

3801 AWWA / 3802 FNPT

FOR IPS PVC PIPE ALL BRASS TWO BOLT SADDLES (SCHEDULE 40 OR 80)

A.Y. McDonald Mfg. Co. Model 3801, 3802 Brass Service Saddles are designed for use on PVC pipe and provide full circle support without cracking or distorting the pipe. The pressure capabilities equal, but do not exceed, the working pressure rating of the PVC pipe up to 200 PSIG. Installation instructions are provided with each saddle. Please read and follow all instructions to ensure long lasting performance.

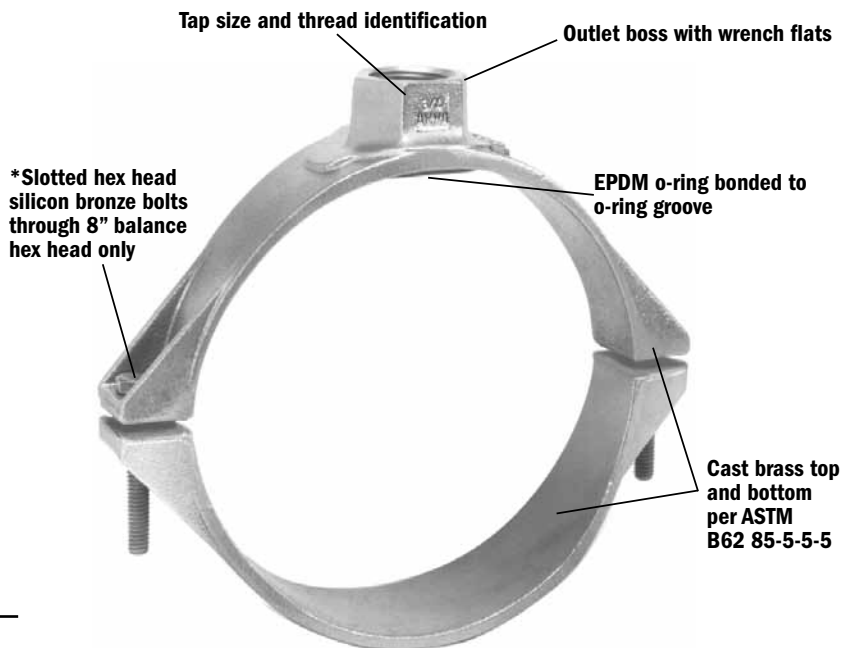
MATERIALS

Top and Bottom

85-5-5-5 cast brass per ASTM B62

Silicon Bronze Bolts

- 1/2" Slotted Hex Head (3100-906)
5/16" - 18 UNC - 2A x 2" long
fits on 2", 2 1/2", 3", 4", 6" & 8" diameter saddles with 3/4" and 1" Taps
- 5/8" Slotted Hex Head (3100-908)
7/16" - 14 UNC - 2A x 2" long
fits on 4", 6" & 8" diameter saddles with 1 1/2" and 2" Taps
- 3/4" Hex Head (3100-915)
1/2" - 13 UNC - 2A x 3" long
fits on 10" & 12" diameter saddles with 1/2" - 2" Taps



SIZES

IPS Models 3801 (AWWA) and 3802 (FNPT):

Main Sizes:

2", 2 1/2", 3", 4", 6", 8", 10", & 12"

Tap Sizes:

1/2", 3/4", & 1" AWWA or FNPT on 2", 2 1/2", & 3" Saddles

1/2", 3/4", 1", 1 1/2", & 2" AWWA or FNPT on

4", 6", 8", 10", & 12" Saddles

Installation instructions are provided with each saddle. Please read and follow instructions to ensure long lasting performance.

NOTES

- All Saddles have cast IPS or Pipe O.D. range identification.
- All A.Y. McDonald Service Saddles meet A.W.W.A. standards.
- Use on cold water services only.
- Order Saddles by Model Number, Nominal Pipe Size and Tap Size (Example: 3801 6" x 3/4").

OPTIONS

- Contact factory for 1 1/4" tapped saddles.
- Contact factory for BSPP (British Standard Parallel Pipe) tapped saddles.
- Viton o-rings - add "V" to end of model number i.e. 3801 = 3801V
Additional cost and lead time will apply for non-stocked options and are non-returnable

MODELS

3801 (AWWA) & 3802 (FNPT)

Nominal Size	Tap Size	Pipe O.D.
2"	1/2", 3/4", or 1"	2.38"
2 1/2"	1/2", 3/4", or 1"	2.88"
3"	1/2", 3/4", or 1"	3.50"
4"	1/2", 3/4", 1", 1 1/2", or 2"	4.50"
6"	1/2", 3/4", 1", 1 1/2", or 2"	6.63"
8"	1/2", 3/4", 1", 1 1/2", or 2"	8.63"
10"	1/2", 3/4", 1", 1 1/2", or 2"	10.75"
12"	1/2", 3/4", 1", 1 1/2", or 2"	12.75"

