

# DeZURIK MG MANUAL GEAR ACTUATOR SIZING

**For**

- **BHP High Performance Butterfly Valves**
- **PEC Eccentric Plug Valves**
- **VPB V-Port Ball Valves**
- **RCV Rotary Control Valves**
- **BOS-US Resilient Seated Butterfly Valves**



# BHP High-Performance Butterfly Valves

## Handwheel Actuators

### ANSI Class 150 (PN 10/16) PTFE (TT/TI, RT/RI) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-8" (50-200mm)	MG-7-HD8	285 (1960)
10-14" (250-350mm)	MG-1012-HD8	285 (1960)
16" (400mm)	MG-1216-HD16	285 (1960)
18 & 20" (450 & 500mm)	MG-1216-HD24	285 (1960)

### ANSI Class 150 (PN 10/16) Dual Seat (TTS2/TIS2 or RTS2/RIS2)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-8" (50-200mm)	MG-7-HD8	285 (1960)
10 & 12" (250 & 300mm)	MG-1012-HD12	285 (1960)
14 & 16" (350 & 400mm)	MG-1216-HD24	285 (1960)
18 & 20" (450 & 500mm)	MG-16-HD30	285 (1960)

### ANSI Class 150 (PN 10/16) Fyre-Block (TTS2 & FB or RTS2 & FB) and Metal (S2) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-6" (50-150mm)	MG-7-HD8	285 (1960)
8" (200mm)	MG-1012-HD8	285 (1960)
10" (250mm)	MG-1012-HD12	285 (1960)
12" (300mm)	MG-1216-HD16	285 (1960)
14 & 16" (350 & 400mm)	MG-1216-HD24	285 (1960)
18 & 20" (450 & 500mm)	MG-16-HD30	285 (1960)

## Chainwheel Actuators

### ANSI Class 150 (PN 10/16) PTFE (TT/TI, RT/RI) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-8" (50-200mm)	MG-7-CW8	285 (1960)
10-14" (250-350mm)	MG-1012-CW8	285 (1960)
16 & 18" (400 & 450mm)	MG-1216-CW20	285 (1960)
20" (500mm)	MG-16-CW30	285 (1960)

### ANSI Class 150 (PN 10/16) Dual Seat (TTS2/TIS2 or RTS2/RIS2)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-8" (50-200mm)	MG-7-CW8	285 (1960)
10 & 12" (250 & 300mm)	MG-1012-CW12	285 (1960)
14 & 16" (350 & 400mm)	MG-1216-CW20	285 (1960)
18 & 20" (450 & 500mm)	MG-16-CW30	285 (1960)

### ANSI Class 150 (PN 10/16) Fyre-Block (TTS2 & FB or RTS2 & FB) and Metal (S2) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-6" (50-150mm)	MG-7-CW8	285 (1960)
8" (200mm)	MG-1012-CW8	285 (1960)
10" (250mm)	MG-1012-CW12	285 (1960)
12 & 14" (300 & 350mm)	MG-1216-CW20	285 (1960)
16" (400mm)	MG-1216-CW30	285 (1960)
18 & 20" (450 & 500mm)	MG-16-CW30	285 (1960)

### ANSI Class 300 (PN 25/40) PTFE (TT/TI, RT/RI) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-6" (50-150mm)	MG-7-HD8	740 (5100)
8 & 10" (200 & 250mm)	MG-1012-HD8	740 (5100)
12" (300mm)	MG-1216-HD16	740 (5100)
14 & 16" (350 & 400mm)	MG-1216-HD24	740 (5100)
18" (450mm)	MG-16-HD30	740 (5100)
20" (500mm)	MG-64-HD30	740 (5100)

### ANSI Class 300 (PN 25/40) Dual Seat (TTS2/TIS2 or RTS2/RIS2)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-4" (50-100mm)	MG-7-HD8	740 (5100)
6-8" (150-200mm)	MG-1012-HD8	740 (5100)
10 & 12" (250 & 300mm)	MG-1216-HD24	740 (5100)

### ANSI Class 300 (PN 25/40) Fyre-Block (TTS2 & FB or RTS2 & FB) and Metal (S2) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-4" (50-100mm)	MG-7-HD8	740 (5100)
6" (150mm)	MG-1012-HD8	740 (5100)
8" (200mm)	MG-1012-HD12	740 (5100)
10-12" (250-300mm)	MG-1216-HD24	740 (5100)

Note: Handwheel actuators are available at standard and 180° mounting positions.

### ANSI Class 300 (PN 25/40) PTFE (TT/TI, RT/RI) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-6" (50-150mm)	MG-7-CW8	740 (5100)
8 & 10" (200 & 250mm)	MG-1012-CW8	740 (5100)
12-16" (300-400mm)	MG-1216-CW20	740 (5100)
18" (450mm)	MG-16-CW30	740 (5100)
18" (450mm)	MG-64-CW30	740 (5100)

### ANSI Class 300 (PN 25/40) Dual Seat (TTS2/TIS2 or RTS2/RIS2)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-4" (50-100mm)	MG-7-CW8	740 (5100)
6 & 8" (150 & 200mm)	MG-1012-CW8	740 (5100)
10 & 12" (250 & 300mm)	MG-1216-CW20	740 (5100)

### ANSI Class 300 (PN 25/40) Fyre-Block (TTS2 & FB or RTS2 & FB) and Metal (S2) Seat

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
2-4" (50-100mm)	MG-7-CW8	740 (5100)
6" (150mm)	MG-1012-CW8	740 (5100)
8" (200mm)	MG-1012-CW12	740 (5100)
10 & 12" (250 & 300mm)	MG-1216-CW20	740 (5100)

Note: Chainwheel actuators are available at standard and 180° mounting positions.

