



Product Overview

Diaphragm Valves



Since 1931

The FIRST in the USA is still the BEST

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 (-)40°F to (+)400°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.



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

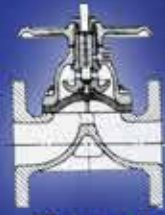
Borosilicate



Solid Plastic

PVC
Polypropylene
PVDF
PFA

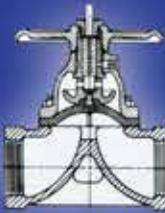
End Connection options



Flanged

1/2" to 12"

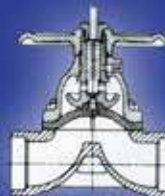
1/2" to 2" Solid Plastic



Threaded

1/2" to 4"

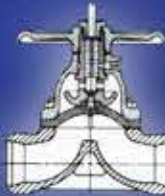
1/2" to 2" Solid Plastic



Socket Weld

1/2" to 4"

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

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.

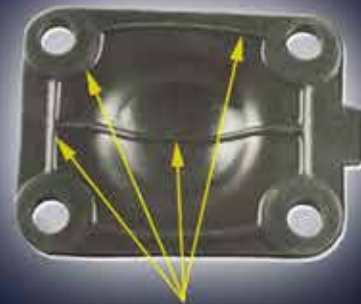


Diaphragm options

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

Hills-McCanna Experience

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



Hills-McCanna Exclusive Sealing Bead

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



How to Order

Example:

2" GLASS LINED DUCTILE IRON VALVE,
FLANGED END CONNECTIONS, PTFE
DIAPHRAGM 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 = 316L Stainless
209 = Alloy 20
210 = Solid PVC
220 = Solid Polypropylene
221 = Carbon Steel
254 = Solid PVDF

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

Flanged Ends

606 = Ductile Iron
608 = 316L Stainless
609 = Alloy 20
610 = Solid PVC
621 = Carbon Steel
654 = Solid PVDF
655 = PVDF Lined / Ductile Iron
672 = Polypropylene Lined / 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
DIAPHRAGM MATERIAL

38 = McCannaplast Black
(EPDM)
74 = McCannaplast White
(EPDM)
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 /
Spring open / air close
260 = Actuator - Opening Limit Stops /
Air open / Air Close
270 = Actuator - Opening Limit Stops /
Air open / Spring close



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