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 72.

For other options, see page 72.

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

Using 1" x 3/4" tailpiece with special model number. Contact factory.

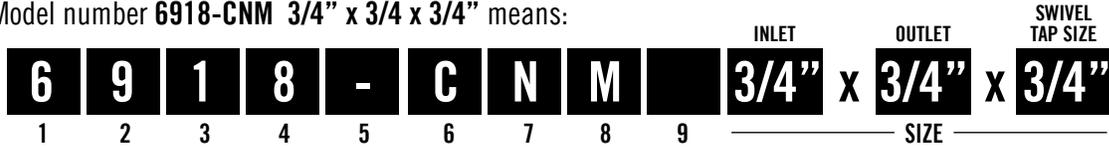
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6918-CNM 3/4" x 3/4" x 3/4" means:



BLOCK 1 - INLET TYPE

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 (no swivel)

BLOCK 4 - END CONFIGURATION / BAR TYPE

8 = Vertical inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

BLOCK 6 - OUTLET END TYPE

B = FNPT integral
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(S) LOCATION

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

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

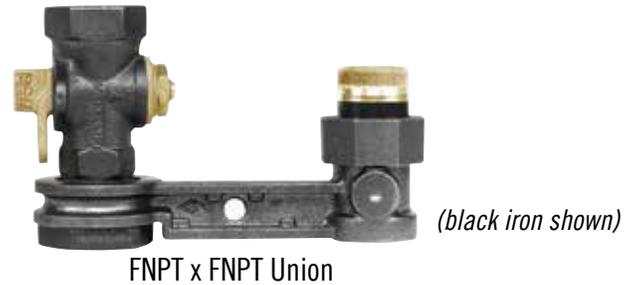
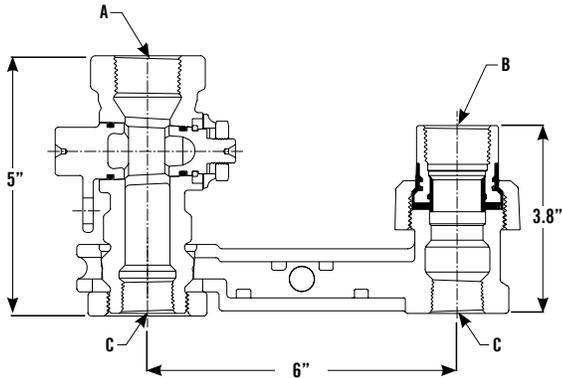
- = No tap
A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
P = 1/4" NPT temperature/pressure plug

BLOCK 9 - BLANK

Cast Iron Meter Bars with Integral Valve - 6918 Series

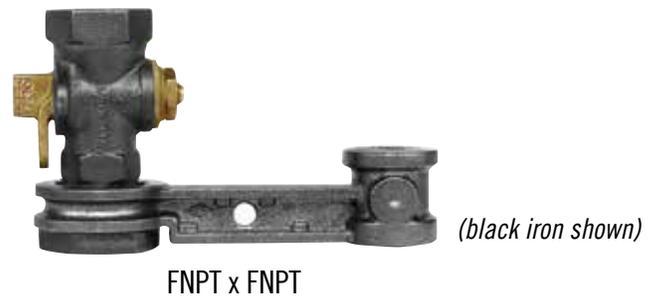
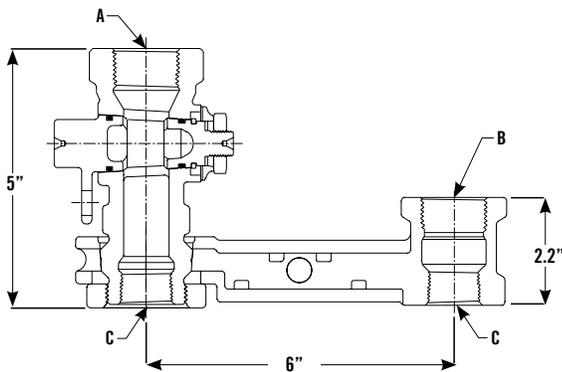
VERTICAL INLET WITH 3/4" SLEEVED UNION VALVE & VERTICAL OUTLET - 2 PSIG, NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.



DIMENSIONS

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



DIMENSIONS

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

COATINGS AVAILABLE

- 6918- Black Iron
 - 6814G Zinc Coated w/Clear Chromate Finish Iron
 - 6814P Paint Coated
 - 6814H Zinc & Painted
- Taps available on all the above product options.

NOTE:

For side taps, add letters. See page 40 & 74.

For other options, see page 74.

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

Using 1" x 3/4" tailpiece with special model number. Contact factory.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6722-EJEC- 1"x1" 20LTO means:



BLOCK 1 - INLET TYPE

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 (Integral threaded Meter Swivels)

BLOCK 4 - END CONFIGURATION / BAR TYPE

2 = Rear center horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

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(S) LOCATION

- = No tap
A = Pos. A
C = Pos. C
D = Pos. D
H = Pos. A & C
J = Pos. A & D
N = Pos. C & D
T = Pos. A, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

