Angle Dual Check Backflow Preventers/Device

Meets requirements of ASSE 1024 and CSA B64.6

712 Series - Model Number Explanation -

Basic dual check valve model number:

712 = Angle valve

(-) Standard W=Pentagon test plug in cap

SPACE 5

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

SPACE 6

Inlet connection type:

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

SPACE 7
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

SPACE 8 Blank

COMPONENTS & REPAIR PARTS 0-ring repair part Top check assembly repair part O-ring repair part **Bottom check** cartridge repair part Contact factory for repair parts **PATENTED**

Outlet

SPACE 9 Thread size	e of met	er swivel nut	I
METER SIZE	THREAD SIZE	METER DESIGNATION	
5/8	3/4"	3	
5/8 x 3/4	1"	4	į

1 1/4"

For Iron Yokes use the following designation.

SIZE	SIZE	
5/8	-	2
5/8 x 3/4	-	3
3/4	-	3
1	-	4

SPACE 10

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

HOW TO ORDER

Not all sizes or combinations available - contact factory.

- **UNIT REQUIRED (Example):**
- Angle style valve No test valve
- Inlet Meter swivel integral with saddle (5/8 x 3/4 meter)
- Valve size 3/4"
- Outlet FNPT integral 3/4"

Order Model 712-3HE 43

SPACE 1, 2, & 3	SPACE 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9	SPACE 10
712	-	3	Н	E		4	3

(Installation and test procedures on opposite side)

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Installation Instructions

Angle Dual Check Backflow Preventers/Device

O-ring repair part

Outlet

77

Meets requirements of ASSE 1024 and CSA B64.6

712 Series - Model Number Explanation

COMPONENTS & REPAIR PARTS SPACE 1, 2, & 3 Basic dual check valve model number: 712 = Angle valve

SPACE 4

(-) Standard

W=Pentagon test plug in cap

SPACE 5

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

SPACE 6

- Inlet connection type: H Meter swivel integral with saddle
- J Meter swivel integral
- Y Yoke style thread male integral

SPACE 7

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

SPACE 8

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SPACE 9

Thread size of meter swivel nut THREAD METER DESIGNATION SIZE

Contact factory for repair parts

 $5/8 \times 3/4$ 1' 3/4 1 1/4" For Iron Yokes use the following designation.

PATENTED

Top check assembly

repair part

0-ring repair

Bottom check

cartridge

repair part

METER THREAD HREAD METER SIZE DESIGNATION SIZE 5/8 5/8 x 3/4 3/4

utlet connections 1"=4

HOW TO ORDER

Not all sizes or combinations available - contact factory.

- UNIT REQUIRED (Example): Angle style valve
 - No test valve
- Inlet Meter swivel integral

SPACE 10

Sizes for 3/4"=3

- Valve size 3/4"
- with saddle (5/8 x 3/4 meter) Outlet - FNPT integral 3/4"

Order Model 712-3HF 43

Oldol III		O11E 10					
SPACE 1, 2, & 3	SPACE 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9	SPACE 10
712	-	3	Н	E		4	3
(Installation and test procedures on opposite side)							

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Installation Instructions Angle Dual Check Backflow Preventers/Device

Meets requirements of ASSE 1024 and CSA B64.6

712 Series - Model Number Explanation

1 12 Selies - Middel Mailinei Exh	ialiativii ——————————————————————————————————	
CDIOTA O O O	OMPONENTS & REPAIR PARTS —	
SPACE 1, 2, & 3 Basic dual check valve model number: 712 = Angle valve	0-ring repair part	
SPACE 4 (-) Standard W=Pentagon test plug in cap In SPACE 5 Dual check valve size: 3 = 3/4" 4 = 1"	Top check assemble repair part O-ring repair part	y
SPACE 6 Inlet connection type: H - Meter swivel integral with saddle J - Meter swivel integral	Contact factory for repair parts	

SPACE 7

- Outlet connection type:
- E = Female iron pipe integral 0 = CTS 0 - Series compression integral
- R = Copper flare integral
- T = CTS T Series compression integral

Y - Yoke style thread male integral

- 2 = CTS (-22) Mac-Pak compression

SPACE 8 Blank

SPACE 9			the following		
		er swivel nut	designatio		
METER Size	THREAD SIZE	METER Designation	METER SIZE	THREAD SIZE	METER DESIGNATION
5/8	3/4"	3	5/8	-	2
5/8 x 3/4	1"	4	5/8 x 3/4	-	3
3/4	1"	4	3/4	-	3
1	1 1 / / / "	5	1	-	4

Outlet

SPACE 10

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

PATENTED

HOW TO ORDER

Not all sizes or combinations available - contact factory. - Inlet - Meter swivel integral - Angle style valve

- UNIT REQUIRED (Example):
- No test valve
- Valve size 3/4"
- with saddle (5/8 x 3/4 meter) - Outlet - FNPT integral 3/4"

