

SPECIFICATION SUBMITTAL SHEET



**FEATURES**

Sizes:  3/4"  1"

Maximum working water pressure 175 PSI  
 Maximum working water temperature 180°F  
 Threaded connections ANSI B1.20.1  
 Copper connections ANSI B16.22

**OPTIONS**

(Suffixes can be combined)

- F - with FNPT (female) threaded union inlet connection (standard)
- C - with FC (female) copper sweat union inlet connection
- FM - with FMTC (female) meter thread union inlet connection
- M - with MNPT (male) threaded union inlet connection

**ACCESSORIES**

- Repair kit (RK-705)
- Thermal expansion tank (Model XT)

**APPLICATION**

Designed for installation on potable water lines to protect against both backsiphonage and back pressure of polluted water into the potable water supply. The Model 705 shall provide protection where a potential health hazard does not exist. Applications include indoor and outdoor meter box installations as primary domestic water protection. Standard lay length allows for retrofit of existing dual checks. Lead-free body and checks ensure safe drinking water while providing maximum corrosion resistance.

**STANDARDS COMPLIANCE**

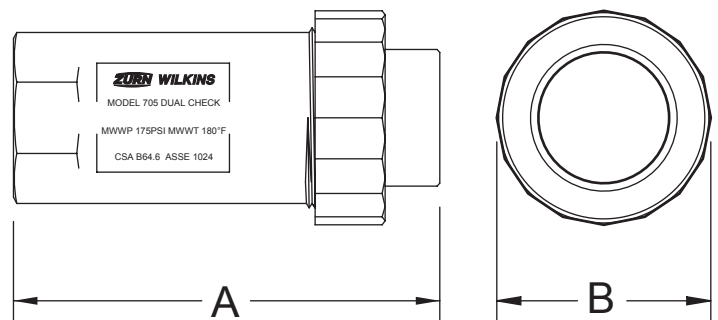
- ASSE® Listed 1024 (horizontal & vertical flow-up)
- CSA® Certified (horizontal & vertical flow-up)
- California AB 1953 Compliant

**MATERIALS**

Main valve body Noryl®, NSF Listed  
 Check modules Delrin®, NSF Listed  
 Elastomers Buna Nitrile (FDA approved)  
 Springs Stainless steel, 300 series

**DIMENSIONS & WEIGHTS (do not include pkg.)**

SIZE		DIMENSION (approximate)				WEIGHT	
		A		B			
in	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	4 1/2	114	2 3/16	56	1	0.5
1	25	4 1/2	114	2 3/16	56	1	0.5



# Model 705 • 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)

## Configurations

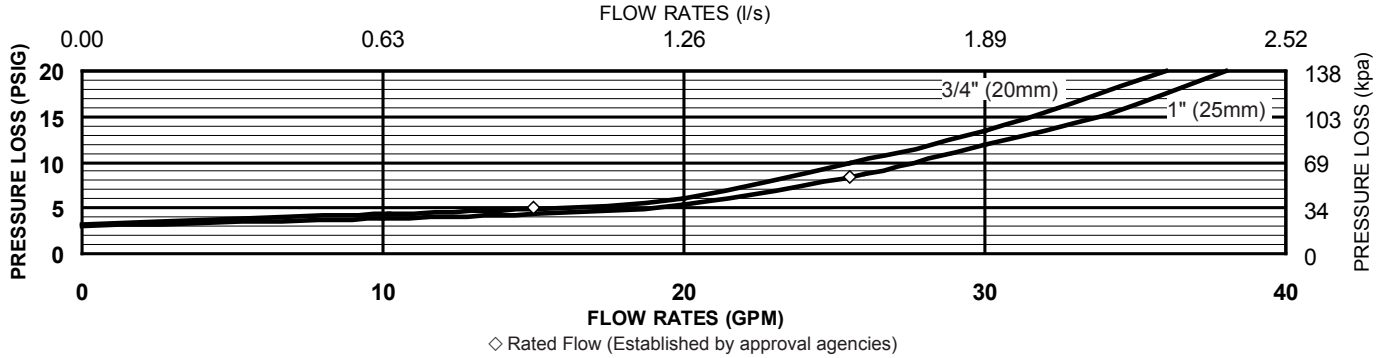
ALL CONFIGURATIONS ARE REVERSIBLE

FEMALE UNION INLET X FEMALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FNPT	3/4" FNPT	34UFX34F-705
3/4" FMTC	3/4" FNPT	34UFMX34F-705
1" FNPT	1" FNPT	1UFX1F-705
1" FNPT	3/4" FNPT	1UFX34F-705
1" FMTC	1" FNPT	1UFMX1F-705
1" FMTC	3/4" FNPT	1UFMX34F-705

FEMALE UNION "COPPER SWEAT" INLET X FEMALE OUTLET		
INLET (UNION)	OUTLET	PART NUMBER
3/4" FC	3/4" FNPT	34UFCX34F-705
3/4" FC	1" FNPT	34UFCX1F-705
1" FC	1" FNPT	1UFCX1F-705
1" FC	3/4" FNPT	1UFCX34F-705
MALE UNION INLET X FEMALE OUTLET		
1" MNPT	1" FNPT	1UMX1F-705

## FLOW CHARACTERISTICS

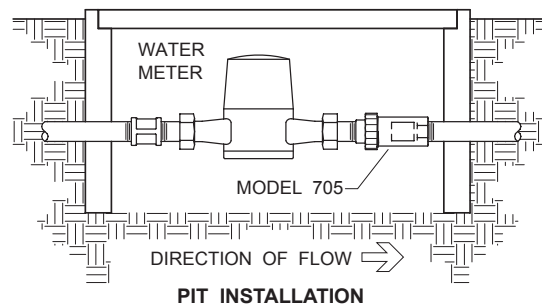
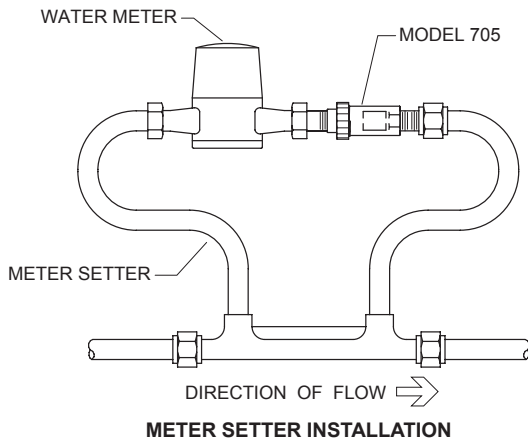
### MODEL 705, 3/4" & 1" (STANDARD & METRIC)



## TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the Model 705 shall be mounted with sufficient side clearance for maintenance.

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® 1024 Listed and CSA B64.6 Listed. The main body shall be Noryl® and utilize a union female inlet thread connection. The Dual Check Valve Backflow Preventer shall be a WILKINS Model 705.