

WATTS 709/ LF709

SIZE

3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 6", 8", 10"

DESCRIPTION

This is a double check assembly. The 3/4"-2" were produced from 1979-1993. The 2 1/2"-10" sizes began production in 1979. The 3/4"-3" size body is constructed of bronze. In the 3/4"-2" sizes, the internal hardware parts are made of plastic and bronze. Watts also has a hot water version available on the 3/4"-2" sizes. This was designated by an HW after the model number e.g.: 709HW. The 2 1/2"-10" size bodies are cast iron with a fused epoxy coating. The 2 1/2"-3" size are available in either bronze or fused epoxy coated cast iron. Internal hardware parts are made of bronze and stainless steel. Check seats are replaceable on all sizes and springs are contained on all sizes when covers are removed. In 2010 a LF model was introduced in sizes 2 1/2"-10" which replaced the leaded bronze parts with stainless steel to make a lead free assembly. Rubber repair kits are the same for the LF and non LF assemblies.

BASIC REPAIR KIT

The repair kit contains all disc holders, or discs and O-rings.

<u>SIZE</u>	<u>KIT NO</u>
3/4"-1"	709-RT075
1 1/2"-2"	LF709-RT150
2 1/2"-3"	709-RT250
4"	709-RT400
6"	709-RT600
8"	709-RT800
10"	709-RT001

IMPORTANT FEATURES

~3/4"-3" has a bronze body

~2 1/2"-10" has a fused epoxy coated cast iron body

~Replaceable seats

~Contained springs

~Factory repair information enclosed



The 709 Series Double Check Valve Assembly is designed to prevent the reverse flow in water lines and to prevent non-potable water from entering into the potable water system. This series can be applied to a variety of installations where the degree of hazard is considered to be low to intermediate and where approved for specific installations.

MATERIALS

Bronze body construction — Series 709 Celcon® check seats, Series 709 HW stainless steel check seats. Stainless steel, shafts and flange bolts — durable tight-seating, rubber check valve assemblies. Bronze body ball valve test cocks.

Standardly furnished with N.P.T. connections and non-rising stem (NRS) gate valve shut-offs.

PRESSURE-TEMP.

Series 709 suitable for supply pressure up to 175 PSI and water temperatures up to 140°F.

Suffix HW suitable for water temperatures up to 210°F.

OPTIONS: (Options can be combined)

Suffix:

S - with bronze strainer.

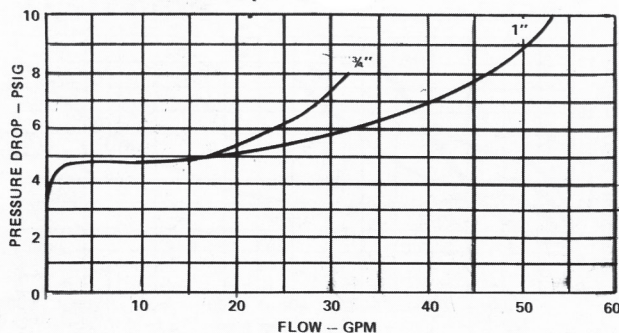
HW - with stainless steel check modules for hot water to 210°F and aggressive water conditions.

QT - with ¼ turn, full port, resilient seated, bronze ball valve shut-offs.

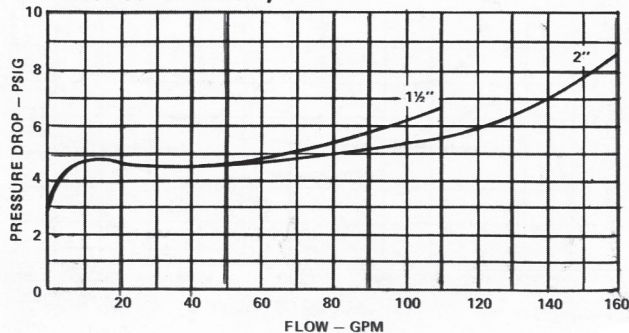
LF - without shut-off valves.

