

# FLOMATIC RPZ & RPZII

# FLOMATIC RPZE & RPZEII

## SIZE

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

## DESCRIPTION

This is a reduced pressure assembly. Production began in 1993 The division that produced backflow preventers was purchased by Watts Regulator in 2011. Production of these assemblies was discontinued in 2013. The 1/2"-2" body is made of bronze and the 2 1/2"-10" size is a ductile iron body that is fused epoxy coated. There is a single cover on the top. The checks are modular in design. Check modules are held in the body with spring clips. There is tension from the relief valve spring when the cover is removed. All seats are replaceable. In 1996 the model RPZII was introduced in 1/2" and 3/4" sizes. In 2000 the 1 1/4" RPZ and 1 1/2" RPZII were introduced. The RPZII is smaller in size than the RPZ model but is similar in construction. In 2002 the model RPZE and RPZEII was introduced in sizes 3/4"-2". This model is similar to the RPZ and RPZII except the body is made of an unleaded bronze alloy. Most repair parts are the same.

## BASIC REPAIR KIT

Repair kit contains discs, diaphragm, and O'rings

<u>SIZE</u>	<u>KIT NO</u>	<u>AIR GAP DRAIN</u>
1/2"-3/4" RPZII & RPZEII	B93RK99 ♦	N/A
3/4"-1" RPZ & RPZE	B92RK00 ♦	N/A
1 1/4" RPZ & RPZE	B92RK02	N/A
1 1/2"-2" RPZ & RPZE	B92RK03 ♦	N/A
1 1/2" RPZII & RPZEII	B93RK03	N/A
2 1/2"-3" RPZ	B92RK05 ♦	84735
4"	B92RK07 ♦	84737
6"	B92RK09 ♦	84737
8"	B92RK10	84737
10"	B92RK11 ♦	84737

## IMPORTANT FEATURES

- ~Bronze body 1/2"-2"
- ~Fused epoxy ductile iron body 2 1/2"-3"
- ~Modular check design
- ~Single access cover
- ~Factory repair information enclosed

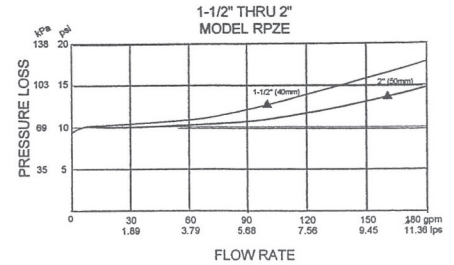
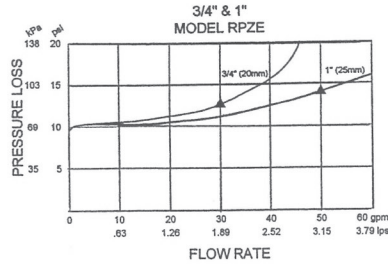
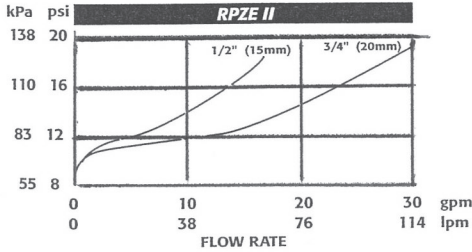
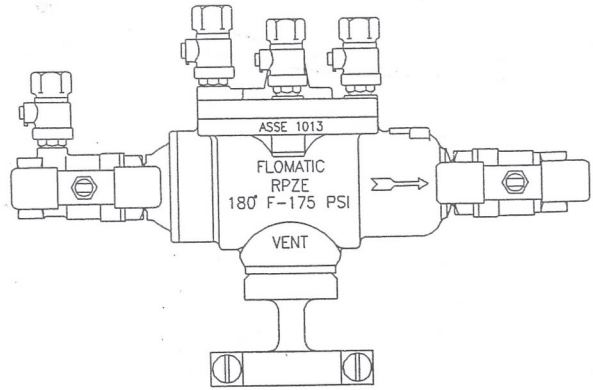


### RPZE / RPZEII

Maximum working water pressure — 175 PSI (1200 kPa)  
 Maximum working water temperature — 180°F  
 Hydrostatic Test Pressure — 350 PSI (2400 kPa)

#### Materials

Valve Body — Unleaded Bronze (Federalloy I-836)  
 Access cover — Unleaded Bronze (Federalloy I-836)  
 Polymers — Noryl™, NSF Listed  
 Elastomers — Silicone  
 Springs — Stainless Steel



