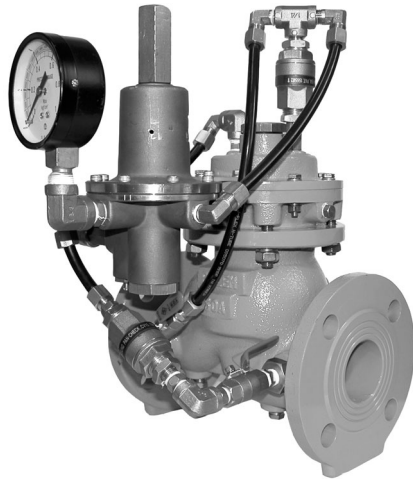




# Pressure Reducing & Check Valve



- Accurate Pressure Control
- Sensitive Pressure Control supported Diaphragm
- Easy Adjustment and Maintenance
- Backflow Prevention

Model 132-020 consists of Basic Valve(BALEM 130) and Pressure Reducing Pilot valve(Model 562). It maintains constant pre-set low pressure according to inlet pressure change and/or downstream flow rate change, and once downstream pressure higher than inlet pressure closes the opening and closing of the basic valve to prevent backflow caused by back pressure.

Double chamber structure minimizes the effect of the valve action due to whirlpool in the valve and easy to install and maintain.

## ► Pattern and Size

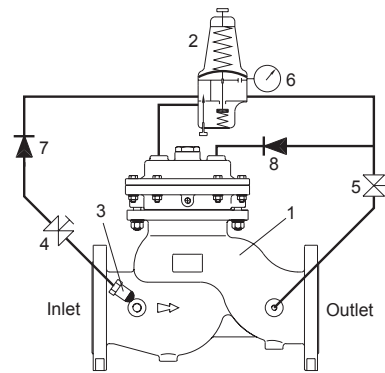
Pattern	Screwed : BSP / NPT Standard	Flanged : 10kgf/cm <sup>2</sup> / ANSI 150 Standard
Globe	50A(2")~80A(3")	50A(2")~300A(12")
Angle	50A(2")~80A(3")	50A(2")~300A(12")

## ► Pressure Ratings and Temperature Range

	KSD 1513. Class 10	ANSI B 16.42 Class 150
Pressure Rating	0.5~15 kgf/cm <sup>2</sup>	10~250 PSIG
Temperature Range	Water, Oil : 80°C(180° F)max	

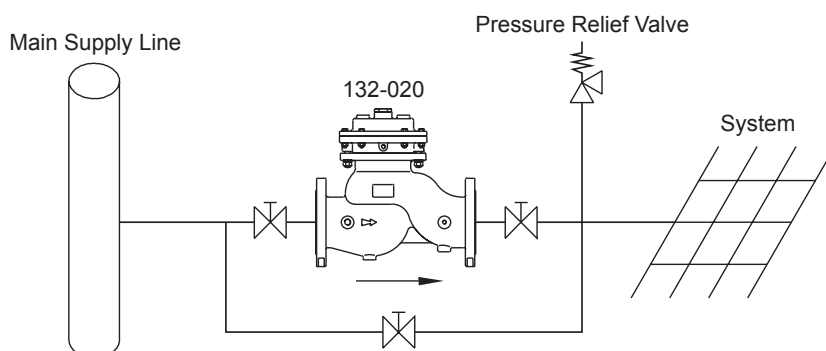
## ► Schematic Diagram

Item	Description
1	BALEM 130 (Basic Valve)
2	Pressure Reducing Pilot Valve (Model 562)
3	Flow Clean Strainer
4	Cock Valve
5	Cock Valve
6	Pressure Gauge
7	Check Valve
8	Check Valve



Control diagram

## ► Typical Applications



► Materials

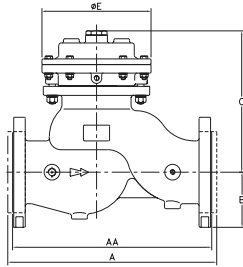
Compartment	Material Options	
Body & Cover	Ductile Iron	Stainless Steel
Diaphragm Washer & Disc	Cast Iron	Stainless Steel
Cover Plug & Bearing	Brass	Stainless Steel
Shaft & Seat	Stainless Steel	
Diaphragm	Nylon reinforced N.B.R	
Disc Seal	N.B.R	

Note : • NSF/ANSI Standard 61 Epoxy Coating standard  
 • Nylon 11 Coating available (Rilsan Coating) : optional

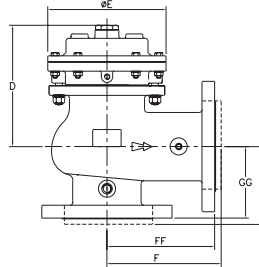


Globe, Flanged

► Dimensions



Globe Type



Angle Type



Angle, Flanged

Valve Size (mm)	50	80	100	150	200	250	300	When Ordering, Please Specify  1. Model No. 2. Valve Size 3. Pattern : Globe or Angle 4. Working Pressure 5. Screwed or Flanged 6. Adjustment Range 7. Desired Materials 8. Desired Options
A Screwed	238	318	-	-	-	-	-	
AA 10kgf/cm <sup>2</sup>	238	305	381	508	645	756	864	
B	78	93	105	140	165	200	223	
Cmax	200	240	275	375	470	535	625	
Dmax	157	179	206	284	360	420	465	
∅E	140	165	208	326	408	497	562	
F Screwed	119	140	-	-	-	-	-	
FF 10kgf/cm <sup>2</sup>	119	152	191	254	322	378	432	
G Screwed	83	114	-	-	-	-	-	
GG 10kgf/cm <sup>2</sup>	83	102	127	152	203	219	349	
Weight kgs	14	26	41	95				
Valve Size (inches)	2	3	4	6	8	10	12	
A Screwed	9.38	12.50	-	-	-	-	-	
AA 150 ANSI	9.38	12.00	15.00	20.00	25.38	29.75	34.00	
B	3.00	3.75	4.50	5.50	6.75	8.00	9.70	
Cmax	7.88	9.45	10.83	14.77	18.43	20.95	24.53	
Dmax	6.19	7.05	8.12	11.19	14.14	14.46	18.15	
∅E	5.52	6.50	8.19	12.83	16.07	19.57	22.13	
F Screwed	4.69	6.25	-	-	-	-	-	
FF 150 ANSI	4.69	6.00	7.50	10.00	12.69	14.88	17.00	
G Screwed	3.25	4.50	-	-	-	-	-	
GG 150 ANSI	3.25	4.00	5.00	6.00	8.00	8.62	13.75	
Weight lbs	31	57	90	210				

※ 200A, 250A, 300A will be manufactured from January, 2004.

► Installation Recommendations

- Before installation, flush to clean pipeline.
- Provide adequate clearance for servicing.
- Arrow on valve body must match actual flow direction in pipe.
- Preferred valve installation, - upright, for horizontal position; others acceptable.
- Install isolation valves on both sides of control valve.
- For assistance, please contact our office or factory for specific recommendations.