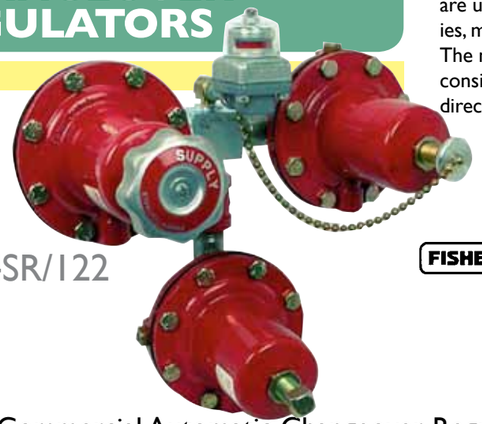
COMMERCIAL CHANGEOVER REGULATORS



64SR/122

Designed for large capacity multi-cylinder or tank installations, these regulators are used on applications such as bakeries, motels, restaurants and grain dryers. The manifold portion of the assembly consists of two 64 regulators and a direct mounted 803 indicator.

FISHER

Type HSRL-749B...For low pressure service. The Second-Stage portion has the drip-lip vent feature and built-in travel stop to open the internal relief valve.

64SR/122…For high pressure (pounds to pounds) service with the outlet pressure supplied by a 64SR that has internal relief protection.

Fisher Commercial Automatic Changeover Regulators

Part No.	Capacity BTU/HR Propane	Inlet Connection	Outlet Connection	Outlet Pressure Setting	Outlet Adjustment Range
HSRL-749B	1,575,000	1/2" FNPT	3/4" FNPT	11" wc	9" - 13" wc
64SR/122	1,210,000		1/2" FNPT	10 psig	5 - 20 psig

R110/21

R130-21

Changeover Manifold Assemblies

R110/21…This manifold supplies an outlet pressure of approximately 15 psig from the supply cylinder and 7 psig from the reserve cylinder. A built-in indicator gives indication of when the changeover has taken place. This manifold changeover regulator can connect to a Second-Stage regulator but does not comply with NFPA 58 or UL 144.

Type R130/21…Composed of two 67 regulators and a special 0-60 psig pressure gauge, the R130 delivers a 45 psig outlet pressure on supply and 30 psig on reserve. The gauge, which serves as the changeover indicator, is painted red from 0-35 psig. When the dial reads in the 0-35 psig range, it indicates that the manifold has switched from the supply to the reserve cylinder.

749B/21…Large capacity changeover manifold for commercial and industrial applications. It consists of two 64 Series regulators and an 803 direct indicator. The assembly is used primarily in conjunction with either an HSRL-749B or a 64SR regulator. The standard outlet setting is 15 psig from the supply and 5 psig from the reserve. Non-stock / Special Order Item

Fisher Changeover Manifold Assemblies

Part No	Capacity BTU/HR Propane[1]	Inlet Connection	Outlet Connection	Outlet Pressure Setting	
				Supply Setting	Reserve Setting
R110/21	500,000	1/4" Inv. Flare	1/4" FNPT	15 PSIG	7 PSIG
R130/21	1,475,000	1/4" FNPT	1/4" FNPT	45 PSIG	30 PSIG
749B/21[2]	1,500,000	1/2" FNPT	1/2" FNPT	15 PSIG	5 PSIG
1. Based on 100 PSIG inlet reserve setting. 2. Non-Stock/Special Order					

Note: These units are intended for use with Second-Stage regulators and/or separate relief devices which provide overpressure protection required by NFPA 58. Capacity of all these changeover manifolds is dependent on the size of the Second-Stage regulator with which they are used. If the manifolds are used as a Final-Stage (pounds to pounds), a relief valve is required in the downstream system.