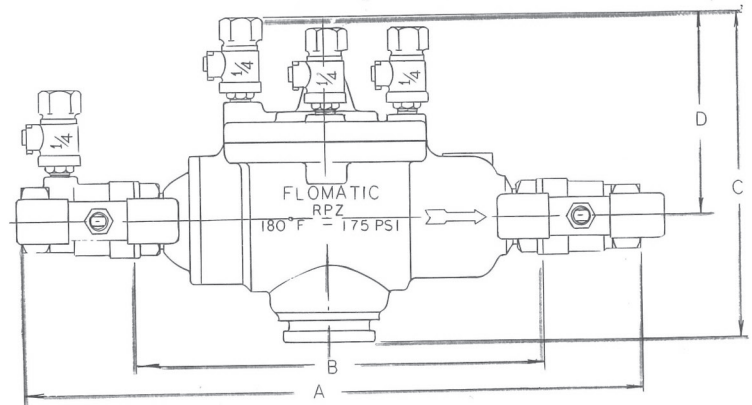
### RPZ / RPZII

**Pressure Max: 175 PSI**  
**Temperature Max: 180°F**

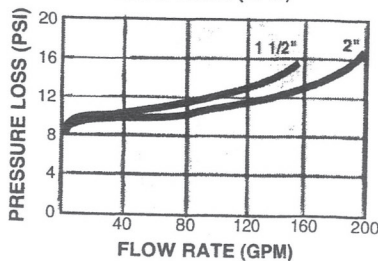
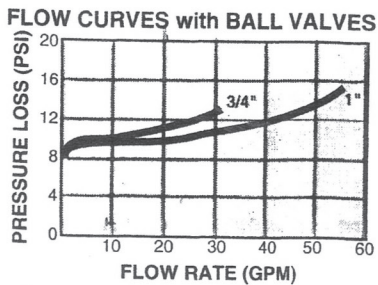
#### Description

Body — Bronze  
 Springs — Stainless Steel  
 Poppets — Bronze  
 Check Valve Seats — Noryl®  
 Spring Clips — Stainless Steel  
 Relief Valve Assembly — Noryl®  
 Relief Valve Seat — Stainless Steel  
 Seat Discs — Silicone Rubber  
 Diaphragm — Buna/Nylon  
 Fasteners — Stainless Steel

