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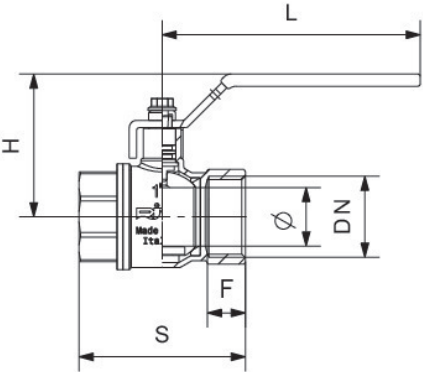
National Vacuum Equipment

**ARMSTRONG  
EQUIPMENT  
INC.**

# Ball Valves

**Features:**

- Female NPT thread ports on both ends
- Full bore
- Brass body
- Steel lever handle



**Ball Valves | Dimensions**

| PART NUMBER | DN | Ø     | H     | S     | L      | F     | PN               |
|-------------|----|-------|-------|-------|--------|-------|------------------|
| 360-310-2   | 2" | 1.85" | 3.70" | 4.29" | 6.30"  | 0.89" | 25 BAR - 365 PSI |
| 360-310-3   | 3" | 2.95" | 5.59" | 5.79" | 10.40" | 0.98" | 16 BAR - 235 PSI |
| 360-310-4   | 4" | 3.70" | 6.30" | 7"    | 10"    | 1.10" | 16 BAR - 235 PSI |

**Ball Valves | Product List**

| PART NUMBER | DESCRIPTION     | WEIGHT  |
|-------------|-----------------|---------|
| 360-310-2   | BALL VALVE - 2" | 3.2 LBS |
| 360-310-3   | BALL VALVE - 3" | 8.6 LBS |
| 360-310-4   | BALL VALVE - 4" | 14 LBS  |

**Ball Valves | Replacement Parts**

| PART NUMBER | DESCRIPTION          | WEIGHT |
|-------------|----------------------|--------|
| 362-302-3B  | HANDLE 4" BALL VALVE | 1 LBS  |

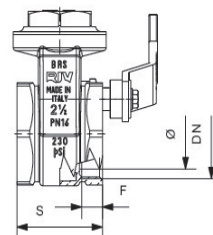
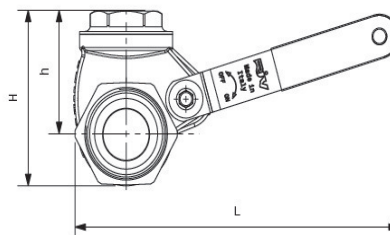
# Lever Gate Valves

## Features:

- Brass construction; double gate.

## Advantages:

- Improved sealing ability and a double wedge gate design, so that the gate can fit perfectly in the tapered seat

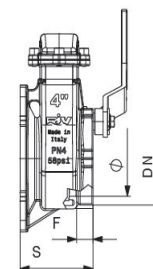
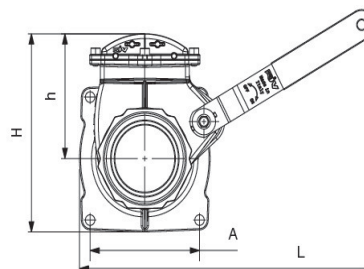


## Lever Gate Valves | Dimensions

| PART NUMBER | DN | Ø    | H    | h    | S    | L    | F   | PN             |
|-------------|----|------|------|------|------|------|-----|----------------|
| 362-301-2   | 2" | 49"  | 115" | 54"  | 75"  | 228" | 20" | 16BAR - 230PSI |
| 362-301-3   | 3" | 70"  | 165" | 117" | 86"  | 425" | 21" | 10BAR - 145PSI |
| 362-301-4   | 4" | 92"  | 215" | 152" | 93"  | 450" | 22" | 10BAR - 145PSI |
| 362-301-6   | 6" | 144" | 320" | 230" | 102" | 525" | 24" | 8BAR - 116PSI  |

