



Model 705

Dual Check Valve

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.

Standards compliance

- ASSE® Listed 1024 (horizontal & vertical flow-up)
- CSA® Certified (horizontal & vertical flow-up)
- Meets the requirements of NSF/ANSI 61*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials

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

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



LEAD FREE



NSF/ANSI/CAN 61

Options

(Suffixes can be combined)

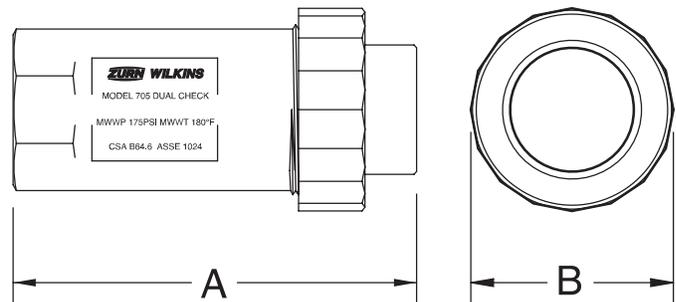
- F - with FNPT (female) threaded union inlet connection (standard)
- C - with FC (female) copper sweat union inlet connection
- FM - with FMTC (female) meter thread union inlet connection
- M - with MNPT (male) threaded union inlet connection

Accessories

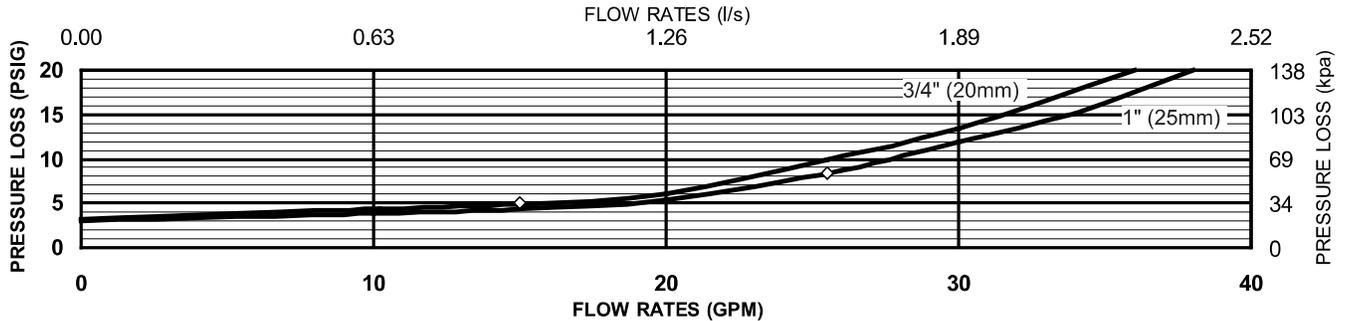
- Repair kit (RK-705)
- Thermal expansion tank (Model XT)

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, 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

Model 705 • Connections Legend

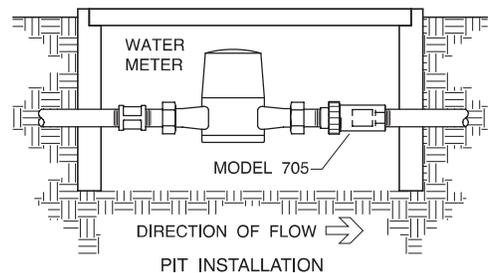
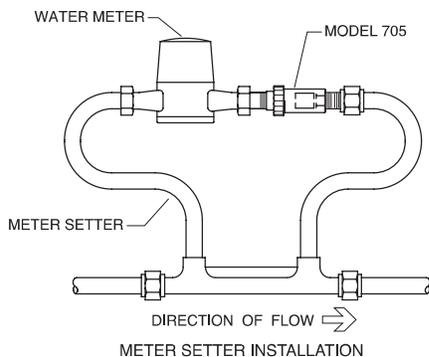
- U = Indicates location of "union" connection
- FNPT = Female National Pipe Tapered Thread
- MNPT = Male National Pipe Tapered Thread
- FC = Female Copper Sweat
- FMTC = Female Meter Thread Connection (National Hose Straight Thread)

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



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 ZURN WILKINS Model 705.