



COMPACT CYLINDER ACTUATORS SIZING SHEET

PEC Eccentric Plug Valves

Double-Acting Cylinders Direct Pressure, Resilient Plug, Metal Seat

Valve Size	Order Code	Max. Shutoff Pressure Differential psi (kPa)			
		60psi (410kPa)		80psi (550kPa)	
.5-1" (15-25mm)	CMD-35	275	(1890)	275	(1890)
1.25-1.5" (32-40mm)	CMD-35	225	(1550)	275	(1890)
	CMD-50	275	(1890)	—	
2" (50mm)	CMD-35	—		100	(690)
	CMD-50	125	(860)	275	(1890)
	CMD-75	275	(1890)	—	
2.5" (65mm)	CMD-50	25	(170)	100	(690)
	CMD-75	150	(1030)	250	(1720)
	CMD-110	275	(1890)	275	(1890)
3" (80mm)	CMD-50	—		50	(340)
	CMD-75	50	(340)	125	(860)
	CMD-110	150	(1030)	250	(1720)
	CMD-160	275	(1890)	275	(1890)

Double-Acting Cylinders Direct Pressure, Metal Plug, Metal Seat or Hard Rubber Lined (CIH) Reverse Pressure, Resilient Plug, Metal Seat Reverse Pressure, Metal Plug, Metal Seat Hard Rubber Lined (CIH)

Valve Size	Order Code	Max. Shutoff Pressure Differential psi (kPa)			
		60psi (410kPa)		80psi (550kPa)	
.5-1" (15-25mm)	CMD-35	225	(1550)	275	(1890)
	CMD-50	275	(1890)	—	
1.25-1.5"(32-40mm)	CMD-35	100	(690)	200	(1380)
	CMD-50	275	(1890)	275	(1890)
2" (50mm)	CMD-50	100	(690)	225	(1550)
	CMD-75	250	(1720)	275	(1890)
	CMD-110	275	(1890)	—	
2.5" (65mm)	CMD-50	—		50	(340)
	CMD-75	50	(340)	150	(1030)
	CMD-110	175	(1210)	275	(1890)
	CMD-160	275	(1890)	—	
3" (80mm)	CMD-50	—		25	(170)
	CMD-75	25	(170)	75	(520)
	CMD-110	75	(520)	175	(1210)
	CMD-160	200	(1380)	275	(1890)
	CMD-255	275	(1890)	—	

Double-Acting Cylinders
Direct Pressure, Soft Rubber Lined Valves (CIS)

Valve Size	Order Code	Max. Shutoff Pressure Differential psi (kPa)	
		60psi (410kPa)	80psi (550kPa)
3" (80mm)	CMD-75	—	75 (520)
	CMD-110	75 (520)	175 (1210)
	CMD-160	200 (1380)	275 (1890)
	CMD-255	275 (1890)	—

Double-Acting Cylinders
Reverse Pressure, Soft Rubber Lined Valves (CIS)

Valve Size	Order Code	Max. Shutoff Pressure Differential psi (kPa)	
		60psi (410kPa)	80psi (550kPa)
3" (80mm)	CMD-110	—	75 (520)
	CMD-160	75 (520)	175 (1210)
	CMD-255	225 (1550)	275 (1890)
	CMD-400	275 (1890)	—