## Lever Gate Valves | Product List

| PART NUMBER | DESCRIPTION                  | WEIGHT  |
|-------------|------------------------------|---------|
| 362-301-2   | LEVER VALVE - 2", NPT THREAD | 4 LBS   |
| 362-301-3   | LEVER VALVE - 3", NPT THREAD | 9.2 LBS |
| 362-301-4   | LEVER VALVE - 4", NPT THREAD | 13 LBS  |
| 362-301-6   | LEVER VALVE - 6", NPT THREAD | 25 LBS  |



## Lever Gate Valves | Dimensions

| PART NUMBER               | DN | Ø     | A     | F    | H     | h     | L     | S     | PN             |
|---------------------------|----|-------|-------|------|-------|-------|-------|-------|----------------|
| 362-301-3T (NOT PICTURED) | 3" | -     | -     | -    | 7.75" | -     | -     | 3.75" | -              |
| 362-301-4F                | 4" | 3.62" | 5.91" | 0.87 | 9.53" | 5.98" | 17.2" | 3.94" | 4 BAR - 58 PSI |

## Lever Gate Valves | Product List

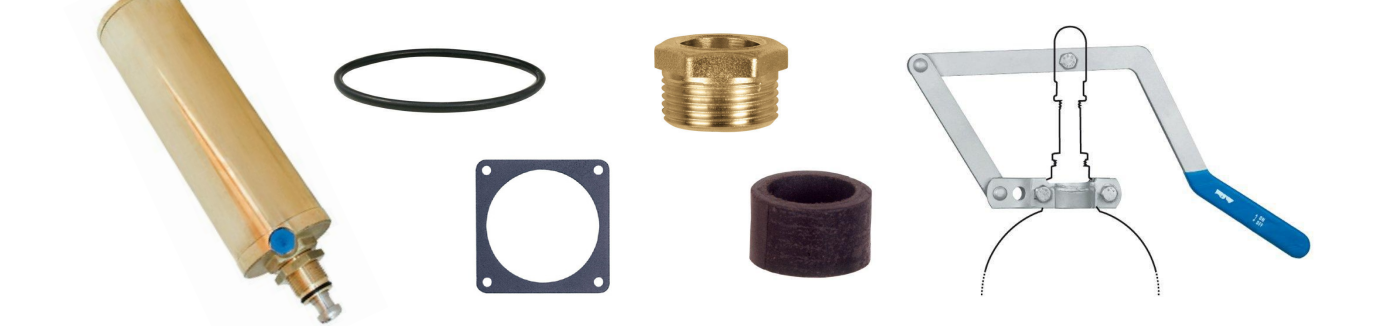
| PART NUMBER | DESCRIPTION                               | WEIGHT   |
|-------------|---|----------|
| 362-301-3T  | LEVER VALVE - 3" NPT THREAD/TTMA FLANGE   | 10.0 LBS |
| 362-301-4F  | LEVER VALVE - 4" NPT THREAD/4-BOLT FLANGE | 14.9 LBS |

# Lever Gate Valves - Replacement Parts



| PART NUMBER | DESCRIPTION                         | WEIGHT   |
|-------------|-------------------------------------|----------|
| 362-301-21  | HANDLE 2" LEVER VALVE               | 0.40 LBS |
| 362-301-41  | HANDLE 3", 4", AND 6" LEVER VALVE   | 1.00 LBS |
| 362-301-32  | PACKING 3" LEVER VALVE              | 0.01 LBS |
| 362-301-42  | PACKING 4" & 6" LEVER VALVE         | 0.01 LBS |
| 362-301-44  | PACKING NUT 4" & 6" LEVER VALVE     | 0.20 LBS |
| 362-301-33  | STEM 3" LEVER VALVE                 | 0.35 LBS |
| 362-301-43Z | STEM 4" LEVER VALVE                 | 0.50 LBS |
| 362-301-63  | STEM 6" LEVER VALVE STAINLESS STEEL | 0.45 LBS |
| 362-301-45  | ROUND CAP 4" VALVE - OLD STYLE      | 1.50 LBS |