CAPACITY

No. 709 Sizes ¾", 1"

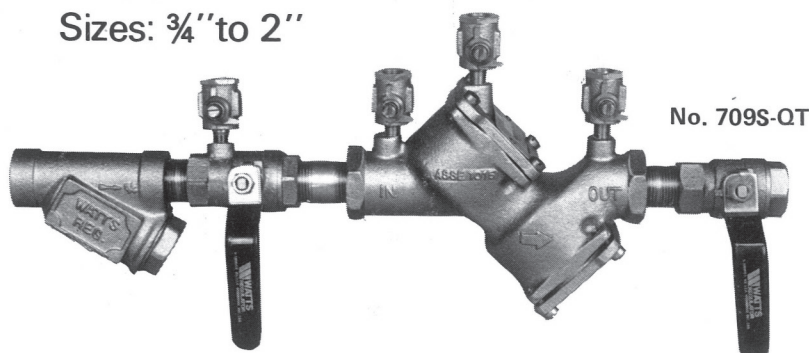


No. 709 Sizes 1½", 2"



709 Series

Sizes: ¾" to 2"



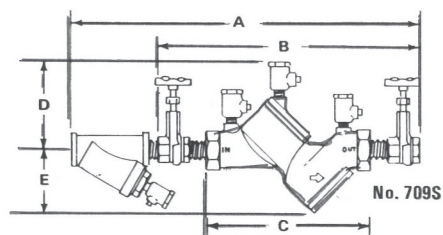
No. 709S-QT

No. 709 Series features a modular design concept which facilitates complete maintenance and assembly by retaining the spring load access. The first and second check modules are interchangeable. All sizes are standardly equipped with gate valves and ball type test cocks. All sizes can be installed horizontally or vertically.

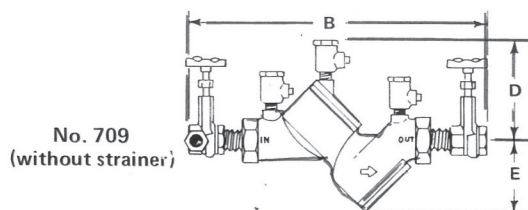
FEATURES

- Bronze body construction
- Modular construction with replaceable seats
- Ball valve test cocks
- Low pressure drop
- Available with bronze strainers
- Compact for economy combined with performance
- Design simplicity for easy maintenance

DIMENSIONS-WEIGHTS



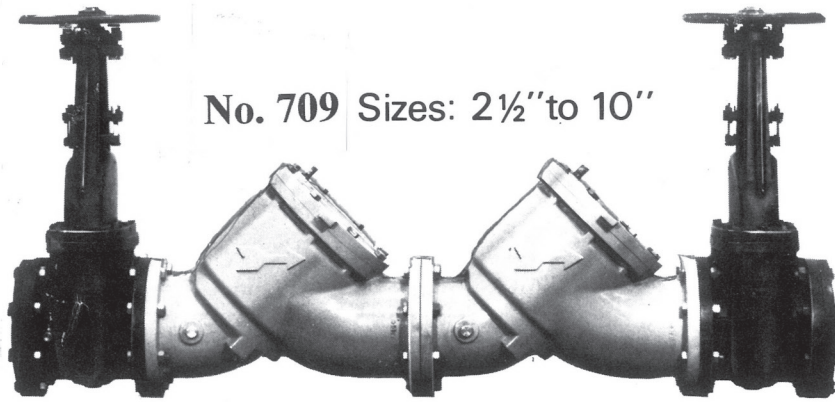
No. 709S
(with strainer)



No. 709
(without strainer)

SIZE	DIMENSIONS (Inches)						Total Weight (Lbs.)	
	A	B	C	D	E	Width	Less Strainer	With Strainer
¾"	16	12¼	7⅞	4	2⅞	2¾	7¼	9
1"	17¾	13¾	7⅞	4	2⅞	2¾	8½	11½
1¼"	21¾	16½	10⅞	5	4⅞	4¼	22	26
1½"	23	16¾	10⅞	5	4⅞	4¼	22¾	27¼
2"	24¾	17¾	10⅞	5	4⅞	4¼	24½	32½

QT								
¾"	15¾	11¾	7⅞	4	2⅞	2¾	7¼	9
1"	18	13	7⅞	4	2⅞	2¾	8½	11½
1¼"	21½	16½	10⅞	5	4⅞	4¼	22	26
1½"	23	17¼	10⅞	5	4⅞	4¼	22¾	27¼
2"	25¾	19	10⅞	5	4⅞	4¼	24½	32½



No. 709 larger sizes are similar to the smaller sizes in the modular design concept which facilitates maintenance and assembly access. The first and second check modules are interchangeable. All sizes are standardly equipped with gate valves and ball type test cocks. All sizes can be installed horizontally or vertically.