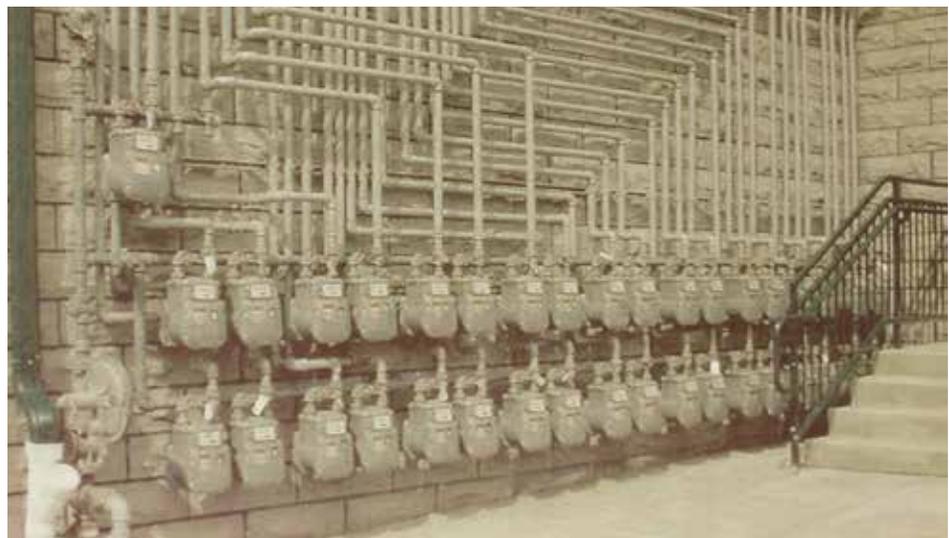
- = No tap
A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
P = 1/4" NPT temperature/pressure 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
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

Typical Installation

MULTIPLE METER MANIFOLDS

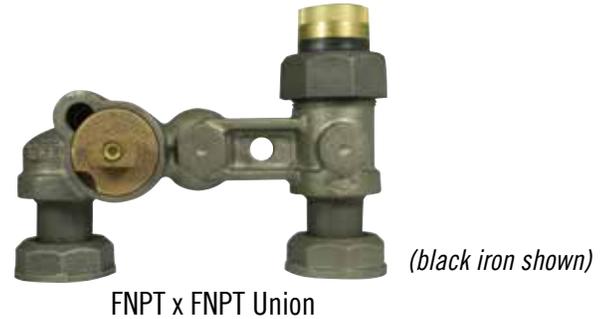
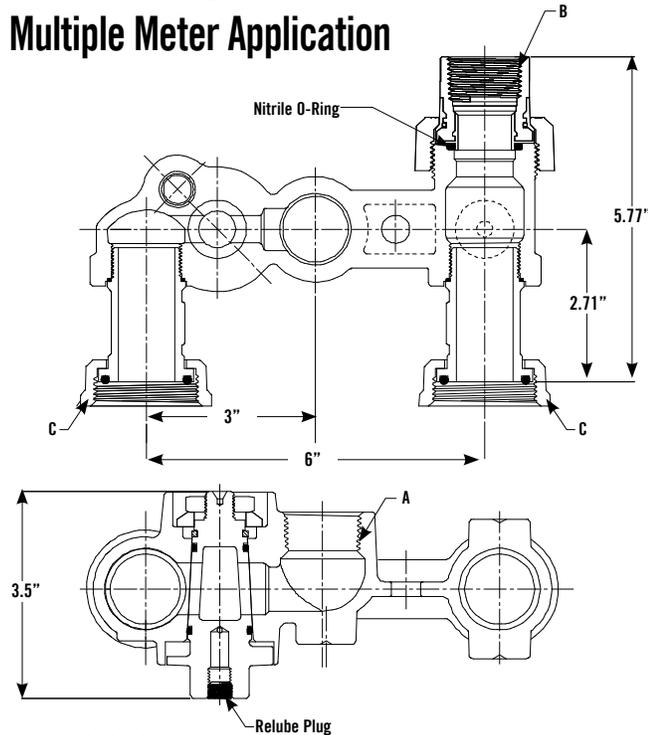


Cast Iron Meter Bars with Integral Valve - 6722 Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET - 2 PSIG

These bars are designed for use with natural, manufactured and L.P. gas only. For CMMC multiple meter manifold applications

Multiple Meter Application



COATINGS AVAILABLE

- 6722- Black Iron
 - 6722G Zinc Coated w/Clear Chromate Finish Iron
 - 6722P Paint Coated
 - 6722H Zinc & Painted
- Taps available on all the above product options.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	1A, 10LT, 20LT, 30LT, OEM

*3/4" outlet obtained with reducing endpiece

High security lock design integral valve

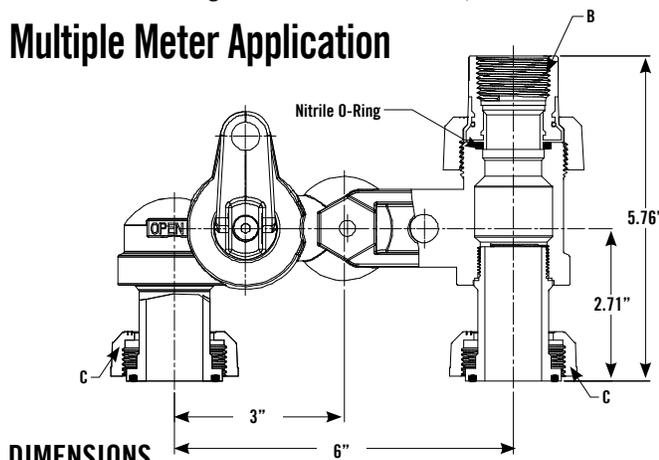
With Relube Valve - This A.Y. McDonald Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or un-pressurized. See page 14.

