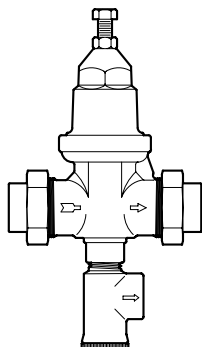


# Model BR4EC

Water Pressure Reducing Valve  
with Thermal Expansion Control Valve



## APPLICATION

Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The balanced piston design enables the regulator to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing protection from inlet pressure changes. The expansion control feature allows excessive downstream pressure caused by thermal expansion to be vented to a safe disposal.

## FEATURES

Sizes: ☐ 1/2" ☐ 3/4" ☐ 1"

Maximum working water pressure 400 psi  
Maximum working water temperature 180°F  
Reduced pressure range 15 psi to 100 psi  
PRV factory preset 55 psi  
Expansion control valve factory preset 125 psi  
End connections Threaded ANSI B1.20.1

## OPTIONS

(Suffixes can be combined)

- ☐ - standard with single union connections
- ☐ C - copper sweat connection
- ☐ DU - with double union connections, FNPT
- ☐ DUC - with double union connections, copper sweat
- ☐ DULU - with double integral connections and FNPT (less tailpieces and union nuts)

## ACCESSORIES

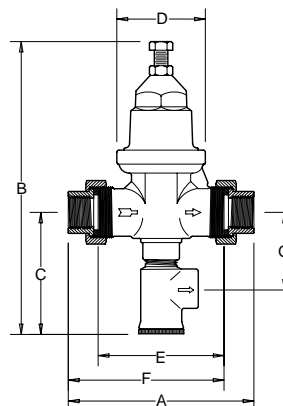
- ☐ Repair kit

## STANDARDS COMPLIANCE

- ☐ ASSE® Listed 1003
- ☐ IAPMO® Listed
- ☐ CSA® Certified

## MATERIALS

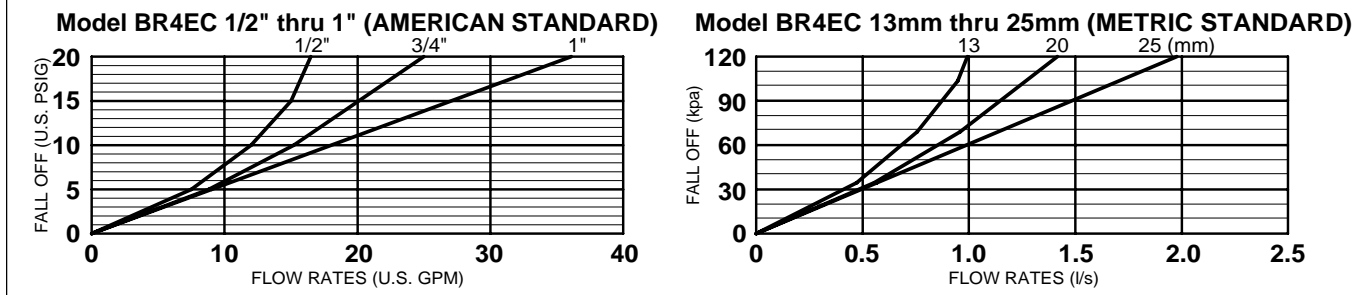
Main valve body Cast Bronze ASTM B 584  
Fasteners 300 Series Stainless Steel  
Stem Brass ASTM B16  
Elastomers Buna Nitrile, FDA(CFR) 21, 177.2600  
EPDM, FDA(CFR) 21, 177.2600  
Strainer screen 300 Series Stainless Steel



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

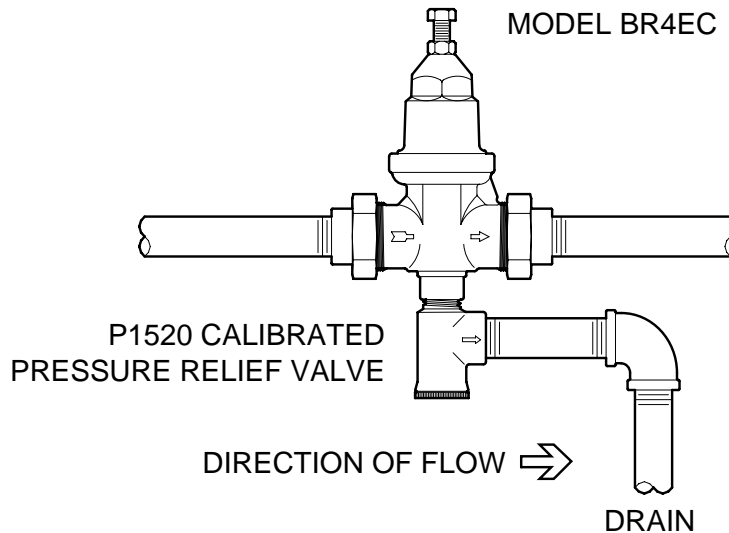
SIZE		CONNECTIONS	DIMENSIONS (approximate)														WEIGHT.	
			A		B		C		D		E		F		G			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1/2	15	SINGLE UNION	N/A	N/A	8 3/4	222	3 1/2	90	2 1/2	65	N/A	N/A	4 3/8	111	2 1/4	57	3	1.5
1/2	15	LESS UNION	N/A	N/A	8 3/4	222	3 1/2	90	2 1/2	65	3 1/2	90	N/A	N/A	2 1/4	57	3	1.5
1/2	15	DOUBLE UNION	5 1/4	153	8 3/4	222	3 1/2	90	2 1/2	65	N/A	N/A	N/A	N/A	2 1/4	57	4	2.0
3/4	20	SINGLE UNION	N/A	N/A	8 3/4	222	3 1/2	90	2 1/2	65	N/A	N/A	4 3/8	111	2 1/4	57	3	1.5
3/4	20	LESS UNION	N/A	N/A	8 3/4	222	3 1/2	90	2 1/2	65	3 1/2	90	N/A	N/A	2 1/4	57	3	1.5
3/4	20	DOUBLE UNION	5 3/8	137	8 3/4	222	3 1/2	90	2 1/2	65	N/A	N/A	N/A	N/A	2 1/4	57	4	2.0
1	25	SINGLE UNION	N/A	N/A	10 1/4	260	3 3/4	95	3	75	N/A	N/A	4 15/16	125	2 1/2	64	4	2.0
1	25	LESS UNION	N/A	N/A	10 1/4	260	3 3/4	95	3	75	4	100	N/A	N/A	2 1/2	64	4	2.0
1	25	DOUBLE UNION	5 7/8	149	10 1/4	260	3 3/4	95	3	75	N/A	N/A	N/A	N/A	2 1/2	64	5	2.5

## FLOW CHARACTERISTICS



## TYPICAL INSTALLATION

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The Model BR4EC may be installed in any position. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (ie: 200 psi inlet reduced to 50 psi outlet). **CAUTION:** Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



## TYPICAL INSTALLATION

## SPECIFICATIONS

The pressure reducing valve shall be ASSE® Listed 1003 and consist of a bronze body and composite bell housing and shall have a bolt to adjust the downstream pressure. The pressure reducing valve shall be of the balanced piston design and shall reduce in both flow and no-flow conditions. The bell housing shall be threaded to the body and shall not require the use of ferrous screws. A thermal expansion control valve shall be an integral part of the pressure reducing valve. The pressure reducing/expansion control valve shall be a WILKINS Model BR4EC.