# Piston Gate Valves - Replacement Parts



| PART NUMBER  | DESCRIPTION                      | WEIGHT    |
|--------------|----------------------------------|-----------|
| 352-302-0    | AIR ACTUATOR 6"                  | 10.35 LBS |
| 354-64       | O-RING 4" & 6" PISTON VALVES     | 0.01 LBS  |
| 354-65       | FLANGE 6" PISTON VALVE           | 2.05 LBS  |
| 354-66       | PACKING 4" & 6" PISTON VALVE     | 0.01 LBS  |
| 354-67       | PACKING NUT 4" & 6" PISTON VALVE | 0.15 LBS  |
| 356-300-46RH | HANDLE - 4" & 6" PISTON VALVES   | 3.80 LBS  |

# Piston Gate Valves - Air Actuated

## Features:

- Brass construction
- Double-acting pneumatic jack
- Anticorrosion stainless steel screws
- PPS, Power Plus System

## Advantages:

- Better tightness compared to other gate valves of the same type.



## Piston Gate Valves | Air Actuated

| PART NUMBER | DESCRIPTION   | WEIGHT   |
|-------------|---|----------|
| 350-302-4   | PISTON GATE VALVE - 4", NPT THREAD/NPT THREAD W/AIR ACTUATOR    | 16.6 LBS |
| 352-302-6   | PISTON GATE VALVE - 6", NPT THREAD/NPT THREAD W/AIR ACTUATOR    | 24.9 LBS |
| 354-302-4A  | PISTON GATE VALVE - 4", 4-BOLT FLANGE/FLANGE W/AIR ACTUATOR     | 21.3 LBS |
| 354-302-6A  | PISTON GATE VALVE - 6", 4-BOLT FLANGE/FLANGE W/AIR ACTUATOR     | 25.5 LBS |
| 354-302-64A | PISTON GATE VALVE - 4", NPT THREAD/4-BOLT FLANGE W/AIR ACTUATOR | 18.5 LBS |
| 354-302-66A | PISTON GATE VALVE - 6", NPT THREAD/4-BOLT FLANGE W/AIR ACTUATOR | 25.5 LBS |

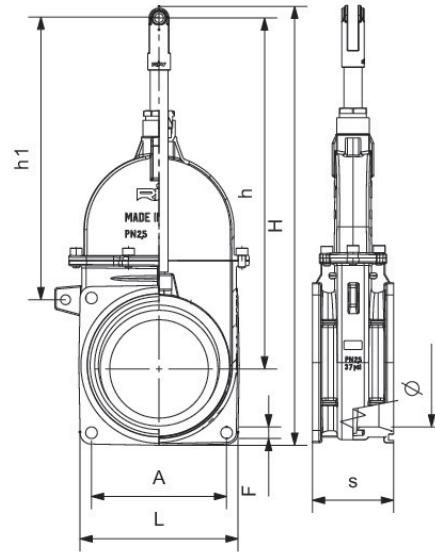
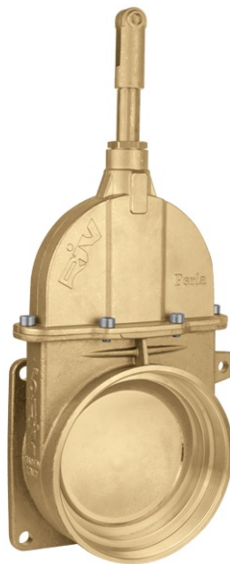
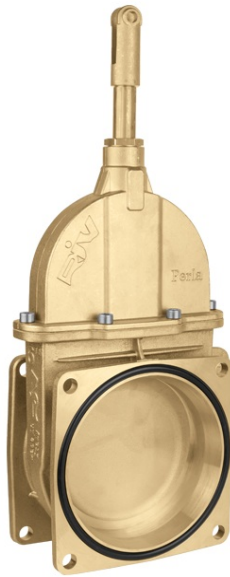
# Piston Gate Valves

## Features:

- Brass construction
- Anticorrosion stainless steel screws

## Advantages:

- Better tightness compared to other gate valves of the same type.



