

SPECIFICATION SUBMITTAL SHEET



FEATURES

Sizes: ☐ 1/4" ☐ 3/8" ☐ 1/2" ☐ 3/4" ☐ 1"

Max. pressure: 175 PSI

Max. temp: 180°F

| | | |
|--------------|--------------|---------------|
| Connections: | Threaded | ANSI B 1.20.1 |
| | Copper sweat | ANSI B 16.22 |
| | Meter thread | ANSI B 1.20.7 |

OPTIONS

(Suffixes can be combined)

- ☐ - with female NPT connection (standard)
- ☐ C - with female copper sweat connection
- ☐ FMTC - with female meter thread connection
- ☐ M - with male NPT connection
- ☐ MMTC - with male meter thread connection
- ☐ CH - chrome finish (1/4", 3/8", & 1/2" sizes)

APPLICATION

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 700 shall provide protection where a potential health hazard does not exist.

STANDARDS COMPLIANCE

- ASSE® Listed 1024
- CSA® Certified

MATERIALS

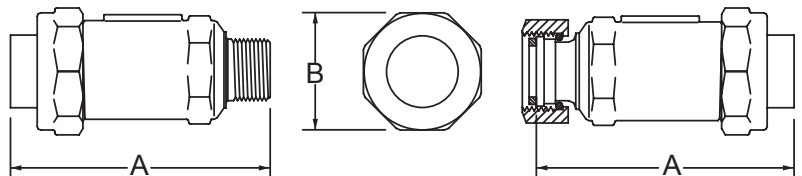
| | |
|-----------------|---|
| Main valve body | Cast Bronze ASTM B 584 |
| Elastomers | Buna Nitrile (FDA approved) |
| Polymers | Noryl®, NSF Listed (1/4"-1/2") Delrin®, NSF Listed (3/4"-1") |
| Springs | Stainless Steel, 300 Series |

ACCESSORIES

- ☐ Repair kit (RK14-700 and RK34-700)
- ☐ Thermal expansion tank (Model WXTF)

DIMENSIONS & WEIGHTS (do not include pkg.)

| MODEL SIZE | | DIMENSIONS | | | | WEIGHT | |
|---------------|----|------------|-----|-------|----|--------|-----|
| | | A | | B | | | |
| in. | mm | in. | mm | in. | mm | lbs. | kg |
| 1/4 | 6 | 3 3/16 | 81 | 1 3/4 | 45 | 1 | 0.5 |
| 3/8 | 9 | 3 3/16 | 81 | 1 3/4 | 45 | 1 | 0.5 |
| 1/2 | 15 | 3 3/16 | 81 | 1 3/4 | 45 | 1 | 0.5 |
| 3/4 | 20 | 4 1/2 | 114 | 2 | 51 | 2 | 0.9 |
| 1 | 25 | 4 1/2 | 114 | 2 | 51 | 2 | 0.9 |



Model 700 • Connections Legend

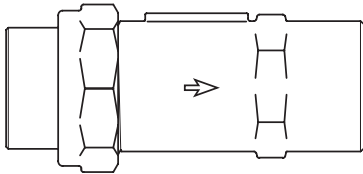
U = Indicates location of "union" connection
 FNPT = Female National Pipe Tapered Thread
 MNPT = Male National Pipe Tapered Thread
 FC = Female Copper Sweat
 FMTC = Female Meter Thread Connection (National Hose Straight Thread)
 MMTC = Male Meter Thread Connection (National Hose Straight Thread)

Meter Thread Connections

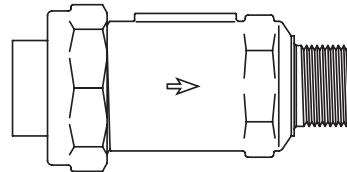
When ordering a Model 700 with meter thread connections, order the connection one size larger than the water meter. For example, if your water meter is 1/2" or 5/8" your connection size would be a 3/4" meter thread. If the water meter is 5/8" x 3/4" or 3/4", your connection size would be 1" meter thread.