Cast Iron Meter Bars with Integral Valve - 6722L Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET WITH LOCKWING - 2 PSIG

These bars are designed for use with natural, manufactured and L.P. gas only. For CMMC multiple meter manifold applications

Multiple Meter Application



COATINGS AVAILABLE

- 6722L- Black Iron
 - 6722LG Zinc Coated w/Clear Chromate Finish Iron
 - 6722LP Paint Coated
 - 6722LH Zinc & Painted
- Taps available on all the above product options.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	1A, 10LT, 20LT, 30LT, OEM

*3/4" outlet obtained with reducing endpiece

NOTE: For side taps, add letters. See page 40 & 76. For other options, see page 76. All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

Cast Iron Meter Bars

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6762-CCEB- 1"x1" 20LT means:



Cast Iron Meter Bars

BLOCK 1 - INLET TYPE

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 (Integral Cast Meter Swivels)

BLOCK 4 - END CONFIGURATION / BAR TYPE

2 = Rear center horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

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(S) LOCATION

- = No tap
A = Pos. A
C = Pos. C
D = Pos. D
H = Pos. A & C
J = Pos. A & D
N = Pos. C & D
T = Pos. A, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap
A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
P = 1/4" NPT temperature/pressure plug

BLOCK 9 - SWIVEL SIZE / TYPE

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

BLOCK 10 - SWIVEL SPECIALS

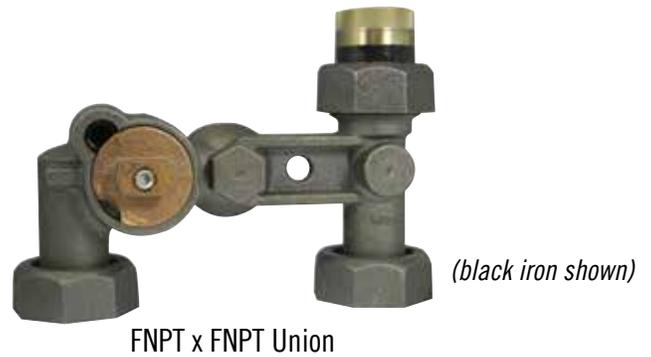
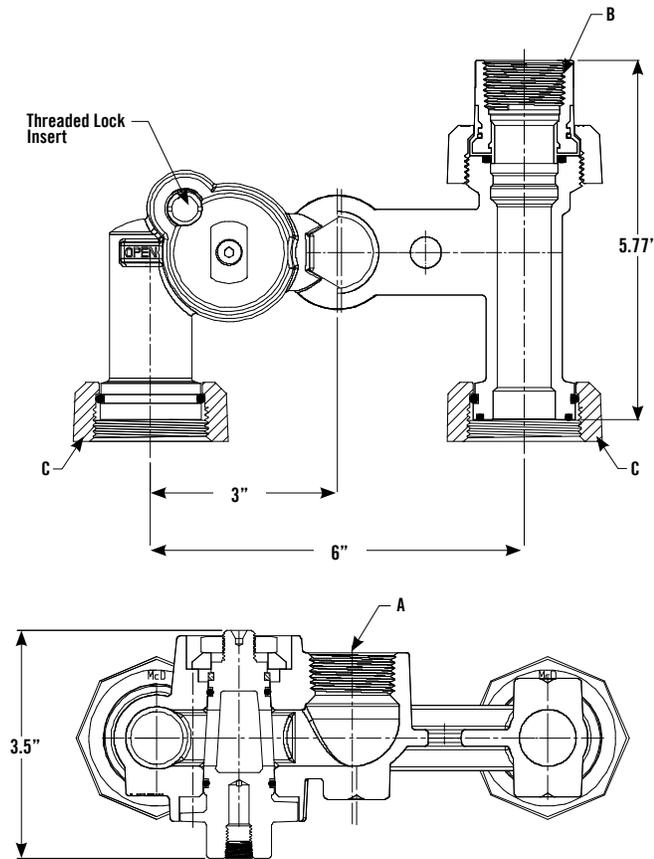
- = Standard Swivels & Nuts

Cast Iron Meter Bars with Integral Valve - 6762 Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET

These bars are designed for use with natural, manufactured and L.P. gas only. For CMMC multiple meter manifold applications

Multiple Meter Application



COATINGS AVAILABLE

6762- Black Iron

6762G Zinc Coated w/Clear Chromate Finish Iron

6762P Paint Coated

6762H Zinc & Painted

Taps available on all the above product options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or un-pressurized. See page 14.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Nut Size
6"	3/4" or 1"	*3/4" or 1"	1A, 20LT

*3/4" outlet obtained with reducing endpiece

NOTE: For side taps, add letters. See page 40 & 78. For other options, see page 78. All dimensions shown are for reference only. Contact factory if specific dimensional values or tolerances are required.

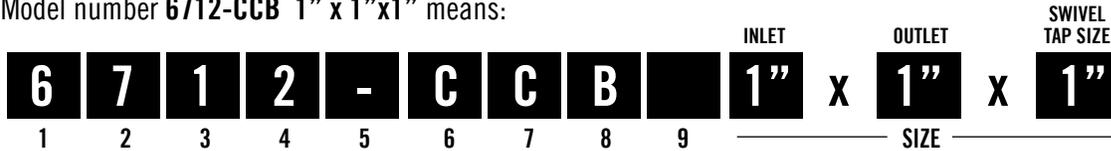
Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6712-CCB 1" x 1"x1" means:



BLOCK 1 - INLET TYPE

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 (No Swivels)

BLOCK 4 - END CONFIGURATION / BAR TYPE

2 = Rear center horizontal inlet x Vertical outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

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(S) LOCATION

- = No tap
A = Pos. A
C = Pos. C
D = Pos. D
H = Pos. A & C
J = Pos. A & D
N = Pos. C & D
T = Pos. A, C & D