HIGH PRESSURE REGULATOR

Bergquist

High pressure (pounds to pounds) regulators usually reduce tank pressure to an intermediate pressure for use by another regulator. They may be used as high pressure regulators on distribution systems when used in conjunction with a First-Stage downstream regulator. The 64SR may be used for First-Stage when set at 10 psig. They are also used for Final-Stage service on high pressure burners in crop dryers and tobacco curers, as well as other medium sized commercial/industrial applications.
The 1/4" FNPT side outlet, which is normally plugged, provides an opening for an outlet pressure gauge. Standard 64's are capable of handling liquid or vapor at temperatures under 150°F (66°C). A cover or auxiliary vent assembly should be used to protect the 1/4" FNPT regulator vent opening on outdoor installations.

64…is an adjustable high pressure regulator with a wide range of available outlet pressure ranges. It does not contain a relief valve. It should always be used in conjunction with a downstream regulator and/or separate relief devices in compliance with NFPA 58 overpressure protection requirements.

64KB…has a special diaphragm protection that makes the unit suitable for NH3 service. The 1/4" FNPT tapped and plugged side outlet can be used to install a pressure gauge (J542), or a hydrostatic relief valve. Removing the bottom plug permits easy access to the valve disc, without having to remove the regulator from the line.

64SR…is a high pressure regulator, which has an internal relief valve. As such it may be used as a Final-Stage regulator on high pressure systems. It may also be used as a First-Stage regulator when set at 10 psig or less.

Note: If the installation location makes the ignition of vented gas a possibility, then a vent line should be installed from the 64SR vent to a safe location.

Fisher High Pressure Regulators

Part No.	Description	Capacity BTU/HR Propane[1]	Outlet Pressure Setting	Outlet Adustment Range	Inlet & Outlet Connections
64/33	Basic Regulator	2,625,000	10 PSIG	3-15 PSIG	1/2" FNPT
64/35		3,600,000	20 PSIG	5-35 PSIG	
64/36		4,150,000	40 PSIG	30-60 PSIG	
64/222		5,250,000	50 PSIG	35-100 PSIG	
64SR/21	With Internal Relief Valve	2,625,000	10 PSIG	3-15 PSIG	
64SR/22		3,000,000	15 PSIG	5-20 PSIG	
64SR/23		3,600,000	20 PSIG	5-35 PSIG	
1. Based on inlet pressure 20 PSIG greater than outlet with 20% droop; Liquid capacity = 160 GPH					

Fisher Type 64KB High Pressure Regulators - Suitable for NH_3 Service*

Parrt No.	Capacity, CFH (NH_3)[1]	Oulet Adjustment Setting	Outlet Adjustment Range	Inlet & Outlet Connections
64KB/33	1,650	10 PSIG	3 - 15 PSIG	1/2" FNPT
64KB/35	2,250	20 PSIG	5 - 35 PSIG	
64KB/36	2,600	40 PSIG	30 - 60 PSIG	
64KB/222	3,300	50 PSIG	35 - 100 PSIG	
1. Liquid is 145 GPH at 20 PSIG above set point and 20% droop. Vapor capacity based on 20 PSIG above set point and 20% droop. *Non-Stock, Call for pricing & availability.				

HIGH PRESSURE REGULATORS

67CH

67CD

67CW

67 Series...Suitable for liquid or vapor service, the 67C Series high pressure (pounds to pounds) regulators are used on a variety of applications. All types within the series have a 1/4" FNPT side outlet in which a pressure gauge (J500 series) can be installed. The compact size of the 67C makes it particularly useful on installations where space is limited.

The regulator design utilizes precise guiding of the valve plug to provide close regulation and high performance.

Note: 67C Series regulators do not have an internal relief valve. These units should not be installed in fixed piping serving 1/2 psig appliance systems.

