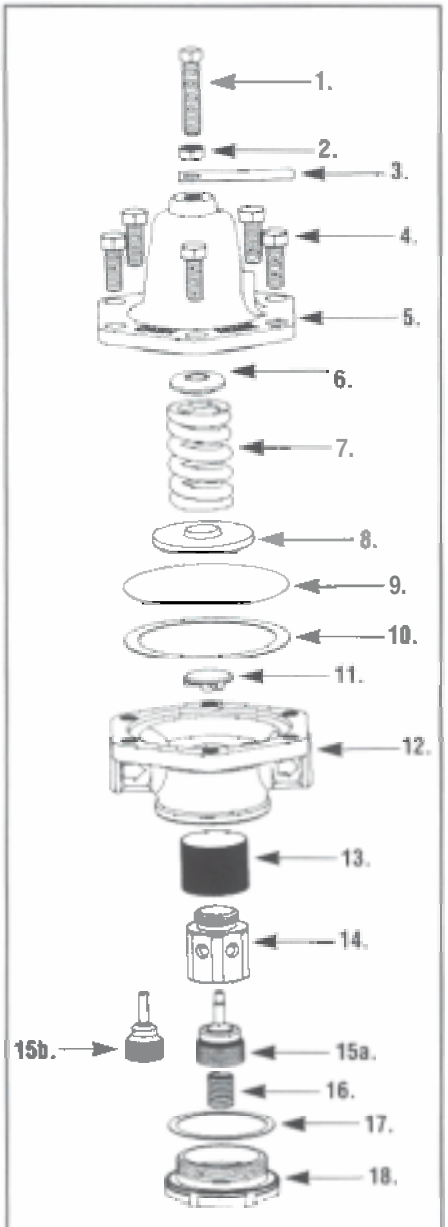
CASH ACME®

TECHSPEC



1. Adjusting Screw
2. Lock Nut
3. Identification Tag
4. Assembly Screws
5. Spring Chamber
6. Spring Button
7. Pressure Spring
8. Pressure Plate
9. Diaphragms
10. Diaphragm Gasket
11. Pusher Post Button
12. Body
13. Strainer Screen
14. Cylinder
15a. Piston Assembly (soft seat)
15b. Piston Assembly (metal seat)
16. Piston Spring
17. Bottom Plug Gasket
18. Bottom Plug

DESCRIPTION

The Type B-95 is a fully automatic pressure reducing valve designed to reduce a high inlet pressure to a lower pressure and maintain the lower pressure to reasonably close limits. Also available in acryogenic version, it is ideal for use in the pressure build-up circuit, lor either liquid oil or gas service.

SPECIFICATION DATA

Service: Air. water, steam, oil and other liquids, also cryogenic liquids and gases.

Sins: 1/2", 3/4" and 1'

Connections: Threaded (N.P.T.)

Temperature Rating: +450°F to -320°F, depending on construction.

Maximum Inlet Pressure: 720 PSIG @ +180°F. 400 PSIG @ -320°F to +450°F.

Pressure Control Ranges: Per spring range table.

SPECIFICATION DATA

Steel or stainless steel bodies and chambers, stainless steel trim. Choice of metal. teflon, or buna-n seating. Buna-n diaphragm (limited to 180°F) or stainless steel laminated diaphragms (to 450°F). Cryogenic version incorporates stainless steel pressure spring, cap screws, and adjusting screw and lock nut.

GENERAL INSTALLATION INSTRUCTIONS

The Type B-95 regulator may be installed in the horizontal position with the spring chamber up or down. For other installation requirements consult the factory. For ease of operation and maintenance. it is suggested that manual shutoff valves be installed upstream and downstream from thevalve. Before installing the valve, all piping should be thoroughly flushed out to remove any foreign material. Install the valve with the inlet pipe fitted to the inlet connection identified on the valve body. Use a compatible sealant on the male pipe threads and do not overtighten the valve connections.

Type B-95

PRESSURE REDUCING OR PRESSURE BUILD REGULATOR

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OPERATING INSTRUCTIONS

Adjusting the Delivery Pressure

The regulator's delivery pressure setting is adjusted by turning the adjusting screw (1) at the top of the spring chamber (5) after loosening the adjusting screw lock nut (2). To increase delivery pressure, turn the adjusting screw clockwise (into the spring chamber). To decrease the delivery pressure. turn the adjusting screw counter-clockwise (out of the spring chamber). After each adjustment, draw flow downstreamandclose to check new setting. Tighten the adjusting screw lock nut after theadjustment has been made.

MAINTENANCE INSTRUCTIONS

The following procedures are provided for servicing the recommended spare parts for the Type B-95 regulator. Repair parts can easily be installed without removing the regulator from the line.

