Model 705
Dual Check Valve

TAG

Application
Ideal for use where Lead-Free* valves are required. 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.



1" 705

Standards Compliance
- ASSE® Listed 1024 (horizontal and vertical flow-up)
- CSA® Certified B64.6 (horizontal and vertical flow-up)
- Meets NSF/ANSI/CAN 61* * 0.25% maximum weighted average lead content

Materials
Main Valve Body	Reinforced Nylon (FDA approved)
Check modules	Delrin®
Elastomers	Buna Nitrile (FDA approved)
Springs	300 series Stainless Steel

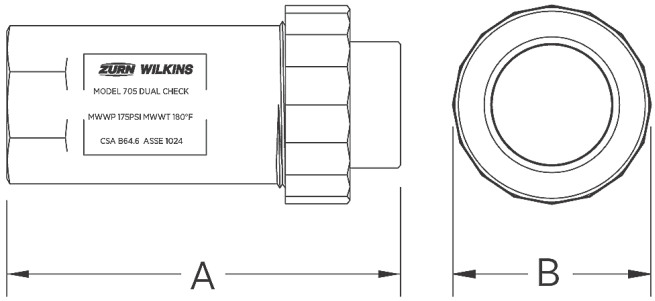
Features
Sizes	3/4", 1"
Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Threaded connections	ANSI B1.20.1
Copper connections	ANSI B16.22

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 Kits (3/4" - 1")
- Thermal Expansion Tank XT

Dimensions & Weights (do not include pkg.)

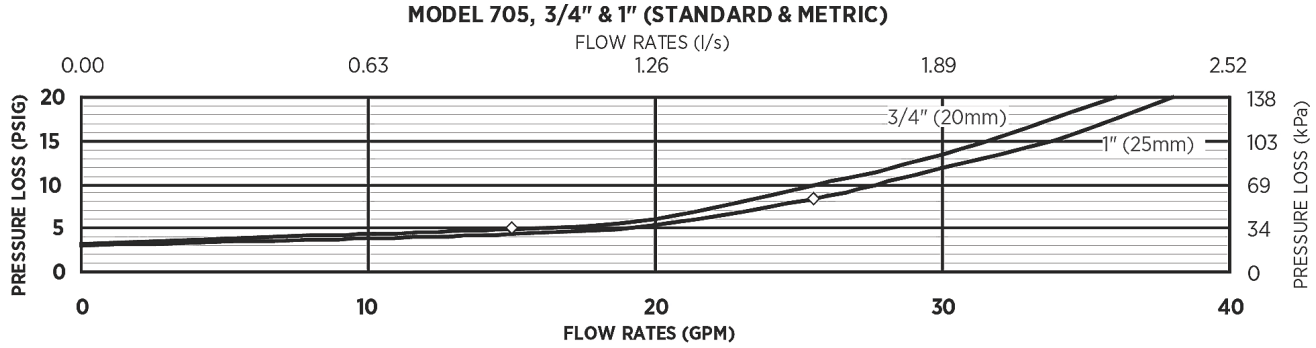
SIZE		DIMENSION (approximate)				WEIGHT	
		A		B			
in	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	4 1/2	114	2 3/16	56	1	0.5
1	25	4 1/2	114	2 3/16	56	1	0.5



Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

Flow Characteristics

◇ Rated Flow (established by approval agencies)



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

Model 705 • Connections Legend

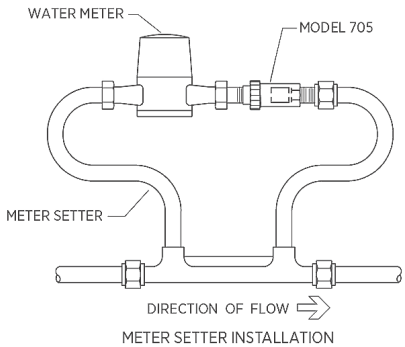
U = Indicates location of "union" connection
FNPT = Female National Pipe Tapered Thread
MNPT = Male National Pipe Tapered Thread
FC = Female Copper Sweat
FMTC = Female Meter Thread Connection (National Hose Straight Thread)

Configurations

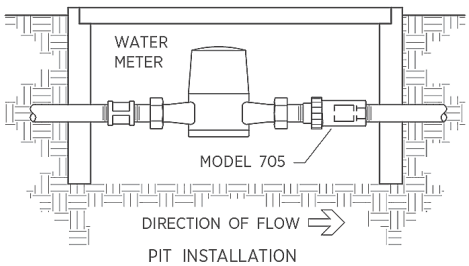
ALL CONFIGURATIONS ARE REVERSIBLE

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



METER SETTER INSTALLATION



PIT INSTALLATION

Installation and Maintenance Instructions - Model 705

Specifications

The Dual Check Valve Backflow Preventer shall be certified to NSF/ANSI 61, ASSE® 1024 Listed, CSA B64.6 Listed. The main body shall be Nylon® and utilize a union female inlet thread connection. The Dual Check Valve Backflow Preventer shall be a WILKINS Model 705.