## Piston Gate Valves | Dimensions

| PART NUMBER | DN | Ø     | H     | h     | S     | L     | F     | A     | h1    | PN               |
|-------------|----|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| 354-302-4   | 4" | 3.58" | 15.2" | 11.4" | 3.82" | 7.09" | 0.51" | 5.91" | 9.25" | 3 BAR - 45 PSI   |
| 354-302-6   | 6" | 5.63" | 19.3" | 15.4" | 3.54" | 7.09" | 0.51" | 5.91" | 12.6" | 2.5 BAR - 37 PSI |
| PART NUMBER | DN | Ø     | H     | h     | S     | L     | F     | A     | h1    | PN               |
| 354-302-64  | 4" | 3.58" | 15.2" | 11.4" | 3.11" | 7.09" | 0.51" | 5.91" | 9.25" | 3 BAR - 45 PSI   |
| 354-302-66  | 6" | 5.63" | 19.3" | 15.4" | 3.46" | 7.09" | 0.51" | 5.91" | 12.6" | 2.5 BAR - 37 PSI |

## Piston Gate Valves | Flange

| PART NUMBER | DESCRIPTION   | WEIGHT   |
|-------------|---|----------|
| 354-302-4   | PISTON GATE VALVE - 4", 4-BOLT FLANGE/FLANGE WITH O-RINGS * | 13.2 LBS |
| 354-302-6   | PISTON GATE VALVE - 6", 4-BOLT FLANGE/FLANGE WITH O-RINGS * | 17.1 LBS |

## Piston Gate Valves | NPT Thread/Flange

| PART NUMBER | DESCRIPTION                                       | WEIGHT   |
|-------------|---|----------|
| 354-302-64  | PISTON GATE VALVE - 4" NPT THREAD/4-BOLT FLANGE * | 10.6 LBS |
| 354-302-66  | PISTON GATE VALVE - 6" NPT THREAD/4-BOLT FLANGE * | 16.6 LBS |

\* Order Handle Separately

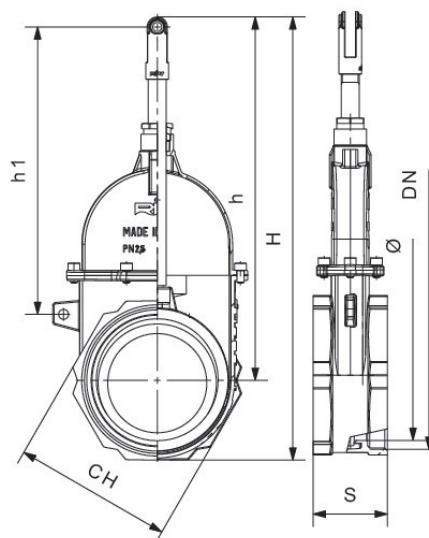
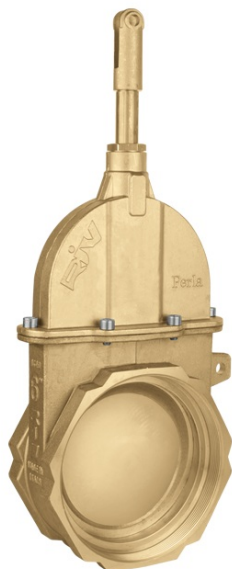
## Piston Gate Valves Continued

### Features:

- Brass construction
- Anticorrosion stainless steel screws

### Advantages:

- Better tightness compared to other gate valves of the same type.