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap
A = 1/8" NPT recessed hex head plug
B = 1/8" NPT square head plug
C = 1/8" NPT - no plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
F = 1/4" NPT - no plug
G = 3/8" NPT recessed hex head plug
H = 3/8" NPT square head plug
J = 3/8" NPT - no plug
K = 1/8" NPT square head plug (raised bosses)
L = 1/8" NPT hex head (raised bosses)
M = 1/8" NPT hex head plug
N = 1/4" NPT square head plug in inlet and 1/8" recessed hex head plug in outlet
P = 1/4" NPT temperature/pressure plug

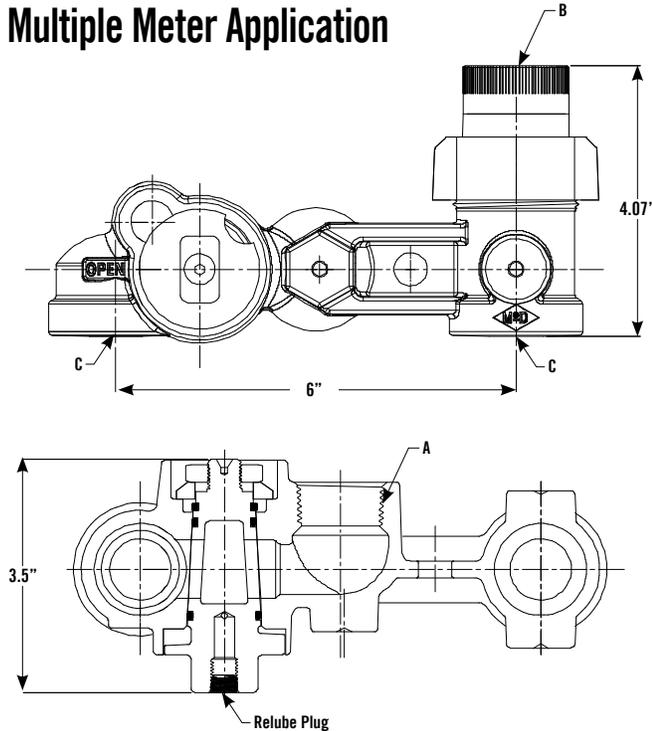
BLOCK 9 - BLANK

Cast Iron Meter Bars with Integral Valve - 6712 Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only. For CMMC multiple meter manifold applications

Multiple Meter Application



(black iron shown)

FNPT x FNPT Union

COATINGS AVAILABLE

- 6712- Black Iron
 - 6712G Zinc Coated w/Clear Chromate Finish Iron
 - 6712P Paint Coated
 - 6712H Zinc & Painted
- Taps available on all the above product options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or un-pressurized. See page 14.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

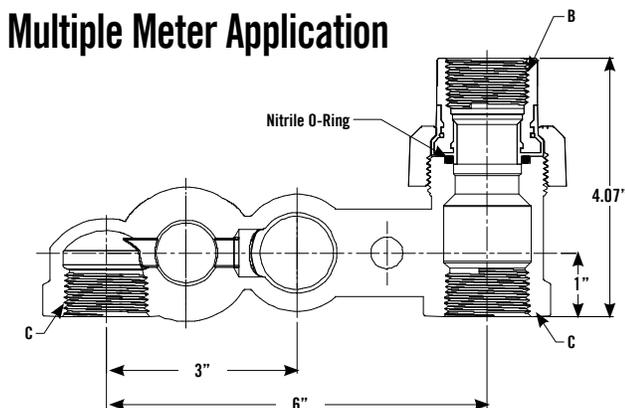
*3/4" outlet obtained with reducing endpiece

Cast Iron Meter Bars with Integral Valve - 6712L Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET WITH LOCKWING - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only. For CMMC multiple meter manifold applications

Multiple Meter Application



(black iron shown)

FNPT x FNPT Union

COATINGS AVAILABLE

- 6712L- Black Iron
 - 6712G Zinc Coated w/Clear Chromate Finish Iron
 - 6712P Paint Coated
 - 6712H Zinc & Painted
- Taps available on all the above product options.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Tap Size
6"	3/4" or 1"	*3/4" or 1"	3/4" or 1"

*3/4" outlet obtained with reducing endpiece

BYPASS THE TROUBLES DON'T INTERRUPT YOUR CUSTOMERS.

RESIDENTIAL & COMMERCIAL BYPASS OPTIONS

When it comes to bypass technology, A.Y. McDonald 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's many residential and commercial bypass solutions!



At A.Y. McDonald, you aren't just getting a product; you are getting an innovative solution, access to educational opportunities, and the ability to be treated like family. The customer is the boss and we aim to break the mold on how we reach customer satisfaction. Because in the end, without you, there would be no us.

sales@aymcdonald.com | 800.292.2737 | aymcdonald.com



Bypass Meter Bars



Natural Gas Bypass Meter Bars

MORE THAN A BRAND. WE'RE A FAMILY.

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 3/4" x 3/4" x 1"



BLOCK 1 - INLET TYPE

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 (No Swivels)

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet x Horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

BLOCK 6 - OUTLET END TYPE

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

BLOCK 7 - TAP(S) LOCATION

F = Pos. E (Top) Standard

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No tap
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
M = 1/8" NPT hex head plug

