

# MODEL 106-IDC / 206-IDC INTERNAL DROP CHECK

## KEY FEATURES

- Prevents reverse flow and reduces surges
- Completely mechanical and has no dependency on the pilot system
- Silent operation



## PRODUCT OVERVIEW

The Internal Drop Check (IDC) ensures quick positive shut-off whenever normal forward flow stops, this action will prevent reverse flow while reducing surge events.

The IDC assembly is a spring assisted, silent, mechanical check option for standard Singer main valves and comes in sizes ranging from 2 in / 50 mm – 36 in / 900 mm.

The IDC is a standard feature on the 106-PTC and 206-PTC series control valves and is available as an optional add-on for control valves larger than 2 in / 50 mm.

## STANDARD MATERIAL

Inner Valve: ASTM A536 Ductile Iron

Inner Valve Sleeve: B-62 Bronze or AISI 316 Stainless Steel

Stem: AISI 316 Stainless Steel

O-Ring Seals: Buna-N

Spring is optional on 106 series valves larger than 10 in / 250 mm and 206 series valves larger than 12 in / 300 mm. (On all other sizes, the spring is included.)

## ORDERING INSTRUCTIONS

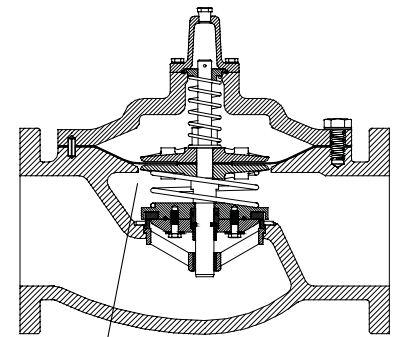
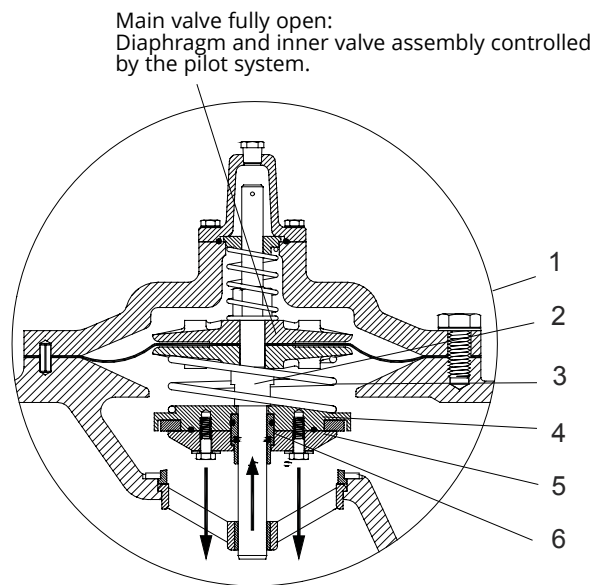
Refer to page 244 for the order form and ordering instructions.

Note:

- PTC valves include the IDC
- this IDC may be included as standard with some products

## PRODUCT LINE DRAWING

1. IDC - Internal Drop Check
2. IDC Stem
3. Spring (optional) in sizes 10 in / 250 mm and larger 106
4. Inner Valve
5. Disc Retainer
6. Inner Valve Sleeve



Valve fully closed:  
Pressure above diaphragm drives  
diaphragm assembly and IDC  
down to seal the valve.

Should forward flow stop for any reason, the IDC moves down to seal against reverse flow, regardless of the valve position.

### MAIN VALVES - OPTIONS

## MODEL 106-NYM / 206-NYM INTERNAL DROP CHECK NO YELLOW METAL

### NO YELLOW METAL UPGRADE OPTION

Yellow metal components such as Brass, Bronze and Copper may not be acceptable materials in harsh water conditions or in specific specifications for a variety of reasons. All or any portion of yellow metals in the internals of main valves may be upgraded to stainless steel. All or any portion of yellow metals on pilots or pilot tubing and fittings may also be upgraded to stainless steel.

### ORDERING INSTRUCTIONS

Refer to page 244 for the order form and ordering instructions.

Note: The -NYM option may be included as standard with some products.

Include -NYM addendum to main valve order.