FISHER

67CN

Fisher High Pressure Regulators

Type Number	Description	Capacity BTU/HR Propane_	Outlet Pressure Setting	Inlet & Outlet Connection
67CW-683	Basic Regulator (wrench adjustment)	675,000	15 psig	3 - 20 psig
67CW-684		750,000	20 psig	3 - 35 psi
67CW-685		1,200,000	40 psig	30 - 60 psig
67CW-687		750,000	20 psig	3 - 35 psi
67CW-701		1,000,000	50 psig	50 - 135 psig
67CW-751	Basic Regulator (Handwheel Adjustment)	675,000	15 psig	3 - 20 psig
67CH-743		750,000	20 psig	3 - 35 psig
67CH-742		1,200,000	40 psig	30 - 60 psig
67CH-741		10,000,000	50 psig	50 - 135 psig
67CD-100	Dial Cap Adjustment	675,000	15 spig	5 - 20 psig
67CD-101		750,000	15 psig	5 - 30 psig
67CD-102		1,200,000	40 psig	20 - 50 psig
67CD-103		1,000,000	50 psig	40 - 100 psig
67CN-106	Non-Adjustable	400,000	10 psig	Non-Adjustable
67CN-104		600,000	15 psig	
67CN-105		750,000	20 psig	

** Pressure is permanently calibrated on spring case.*

710A

SHERWOOD

C6120

350-00

Marshall Gas Controls

High Pressure Regulators

Type Number	Capacity BTU/HR Propane[1]	Outlet Pressure Setting	Outlet Adjustment Range	Inlet & Outlet Connection
710A	1,200,000	40 psig	30 - 60 psig	1/4" FNPT
C6120	600,000	15 psig	5 - 45 psig	
350-00	1,500,000	10 psig	0 - 17 psig	

Note: 350-00 is commonly used on the fish cooker apppliance.

COMMERCIAL/ INDUSTRIAL REGULATOR

For large loads like factories, office buildings, restaurants, etc., Fisher has a variety of commercial/industrial regulators. Only the most popular commercial and industrial regulators are shown here. Other orifice sizes and outlet pressure ranges are available. The higher capacities on commercial and industrial installations usually require a Two-Stage regulator system.

627

627 & 630…Large capacity high pressure regulators for use in conjunction with S302G and S202G units. They can also be used on Final-Stage (pounds to pounds) service. An 1805 relief valve is recommended to prevent excessive build-up in the downstream line.

S302G

S202G & S302G…Large capacity low pressure regulators for installation at schools, bakeries, and many other commercial/industrial applications. Both contain a limited capacity internal relief valve; for high capacity relief, a 289 or 289P relief valve is required in the downstream system.

Supplemental relief valves for use with;
627 & 630 regulators use 1805-19 (1") or 1805-52 (2")
S302 & S202 regulators use 289H-2 (2")

S202G

Note: Because of various spring ranges and orifice sizes, all commercial and industrial regulators should be individually sized for the particular installation. Consult specific product bulletins for maximum pressures.

Bergquist

Fisher Commercial/Industrial Regulators

Type Number	Capacity BTU/HR	Orifice Size	In-Out Connection	Outlet Pressure Range	Outlet Pressure Setting
627/5810	6,080,000	3/8"	3/4" FNPT	5-20 PSIG	10 PSIG
627R/113*	6,080,000	3/8"	3/4" FNPT	5-20 PSIG	10 PSIG
627/6210	10,755,000	1/2"	3/4" FNPT	5-20 PSIG	10 PSIG
627/7710	10,773,000	1/2"	1" FNPT	5-20 PSIG	10 PSIG
630-104/78	14,000,000	1/2"	2" FNPT	8-20 PSIG	10 PSIG
S302G-FMC	5,200,000	3/4"	1 1/4" FNPT	6-14" W.C.	11" W.C.
S302G-KMC	5,500,000	3/4"	1 1/2" FNPT	6-14" W.C.	11" W.C.
S302G-SMC	5,500,000	3/4"	2" FNPT	6-14" W.C.	11" W.C.
S202G-BNC	10,600,000	1"	1 1/2" FNPT	9-18" W.C.	11" W.C.
S202G-CNC	14,500,000	1"	2" FNPT	9-18" W.C.	11" W.C.
* Has Internal Relief					