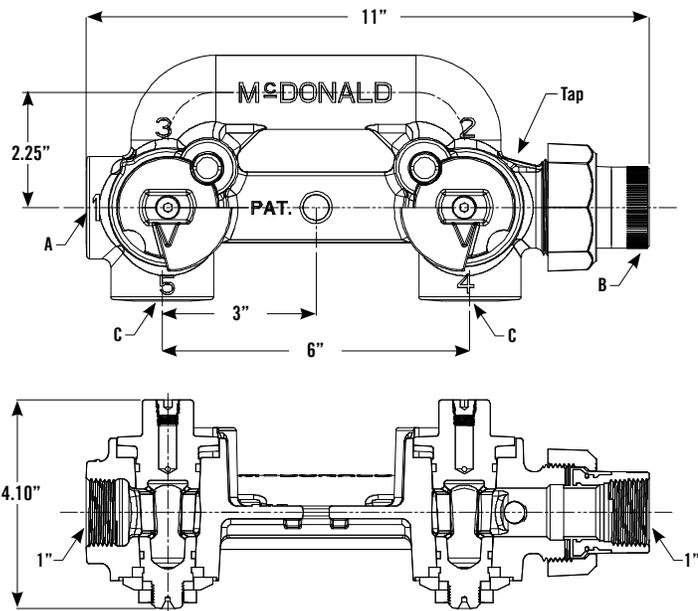
BLOCK 9 - BLANK

Bypass Meter Bars - 6410 Series

HORIZONTAL INLET & OUTLET - 2 INTEGRAL VALVES - 5 PSIG - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

Residential Meter Application



(black iron shown)

FNPT x FNPT Union

COATINGS AVAILABLE

6410- Black Iron

6410G Zinc Coated w/Clear Chromate Finish Iron

6410P Paint Coated

6410H Zinc & Painted

Taps available on all the above product options.

High security lock design integral valve

With Relube Valve - This A.Y. McDonald Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or un-pressurized. See page 14.

For other bypass valve options see pages 22-34.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivel Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"

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 & regulated to the correct pressure.
- A few turns of the valves 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

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 **6480GCCD 1 1/2" x 1 1/2" x 1 1/2"** means:



BLOCK 1 - INLET TYPE

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

8 = 8 1/4" Spread [No Swivel]

BLOCK 4 - END CONFIGURATION / BAR TYPE

0 = Horizontal inlet x Horizontal outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

BLOCK 6 - OUTLET END TYPE

C = FNPT insulated O-ring union

BLOCK 7 - TAP(S) LOCATION

C = Pos. C - Standard

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = No Plug
B = 1/8" NPT Square Head Plug
D = 1/4" NPT recessed hex head plug

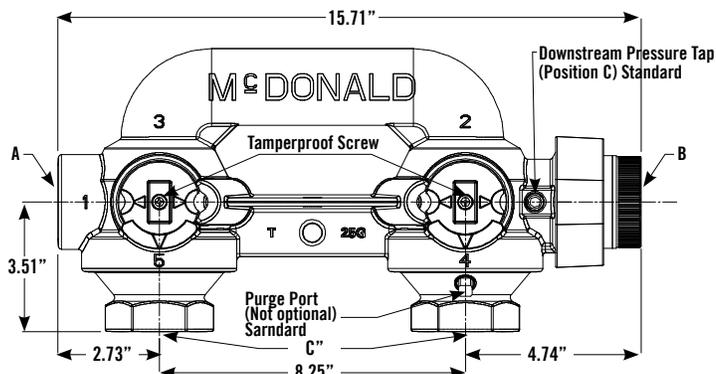
BLOCK 9 - BLANK

Bypass Meter Bars - 6480 Series

HORIZONTAL INLET & OUTLET - 2 INTEGRAL VALVES - 25 PSIG - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

Commercial Bypass Meter Bar



(black iron shown)

FNPT x FNPT Union

COATINGS AVAILABLE

6480- Black Iron

6480G Zinc Coated w/Clear Chromate Finish Iron

6480P Paint Coated

6480H Zinc & Painted

Taps available on all the above product options.

High security lock design integral valve

For other bypass valve options see pages 22-34.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	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"

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 & regulated to the correct pressure.
- A few turns of the valves 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.

6480 Commercial Bypass Meter Bar

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 6312PFFD 1" x 1" x 1" means:



BLOCK 1 - INLET TYPE

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 [No Swivel]

BLOCK 4 - END CONFIGURATION / BAR TYPE

2 = Rear Center Horizontal Inlet X Vertical Outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
G = Zinc plated with Clear Sealant
H = Zinc plated with Clear Sealant & Painted
P = Painted finish

BLOCK 6 - OUTLET END TYPE

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

BLOCK 7 - TAP(S) LOCATION

A = Pos. A
C = Pos. C Standard
H = Pos. A & C

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

- = Plug
D = 1/4" NPT recessed hex head plug
E = 1/4" NPT square head plug
M = 1/8" NPT hex head plug

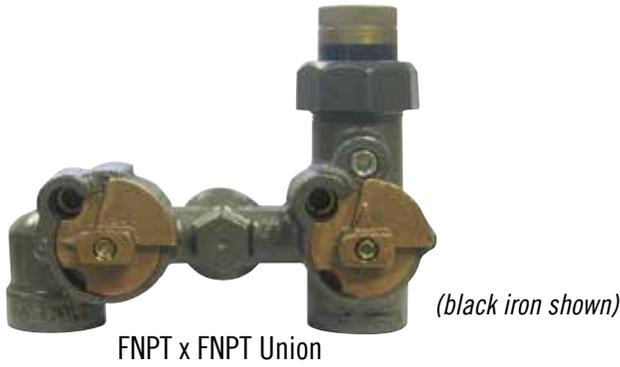
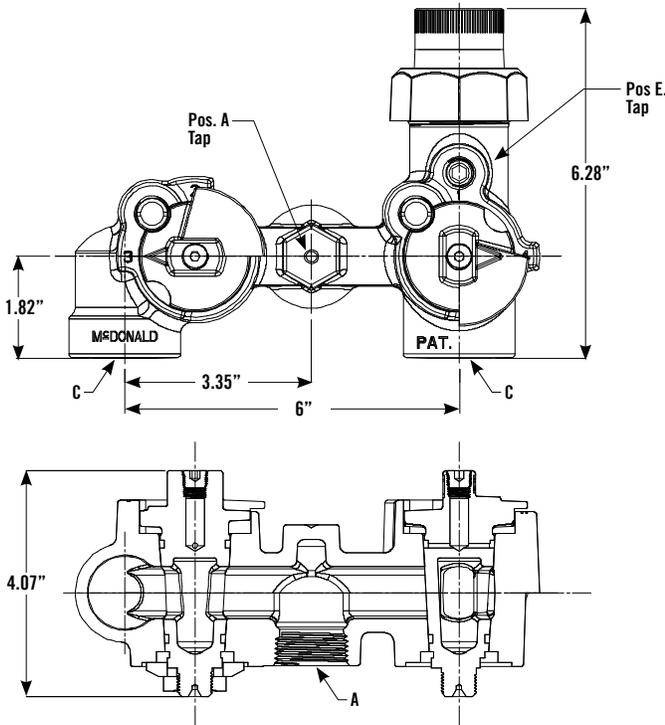
BLOCK 9 - BLANK