INSTALLATION, MAINTENANCE & REPAIR PARTS INFORMATION ,

REDUCED PRESSURE RANGES (PSIG)								
SIZE	STEEL SPRING	STAINLESS SPRING	SIZE	STEEL SPRING	STAINLESS SPRING	SIZE	STEEL SPRING	STAINLESS SPRING
1/2"	2-30 10-50 30-125 50-150	10-30 20-75 25-125 100-200 150-250	3/4"	2-20 10-35 30-75 50-110 105-150	10-30 20-70 50-150 100-225 150-250	1"	2-20 10-45 20-60 55-100 90-150	10-35 20-60 50-100 100-250

NOTE (1) Steel springs are furnished as standard. Stainless springs furnished for higher ranges and for all cryogenic valves.
NOTE (2) Stainless Steel valves available with 200-400 PSI range. Consult factory.
NOTE (3) For steam service, we recommend a Max. differential pressure of 150 PSI to prevent seal erosion.

Refer to the Type B-95 regulator exploded view for parts identification.

Servicing the Diaphragm Assembly (9) and Pressure Spring (7)

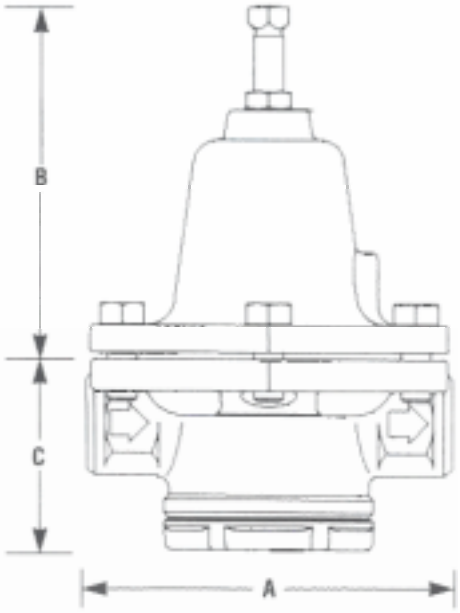
1. Loosen the lock nut (2) 1/4 turn and turn the adjusting screw (1) counter-clockwise until the pressure spring (7) is no longer under tension.
2. Remove the six assembly screws (4) securing the spring chamber (5) to the valve body (12). During reassembly, tighten the screws evenly in an alternate diagonal pattern.
3. Lift the spring chamber (5) from the valve body. Then remove the spring button (6), pressure spring (7), and pressure plate (8). The pressure plate is not secured to the diaphragm.
4. Remove the Diaphragms (9), and the diaphragm gasket (10) located under the diaphragms. Four metal diaphragms are used. If a buna diaphragm is supplied, gasket is not required.
5. Remove the pusher post button (11) from the protruding pusher post. During reassembly, be sure the pusher post button is centered properly on the pusher post
6. Inspect all parts and replace if necessary. Reassemble the parts in reverse order.

Servicing the Cylinder (14), Piston (15), Strainer Screen (13), and Bottom Plug Gasket (17).

1. It is important that the load on the pressure spring (7) be relieved before attempting to service any parts through the bottom of the valve. Relieve the pressure spring tension as detailed in Step 1 under Servicing the Diaphragm Assembly (9) and pressure spring (7), above.
2. Remove the bottom plug (18) as follows: The bottom plug is under slight tension as a result of the piston spring (16) acting against the plug. Loosen the bottom plug with a standard wrench, then carefully unscrew the plug by hand. The piston (15). piston spring (16), and strainer screen (13) will normally "drift" out with the bottom plug.
3. Thoroughly clean the strainer screen and flush the valve body to remove any foreign material that may have collected around the strainer screen.
4. Unscrew the hexagon cylinder (14) from the valve body with a socket wrench to prevent distortion.
5. Inspect all parts if necessary. Should either the cylinder (14) or the piston (15) need replacing, then it will be necessary to replace both parts because both parts wear equally.
6. Reassemble the valve in reverse order. After placing the valve in service readjust the delivery pressure as detailed under Operating Instructions.

AVAILABLE OPTIONS

Closing cap. T-handle. Handwheel. Also available with drilled and tapped spring chamber for differential service.



TRIM OPTIONS WITH PRESSURE AND TEMPERATURE LIMITS						
BODY	TRIM	SEAT	DIAPHRAGM	MAX INLET PRESSURE	MAX OUTLET PRESSURE	TEMP RANGE
Steel	St Steel	Metal Buna-N Teflon	St. Steel Buna-N St. Steel	400 psig 720 psig 400 psig	250 psig 400 psig* 250 psig	-20°F to 450°F -20°F to 180°F -20°F to 350°F
St. Steel	St. Steel	Metal Buna-N Teflon	St. Steel Buna-N St. Steel	400 psig 720 psig 400 psig	250 psig 400 psig* 400 psis'	-20°F to 450°F -20°F to 180°F -320°F to 350°F

Requires diaphragm spacer and modified pressure plate.

SIZE	DIMENSIONS			SHIP. WT. (lbs.)
	A	B	C	
1/2"	4-1/2"	5-3/8"	1-19/32"	7 1/2
3/4"	5-1/4"	5-7/16"	1-15/32"	8 1/2
1"	5-7/8"	6-5/32"	1-5/8"	13 1/2

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