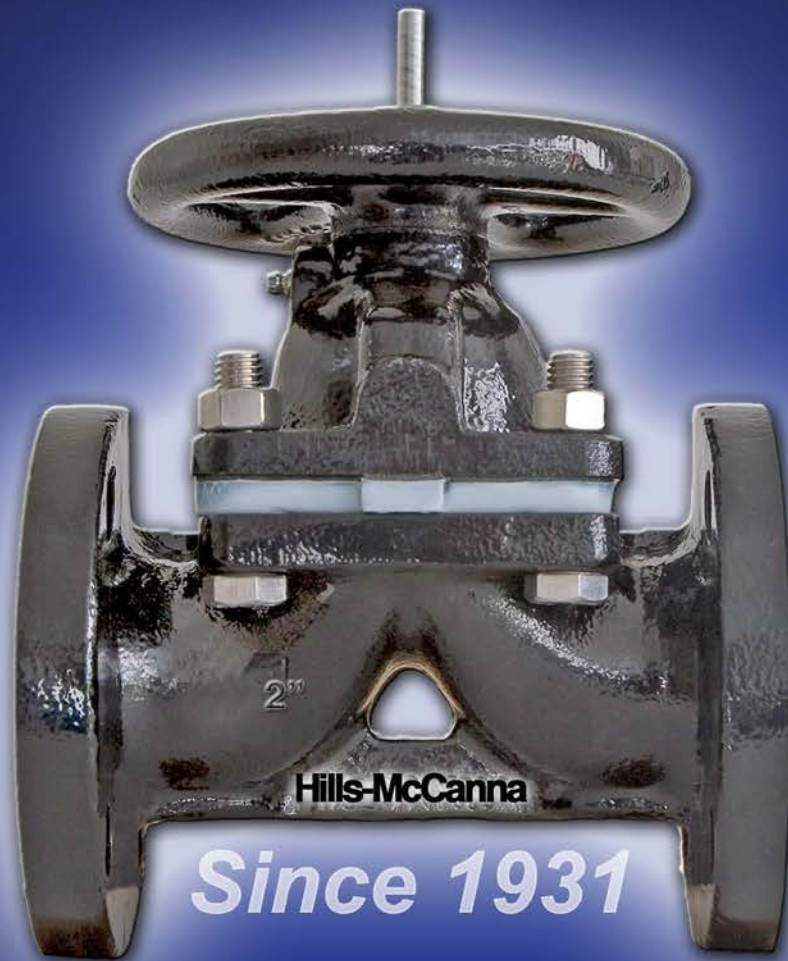


# Diaphragm Valves

## Product Overview



**Hills-McCanna®**  
an ANDRONACO INDUSTRIES company

*The FIRST in the USA is still the BEST*



# Hills-McCanna®

Hills-McCanna is the USA pioneer and a world leader in the design, production and application of diaphragm valves. First introduced over 75 years ago, Hills-McCanna valves have consistently proven their value in tough applications through years of reliable service. The valves are designed to handle a wide range of fluids and gases including highly corrosive toxic chemicals and abrasive slurries. Available in a wide variety of materials and options, in sizes 1/2" to 12", with a temperature range of (-)60 °F to (+)350 °F at pressures to 200 psig.

**No Packing or Seals to Adjust**  
**No Valve Seats to Replace**  
**In-Line Repairability**



## Bubble-Tight shutoff

On pressure or vacuum applications, zero leakage in accordance with MSS SP-88.



## Throttling

Ideal for both on/off and modulating applications. Streamline flow path is cavity free for excellent control capabilities.



## Streamline Flow / Bidirectional

Smooth contoured body design has no cavities or pockets for smooth flow and contamination-free performance. Hills-McCanna valves can be oriented to facilitate self draining.

## Body (wetted) options



### Metal unlined

Ductile Iron  
Carbon Steel  
316L Stainless  
Alloy 20  
Other Materials Available



### Metal Lined

Soft Rubber  
Hard Rubber  
Neoprene  
Polypropylene  
PVDF  
ETFE  
PFA



### Glass Lined

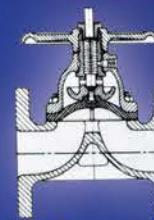
Borosilicate



### Solid Plastic

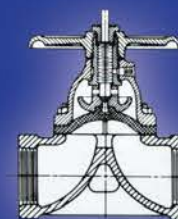
PVC  
Polypropylene  
PVDF  
PFA

## End Connection options



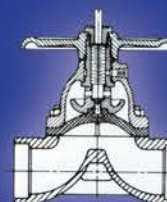
### Flanged

1/2" to 12"  
1/2" to 2" Solid Plastic



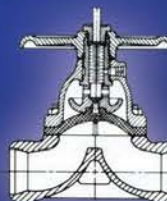
### Threaded

1/2" to 3"  
1/2" to 2" Solid Plastic



### Socket Weld

1/2" to 3"  
1/2" to 2" Solid Plastic



### Butt Weld

1/2" to 4"  
Metal Only

## Bonnet (non-wetted) options



### Indicating (standard)

Valve position can be determined at a glance.



### Indicating with travel stop

In addition to indicating position, the closing stroke can be limited.



### Non-indicating

Used when space limitations are a factor.