Configurations

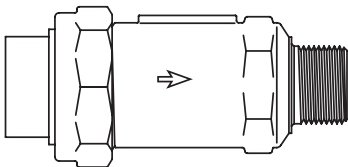
ALL CONFIGURATIONS ARE REVERSIBLE



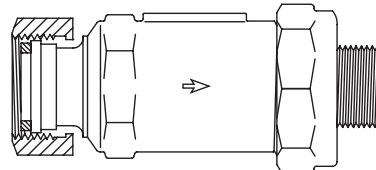
| FEMALE UNION INLET X FEMALE OUTLET | | |
|------------------------------------|-----------|---------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 3/4" FNPT | 3/4" FNPT | 34UFX34F-700 |
| 3/4" FMTC | 3/4" FNPT | 34UFMX34F-700 |
| 1" FNPT | 1" FNPT | 1UFX1F-700 |
| 1" FNPT | 3/4" FNPT | 1UFX34F-700 |
| 1" FMTC | 1" FNPT | 1UFMX1F-700 |
| 1" FMTC | 3/4" FNPT | 1UFMX34F-700 |



| FEMALE UNION INLET X MALE OUTLET | | |
|----------------------------------|-----------|----------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 3/4" FNPT | 3/4" MNPT | 34UFX34M-700 |
| 3/4" FNPT | 3/4" MMTC | 34UFX34MM-700 |
| 3/4" FMTC | 3/4" MNPT | 34UFMX34M-700 |
| 3/4" FMTC | 3/4" MMTC | 34UFMX34MM-700 |
| 3/4" FNPT | 1" MMTC | 34UFX1MM-700 |
| 3/4" FMTC | 1" MNPT | 34UFMX1M-700 |
| 1" FNPT | 1" MNPT | 1UFX1M-700 |
| 1" FNPT | 1" MMTC | 1UFX1MM-700 |
| 1" FMTC | 1" MNPT | 1UFMX1M-700 |
| 1" FMTC | 1" MMTC | 1UFMX1MM-700 |
| 1" FNPT | 3/4" MNPT | 1UFX34M-700 |
| 1" FNPT | 3/4" MMTC | 1UFX34MM-700 |
| 1" FMTC | 3/4" MNPT | 1UFMX34M-700 |
| 1" FMTC | 3/4" MMTC | 1UFMX34MM-700 |



| FEMALE UNION "COPPER SWEAT" INLET X MALE | | |
|--|-----------|---------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 3/4" FC | 3/4" MNPT | 34UFCX34M-700 |
| 3/4" FC | 1" MNPT | 34UFCX1M-700 |
| 1" FC | 1" MNPT | 1UFCX1M-700 |



| FEMALE "METER" UNION INLET X MALE UNION | | |
|---|----------------|--------------|
| INLET (UNION) | OUTLET (UNION) | PART NUMBER |
| 1" FMTC | 1" MNPT | 1UFMX1UM-700 |

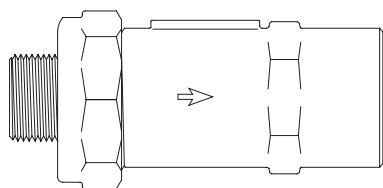
Model 700 • How to Order

The Model 700 is available in a variety of inlet and outlet sizes, thread types and connection types. Simply determine the inlet and outlet connection as well as the location of the union, then, select from the available configurations. The inlet connection will always be specified first in the model number. A union inlet connection with integral body outlet connection is standard. For connections other than shown below, such as BSP threads, contact your local WILKINS representative or factory.

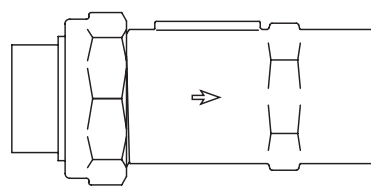
Example: A dual check valve is to be located on the outlet side of a 3/4" water meter with male inlet and outlet connections (see "Meter Thread Connections" on previous page). The union will be located on the inlet side of the valve. The outlet requires a 1" female NPT connection.

| | | |
|-------|--------|-------------|
| Inlet | Outlet | Model No. |
| 1UFM | 1F | 1UFMX1F-700 |

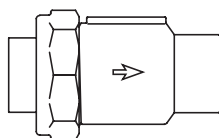
Configurations (cont.)