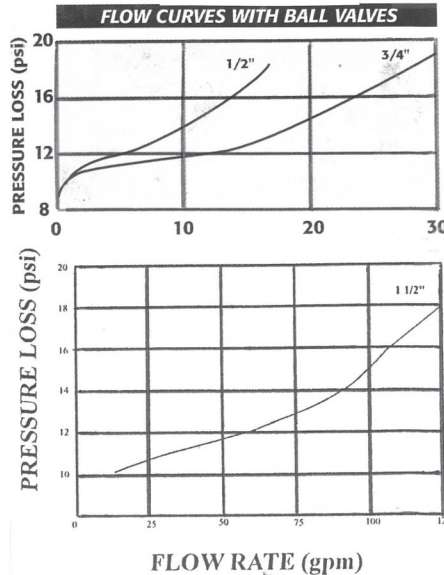
#### Materials



#### RPZ



#### RPZII

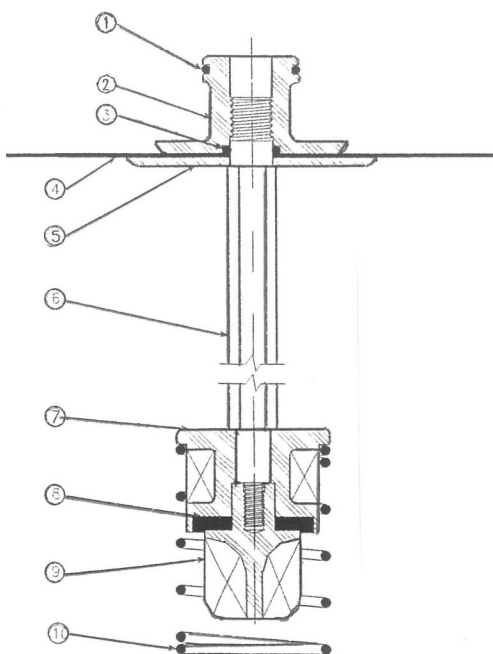
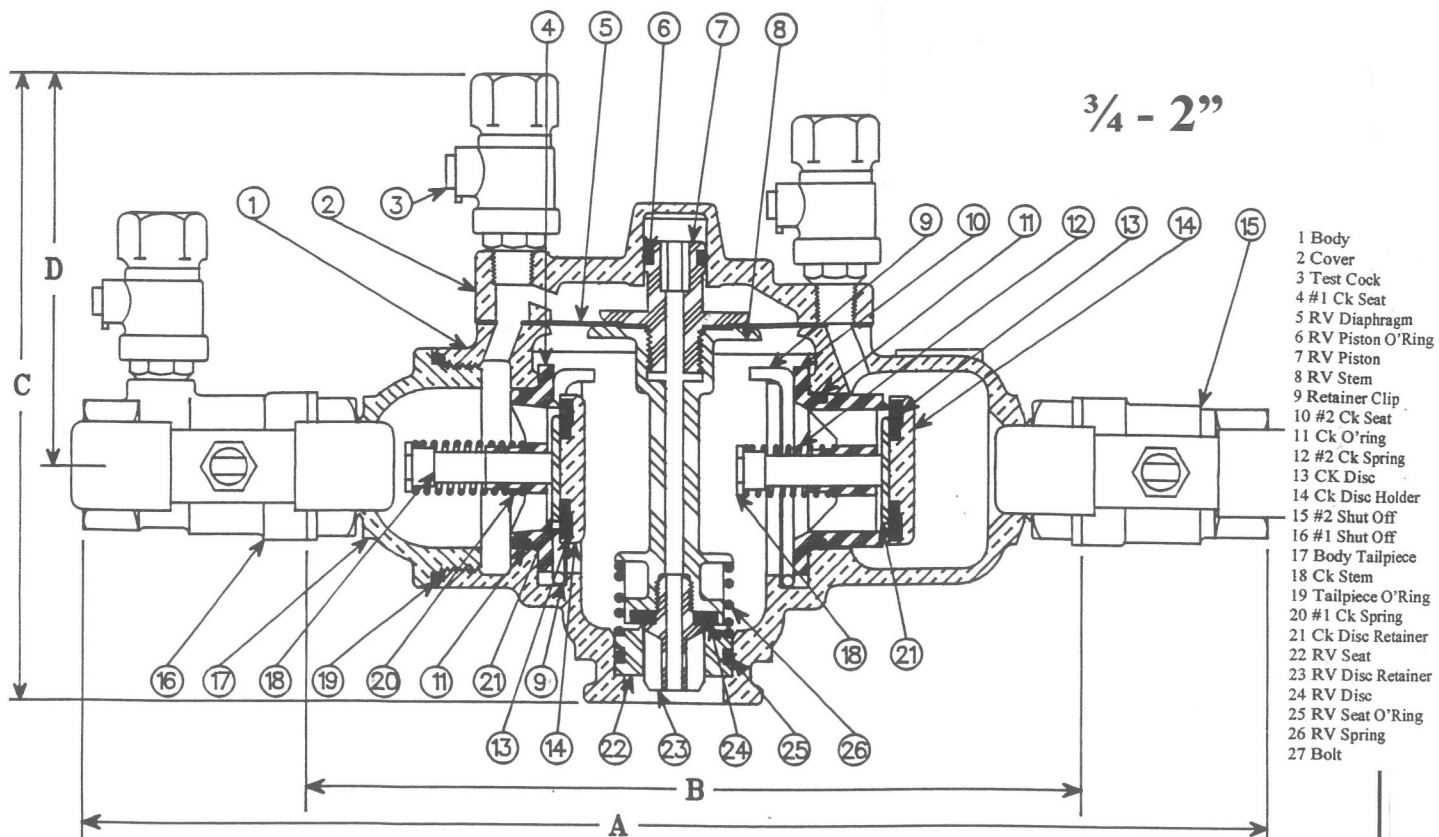


FLOW RATE (gpm)

RPZ / RPZE	VALVE SIZE				
	¾"	1"	1 ¼"	1 ½"	2"
A	12	13	14 3/8	19	20
B	8	8	9	12 ½	12 ½
C	6 ½	6 ½	7 ¼	8 ¾	8 ¾
D	4	4	4 1/8	5	5
Width	4	4	4 9/16	5 ¾	5 ¾
Net Wt	8 ½	9 ½	13	27 ½	32