Bypass Meter Bars - 6312 Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET - 2 INTEGRAL VALVES - 5 PSIG - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

Multiple Meter Application



COATINGS AVAILABLE

- 6312- Black Iron
 - 6312G Zinc Coated w/Clear Chromate Finish Iron
 - 6312P Paint Coated
 - 6312H Zinc & Painted
- Taps available on all the above product options.

High security lock design integral valve
With Relube Valve - This A.Y. McDonald Gas Valve may be re-lubricated in the full open or full closed position when the valve is pressurized or un-pressurized. See page 14.
 For other bypass valve options see pages 22-34.

DIMENSIONS

Centerline	A FNPT Inlet	B FNPT Union	C Swivels Tap Size
6"	3/4" or 1"	3/4" or 1"	3/4" or 1"

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 & regulated to the correct pressure.
- A few turns of the valves 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.

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

Meter Bars

FOR CAST IRON METER BARS & BYPASS METER BARS

A.Y. McDonald Mfg. Co. Gas 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 1/4" x 1 1/4" x 1 1/4"**



BLOCK 1 - INLET TYPE

6 = All meter bars

BLOCK 2 - METER BAR TYPE

2 = Industrial Bypass

BLOCK 3 - METER BAR SPREAD

8 = 8 1/4" Spread

BLOCK 4 - END CONFIGURATION / BAR TYPE

2 = Rear Center Horizontal Inlet X Vertical Outlet

BLOCK 5 - FINISH / PACKAGING

- = Black cast iron finish
 G = Zinc plated with Clear Sealant
 H = Zinc plated Clear Sealant & Painted
 P = Painted finish

BLOCK 6 - OUTLET END TYPE

C = Female insulated O-ring union

BLOCK 7 - TAP(S) LOCATION

C = Pos. C Standard

See drawing on page 40 for positions

BLOCK 8 - TAP PLUG SIZE / TYPE*

D = 1/4" NPT recessed hex head plug
 E = 1/4" NPT square head plug

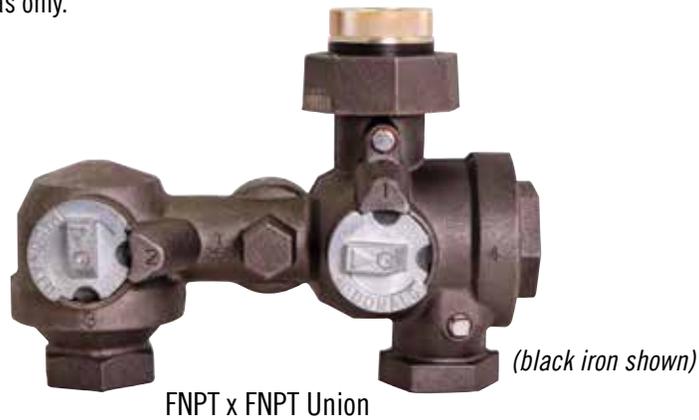
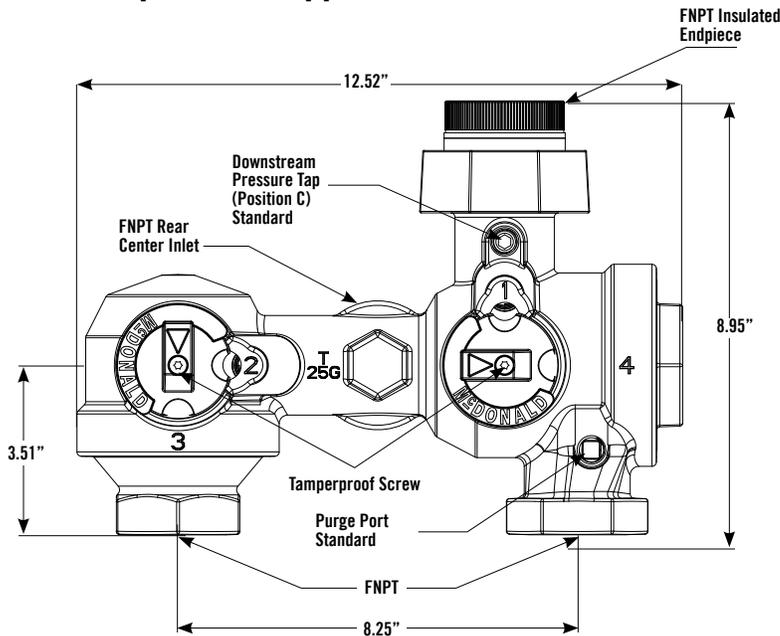
BLOCK 9 - BLANK

Bypass Meter Bars - 6282 Series

REAR CENTER HORIZONTAL INLET & VERTICAL OUTLET - 2 INTEGRAL VALVES - 25 PSIG - NO ATTACHED SWIVELS

These bars are designed for use with natural, manufactured and L.P. gas only.