Spring Return Cylinders
Direct Pressure, Resilient Plug, Metal Seat

Valve Size	Order Code		Max. Shutoff Pressure Differential psi (kPa)	
	Spring-to-Close	Spring-to-Open	60psi (410kPa)	80psi (550kPa)
.5-1" (15-25mm)	CMD-35-S8-R	CMD-35-S8-D	—	100 (690)
	CMD-50-S8-R	CMD-50-S8-D	200 (1380)	—
	CMD-50-S12-R	CMD-50-S12-D	—	275 (1890)
	CMD-75-S8-R	CMD-75-S8-D	275 (1890)	—
1.25-1.5" (32-40mm)	CMD-35-S8-R	CMD-35-S8-D	—	25 (170)
	CMD-50-S8-R	CMD-50-S8-D	100 (690)	—
	CMD-50-S12-R	CMD-50-S12-D	—	150 (1030)
	CMD-75-S8-R	CMD-75-S8-D	150 (1030)	—
	CMD-75-S12-R	CMD-75-S12-D	—	225 (1550)
	CMD-110-S8-R	CMD-110-S8-D	250 (1720)	—
	CMD-110-S12-R	CMD-110-S12-D	—	275 (1890)
2" (50mm)	CMD-160-S8-R	CMD-160-S8-D	275 (1890)	—
	CMD-50-S12-R	CMD-50-S12-D	—	25 (170)
	CMD-75-S8-R	CMD-75-S8-D	25 (170)	—
	CMD-75-S12-R	CMD-75-S12-D	—	100 (690)
	CMD-110-S8-R	CMD-110-S8-D	100 (690)	—
	CMD-110-S12-R	CMD-110-S12-D	—	200 (1380)
	CMD-160-S12-R	CMD-160-S12-D	200 (1380)	—
2.5" (65mm)	CMD-160-S8-R	CMD-160-S8-D	—	275 (1890)
	CMD-255-S8-R	CMD-255-S8-D	275 (1890)	—
	CMD-110-S12-R	CMD-110-S12-D	—	25 (170)
	CMD-160-S8-R	CMD-160-S8-D	50 (340)	—
	CMD-160-S12-R	CMD-160-S12-D	—	150 (1030)
	CMD-255-S8-R	CMD-255-S8-D	175 (1210)	—
3" (80mm)	CMD-255-S12-R	CMD-255-S12-D	—	275 (1890)
	CMD-400-S8-R	CMD-400-S8-D	275 (1890)	—
	CMD-160-S12-R	CMD-160-S12-D	—	75 (520)
	CMD-255-S8-R	CMD-255-S8-D	75 (520)	—
	CMD-400-S12-R	CMD-400-S12-D	—	175 (1210)
3" (80mm)	CMD-400-S8-R	CMD-400-S8-D	175 (1210)	—
	CMD-400-S12-R	CMD-400-S12-D	—	275 (1720)
	CMD-500-S8-R	CMD-500-S8-D	275 (1720)	—

Spring-Return Cylinders
Direct Pressure, Metal Plug, Metal Seat or Hard Rubber Lined (CIH)
Reverse Pressure, Resilient Plug, Metal Seat
Reverse Pressure, Metal Plug, Metal Seat or Hard Rubber Lined (CIH)