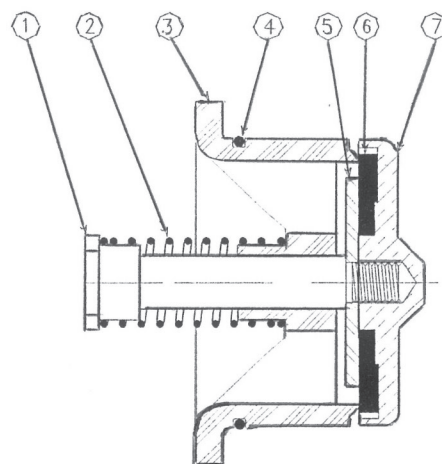
#### RPZII / RPZEII

	1/2"	3/4"	1 ½"
A	9 1/4	9 3/4	17
B	5 1/2	5 1/2	10 ½
C	5 21/32	5 21/32	4 ½
D	3 5/8	3 5/8	7 63/64
Width	3 5/32	3 5/32	5 1/16
Weight With Ball Valves	4 3/8 lbs.	4 7/8 lbs.	18 ½
Weight Without Ball Valves	3 1/4 lbs.	3 1/4 lbs.	12



ITEM	DESCRIPTION
1	PISTON O'RING
2	R.V. PISTON
3	R.V. STEM O-RING
4	R.V. DIAPHRAGM
5	R.V. DIAPHRAGM PLATE
6	R.V. STEM
7	R.V. DISCHOLDER
8	R.V. DISC
9	R.V. DISC RETAINER
10	R.V. SPRING

RELIEF VALVE ASS'Y



ITEM	DESCRIPTION
1	C.V. STEM
2	C.V. SPRING
3	2nd C.V. Seat Ring
4	C.V. O-Ring
5	C.V. Disc Retainer
6	C.V. DISC
7	C.V. DISCHOLDER

CK Assy



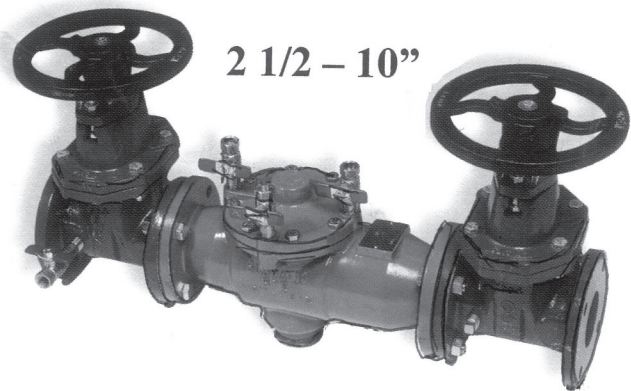
# FLOMATIC VALVES

## Model RPZ

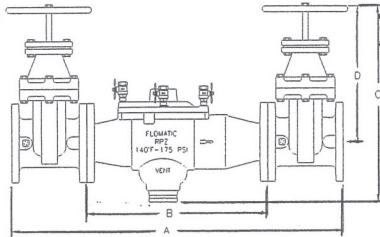
Max. working pressure: 175 PSI (1200 kPa)  
 Max. working temperature: 140°F (60°C)  
 Hydrostatic Test Pressure: 350 PSI (2400 kPa)

### MATERIALS:

Valve Body: Ductile Iron  
 Access Cover: Ductile Iron  
 Polymers: Noryl™, NSF Listed  
 Elastomers: Silicone  
 Springs: Buna-n (FDA approved)  
 Coatings: Stainless Steel  
 FDA approved fusion epoxy

