
GEM-TRIM

Gem-Trim of Houma

Gem-E Series Control Valve

*Superior Performance
In Globe-Style Control Valves*



Quality That Creates Economy

Gem-E Series Control Valve

Gem-Trim Industrial Valve Products, the leading name in control valve replacement parts, proudly introduces superior performance in replacement globe control valves. Rely on *Gem-Trim* Gem-E Series globe valves for general purpose control in a wide range of applications.

Features Advantages and Benefits

- Available in 1 to 6 inch sizes and a variety of cage-guided and post guided configurations
- Available with gaskets, packing, actuators and accessories for virtually any requirement
- Fitted with precision-machined *Gem-Trim* valve trim to accommodate a wide range of pressure drops, shutoff classifications, & flow characteristics
- Dimensionally interchangeable with Fisher® Design E series valves

Model Interchangeability

Fisher Design	ED	ES	ET	EZ
Gem-E Series	GED	GES	GET	GEZ

Configurations

Model	GED	GES	GET	GEZ
Balanced	*		*	
Unbalanced		*		*
Cage Guided	*	*	*	
Post Guided				*

Body Sizes and End Connections

End Connections	Body Size					
	1	1-1/2	2	3	4	6
NPT or Socket Weld	*	*				
150/300/600 ANSI RF or RTJ Flanges	*	*	*	*	*	*

Materials

Body	Trim	Gasket				Packing	
		Less than 450°F		Greater than 450°F		Less than 450°F	Greater than 450°F
		Flat	Spiral	Flat	Spiral		
WCC Carbon Steel	Contact Customer Service	Compressed "Non- Asbestos" Fiber	SST/"Non- Asbestos" Filler	Laminated Graphite	Inconel Graphite Filler	TFE V-ring TFE Braided	Laminated Braided Graphite

Flow Characteristics

Model	Characteristics
GED	Linear, Equal Percent, Quick Open
GES	Linear, Equal Percent, Quick Open
GET	Linear, Equal Percent, Quick Open
GEZ	Linear, Quick Open, Microform, Microflute, Microflat

Leakage Class (ANSI/FCI 70-2-1998)

Model	Standard	Option*
GED	II	III
GES	IV	V, VI
GET	IV	V, VI
GEZ	IV	V, VI

*VI: with/PTFE composition seat

Gem-E Series Control Valve

Actuators

Diaphragm Actuators						
Standard Valve Size	1 - inch	1-1/2 inch	2 - inch	3 - inch	4 - inch	6 - inch
Standard Actuators	30	34	40	45	45	50
Optional Actuators	34	-	45	50, 60	50, 60	60, 70

Accessories

Positioners
Top and Side Hand Jacks
Limit Switches
Transducers



Dimensions (inches)

Valve Size (inches)	A				G	D	C	
	NPT/SW	150 RF	300 RF	600 RF	Max.	Plain Bonnet	657 Size	667 Size
1	8.25	7.25	7.75	8.25	2.38	5.00	17.31 (30) / 19.62 (34)	18.81 (30) / 22.56 (34)
1-1/2	9.88	8.75	9.25	9.88	2.81	4.88	19.62 (34)	22.56 (34)
2		10.00	10.50	11.25	3.06	6.50	21.56 (40) / 25.94 (45)	23.38 (40) / 30.25 (45)
3		11.75	12.50	13.25	3.81	7.50		
4		13.88	14.50	15.50	5.06	8.69	25.94 (45)	30.25 (45)
6		17.75	18.62	20.00	6.38	9.88	24.44 (50) / 33.06 (70)	30.88 (50) / 36.75 (70)

Weights

Valve Size (inch)	Actuator Size	Weight (lb)
1	(30)	80
1-1/2	(34)	95
2	(40)	155
2	(45)	205
3	(40)	195
3	(45)	245
4	(45)	290
6	(50)	480
6	(70)	665

Standard Gem-Trim® Combinations

Gem-Trim Number	Equivalent Fisher Number	Valve Plug	Seat Ring	Cage/Guide	Stem	Temperature Capability (°F)
G101	1 OR 101	416	416	17-4	316	800
G37	37	316/#6 SG	ALLOY 6			
G3	3		ALLOY 6			
G104	4 or 104	316	316	17-4		450
G57	57	416	316/TFE			400
G137	137	316/#6 SG	316/#6 S	17-4		800

S-Seat G-Guide Alloy 6 - UNS R30006

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Gem-E Series Replacement Parts

Size (inch)	Part Number
Valve Plugs ED/ET-Body (416)	
1	1V657146172
1-1/2	1V657346172
2	1V657546172
2-1/2	1V657746172
3	1V657946172
4	1V658146172
6	1V658446172

Size (inch)	Part Number
Valve Plugs ED/ET-Body (316)	
1	1V657135072
1-1/2	1V657335072
2	1V657535072
2-1/2	1V657735072
3	1V657935072
4	1V658135072
6	1V658435072

Size (inch)	Part Number
Seat Rings ED/ET-Body (416)	
1	1U222546172
1-1/2	1U221946172
2	1U222646172
2-1/2	1U222746172
3	1U222846172
4	1U222946172
6	1U508046172

Size (inch)	Part Number
Seat Rings ED/ET-Body (316)	
1	1U222535072
1-1/2	1U221935072
2	1U222635072
2-1/2	1U222735072
3	1U222835072
4	1U222935072
6	1U508035072

Size (inch)	Part Number
Valve Stems (316)	
3/8	1U388835162
1/2	1K586935162
1/2	1U230535162
3/4	1L996435162

Size (inch)	Part Number
Valve Cages Equal Percent (17-4PH)	
1	2U215333272
1-1/2	2U219533272
2	2U223733272
2-1/2	2U227933272
3	2U232133272
4	2U236333272
6	2U505933272

