## Second-Stage Regulators



Types R222, R622, R642, R652, and HSRL Second-Stage regulators are Underwriters Laboratories (UL®) listed regulators designed to reduce the outlet pressure from a First-Stage regulator, usually 10 psig / 0.69 bar to 11 inches w.c. / 27 mbar, in domestic installations. Vents are screened with standard orientation over the inlet, but other orientations are available. Fisher® brand Second-Stage regulators are painted palm green for easy identification. Types R222, R622, R642, and R652 are equipped with a stainless steel inlet screen to reduce the amount of debris entering the regulator and have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

**Type R222** is designed for small domestic applications up to 650,000 BTU per hour / 7.3 SCMH. The unit provides the same features as the Type R622 in a smaller package and its design provides a recommended replacement life of 20 years.

**Type R622** is designed for Two-Stage domestic applications up to 1,400,000 BTU per hour / 15.8 SCMH. The Type R622's time proven design and corrosion resistant materials, provide a recommended replacement life of 20 years.

Type R622 contains a high performance relief valve and a large 3/4-inch screened vent to limit downstream pressure to less than

2 psig / 0.14 bar in an overpressure situation as required by NFPA 58. The relief valve design exceeds the industry standard by limiting the downstream pressure to 2 psig / 0.14 bar even in a double failure situation when used with a Type R622H or R122H First-Stage regulator. The Type R622 is adjustable from 9 to 20 inches w.c. / 22 to 50 mbar.

For easy system checks, the Type R622 has 1/8-inch NPT built-in gauge taps, orificed to a No. 54 drill size, on both the upstream and downstream sides. This regulator also features a large 3/4-inch drip-lip vent design.

**Types R642 and R652** are designed for domestic applications up to 920,000 / 10.4 and 1,000,000 BTU per hour / 11.3 SCMH, respectively. These units provide all the same features as the Type R622, including the 20-year recommended replacement life and double failure protection, in an angle body for the Type R642 and backmounted design for the Type R652.

**Type HSRL** is an UL listed regulator designed for light commercial applications up to 2,600,000 BTU per hour / 29.3 SCMH. It utilizes a high strength cast iron body and a 3/4-inch NPT drip lip vent design. The PFC and SFC feature an angle-body design. The design also includes a high capacity internal relief valve and a 20-year recommended replacement life.

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TYPE NUMBER	CAPACITIES (PROPANE)(1)		INLET CONNECTION,	OUTLET CONNECTION,	OUTLET PRESSURE RANGE		OUTLET PRESSURE SETTING	
	BTU / hour	SCMH	INCHES	INCHES	Inches w.c.	mbar	Inches w.c.	mbar
R222-BAF	650,000	7.3	1/2 FNPT	1/2 FNPT	9.5 to 13	24 to 32	11 / 27	
R622-BCF	875,000	9.8	1/2 FNPT	1/2 FNPT		22 to 32		
R622-CFF	1,400,000	15.8	1/2 FNPT	3/4 FNPT	9 to 13			
R622-DFF			- 3/4 FNPT					
R642-DFF	920,000	10.4						
R652-CFF	1,000,000	11.3	1/2 FNPT					
R652-DFF			3/4 FNPT					
R622-CFGXA	1,125,000	12.7	1/2 FNPT	3/4 FNPT	13 to 20	32 to 50	18 /	45
HSRL-BFC	2,300,000	25.9	3/4 FNPT	3/4 FNPT	9 to 13	22 to 32	11 / 27	
HSRL-PFC								
HSRL-CFC	2,600,000	29.3	1 FNPT	1 FNPT				
HSRL-SFC								