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Types 1098-EGR and 1098H-EGR Pressure Reducing Regulators

WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion, fire and/or chemical contamination causing property damage and personal injury or death.

Fisher® regulators must be installed, operated and maintained in accordance with federal, state and local codes, rules and regulations and Emerson Process Management Regulator Technologies, Inc. (Emerson™) instructions.

If the regulator vents gas or a leak develops in the system, service to the unit may be required. Failure to correct trouble could result in a hazardous condition.

Installation, operation and maintenance procedures performed by unqualified personnel may result in improper adjustment and unsafe operation. Either condition may result in equipment damage or personal injury. Use qualified personnel when installing, operating and maintaining the Types 1098-EGR and 1098H-EGR pressure reducing regulator.

Introduction

Scope of the Manual

This manual describes and provides instructions and parts list for Type 1098-EGR or 1098H-EGR regulator complete with a standard P590 Series filter and either a 6350 Series regulator, a 61 Series pilot or a Type Y600AM pilot. The Type 1806 check



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Figure 1. Type 1098-EGR

valve is also covered when a 61 Series pilot is used. Instructions and parts lists for monitoring pilots and other equipment used with this regulator are found in separate manuals.

Description

Types 1098-EGR and 1098H-EGR regulators provide economical and accurate pressure control in a wide variety of applications: natural gas distribution systems; fuel gas supply to industrial boilers, furnaces, ovens and mixers; and large commercial/industrial establishments such as shopping centers and schools. They are also used in plant air service and in liquid service where a slow stroking time (approximately 30 to 90 seconds) is desired on both opening and closing the main valve.



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Types 1098-EGR and 1098H-EGR

Parts Ordering

Each Type 1098-EGR or 1098H-EGR regulator is assigned a serial number or FS number which can be found on the nameplates. Refer to this number when contacting your local Sales Office for assistance or when ordering replacement parts.

When ordering a replacement part, be sure to include the complete 11-character part number from the following parts list. Some commonly used trim packages can be ordered according to the 11-character assembly number given in the parts kits listed in the Parts List.

Parts List

Note

Except where indicated, sizes shown are valve body sizes.

Type EGR Main Valve (Figures 11 and 12)

Key	Description	Part Number
	Elastomer Trim Parts kit (included are: keys 4, 7, 12, 14, 15, 17, 20, 21, 36 and 37)	
	Nitrile (NBR)	
	NPS 1 / DN 25	R63EGX00112
	NPS 2 / DN 50	R63EGX00122
	NPS 3 / DN 80	R63EGX00132
	NPS 4 / DN 100	R63EGX00142
	NPS 6 / DN 150	R63EGX00162
	Fluorocarbon (FKM)	
	NPS 1 / DN 25	R63EGXFK112
	NPS 2 / DN 50	R63EGXFK122
	NPS 3 / DN 80	R63EGXFK132
	NPS 4 / DN 100	R63EGXFK142
	NPS 6 / DN 150	R63EGXFK162
	Ethylene propylene (EPR)	
	NPS 1 / DN 25	R63EGXEP112
	NPS 2 / DN 50	R63EGXEP122
	NPS 3 / DN 80	R63EGXEP132
	NPS 4 / DN 100	R63EGXEP142
	NPS 6 / DN 150	R63EGXEP162
	Actuator Parts kit (included are: keys 5, 6, 7, 56 and 57)	
	Size 30	
	Nitrile (NBR)	R1098X00302
	Fluorocarbon (FKM)	R1098X00502
	Size 40	
	Nitrile (NBR)	R1098X00402
	Fluorocarbon (FKM)	R1098X00602
	Size 70	
	Nitrile (NBR)	R1098X00702
	Quick Change Trim Kit (see Figure 12 for included keys)	
	60 psi / 4.1 bar spring color green	
	Cast Iron Body Flange	
	NPS 1 / DN 25	25A3170X012
	NPS 2 / DN 50	25A3170X102
	NPS 3 / DN 80	25A3170X152
	NPS 4 / DN 100	25A3170X222
	NPS 6 / DN 150	25A3170X272

Key	Description	Part Number
	Quick Change Trim Kit (see Figure 12 for included keys)	
	60 psi / 4.1 bar spring color green (continued)	
	Steel Body Flange	
	NPS 1 / DN 25	25A3170X422
	NPS 2 / DN 50	25A3170X452
	NPS 3 / DN 80	25A3170X372
	NPS 4 / DN 100	25A3170X482
	NPS 6 / DN 150	25A3170X512
	NPS 8 x 6 / DN 200 x 150	25A3170X532
	125 psi / 8.6 bar spring color blue	
	Cast Iron Body Flange	
	NPS 1 / DN 25	25A3170X032
	NPS 2 / DN 50	25A3170X082
	NPS 3 / DN 80	25A3170X142
	NPS 4 / DN 100	25A3170X192
	NPS 6 / DN 150	25A3170X282
	Steel Body Flange	
	NPS 1 / DN 25	25A3170X432
	NPS 2 / DN 50	25A3170X382
	NPS 3 / DN 80	25A3170X462
	NPS 4 / DN 100	25A3170X492
	NPS 6 / DN 150	25A3170X342
	NPS 8 x 6 / DN 200 x 150	25A3170X542
	400 psi / 27.6 bar spring color red	
	Cast Iron Body Flange	
	NPS 1 / DN 25	25A3170X052
	NPS 2 / DN 50	25A3170X112
	NPS 3 / DN 80	25A3170X172
	NPS 4 / DN 100	25A3170X242
	NPS 6 / DN 150	25A3170X312
	Steel Body Flange	
	NPS 1 / DN 25	25A3170X442
	NPS 2 / DN 50	25A3170X332
	NPS 3 / DN 80	25A3170X472
	NPS 4 / DN 100	25A3170X502
	NPS 6 / DN 150	25A3170X522
	NPS 8 x 6 / DN 200 x 150	25A3170X552
	Parts Kit, Quick Change Travel Indicator Kit (included are: keys 10, 6, 35, 5, 8, 7 and 36 (2 required); keys 21, 18, 22, 23, 37, 19, 28 and 9)	
	60 psi / 4.1 bar spring color green	
	NPS 1 / DN 25	10C1212X042
	NPS 2 / DN 50	10C1212X012
	NPS 3 / DN 80	10C1212X022
	NPS 4 / DN 100	10C1212X032
	NPS 6 / DN 150	10C1212X052
	125 psi / 8.6 bar spring color blue	
	NPS 1 / DN 25	10C1212X092
	NPS 2 / DN 50	10C1212X062
	NPS 3 / DN 80	10C1212X072
	NPS 4 / DN 100	10C1212X082
	NPS 6 / DN 150	10C1212X102
	400 psi / 27.6 bar spring color red	
	NPS 1 / DN 25	10C1212X142
	NPS 2 / DN 50	10C1212X112
	NPS 3 / DN 80	10C1212X122
	NPS 4 / DN 100	10C1212X132
	NPS 6 / DN 150	10C1212X152
1	Valve Bodies	See following table
2	Body Flange	
	Cast iron, ENC ⁽¹⁾	
	NPS 2 / DN 50	25A3168X012
	NPS 3 / DN 80	24A9034X012
	NPS 4 / DN 100	25A2309X012
	NPS 6, 8 x 6 or 12 x 6 / DN 150, 200 x 150 or 300 x 150	34A8172X012