### Piston Gate Valves | Dimensions

| PART NUMBER | DN | Ø     | H     | h     | S     | h1    | PN               |
|-------------|----|-------|-------|-------|-------|-------|------------------|
| 356-302-4   | 4" | 3.58" | 12.6" | 10.4" | 2.68" | 8.66" | 3 BAR - 45 PSI   |
| 358-302-6   | 6" | 5.67" | 18.9" | 15.4" | 3.23" | 12.6" | 2.5 BAR - 37 PSI |

### Piston Gate Valves | NPT Thread

| PART NUMBER | DESCRIPTION                                    | WEIGHT  | PRICE    |
|-------------|--|---------|----------|
| 356-302-4   | PISTON GATE VALVE - 4" NPT THREAD/NPT THREAD * | 8.5 LBS | \$111.24 |
| 358-302-6   | PISTON GATE VALVE - 6" NPT THREAD/NPT THREAD * | 16 LBS  | \$191.87 |

### Piston Gate Valves | Replacement Parts List *(pictured on page 4)*

| PART NUMBER  | DESCRIPTION                                    | WEIGHT   | PRICE   |
|--------------|--|----------|---------|
| 354-64       | O-RING, 4" & 6" PISTON GATE VALVES WITH FLANGE | 0.01 LBS | \$3.39  |
| 356-300-46RH | HANDLE, 4" & 6" PISTON GATE VALVES             | 3.80 LBS | \$25.84 |

\* Order Handle Separately

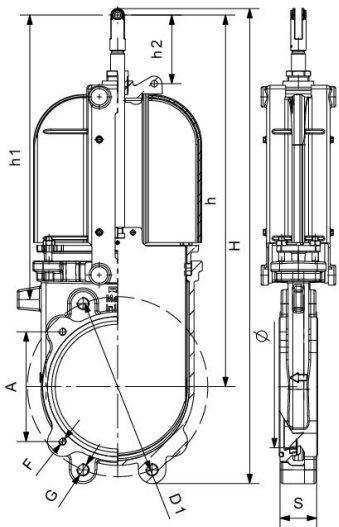
# Gladio Knife Gate Valves

### Features:

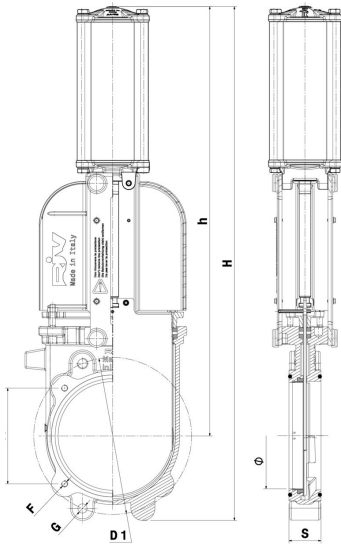
- Cast iron body.
- Stainless steel gate, screws and tie rods.
- Standard equipped with O-ring gaskets.
- Square flange/ANSI 150.
- Gate valve called “anti-clogging” and can be installed in any position.
- Large size self-cleaning seat.
- Has a robust protective casing, which completely isolates the moving parts of the gate valve.
- Equipped with an open/closed position indicator.
- Handle not included.



| PART NUMBER | DN | Ø     | H      | h      | h1    | S     | F   | A     | D1     | G        | PN              |
|-------------|----|-------|--------|--------|-------|-------|-----|-------|--------|----------|-----------------|
| 357-302-8   | 8" | 7.87" | 26.41" | 23.89" | 18.3" | 2.36" | M12 | 7.08" | 11.75" | 3/4" UNC | 8 BAR - 120 PSI |



| PART NUMBER | DN | Ø     | H   | h      | S     | F   | A     | D1     | G        | PN              |
|-------------|----|-------|-----|--------|-------|-----|-------|--------|----------|-----------------|
| 357-302-8A  | 8" | 7.87" | 38" | 31.81" | 2.36" | M12 | 7.08" | 11.75" | 3/4" UNC | 8 BAR - 120 PSI |