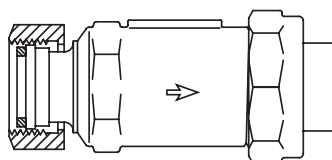
| MALE UNION INLET X FEMALE OUTLET | | |
|----------------------------------|---------|-------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 1" MNPT | 1" FNPT | 1UMX1F-700 |



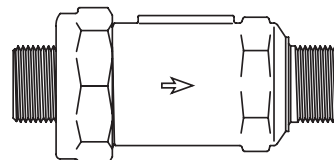
| FEMALE UNION "COPPER SWEAT" INLET X FEMALE | | |
|--|-----------|---------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 3/4" FC | 3/4" FNPT | 34UFCX34F-700 |
| 3/4" FC | 1" FNPT | 34UFCX1F-700 |
| 1" FC | 1" FNPT | 1UFCX1F-700 |
| 1" FC | 3/4" FNPT | 1UFCX34F-700 |



| FEMALE UNION INLET X FEMALE OUTLET | | |
|------------------------------------|-----------|----------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 1/4" FNPT | 1/4" FNPT | 14UFX14F-700 |
| 3/8" FNPT | 3/8" FNPT | 38UFX38F-700 |
| 1/2" FNPT | 1/2" FNPT | 12UFX12F-700 |
| 1/2" FC | 1/2" FC | 12UFCX12FC-700 |



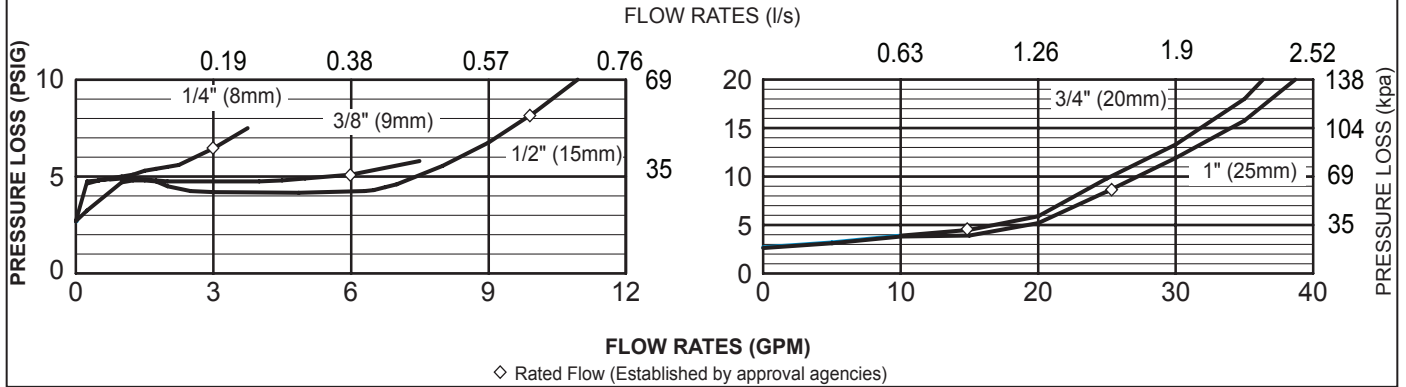
| FEMALE "METER UNION INLET X FEMALE UNION | | |
|--|----------------|---------------|
| INLET (UNION) | OUTLET (UNION) | PART NUMBER |
| 1" FMTC | 3/4" FNPT | 1UFMX34UF-700 |
| 1" FMTC | 1" FNPT | 1UFMX1UF-700 |
| 1" FMTC | 1" FMTC | 1UFMX1UFM-700 |



| MALE UNION INLET X MALE OUTLET | | |
|--------------------------------|---------|-------------|
| INLET (UNION) | OUTLET | PART NUMBER |
| 1" MNPT | 1" MNPT | 1UMX1M-700 |