Multiple Meter Application



FNPT x FNPT Union

COATINGS AVAILABLE

- 6282- Black Iron
 - 6282G Zinc Coated w/Clear Chromate Finish Iron
 - 6282P Paint Coated
 - 6282H Zinc & Painted
- Taps available on all the above product options.

DIMENSIONS

Centerline	FNPT Inlet	FNPT Union	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 22-34.

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

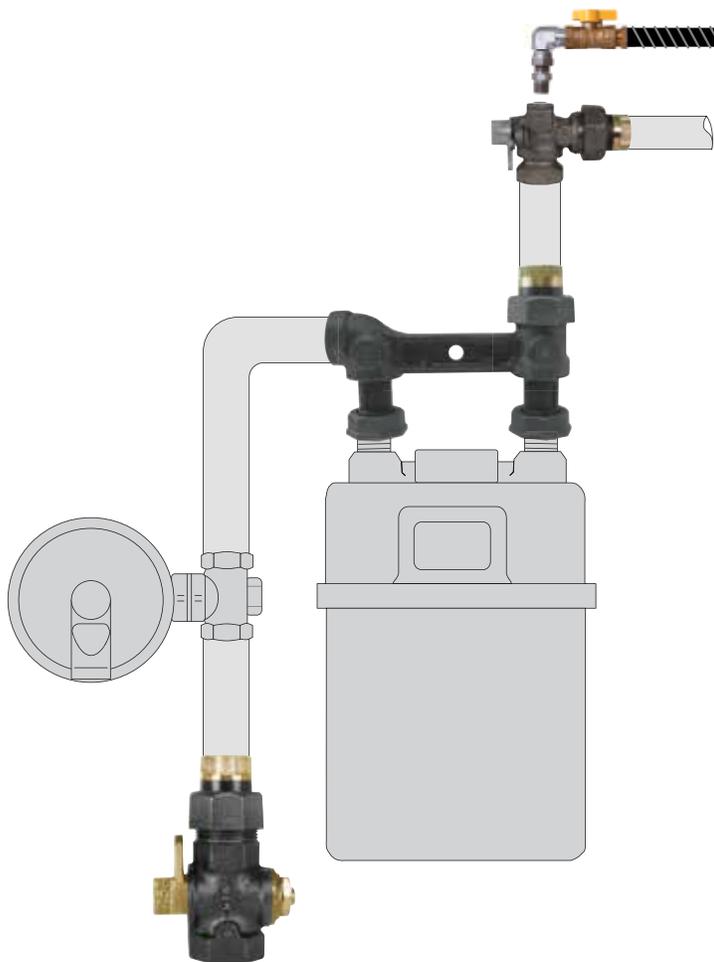
- No need for additional hoses, regulators, bottles, or any special tools.
- Your gas supply is always ready & regulated to the correct pressure.
- A few turns of the valves and your Bypass is complete.
- Industry proven locking design for theft protection.
- Performance testing proven at **gti**.

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

BYPASS YOUR TROUBLES.

PBK - PORTABLE BYPASS KIT

Looking for an alternative route to bypassing a gas meter set? Well, the hunt is over! With no reschedules, no loss of pilot lights, and no interruption of service, A.Y. McDonald's Portable Bypass Kit was designed to bypass your troubles.



At A.Y. McDonald, you aren't just getting a product; you are getting an innovative solution, access to educational opportunities, and the ability to be treated like family. The customer is the boss and we aim to break the mold on how we reach customer satisfaction. Because in the end, without you, there would be no us.

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Natural Gas Accessories

Accessories

MORE THAN A BRAND. WE'RE A FAMILY.

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 #	Size	Threads Per Inch	I.D. DIM. In Inches	Carton PCS/WT
4815-671	4815-673	5LT	12	0.880"	100/13
4815-501	4815-517	10LT	11 1/2	1.16"	100/18
4815-507	4815-523	20LT	11 1/2	1.42"	100/22
4815-543	4815-557	30LT	11 1/2	1.69"	100/30
4815-513	4815-529	1A	12	1.34"	100/24
4815-564	4815-574	0 EMCO	11 1/2	1.34"	100/24

Black Part #	Galvanized Part #	Size	Threads Per Inch	I.D. DIM. In Inches	Carton PCS/WT
4815-566	4815-576	45LT	11 1/2	1.94	100/42
4815-624	4815-626	3A/4A	11 1/2	2.02	50/37
4815-830	4815-832	60LT	11 1/2	1.94	50/24
4815-806	NA	5A	8	2.97	20/36
4815-700	NA	100LT	11	2.438	20/26

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" Part #	1/4" Part #	Size	Threads Per Inch	Carton PCS/WT
4820-181	4820-000	4820-195	10LT	11 1/2	100/21
4820-180	4820-002		#1A	12	100/26
4820-182	4820-001	4820-196	20LT	11 1/2	100/30
4815-663	4815-750	4820-014	30LT	11 1/2	100/41
4815-665	4815-769		45LT	11 1/2	100/48

GASKETS FOR SWIVELS

Gaskets are used to seal malleable iron offset or straight 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 and manufactured 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.