### Knife Gate Valves | Flange Mount

| PART NUMBER | DESCRIPTION                             | WEIGHT   |
|-------------|---|----------|
| 357-302-8   | 8" GLADIO KNIFE GATE VALVE              | 53.0 LBS |
| 357-302-8A  | 8" AIR ACTUATED GLADIO KNIFE GATE VALVE | 68.0 LBS |



# Glow Heating Block

**Features:**

- Electrically powered heating element melts ice and unfreezes valves with ease.
- 200 watt, 12-volt direct current.
- Installs easily over most 4" lever gate valves.



\*Heating block installed.



**Glow Heating Block | Spring Mount**

| PART NUMBER | DESCRIPTION           | WEIGHT |
|-------------|-----------------------|--------|
| 362-301-G   | 4" GLOW HEATING BLOCK | ---    |

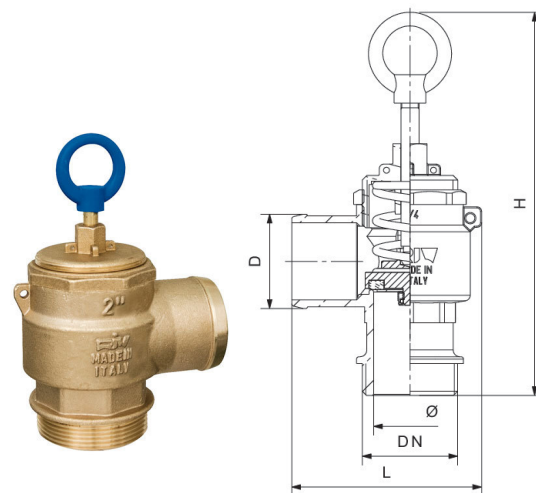
# Pressure Relief Valves

## Features:

- Spring operated
- Hose connection

## Pressure Relief Valves | Dimensions

| PART NUMBER  | DN    | Ø     | H     | L     | D     | PN               |
|--------------|-------|-------|-------|-------|-------|------------------|
| 364-306-1.25 | 1.25" | 1.26" | 6.69" | 3.50" | 1.57" | 1.5 BAR - 21 PSI |
| 364-306-015  | 1.50" | 1.54" | 7.09" | 3.94" | 1.77" | 1.5 BAR - 21 PSI |
| 364-306-2    | 2"    | 1.97" | 6.30" | 4.33" | 2.01" | 1.5 BAR - 21 PSI |



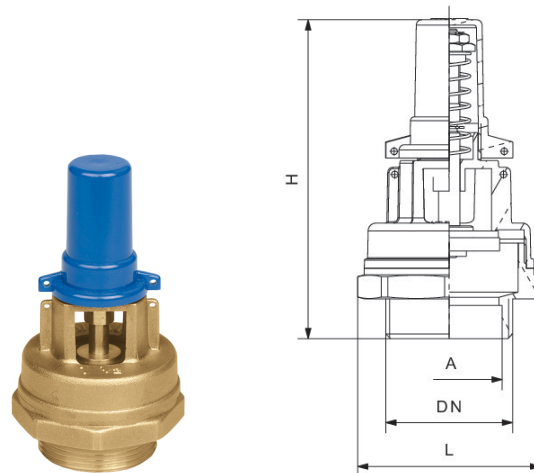
## Pressure Relief Valves | Parts List

| PART NUMBER  | DESCRIPTION                              | WEIGHT   |
|--------------|--|----------|
| 364-306-1.25 | 1 1/4" PRESSURE RELIEF VALVE, NPT THREAD | 1.45 LBS |
| 364-306-015  | 1 1/2" PRESSURE RELIEF VALVE, NPT THREAD | 2.11 LBS |
| 364-306-2    | 2" PRESSURE RELIEF VALVE, NPT THREAD     | 2.74 LBS |
| 364-306-R    | RING FOR PRESSURE RELIEF VALVE           | 0.01 LBS |