### Also available

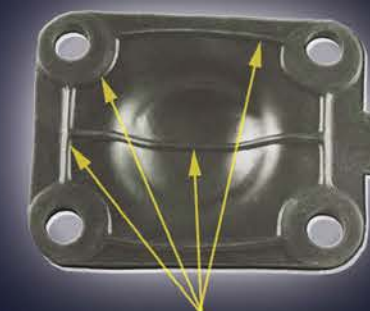
- \* Sealed bonnet
- \* Chainwheel
- \* Extended Stem
- \* Actuated

## Diaphragm Options

McCannaplast™ EPDM Black  
McCannaplast™ EPDM White  
Neoprene Black  
Neoprene White  
PTFE / McCannaplast™  
Natural Rubber  
Viton  
Hypalon

## Hills-McCanna Experience

Over 75 years of experience has given Hills-McCanna the expertise to manufacture the most rugged, best designed, and longest lasting diaphragms in the industry.



## Hills-McCanna Exclusive Sealing Bead

Sealing bead extends around and between bolt holes and across the seating area. This exclusive design localizes bolting and closing forces, assuring a positive seal with minimum bolting torque, and stem thrust.

## Automation

Hills-McCanna actuators are available for on / off applications or when more complex flow control is required. Actuators can be provided with positioners, limit switches, speed controls, filter regulators, and a variety of other accessories and options to meet sophisticated flow control and fine throttling requirements.





# How to Order

## Example:

2" GLASS LINED DUCTILE IRON VALVE,  
FLANGED END CONNECTIONS, PTFE  
DIAPHRAM AND INDICATING HAND WHEEL



STEP 1      STEP 2      STEP 3      STEP 4

**2** - **685** - **04** - **006**

### STEP 1

DETERMINE VALVE  
SIZE

.5 = 1/2"  
.75 = 3/4"  
1 = 1"  
1.25 = 1-1/4"  
1.5 = 1-1/2"  
**2 = 2"**  
2.5 = 2-1/2"  
3 = 3"  
4 = 4"  
5 = 5"  
6 = 6"  
8 = 8"  
10 = 10"  
12 = 12"

### STEP 2

DETERMINE VALVE END  
CONNECTIONS & BODY MATERIAL

#### Threaded Ends

206 = Ductile Iron  
208 = 316 Stainless  
209 = Alloy 20  
210 = Solid PVC  
220 = Solid Polypropylene  
221 = Carbon Steel  
254 = Solid PVDF  
257 = 316L Stainless

#### Socket Weld Ends

309 = Alloy 20  
310 = Solid PVC  
320 = Solid Polypropylene  
321 = Carbon Steel  
354 = Solid PVDF  
357 = 316L Stainless

#### Butt Weld Ends

409 = Alloy 20  
421 = Carbon Steel  
457 = 316L Stainless

#### Flanged Ends

606 = Ductile Iron  
608 = 316 Stainless  
609 = Alloy 20  
610 = Solid PVC  
621 = Carbon Steel  
654 = Solid PVDF  
655 = PVDF Lined / Ductile Iron  
657 = 316L Stainless  
672 = Polypropylene Line / Ductile Iron  
**685 = Glass Lined / Ductile Iron**  
691 = ETFE Lined / Ductile Iron  
694 = Soft Rubber Lined (RC) / Ductile Iron  
695 = Hard Rubber Lined (RB) / Ductile Iron  
696 = Neoprene Lined (NA) / Ductile Iron

### STEP 3

DETERMINE VALVE  
DIAPHRAM MATERIAL

38 = McCannaplast Black  
74 = McCannaplast White  
N1 = Neoprene Black  
N7 = Neoprene White  
**O4 = PTFE / McCannaplast**  
R5 = Natural Rubber  
V1 = Viton  
Y2 = Hypalon

### STEP 4

DETERMINE VALVE  
BONNET STYLE

005 = Handwheel / Non-indicating  
**006 = Handwheel / Indicating (Standard)**  
008 = Relief Valve  
029 = Handwheel / Indicating Travel Stops  
031 = Chainwheel  
032 = Handwheel / Extended Stem  
049 = Handwheel / Indicating Travel Stops / White Enamel  
097 = Handwheel / Indicating Travel Stops / Sealed  
126 = Sliding Stem to accept Yoke style Actuator  
140 = Actuator - Spring Open / Air Close  
150 = Actuator - Air Open / Air Close  
160 = Actuator - Air Open / Spring Close  
170 = Actuator - Closing Travel Stops /  
Spring Open / Air Close  
180 = Actuator - Closing Travel Stops /  
Air Open / Air Close  
190 = Actuator - Closing Travel Stops /  
Air Open / Spring Close  
250 = Actuator - Opening Limit Stops /  
Air Open / Air Close  
270 = Actuator - Opening Limit Stops /  
Air Open / Spring Close



4855 Broadmoor Ave  
Kentwood, MI. 49512 USA  
Ph 616.554-3900 Fax 616.554-9308  
www.hills-mccanna.com

HILLS-MCCANNA® INFORMATION IS BASED ON TECHNICAL DATA AND TESTING THAT HILLS-MCCANNA® BELIEVES TO BE RELIABLE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. THE INFORMATION IS INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL, AND AT THEIR OWN DISCRETION AND RISK. SINCE CONDITIONS OF PRODUCT ARE OUTSIDE OF HILLS-MCCANNA® CONTROL, HILLS-MCCANNA® MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. HILLS-MCCANNA® IS A REGISTERED TRADEMARK OF HILLS-MCCANNA®.

0313-092617