Size (inch)	Part Number
Valve Cages Linear (17-4PH)	
1	2U215633272
1-1/2	2U219833272
2	2U224033272
2-1/2	2U228233272
3	2U232433272
4	2U236633272
6	2U506133272

Size (inch)	Part Number
Seat Discs ET-Body	
1	1V710235072
1-1/2	1V710535072
2	1V710635072
2-1/2	1V711135072
3	1V711435072
4	1V711733092
6	1V712033092

Size (inch)	Part Number
Disc Retainers ET-Body	
1	1V710035072
1-1/2	1V710335072
2	1V710835072
2-1/2	1V710935072
3	1V711235072
4	1V711533092
6	1V711833092

Size (inch)	Part Number
Soft Seat Discs ET-Body	
1	1V710106242
1-1/2	1V710406242
2	1V710706242
2-1/2	1V711006242
3	1V711306242
4	1V711606242
6	1V711906242

Size (inch)	Part Number
Packing Sets Teflon V-Ring	
3/8	1R290001012
1/2	1R290201012
3/4	1R290401012
1	1R290601012

Size (inch)	Part Number
Packing Kits	
RPACKX00012	RPACKX00102
RPACKX00022	RPACKX00112
RPACKX00032	RPACKX00122
RPACKX00042	RPACKX00132
RPACKX00052	RPACKX00142
RPACKX00062	RPACKX00152
RPACKX00072	RPACKX00162
RPACKX00082	RPACKX00172
RPACKX00092	RPACKX00182

Size (inch)	Part Number
Gasket Sets	
Low Temperature (Old Style)	
1	RGASKETX012
1-1/2	RGASKETX022
2	RGASKETX032
2-1/2	RGASKETX042
3	RGASKETX052
4	RGASKETX062
6	RGASKETX072
8	RGASKETX082

Size (inch)	Part Number
Gasket Sets	
Low Temperature (New Style)	
1	RGASKETX312
1-1/2	RGASKETX322
2	RGASKETX332
2-1/2	RGASKETX342
3	RGASKETX352
4	RGASKETX362
6	RGASKETX372

Size (inch)	Part Number
Gasket Sets	
Restricted Low Temperature	
1-1/2 X 1	RGASKETX242
2 X 1	RGASKETX252
2-1/2 X 1-1/2	RGASKETX122
3 X 2	RGASKETX132
4 X 2-1/2	RGASKETX142
6 X 4	RGASKETX152

Size (inch)	Part Number
Gasket Sets	
High Temperature	
1	RGASKETX162
1-1/2	RGASKETX172
2	RGASKETX182
2-1/2	RGASKETX192
3	RGASKETX202
4	RGASKETX212
6	RGASKETX222
8	RGASKETX232

Size (inch)	Part Number
Gasket Sets	
Restricted High Temperature	
1-1/2 X 1	RGASKETX242
2 X 1	RGASKETX252
2-1/2 X 1-1/2	RGASKETX262
3 X 2	RGASKETX272
4 X 2-1/2	RGASKETX282
6 X 4	RGASKETX222

Size (inch)	Part Number
ED-Body Piston Rings	
Low Temperature	
1	1U217305092
1-1/2	1U221505092
2	1U225705092
2-1/2	1U229905092
3	1U234105092
4	1U239105092
6	1U506805092

Size (inch)	Part Number
ED-Body Piston Rings	
High Temperature	
1	1U217405102
1-1/2	1U221605102
2	1U225805102
2-1/2	1U230005102
3	1U234205102
4	1U239205102
6	1U506905102

Size (inch)	Part Number
ET-Body Seal Rings	
1	1V659105092
1-1/2	1V659305092
2	1V550805092
2-1/2	1V659505092
3	1V659705092
4	1V659905092
6	1V660105092

Size (inch)	Part Number
ET-Body Backup Rings	
1	1V659005292
1-1/2	1V659205292
2	1V550705292
2-1/2	1V659405292
3	1V659605292
4	1V659805292
6	1V660005292

Size (inch)	Part Number
Diaphragms	
667 Size 30	2E800002202
657 Size 30	2E791902202
667 Size 34/40	2E669902202
657 Size 34/40	2E670002202
667 Size 45/50	2E859602202
657 Size 45/50	2E859502202
667 Size 46/60	2E859802202
657 Size 46/60	2E859702202

Size (inch)	Part Number
Actuator Kits	
Size 30	R667X000302
Size 34/40	R667X000402
Size 45/60	R667X000502
Size 70/87	R667X000702

Size (inch)	Part Number
EZ-Body Cages 17-4PH	
1	25A6683X012
1-1/2	25A6685X012
2	25A6687X012
3	25A6689X012
4	35A6691X012

Size (inch)	Part Number
EZ-Body Cages 316 S/S	
1	25A6683X022
1-1/2	25A6685X022
2	25A6687X022
3	25A6689X022
4	35A6691X022

Size (inch)	Part Number
Packing Followers	
3/8	1E943935072
1/2	1E944335072
3/4	1E944735072

Size (inch)	Part Number
Upper Wipers	
3/8	1J872606332
1/2	1J872706332
3/4	1J872806332

Size (inch)	Part Number
Packing Box Rings	
3/8	1J873135072
1/2	1J873235072
3/4	1J873335072

Size (inch)	Part Number
Packing Springs	
3/8	1F125437012
1/2	1F125537012
3/4	1F125637012

Size (inch)	Part Number
Packing Washers	
3/8	1F125236042
1/2	1F125136042
3/4	1F125036042

Size (inch)	Part Number
Lantern Rings	
3/8	1F364135072
1/2	1J962335072
3/4	0N028435072



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