## Vacuum Relief Valve

## Vacuum Relief Valves | Dimensions

| PART NUMBER | DN    | H     | L     | A     |
|-------------|-------|-------|-------|-------|
| 366-150     | 1.50" | 4.72" | 2.72" | 1.57" |



## Vacuum Relief Valves | Parts List

| PART NUMBER | DESCRIPTION                            | WEIGHT   |
|-------------|--|----------|
| 366-150     | 1 1/2" VACUUM RELIEF VALVE, NPT THREAD | 1.14 LBS |
| 366-150-CAP | BLUE CAP FOR VACUUM RELIEF 1 1/2"      | 0.01 LBS |

# Pressure & Vacuum Relief Valves Setting Instructions

## Pressure Relief Valve Setting Instructions

### Picture 1.

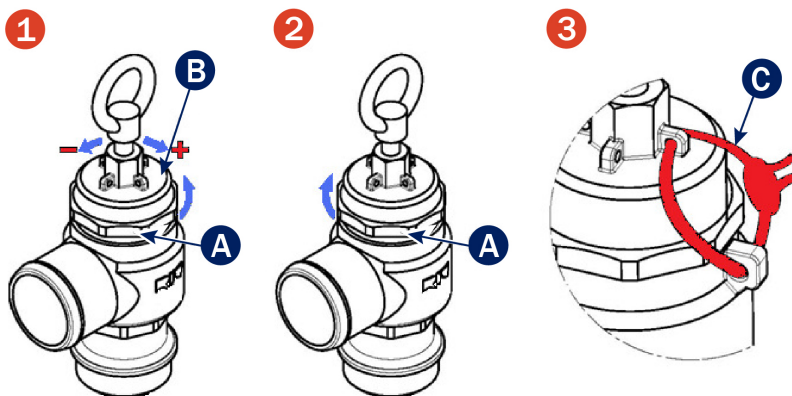
1. Unscrew the lock nut "A"
2. Turn the spring-tightener "B"

### Picture 2.

Once obtained the desired pressure, screw down the lock nut "A"

### Picture 3.

Fix the setting, using the rings "C" Situated on the body and on the spring tightener



## Vacuum Relief Valve Setting Instructions

### Step 1.

Remove the protection cap "A"

### Step 2.

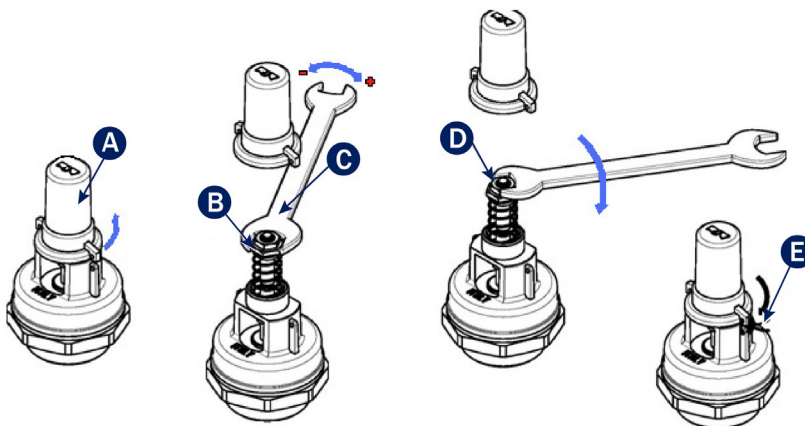
Turn the spring-tighter "B", through a spanner "C", Clockwise to increase the pressure, Anti-clockwise to reduce the pressure

### Step 3.

Once obtained the desired pressure, screw down the lock nut "D"

### Step 4.

Screw down the protection cap and fix it using the rings "E" situated on the valve body and on the cap





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