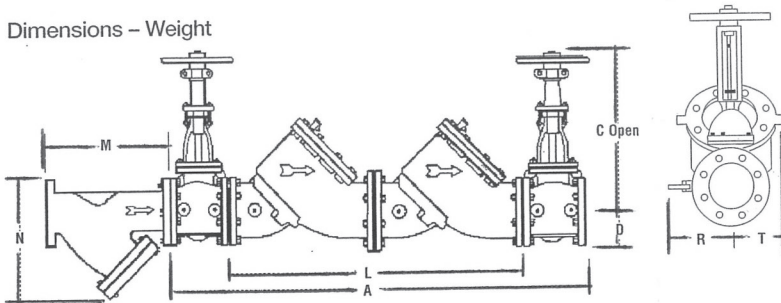
FEATURES

- Body construction all bronze (2½" and 3" Optional) Epoxy coated cast iron 2 1/2" - 10"
- Removeable bronze seats
- Stainless steel internal parts
- Maximum flow at low pressure drop
- Compact for economy combined with performance
- Design simplicity for easy maintenance

LF709 Materials:

Check Valve Bodies: Epoxy Coated Cast Iron
Seats: Stainless Steel

Dimensions - Weight



MATERIALS

2½" and 3" sizes - all bronze construction with stainless steel trim. (Optional)

4" and 6" sizes - epoxy coated (FDA approved) cast iron check valve bodies with bronze seats.

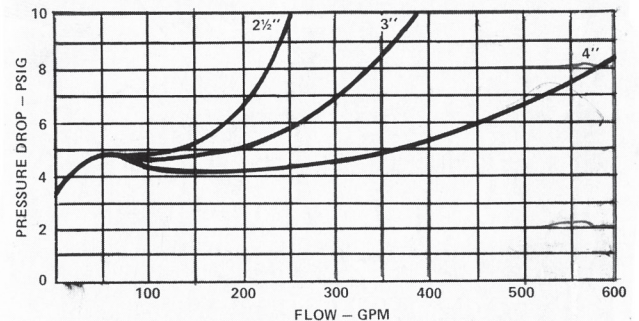
8" and 10" sizes - epoxy coated cast iron check valve bodies with bronze seats. All sizes furnished with bronze body ball valve test cocks.

PRESSURE-TEMPERATURE

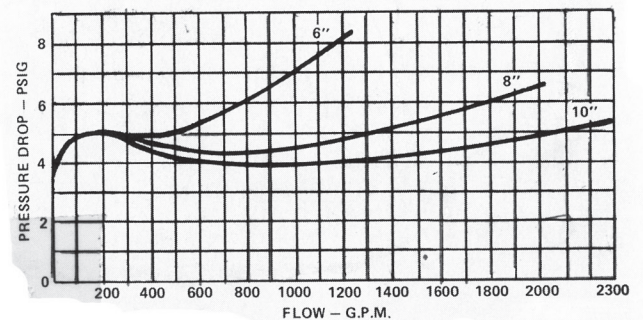
Sizes 2½" through 10" are suitable for supply pressures up to 175 PSI and water temperatures to 110°F max.

CAPACITY

No. 709 Sizes 2½", 3", 4"



No. 709 Sizes 6", 8", 10"



SIZE (DN)		DIMENSIONS															
		A		C (OSY)		C (NRS)		D		L		U*		M		N	
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>
2½	65	39⅜	1000	16⅜	416	9⅜	238	3½	89	24⅞	613	11	279	10	254	6½	165
3	80	40⅜	1025	18⅞	479	10¼	260	3¾	95	24⅞	613	14	356	10⅞	257	7	178
4	100	52⅜	1330	22¾	578	12⅜	310	4½	114	34⅞	867	14	356	12⅞	308	8¼	210
6	150	62⅞	1597	30⅞	765	16	406	5½	140	41⅞	1057	16	406	18½	470	13½	343
8	200	75	1905	37¾	959	19 ¹⁵ / ₁₆	506	6½	165	52	1321	21	533	21⅞	549	15½	394
10	250	90	2286	45¾	1162	23 ¹³ / ₁₆	605	8	203	64	1626	25	635	26	660	18½	470