Valve Size	Order Code		Max. Shutoff Pressure Differential psi (kPa)	
	Spring-to-Close	Spring-to-Open	60psi (410kPa)	80psi (550kPa)
.5-1" (15-25mm)	CMD-35-S8-R	CMD-35-S8-D	—	100 (690)
	CMD-50-S8-R	CMD-50-S8-D	150 (1030)	—
	CMD-50-S12-R	CMD-50-S12-D	—	225 (1550)
	CMD-75-S8-R	CMD-75-S8-D	200 (1380)	—
	CMD-75-S12-R	CMD-75-S12-D	—	275 (1890)
	CMD-110-S8-R	CMD-110-S8-D	275 (1890)	—
1.25-1.5" (32-40mm)	CMD-35-S12-R	CMD-35-S12-D	—	25 (170)
	CMD-50-S8-R	CMD-50-S8-D	50 (340)	—
	CMD-50-S12-R	CMD-50-S12-D	—	100 (690)
	CMD-75-S8-R	CMD-75-S8-D	100 (690)	—
	CMD-75-S12-R	CMD-75-S12-D	—	150 (1030)
	CMD-110-S8-R	CMD-110-S8-D	175 (1210)	—
	CMD-110-S12-R	CMD-110-S12-D	—	275 (1890)
2" (50mm)	CMD-160-S8-R	CMD-160-S8-D	275 (1890)	—
	CMD-75-S12-R	CMD-75-S12-D	—	25 (170)
	CMD-110-S8-R	CMD-110-S8-D	25 (170)	—
	CMD-110-S12-R	CMD-110-S12-D	—	100 (690)
	CMD-160-S8-R	CMD-160-S8-D	100 (690)	—
	CMD-160-S12-R	CMD-160-S12-D	—	200 (1380)
	CMD-255-S8-R	CMD-255-S8-D	275 (1890)	—
2.5" (65mm)	CMD-255-S12-R	CMD-255-S12-D	—	275 (1890)
	CMD-110-S12-R	CMD-110-S12-D	—	25 (170)
	CMD-160-S8-R	CMD-160-S8-D	25 (170)	—
	CMD-160-S12-R	CMD-160-S12-D	—	50 (340)
	CMD-255-S8-R	CMD-255-S8-D	100 (690)	—
	CMD-255-S12-R	CMD-255-S12-D	—	200 (1380)
	CMD-400-S8-R	CMD-400-S8-D	175 (1210)	—
3" (80mm)	CMD-400-S12-R	CMD-400-S12-D	—	275 (1890)
	CMD-160-S12-R	CMD-160-S12-D	—	25 (170)
	CMD-255-S8-R	CMD-255-S8-D	25 (170)	—
	CMD-255-S12-R	CMD-255-S12-D	—	100 (690)
	CMD-400-S8-R	CMD-400-S8-D	75 (520)	—
	CMD-400-S12-R	CMD-400-S12-D	—	175 (1210)
	CMD-500-S8-R	CMD-500-S8-D	275 (1890)	—
3" (80mm)	CMD-500-S12-R	CMD-500-S12-D	—	275 (1720)

Spring-Return Cylinders
Direct Pressure, Soft Rubber Lined Valves (CIS)

Valve Size	Order Code		Max. Shutoff Pressure Differential psi (kPa)	
	Spring-to-Close	Spring-to-Open	60psi (410kPa)	80psi (550kPa)
3" (80mm)	CMD-255-S8-R	CMD-255-S8-D	25 (170)	—
	CMD-255-S12-R	CMD-255-S12-D	—	100 (690)
	CMD-400-S8-R	CMD-400-S8-D	75 (520)	—
	CMD-400-S12-R	CMD-400-S12-D	—	175 (1210)
	CMD-500-S8-R	CMD-500-S8-D	275 (1890)	—
	CMD-500-S12-R	CMD-500-S12-D	—	275 (1720)

Spring-Return Cylinders
Reverse Pressure, Soft Rubber Lined Valves (CIS)

Valve Size	Order Code		Max. Shutoff Pressure Differential psi (kPa)	
	Spring-to-Close	Spring-to-Open	60psi (410kPa)	80psi (550kPa)
3" (80mm)	CMD-255-S12-R	CMD-255-S12-D	—	25 (170)
	CMD-400-S8-R	CMD-400-S8-D	25 (170)	—
	CMD-400-S12-R	CMD-400-S12-D	—	75 (520)
	CMD-500-S8-R	CMD-500-S8-D	225 (1550)	—
	CMD-500-S12-R	CMD-500-S12-D	—	275 (1890)

BOS-CL Valves

Double-Acting Cylinders

Valve Size	Order Code	Max. Shutoff Pressure Differential psi (kPa)
		50psi (340 kPa)
1.5" - 2.5" (40-65mm)	CMD-35	200 (1380)
3" (80mm)	CMD-35	100 (690)
	CMD-50	200 (1380)
4" (100mm)	CMD-75	200 (1380)
5" (125mm)	CMD-160	200 (1380)
6" (150mm)	CMD-160	200 (1380)

Sales and Service

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