# PEC Eccentric Plug Valves

## Handwheel Actuators ANSI Class 125-Iron (PN10)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
.5-3" (15-80mm)	MG-7-HD8	175 (1210)

## Chainwheel Actuators ANSI Class 125-Iron (PN10)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
.5-3" (15-80mm)	MG-7-CW8	175 (1210)

## ANSI Class 150-Steel (PN10/16)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
.5-3" (15-80mm)	MG-7-HD8	285 (1960)

## ANSI Class 150-Steel (PN10/16)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
.5-3" (15-80mm)	MG-7-CW8	285 (1960)

# VPB V-Port Ball Valves

## Handwheel Actuators ANSI Class 150/300 (PN 10/16)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
1-4" (25-100mm)	MG-7-HD8	285 (1960)
6 & 8" (150 & 200mm)	MG-1012-HD8	285 (1960)
10" (250mm)	MG-1012-HD12	285 (1960)
12-16" (300-400mm)	MG-1216-HD24	285 (1960)
18" (450mm)	MG-16-HD30	285 (1960)
20" (500mm)	MG-16-HD30 MG-64-HD30	175 (1210) 200 (1380)

## Chainwheel Actuators ANSI Class 150/300 (PN 10/16)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
1-4" (25-100mm)	MG-7-CW8	285 (1960)
6 & 8" (150 & 200mm)	MG-1012-CW8	285 (1960)
10" (250mm)	MG-1012-CW12	285 (1960)
12-16" (300-400mm)	MG-1216-CW20	285 (1960)
18" (450mm)	MG-16-CW30	285 (1960)
20" (500mm)	MG-16-CW30 MG-64-CW30	175 (1210) 200 (1380)

**Note:** On 1-16" (25-400mm) VPB valves, handwheel and chainwheel actuators are available at standard, 90°, 180° and 270° mounting positions. On 18 & 20" (450 & 500mm) valves, only standard and 180° positions are available.

# RCV Rotary Control Valves

## Handwheel Actuators ANSI Class 150/300 (PN 10/16)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
1-4" (25-100mm)	MG-7-HD8	740 (5100)
6" (150mm)	MG-1012-HD12	740 (5100)
8" (200mm)	MG-1012-HD12 MG-1216-HD24	350 (2400) 740 (5100)
10" (250mm)	MG-1216-HD24 MG-16-HD30	500 (3450) 740 (5100)
12" (300mm)	MG-16-HD30 MG-64-HD30	350 (2400) 500 (3450)

**Note:** HC bodies are rated at 285 psi (1960 kPa). Contact DeZURIK for actuator sizing.

## Chainwheel Actuators ANSI Class 150/300 (PN 25/40)

Valve Size	Actuator Code	Shutoff Pressure psi (kPa)
1-4" (25-100mm)	MG-7-CW8	740 (5100)
6" (150mm)	MG-1012-CW12	740 (5100)
8" (200mm)	MG-1012-CW12 MG-1216-CW20	350 (2400) 740 (5100)
10" (250mm)	MG-1216-CW20 MG-16-CW30	500 (3450) 740 (5100)
12" (300mm)	MG-16-CW30 MG-64-CW30	350 (2400) 500 (3450)

**Note:** HC bodies are rated at 285 psi (1960 kPa). Contact DeZURIK for actuator sizing.

**Note:** On 1-4" (25-100mm) RCV valves, actuators are available at standard, 90°, 180° and 270° mounting positions. On 6-12" (150-300mm) valves, actuators are available at standard and 180° mounting positions.

# BOS - US Resilient Seated Butterfly Valves

## Handwheel Actuators

Valve Size	Order Code	Maximum Pressure Differential psi (kPa)
2-6" (50-150mm)	MG-7-HD8*	250 (1720)
8" (200mm)	MG-1012-HD8*	250 (1720)
10" (250mm)	MG-1012-HD12	250 (1720)
12" (300mm)	MG-1012-HD12	100 (690)
	MG-1216-HD16	250 (1720)
14" (350mm)	MG-1216-HD20	250 (1720)
16" (400mm)	MG-1216-HD24	150 (1030)
	MG-16-HD30	250 (1720)
18" (450mm)	MG-16-HD30	150 (1030)
	MG-1250-HD28	250 (1720)
20" (500mm)	MG-16-HD30	75 (515)
	MG-1250-HD28	250 (1720)

## Chainwheel Actuators

Valve Size	Order Code	Maximum Pressure Differential psi (kPa)
2-6" (50-150mm)	MG-7-CW8	250 (1720)
8" (200mm)	MG-1012-CW8	250 (1720)
10" (250mm)	MG-1012-CW8	250 (1720)
12" (300mm)	MG-1012-CW12	100 (690)
	MG-1216-CW12	250 (1720)
14" (350mm)	MG-1216-CW20	250 (1720)
16" (400mm)	MG-1216-CW20	150 (1030)
	MG-16-CW24	250 (1720)
18" (450mm)	MG-16-CW24	150 (1030)
	MG-1250-CW30	250 (1720)
20" (500mm)	MG-16-CW24	75 (520)
	MG-1250-CW30	250 (1720)

\* If ordered with a dial indicating floorstand FSDIR or FSDIU, use HD12 in place of HD8

Note: Actuator comes with 18-8 Stainless Steel Bolting.  
316 Stainless Steel Bolting is not available.

## Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

Web Site: [www.dezurik.com](http://www.dezurik.com) E-Mail: [info@dezurik.com](mailto:info@dezurik.com)



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