Installation Instructions
UFR - Unmeasured-Flow Reducer

PATENT PENDING A.R.I. -LICENSED BY A.R.I. FLOW CONTROL ACCESSORIES LTD.

7201 Series - Model Number Explanation

SPACE 1, 2, 3, & 4
Basic UFR valve model number:
7201 = Inline UFR

SPACE 5
(–) Component Version
C - Cartridge Version

SPACE 6
size: 3 = 3/4"

SPACE 7
Inlet connection type:
H - Meter swivel integral with saddle
J - Meter swivel integral

SPACE 8
Outlet connection type:
P - Male iron pipe integral

SPACE 9
Blank

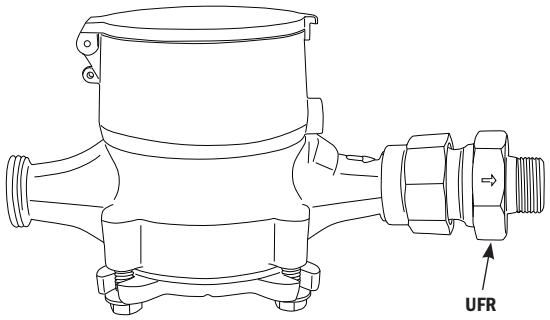
SPACE 10
Thread size of meter swivel nut

METER SIZE	THREAD SIZE	THREAD DESIGNATION
5/8	3/4"	3
5/8 x 3/4	1"	4
3/4	1"	4

SPACE 11
Sizes for outlet connections
1/2" = 1 3/4" = 3

SPACE 12
1 - Volumetric (V)
(Positive Displacement Meter)
2 - Multi-Jet Meter (M2)
Contact factory with name of meter manufacturer and model number for assistance in determining appropriate UFR

SPACE 13-16
X001 - No Backflow Prevention (NCV)



HOW TO ORDER **Not all sizes or combinations available - contact factory.**

UNIT REQUIRED (Example): - Inline UFR - Valve size 3/4" - Inlet - Meter swivel integral without saddle (5/8 x 3/4 meter) - Outlet - MNPT integral 3/4" - For Volumetric Meter

Order Model 7201-3JP 431

SPACE 1, 2, 3, & 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9	SPACE 10	SPACE 11	SPACE 12	SPACE 13-16
7201	–	3	J	P		4	3	1	

(Installation and troubleshooting procedures on opposite side)

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.

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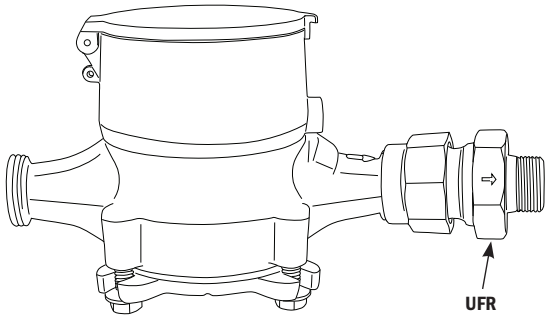

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GENERAL INFORMATION

- **WARNING** - Do **NOT** use UFR with improper meter. The type of meter the UFR is to be used with is marked on the UFR as follows:

V = Volumetric Meter M2 = Multi-Jet Meter

If uncertain of meter type being used, contact factory with meter manufacturer and model number. The marking for "-NCV" will follow the "V" or "M2" for UFR's without backflow prevention.

- The UFR **MUST** be installed so that the arrow on the UFR points in the direction of water flow.
- The UFR can be installed in either the horizontal or vertical position.
- The UFR can be installed either before or after the meter as long as the arrow points in the direction of flow.
- The UFR requires a minimum line pressure of 14.5 PSI to operate correctly.
- If used in a system with a pressure regulating valve, best results will be obtained by locating the pressure regulating valve before the UFR or at least 25 feet after the UFR.
- The UFR does not require regular maintenance.
- Do **NOT** attempt to repair or replace internal components.
- Replacing the UFR at time the meter is changed out is recommended.

ASSEMBLY INSTRUCTIONS

- Service lines should be thoroughly flushed before installing device. Excessive pipe sealant or Teflon tape may prevent the UFR from working properly. A suitable strainer should be installed upstream of the device.
- The UFR **MUST** be installed so that the arrow on the UFR points in the direction of water flow
- A pressure relief valve or an expansion tank is recommended downstream of the UFR if thermal expansion conditions are possible. Not required for No Check Valve (NCV) UFR's (X001).
- Use only on cold water service lines under 110°F. Protect from freezing.
- The UFR is not recommended for pressures exceeding 175 PSI.

TROUBLESHOOTING

Problem	Possible Causes	Solutions
No flow in the line	1. Shut off valves have not been opened after installation.	1. Check shut off valves.
	2. The product is installed the wrong way round (against the flow direction).	2. Check direction of the product, and if necessary invert it in accordance with the flow direction.
	3. Mains pressure is less than 14.5 PSI	3. The UFR requires a minimum mains pressure of 14.5 PSI to work normally.
There is a leak in the house but the UFR is not working.	1. There is a lot of air in the system following the installation.	1. Purge air from the system by opening the taps in the house and check again.
	2. The leak in the house is more than 7.9 gallons per hour (cumulative).	2. The UFR is designed to pulsate for leaks between 0 and 7.9 gallons per hour. For flows above 7.9 gallons per hour the UFR is fully open and meter should register full flow on its own.
	3. Sealant has entered the sealing area of the UFR.	3. Remove the UFR from the line and clean out the sealant.

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