FLOW CHARACTERISTICS

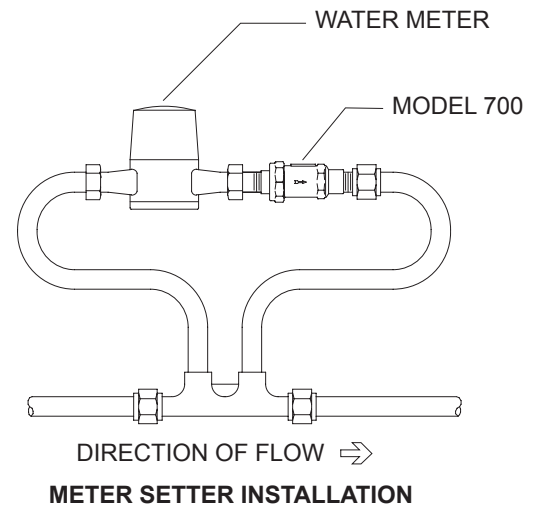
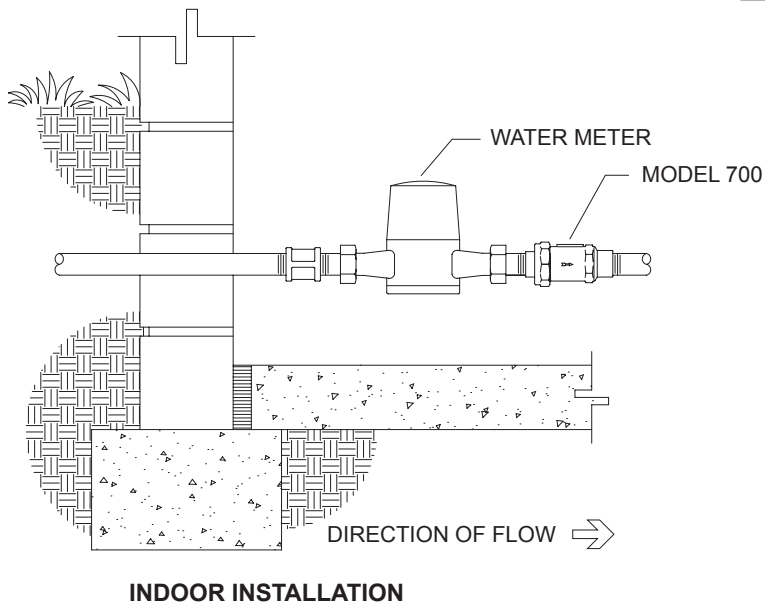
MODEL 700 1/4", 3/8", 1/2", 3/4" & 1" (STANDARD & METRIC)



TYPICAL INSTALLATION

Local codes shall govern installation requirements. Unless otherwise specified, the installation shall be in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The installation shall be made so that no part of the unit can be submerged.

| Capacity thru Schedule 40 Pipe | | | | |
|--------------------------------|----------|------------|-----------|-----------|
| Pipe size | 5 ft/sec | 7.5 ft/sec | 10 ft/sec | 15 ft/sec |
| 1/8" | 1 | 1 | 2 | 3 |
| 1/4" | 2 | 2 | 3 | 5 |
| 3/8" | 3 | 4 | 6 | 9 |
| 1/2" | 5 | 7 | 9 | 14 |
| 3/4" | 8 | 12 | 17 | 25 |
| 1" | 13 | 20 | 27 | 40 |
| 1 1/4" | 23 | 35 | 47 | 70 |
| 1 1/2" | 32 | 48 | 63 | 95 |
| 2" | 52 | 78 | 105 | 167 |



SPECIFICATIONS

The Dual Check Valve Backflow Preventer shall be ASSE® Listed 1024. The main body shall be cast bronze (ASTM B 584), the check assemblies shall be NORYL® (1/4"-1/2") or DELRIN® (3/4"-1"). The seal ring and o-rings shall be Buna Nitrile. The Dual Check Valve shall be a WILKINS Model 700.