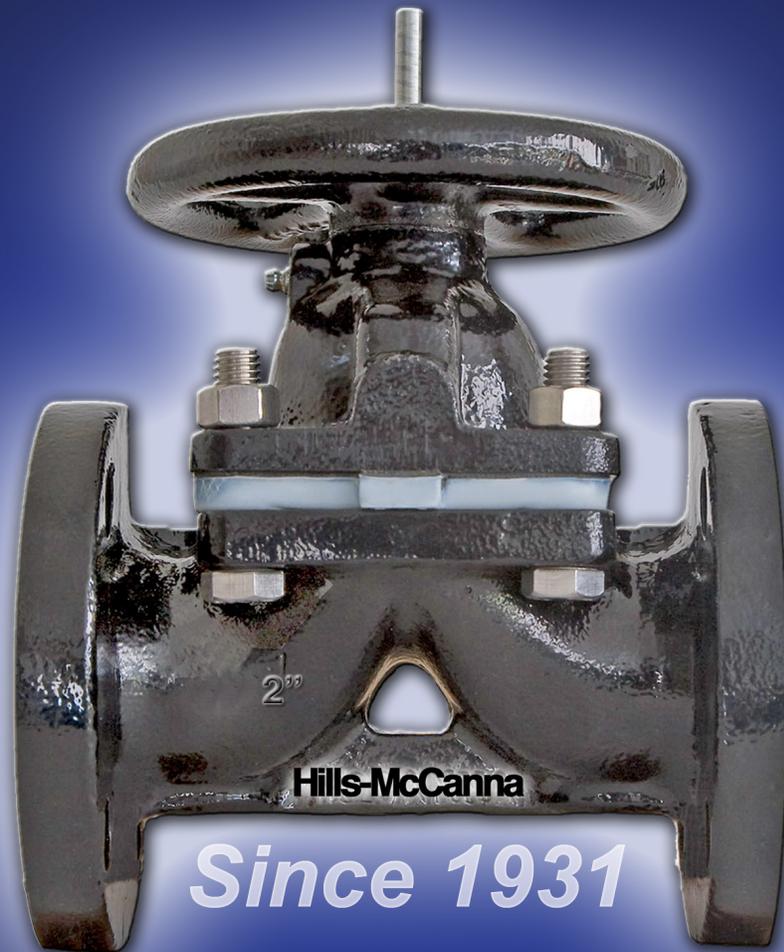


# Diaphragm Valves

## Product Overview



*Since 1931*



*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.



**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

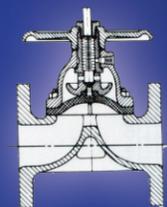


**Solid Plastic**  
PVC  
Polypropylene  
PVDF  
PFA

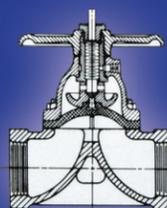
## Body (wetted) options

## End Connection options

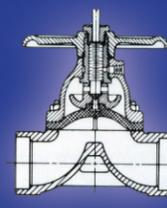
## Bonnet (non-wetted) options



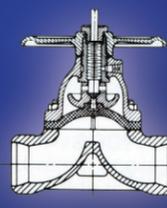
**Flanged**  
1/2" to 12"  
1/2" to 2" Solid Plastic



**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



**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.

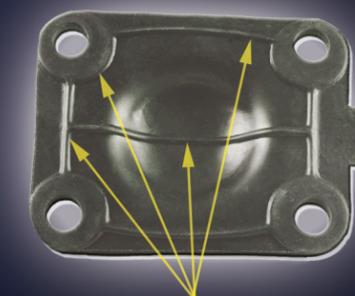
**Also available**  
\* Sealed bonnet  
\* Chainwheel  
\* Extended Stem  
\* Actuated

## 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.

**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.

## 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



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