Model	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	.968	1.251	.109	100/30
4820-185	Sprague #1A and O Emco	.968	1.406	.109	100/40
4820-186	20LT	1.290	1.625	.109	100/40
4820-187	30LT	1.468	1.875	.109	50/25

Model	Size	I.D. DIM. In Inches	O.D. DIM. In Inches	Thickness	Carton PCS/WT
4820-188	45LT	1.672	2.094	.109	50/30
4820-193	2A	1.118	1.718	.109	50/40
4820-190	3A / 4A	1.47	2.13	.109	50/40
4820-191	5A	2.295	3.232	.109	50/40
4820-192	60LT	1.88	2.29	.109	50/30

METER ADAPTERS - ZINC

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 female end. In addition, each fitting is zinc plated for corrosion protection. The zinc is applied after machining so the threads are also protected.



Model	Male Meter Thread (converting from)	Female 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

If you are converting meter sizes in your system, consider these fittings for a cost effective approach. Manufactured per ANSI B109.1.

Accessories

NON-INSULATED SWIVELS - BLACK AND GALVANIZED

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		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		2 11/16"	3/4" MNPT	100/39
20LT	1A Spud	4815-535	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 - ZINC

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. *45LT size available only black

	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" FNPT	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 (BMI) *	4815-882	2 15/16"	1 1/2" MNPT	50/



Straight



Offset



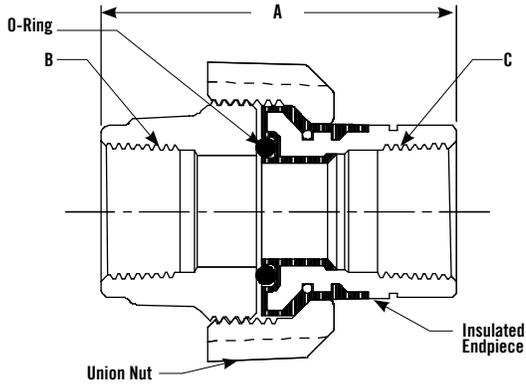
Spud

3 Part Unions - 6300 Series

FNPT OR MNPT INSULATED HEADPIECE - 150 PSIG

Designed to prevent electrolysis or other corrosive action 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.

Female



6300 - DIMENSIONS

Insulated O-ring Union Outlet

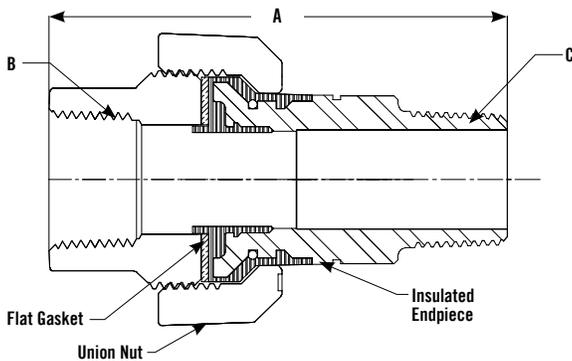
Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-000	3/4"	2.65	3/4"	3/4"
4821-008	1"	2.93	1"	1"
4821-031	1 1/4"	3.12	1 1/4"	1 1/4"
4821-038	1 1/2"	3.25	1 1/2"	1 1/2"
4821-032	2"	3.30	2"	2"

6301 - DIMENSIONS

Insulated Flat Gasket Union Outlet

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-001	3/4"	2.65	3/4"	3/4"
4821-009	1"	2.93	1"	1"

Male



6310 - DIMENSIONS

Insulated O-ring Union Outlet

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-002	3/4"	3.52	3/4"	3/4"
4821-010	1"	3.90	1"	1"

6311 - DIMENSIONS

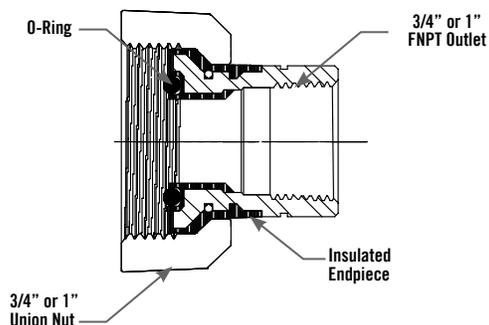
Insulated Flat Gasket Union Outlet

Part #	Size	A Length	B FNPT Outlet	C FNPT Inlet
4821-003	3/4"	3.52	3/4"	3/4"
4821-011	1"	3.90	1"	1"

Repair Unions

FNPT OR MNPT INSULATED HEADPIECE - 150 PSIG

Union Nut - Female



(black iron shown)

6276GR - DIMENSIONS

Insulated O-ring Outlet - Zinc

Part #	Size
4821-046	1"
4821-026	1 1/4"

6300R - DIMENSIONS

Insulated O-ring Outlet

Part #	Size
4821-004	3/4"

6300GR - DIMENSIONS

Insulated O-ring Outlet - Zinc

Part #	Size
4821-020	3/4"

6301R - DIMENSIONS

Insulated Flat Gasket Outlet

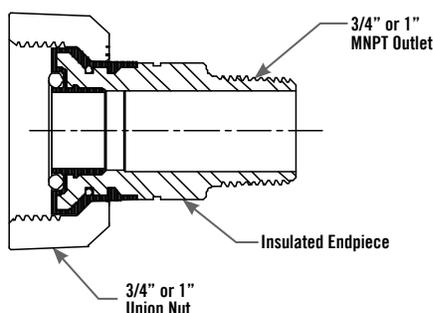
Part #	Size
4821-005	3/4"
4821-013	1"

63001GR - DIMENSIONS

Insulated Flat Gasket Outlet - Zinc

Part #	Size
4821-025	3/4"

Union Nut - Male



6310R - DIMENSIONS

Insulated O-ring Outlet

Part #	Size
4821-006	3/4"

6311R - DIMENSIONS

Insulated Flat Gasket Outlet

Part #	Size
4821-007	3/4"
4821-015	1"



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