

Type 1098 - The Type 1098-EGR regulator provides large capacities for use in large commercial applications and large distributed community systems. Designed to handle loads from 170,000,000 BTU / 1910 SCM (2 in. size) to in excess of 1,000,000,000 BTU / 11,234 SCM (4 in. size) and rated to 75 psig / 5.2 bar for Maximum Outlet Pressure, the Type 1098H is a regulator unmatched in performance in the LPG Industry. The Type 1098's pilot-operated two-path system is designed to quickly respond to sudden changes in the downstream demand, making this regulator ideal for fuel gas supply to industrial boilers, furnaces, ovens and mixers. Temperature rating for the Type 1098 is -20 to 180°F / -29 to 82°C. Actuator/diaphragm are size 40.

Type 1098H - The Type 1098H-EGR regulator also provides large capacities used in systems similar to Type 1098. The Type 1098H uses a special cast iron actuator assembly that increases the Maximum Downstream Pressure rating of the standard Type 1098 up to 300 psig / 20.7 bar, offering an even greater level of protection with outlet pressure settings up to 125 psig / 8.6 bar. Temperature rating for the Type 1098H is -20 to 180°F / -29 to 82°C. Actuator/diaphragm are size 30.

Flanged Bodies - The Types 1098 and 1098H are available with flanged bodies. Flanges are available in 2, 3 and 4 in. body sizes and CL300 FF end connection.

Note: Type 1098 regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed as part of a two-stage system in fixed piping serving 14 in. w.c. / 35 mbar appliance systems unless additional overpressure protection is installed that will make the system compliant with NFPA 58 requirements for a two-stage system. Please consult with your LPG Equipment Distributor for more information.



TYPE 1098-L22 PILOT-OPERATED REGULATOR

Overpressure Protection - The Types 1098 and 1098H is also available in monitor configurations. Note that the Type 1098H regulators may be used either as the worker or monitor regulator. For more information on monitor overpressure protection, see page 42.

The Type 1098 regulator is a highly advanced regulator with many configurations for various applications. **Always consult Emerson to discuss your application prior to placing your order.**

Pilot-Operated High-Pressure Commercial/Industrial Regulators

TYPE	CAPACITIES (PROPANE)		ORIFICE SIZE		INLET AND OUTLET CONNECTION	OUTLET PRESSURE RANGE		OUTLET PRESSURE SETTING		MAXIMUM OPERATING INLET PRESSURE	
	BTU / hr	SCMH	In.	mm		psig	bar	psig	bar	psig	bar
1098-L21	170,500,000 ⁽¹⁾	1915 ⁽¹⁾	2-3/8	60	2 in. FNPT	2 to 10	0.14 to 0.69	10	0.69	400	27.6
1098-L22	215,300,000 ⁽²⁾	2419 ⁽²⁾				3 to 40	0.21 to 2.7	20	1.4		
1098-L23	322,300,000 ⁽³⁾	3621 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4		
1098-F21	170,500,000 ⁽¹⁾	1915 ⁽¹⁾			2 in. / DN 50 CL300 RF	2 to 10	0.14 to 0.69	10	0.69		
1098-F22	215,300,000 ⁽²⁾	2419				3 to 40	0.21 to 2.7	20	1.4		
1098-F23	322,300,000 ⁽³⁾	3621 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4		
1098-F31	356,300,000 ⁽¹⁾	4003 ⁽¹⁾	3-3/8	86	3 in. / DN 80 CL300 RF	2 to 10	0.14 to 0.69	10	0.69		
1098-F32	447,400,000 ⁽²⁾	5026 ⁽²⁾				3 to 40	0.21 to 2.7	20	1.4		
1098-F33	669,500,000 ⁽³⁾	7521 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4		
1098-F41	551,300,000 ⁽⁴⁾	6193 ⁽⁴⁾	4-3/8	111	4 in. / DN 100 CL300 RF	2 to 10	0.14 to 0.69	10	0.69		
1098-F42	693,500,000 ⁽⁴⁾	7791 ⁽⁴⁾				3 to 40	0.21 to 2.7	20	1.4		
1098-F43	1,035,500,000 ⁽³⁾	11,633 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4		

NOTE: Additional spring ranges and body styles are available. Ask your LPG Equipment Distributor for more information.

1. Capacity based on 30 psig / 2.1 bar inlet pressure and 15 psig / 1.0 bar setpoint.
2. Capacity based on 40 psig / 2.8 bar inlet pressure and 20 psig / 1.4 bar setpoint.
3. Capacity based on 75 psig / 5.2 bar inlet pressure and 50 psig / 3.4 bar setpoint.
4. Capacity based on 25 psig / 1.7 bar inlet pressure greater than outlet pressure setting.