Order Model 712-3HE 43

SPACE 1, 2, & 3	SPACE 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9	SPACE 10
712	-	3	Н	E		4	3
(Installation and test procedures on opposite side)							

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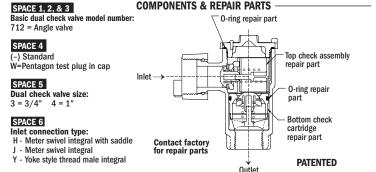


Installation Instructions

Angle Dual Check Backflow Preventers/Device

Meets requirements of ASSE 1024 and CSA B64.6

712 Series - Model Number Explanation



SPACE 7

Outlet connection type:

E = Female iron pipe integral 0 = CTS 0 - Series compression integral R = Copper flare integral

T = CTS T - Series compression integral 2 = CTS (-22) Mac-Pak compression

integral SPACE 8

SPACE 9

Thread size of meter swivel nut METER THREAD METER DESIGNATION SIZE 5/8 x 3/4 3/4

For Iron Yokes use the following designation. METER THREAD

utlet connections 1"=4

HREAD METER SIZE DESIGNATION SIZE 5/8 5/8 x 3/4 3/4 3 1 1/4" SPACE 10

HOW TO ORDER

UNIT REQUIRED (Example):

- Angle style valve - Inlet - Meter swivel integral

Not all sizes or combinations available - contact factory.

- No test valve - Valve size 3/4"

with saddle (5/8 x 3/4 meter) - Outlet - FNPT integral 3/4"

Sizes for 3/4"=3

Order Model 712-3HE 43

SPACE 1, 2, & 3	SPACE 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9	SPACE 10	
712	-	3	Н	E		4	3	
(Installation and test procedures on opposite side)								

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Installation Instructions

Angle Dual Check Backflow Preventers/Device

- Use only for residential and mobile home supply service or individual outlets 1.
- The device can be installed in any position.
- The device shall be installed in an accessible location to facilitate the removal for servicing and testing.
- 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.
- DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or 0-rings.
 Insure that device is installed in proper flow direction. Refer to flow direction arrow on body.
- Do not over-tighten O-ring cap seal or across body cylinder to avoid distortion. 7.
- Any sweat fittings must be completed before installing device.
- A pressure relief valve or expansion tank is recommended downstream of device if thermal expansion conditions are possible.
- 10. 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

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

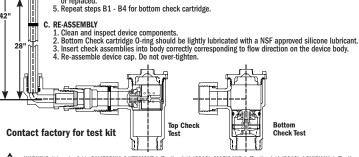
IESTING

I. 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. or replaced.



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 plumbling 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 IISA Public I aw 111-380

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Installation Instructions

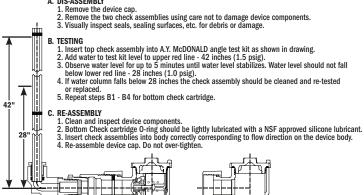
Angle Dual Check Backflow Preventers/Device

- Use only for residential and mobile home supply service or individual outlets.
- 2. The device can be installed in any position
- 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.
- Do not over-tighten O-ring cap seal or across body cylinder to avoid distortion.
- 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.
- Refer to pressure and temperature ratings on device tag.

FIELD INSPECTION AND TEST PROCEDURE

A. DIS-ASSEMBLY

Contact factory for test kit



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Top Check



Installation Instructions

Angle Dual Check Backflow Preventers/Device

- Use only for residential and mobile home supply service or individual outlets
- The device can be installed in any position.
- The device shall be installed in an accessible location to facilitate the removal for servicing and testing.
- 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.

 DO NOT use Vaseline®, plumber's grease, or any other petroleum based product on seals or O-rings.

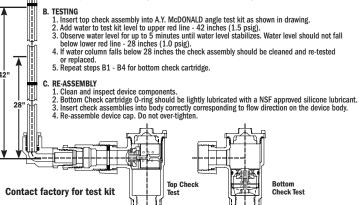
 Insure that device is installed in proper flow direction. Refer to flow direction arrow on body.

- Do not over-tighten O-ring cap seal or across body cylinder to avoid distortion.
- Any sweat fittings must be completed before installing device.
- A pressure relief valve or expansion tank is recommended downstream of device if thermal expansion conditions are possible.
- 10. 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

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



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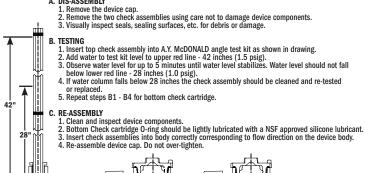
Installation Instructions

Angle Dual Check Backflow Preventers/Device

- Use only for residential and mobile home supply service or individual outlets.
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- Do not over-tighten O-ring cap seal or across body cylinder to avoid distortion.
- Any sweat fittings must be completed before installing device.
- 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



Top Check Contact factory for test kit

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