

Fusible Devices

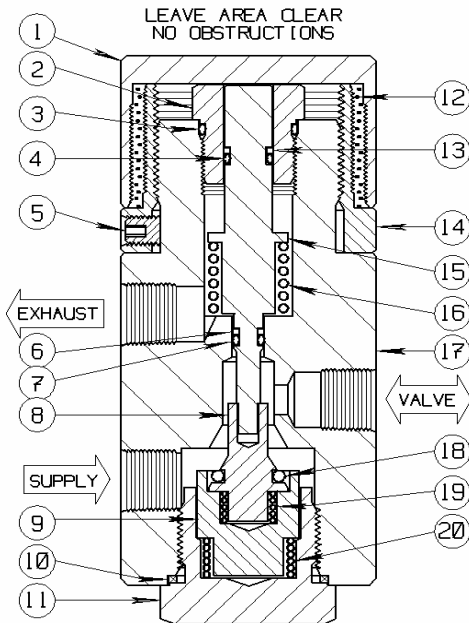
Fusible Valves - 3-Way Block & Bleed (Pop-Top)

1/4" FEMALE NPT, 3-WAY NO, 10,000 PSI MAX

Model 15RS84



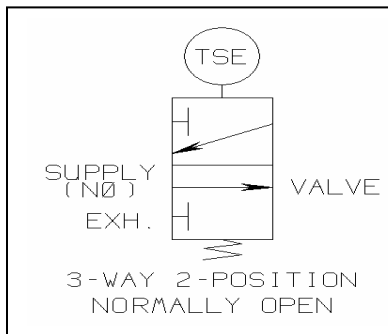
Conforms to the CE Category IV of the European Pressure Equipment Directive Issue Certificate No. 97/23/EC



The 15RS84 Fusible Valve is a two position, three-way normally open Block & Bleed, **Temperature Sensitive** flow control device. When intense heat or close proximity to a fire causes the valve temperature to exceed the eutectic melting point, valve springs (Items 16, 19 and 20) decompress moving Poppet (Item 8) to block inlet supply pressure and vent downstream (receiving circuit) pressure out the Exhaust port.

Fusible Valves are used to close safety valve actuators to isolate potential fuel sources from fire.

Fusible Valves are available with four common temperatures: 158° F, 203° F, 255° F and 281° F. Other temperatures are available through special order inquiry.



PARTS LIST:

- | | |
|-------------------|---------------------|
| 1. Pop Top | 11. Retainer |
| 2. Retainer | 12. Fusible Element |
| 3. O Ring * | 13. Back Up Ring * |
| 4. O Ring * | 14. Connector Sub |
| 5. Set Screw * | 15. Valve Plunger |
| 6. Back Up Ring * | 16. Spring * |
| 7. O Ring * | 17. Valve Body |
| 8. Poppet | 18. TFE O Ring * |
| 9. Cup Seal | 19. Spring * |
| 10. Copper Ring * | 20. Spring * |

* Indicates parts included in a Repair Kit

Sigma Model Number 15RS84

1/4" FEMALE NPT, 3-WAY NO, 10,000 PSI MAX

Product Specifications

Flow Control Application: Normally Open

Control Function: Three-Way (Block & Bleed) – Pop Top

Pressure Rating Body (Control Ports): 10,000 PSI maximum (690 bar)

Media Service: Hydraulic Fluid

Temperature Service (Select): ____ 158° F. ____ 203° F. ____ 255° F. ____ 281° F.

Note: Other specific temperature options available through special order.

Connection Size (Body): 1/4-18 Female N.P.T. Supply, Valve, Exhaust

Orifice: 7/32 Diameter **Cv Factor:** 0.50

Wetted Component Material (Metal): 316 Stainless Steel and 17-4PH SS

Seal Material: Viton and Teflon

Mounting: Field Mount (Standard)

Weight: 3.5 Lbs.

Operating Temperature: -20° F to +250° F (-29° C to +121° C)

Overall Dimensions: 4-3/4 Height x 2 Diameter (12.07 cm Height x 5.08 cm Diameter)

Installation and Maintenance Instructions:

Install between the interface valve and the actuator. This is done by threading the pipe or fitting from the control system into the port labeled "Supply". The piping from the actuator is threaded into the port labeled "Valve". The piping from the hydraulic fluid reservoir is threaded into the port labeled "Exhaust". If the temperature in the area of the valve exceeds the rated temperature, the valve will open and the control system will trigger an exhaust of the hydraulic fluid from the actuator through the exhaust port. Sigma recommends the use of appropriate thread sealant for each port connection.

Shelf Position Port Status

Supply	Instrument supply pressure open to valve port
Valve	Outlet pressure to receiving control circuit (closed to exhaust port)
Exhaust	Depressurizes receiving control circuit upon actuation

Repair Kit Information

Repair Kits contain all of the Seals and other components typically replaced when repairing the assembly. In order to maintain optimum operating control function.