

# MODELS 106-IDC / 206-IDC / 306-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" - 36" / 50 - 900 mm..

The IDC is a standard feature on the 106-PTC, 206-PT and 306-PTC series control valves and is available as an optional add-on for control valves larger than 2" / 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" / 250 mm, 206 and 306 series valves larger than 12" / 300 mm. (On all other sizes, the spring is included.)

### ORDERING INSTRUCTIONS

Refer to the order form and ordering instructions.

#### Note:

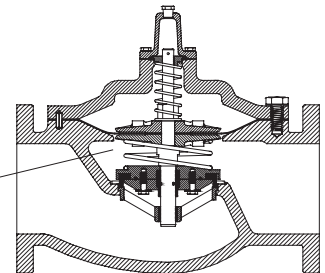
- PTC valves include the IDC
- This IDC may be included as standard with some products

### PRODUCT LINE DRAWING

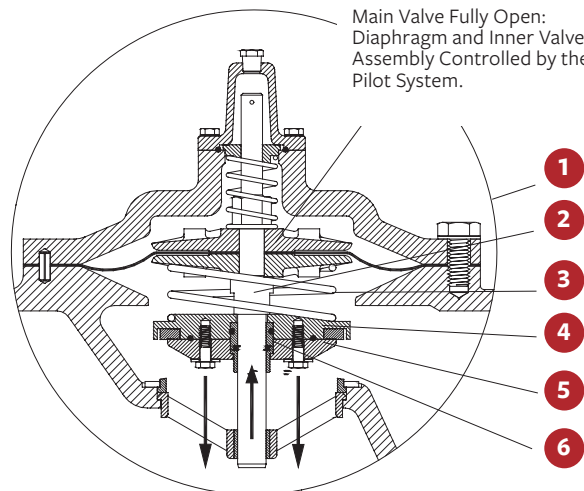
ID	PART NAME
1	IDC - Internal Drop Check
2	IDC Stem
3	Spring (optional) in sizes 10" / 250 mm and larger 106
4	Inner Valve
5	Disc Retainer
6	Inner Valve Sleeve



Valve Fully Closed:  
Pressure Above Diaphragm  
Drives Diaphragm Assembly and IDC  
Down to Seal the Valve.



Main Valve Fully Open:  
Diaphragm and Inner Valve  
Assembly Controlled by the  
Pilot System.



Should Forward Flow Stop for any Reason, the IDC Moves Down to Seal Against Reverse Flow, Regardless of the Valve Position.

# MODELS 106-NYM / 206-NYM / 306-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 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.