2 Piece Saddle - 3801, 3802, 3805, 3806

1. Saddles should be installed after pipe pressure testing is completed.
2. Use only on PVC pipe. Make sure you have proper type and size of saddle for pipe. Reference pipe diameter, tap size and identification located on each saddle.
3. Make sure saddle sealing surface on the pipe is clean, free of "nicks", gouges, or other imperfections that could cause leakage.
4. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings.
5. Place saddle outlet and strap around pipe and attach together loosely using capscrews into tapped holes. Then rotate the saddle into desired position.
6. A.Y. McDonald saddles are **NOT** designed to bottom out. Alternating between each bolt, tighten to the following torques:
FOR 3/4" AND 1" THREAD SIZE OUTLETS:
2", 2-1/2", and 3" pipe - 4 - 5 **FOOT-POUNDS**.
(approx. 4 to 5 lbs. pull on 12" wrench)
4", 6", and 8" pipe - 5 - 6 **FOOT-POUNDS**.
(approx. 5 to 6 lbs. pull on 12" wrench)
10" and 12" pipe - 24 - 26 **FOOT-POUNDS**.
(approx. 24 to 26 lbs. pull on 12" wrench)
FOR 1-1/2" AND 2" THREAD SIZE OUTLETS:
4" and 6" pipe - 13 - 15 **FOOT-POUNDS**.
(approx. 13 to 15 lbs. pull on 12" wrench)
8" pipe - 17 - 19 **FOOT-POUNDS**.
(approx. 17 to 19 lbs. pull on 12" wrench)
10" and 12" pipe - 24 - 26 **FOOT-POUNDS**.
(approx. 24 to 26 lbs. pull on 12" wrench)
7. Overtightening can cause failure of saddle or bolt.
8. After the corporation stop has been installed, recheck saddle torque and tighten if necessary.
9. McDonald saddles are designed to withstand water working pressure up to but not exceeding the working pressure rating of the pipe up to 200 PSIG maximum. **Use only on a cold water service.**
10. Saddle testing should be accomplished while services are exposed and prior to backfilling.

3210-327

8/11

Stainless Steel Band Saddle -

3835, 3836, 3845, 3845A, 3845B, 3846, 3846A, 3846B, 3855, 3856, 4835A, 4836A, 4845A, 4846A, 4855A, 4856A

1. Whenever possible, saddles should be installed after pipe pressure testing is completed.
2. Make sure the proper type and size saddle have been selected for the pipe.
NOTE: Both 10" and 12" saddles are available with multiple strap and saddle top combinations. Make sure the pipe size lies in the ranges listed on the strap/saddle top combination.
3. Clean pipe surface thoroughly.
4. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings.
5. Mount saddle on pipe with outlet facing desired direction.
6. Tighten nuts evenly to a torque of **30-35 FOOT POUNDS**.
7. Overtightening can cause failure of the pipe and/or the saddle.
8. After the corporation stop has been installed, recheck saddle torque and tighten if necessary.
9. A.Y. McDonald stainless steel band saddles are designed to withstand water working pressure, up to but not exceeding, the working pressure rating of the pipe. **Use only on a cold water service.**
10. Saddle testing should be accomplished while services are exposed and prior to backfilling.

3210-381

8/11

Hinged Saddle - 3891, 3892, 3895, 3896

1. Saddles should be installed after pipe pressure testing is completed.
2. Use only on PVC pipe.
3. Make sure you have proper type and size of saddle for pipe. Reference pipe diameter range, tap size and identification located on each hinged saddle.
4. Clean pipe surface thoroughly.
5. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings.
6. Mount saddle on pipe with outlet facing desired direction.
7. McDonald hinged saddles are **NOT** designed to bottom out. Tighten bolts to the following torques:
3/4" and 1" thread size outlets:
2", 2 1/2", 3" pipe - 4 - 5 **FOOT-POUNDS**.
(approx. 4 to 5 lbs pull on a 12" wrench)
4", 6", 8" pipe - 5 - 6 **FOOT-POUNDS**.
(approx. 5 to 6 lbs pull on a 12" wrench)
1 1/2" and 2" thread size outlets:
3", 4" pipe - 5 - 6 **FOOT-POUNDS***.
(approx. 5 to 6 lbs pull on a 12" wrench)
6", 8" pipe - 7 - 9 **FOOT-POUNDS***.
(approx. 7 to 9 lbs pull on a 12" wrench)
*Be sure to alternate tightening of the 2 bolts to ensure even loading.
8. Overtightening can cause failure of saddle, bolt or hinge pin.
9. After the corporation stop has been installed, recheck saddle torque and tighten if necessary.
10. McDonald hinged saddles are designed to withstand water working pressure up to but not exceeding the working pressure rating of the pipe up to 200 PSIG maximum. **Use only on a cold water service.**
11. Saddle testing should be accomplished while services are exposed and prior to backfilling.

3210-308

8/11

Bronze Single Strap Saddle - 3815, 3816

1. Whenever possible, saddles should be installed after pipe pressure testing is completed.
2. Make sure you have proper type and size of saddle for pipe. Reference pipe diameter range, tap size and identification located on the top piece of each saddle.
3. **Do not use on PVC pipe.**
4. Clean pipe surface thoroughly.
5. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings.
6. Mount saddle on pipe with outlet facing desired direction.
7. Tighten nuts evenly to a torque of **45-55 FOOT POUNDS**.
8. After the corporation stop has been installed, recheck saddle torque and tighten if necessary.
9. A.Y. McDonald single strap saddles are designed to withstand water working pressure up to, but not exceeding, the working pressure rating of the pipe. **Use only on a cold water service.**
10. Saddle testing should be accomplished while services are exposed and prior to backfilling.

3210-319

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