MªDonald >A.Y. MaDonald Mfg. Co.

Angle Dual Check Backflow Preventers/Device Meets requirements of ASSE 1024 and CSA B64.6

12 Series

Model Number Explanation

SPACE 1 & 2 Basic dual check valve model number: 12=Angle valve

SPACE 3 (-) Standard W=Pentagon test plug in cap

SPACE 4 Dual check valve size: 3 = 3/4" 4 = 1"

SPACE 5 Inlet connection type:

- H -Meter swivel integral with saddle
- J Meter swivel integral Y -Yoke style thread male integral

SPACE 6 Outlet connection type:

E=Female iron pipe integral Q= CTS Q-Series compression integral

R=Copper flare integral

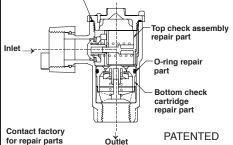
T=CTS T-Series compression integral

2=CTS (22) Mac-Pak compression integral

Top check assembly repair part

COMPONENTS and REPAIR PARTS

O-ring repair part



SPACE 7 Thread size of meter swivel nut METER THREAD METER SIZE SIZE DESIGNATION 5/8x3/4 1" 4 3/4 1 1 1/4"

For Iron Yokes use the following designation.

METER SIZE	THREA	D METER DESIGNATION
JILL	JILL	DESIGNATION
5/8	-	2
5/8x3/4	-	3
3/4	-	3
1	-	4

SPACE 8 Sizes for outlet connections 3/4"=3 1"=4

Not all sizes or combinations available - contact factory.

HOW TO ORDER

Order Model 12-3HE43

UNIT REQUIRED (Example): • Angle style valve

- No test valve
- Valve size 3/4"
- Inlet Meter swivel integral with saddle (5/8 x 3/4 meter)
- · Outlet FIP integral 3/4"

SPACE 1 & 2	SPACE 3	SPACE 4	SPACE 5	SPACE 6	SPACE /	SPACE 8
12	_	3	Н	Е	4	3

(Installation and test procedures on opposite side)

INSTALLATION INSTRUCTIONS

- 1. Use only for residential and mobile home supply service or individual outlets.
- 2. The device can be installed in any position.
- 3. The device shall be installed in an accessible location to facilitate the removal for servicing and testing.
- 4. Service lines should be thoroughly flushed before installing the device. Excessive pipe sealant or Teflon tape may foul checks. A suitable strainer should be installed upstream of the device.
- 5. DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or o-rings.
- Insure that device is installed in proper flow direction. Refer to flow direction arrow on body.
- 7. Do not over-tighten O-ring cap seal or across body cylinder to avoid distortion. 8. Any sweat fittings must be completed before installing device.
- 9. A pressure relief valve or expansion tank is recommended downstream of device if thermal expansion conditions are possible.
- Use only on cold water services. Protect from freezing.
- 11. Refer to pressure and temperature ratings on device tag.

FIELD INSPECTION AND TEST PROCEDURE

A. DIS-ASSEMBLY

- 1. Remove the device cap.
- 2. Remove the two check assemblies using care not to damage device components.
- 3. Visually inspect seals, sealing surfaces, etc. for debris or damage.

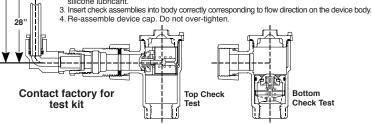
B. TESTING

- 1. Insert top check assembly into A.Y. McDONALD angle test kit as shown in drawing.
- 2. Add water to test kit level to upper red line 42 inches (1.5 psig).
- 3. Observe water level for up to 5 minutes until water level stabilizes. Water level should not fall below lower red line - 28 inches (1.0 psig).
- 4. If water column falls below 28 inches the check assembly should be cleaned and re-tested or replaced.
- Repeat steps B1 B4 for bottom check cartridge.

C. RF-ASSEMBLY

42"

- 1. Clean and inspect device components.
- 2. Bottom Check cartridge O-ring should be lightly lubricated with a NSF approved silicone lubricant



WARNING: Beginning January 1, 2010, it is unlawful in CALIFORNIA and VERMONT 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 the state of CALIFORNIA.