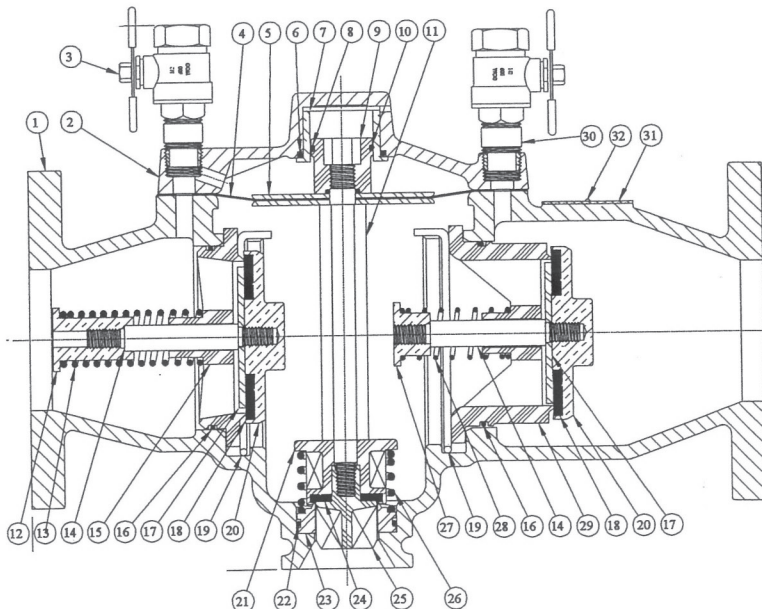
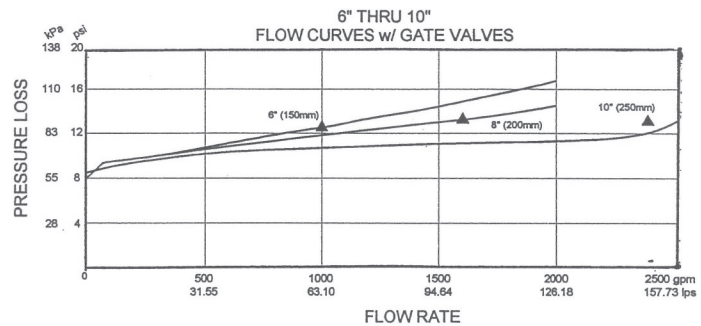
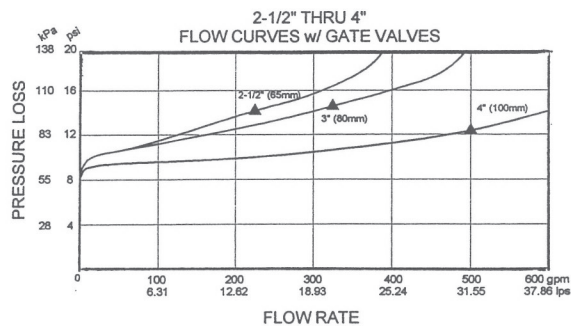


2 1/2 – 10"



Size		Part #	A		B		C		D		Width		Wgt with GV		Wgt less GV	
			Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
2-1/2	65	B9205	31-1/4	794	16-1/4	413	16-7/16	418	11-3/8	289	8-1/32	204	164	74.5	60	27
3	80	B9206	32-1/4	819	16-1/4	413	17-7/16	443	12-3/8	314	10	254	186	84.5	60	27
4	100	B9207	39	991	21	533	22-13/32	569	14-3/4	375	10	254	314	142.5	120	54.5
6	150	B9209	44-5/8	1133	23-1/2	597	28-3/8	721	19	483	12-1/2	318	463	210	163	74
8	200	B9210	52-1/2	1334	29-1/2	749	32-7/16	824	22-1/2	572	15-3/16	386	710	322	300	136
10	250	B9211	60	1524	33-7/8	860	36-15/16	938	26-1/2	673	18	457	125	567	530	240

### FLOW CHARACTERISTICS



ITEM	QTY.	DESCRIPTION
1	1	VALVE BODY
2	1	VALVE COVER
3	4	1/2" BALL VALVE
4	1	RELIEF VALVE DIAPHRAGM
5	2	RELIEF VALVE DIAPHRAGM PLATE
6	1	RELIEF VALVE BUSHING O'RING
7	1	RELIEF VALVE COVER BUSHING
8	1	RELIEF VALVE PISTON O'RING
9	1	RELIEF VALVE PISTON
10	1	RELIEF VALVE STEM O'RING
11	1	RELIEF VALVE STEM
12	1	1st CHECK VALVE STEM RETAINER
13	1	1st CHECK VALVE SPRING
14	2	CHECK VALVE STEM
15	1	1st CHECK VALVE SEAT RING
16	2	CHECK VALVE O'RING
17	2	CHECK VALVE DISC RETAINER
18	2	CHECK VALVE DISC
19	2	CHECK VALVE SPRING CLIP
20	2	CHECK VALVE DISC HOLDER
21	1	RELIEF VALVE DISC HOLDER
22	1	RELIEF VALVE SEAT O'RING
23	1	RELIEF VALVE SEAT
24	1	RELIEF VALVE DISC
25	1	RELIEF VALVE DISC RETAINER
26	1	RELIEF VALVE SPRING
27	1	2nd CHECK VALVE STEM RETAINER
28	1	2nd CHECK VALVE SPRING
29	1	2nd CHECK VALVE SEAT RING
30	3	1/2" x 1 1/2" NIPPLE
31	1	IDENTIFICATION TAG
32	2	GRIP NAIL