

## Relief Valve for Liquid or Vapor Service

**Type MR98H** – is a direct-operated relief valve for use on relief and backpressure applications involving large LPG pumping systems and vaporizers. Internal pressure registration eliminates the need for a control line. Body materials are available in Gray Cast Iron, Steel or Stainless Steel. It is available with Nitrile (NBR) gaskets in sizes from 1/4 in. to 2 in. / 6.35 to 50.8 mm. Relief pressure ranges from 15 to 200 psi / 1.03 to 13.8 bar. Temperature ratings are -40 to 180°F / -40 to 82°C for CI and SST and -20 to 180°F / -29 to 82°C for Steel. Available with: gauge port on inlet, gauge port on outlet and Fluorocarbon (FKM) elastomers.

**Type MR98HH** – Same features as above but relief pressure range is 150 to 375 psig / 10.3 to 25.9 bar.



TYPE MR98H

TYPE MR98HH

### Liquid Service Relief Valves

TYPE	BODY SIZE, IN.	RELIEF PRESSURE RANGE		RELIEF PRESSURE SETTING		PROPANE RELIEF CAPACITY GPM / l/min AT FOLLOWING PRESSURE BUILD-UP OVER RELIEF SETTING									
		psig	bar	psig	bar	5 psig / 0.34 bar		10 psig / 0.69 bar		20 psig / 1.4 bar		30 psig / 2.1 bar		50 psig / 3.4 bar	
						GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min
MR98H-13	1/2 FNPT	25 to 75	1.7 to 5.2	50	3.4	16.9	66.1	26.8	103.4	38.0	140.8	40.8	154.9	49.3	184.5
MR98H-22	3/4 FNPT	70 to 140	4.8 to 9.7	100	6.9	32.4	121.0	53.5	201.4	78.9	300.0	87.3	331.0	104.2	394.4
MR98H-30	1 FNPT	70 to 140	4.8 to 9.7	100	6.9	32.4	121.0	53.5	201.4	78.9	300.0	87.3	331.0	104.2	394.4
MR98H-31	1 FNPT	130 to 200	9.0 to 13.8	175	12.1	29.6	112.4	47.9	178.9	77.5	291.5	90.1	342.3	118.3	446.5
MR98HH-19	1 FNPT	150 to 375	10.3 to 25.9	250	17.2	27.6	104.4	37.7	142.3	61.7	233.8	83.4	315.5	113.0	426.8

## Vapor Relief Valves

**Type 1805** – relief valve is designed for installation between the First and Second-Stage regulators or in the downstream line from a high-pressure regulator used for a Final-Stage service where high line pressures are allowed. Available in 1 or 2 in. valve bodies with a temperature rating of -20 to 150°F / -29 to 66°C.

**Type 289H** – relief valve is designed for installation downstream of larger high-pressure or low-pressure regulators in most all relief applications. The larger diaphragm in this relief valve provides extremely sensitive operation, with a temperature rating of -20 to 150°F / -29 to 66°C.

**Types 1808 and 1808A** – pilot-operated relief valve is designed to protect large high-pressure regulators by offering extremely high relief capacities compared to the Type 289H. The Type 1808 has a temperature rating of -20 to 180°F / -29 to 82°C.



TYPE 1805

TYPE 289H

TYPE 1808

### Vapor Relief Valves

TYPE	BODY SIZE, IN.	RELIEF START-TO-DISCHARGE		SPRING RANGE		PRESSURE BUILDUP OVER SET PRESSURE		CAPACITY (AIR)	
		psig	bar	psig	bar	psig	bar	SCFH	Nm³/h
1805-18P	1 FNPT	15	1.03	5 to 35	0.34 to 2.41	15	1.03	6160 at 30 psig	161 at 2.07 bar
1805-19P	1 FNPT	40	2.75	10 to 60	0.69 to 4.1	15	1.03	3120 at 55 psig	83.62 at 3.79 bar
1805-51P	2 FNPT	15	1.03	5 to 20	0.34 to 1.38	15	1.03	28,500 at 30 psig	748 at 2.07 bar
1805-52P	2 FNPT	40	2.75	10 to 50	0.69 to 3.4	15	1.03	14245 at 55 psig	381.77 at 3.79 bar
1808A-61	2 FNPT, Angle	20	1.4	15 to 40	1.03 to 2.76	10	0.69	78,230 at 30 psig	2053 at 2.07 bar
289H-42	1 FNPT	15	1.03	4 to 15	0.28 to 1.03	15	1.03	33,880 at 30 psig	889 at 2.07 bar
289H-2	2 FNPT	24 in. w.c.	60 mbar	1/2 to 2-1/4	34 to 155 mbar	1.13	78 mbar	15,400 at 2 psig	38 at 138 mbar

NOTE: Some regulators will require more than one relief valve. Consult your local Fisher™ LPG Distributor for proper relief valve sizing.