

# Spence™ Type D50A Pressure Reducing Regulator



## Introduction

The D50A is a Direct-Operating Pressure Reducing Regulator. It offers constructions suitable for use in Water, Oil, Air, and Steam Service.

Type D50A Water and Air Regulators are suitable for a variety of applications including paint spray equipment, dishwashers, air tanks and equipment, food, chemical and industrial process gases and many other applications.

The D50A offers:

- Easy Maintenance
- Variety of Sizes: ¼" to 2" NPT
- Materials for use in Steam, Water, and Air Service
- Standard Adjusting Screw and T-Handle option
- Provides Tight ShutOff

## Operation



See how the D50A functions when demand changes occur in the system.



# Type D50A Pressure Reducing Regulator

## Specifications:

- End Connection: NPTF
- Body: Iron
- Spring: Steel
- Bottom Plug: Brass

## Water and Air Service

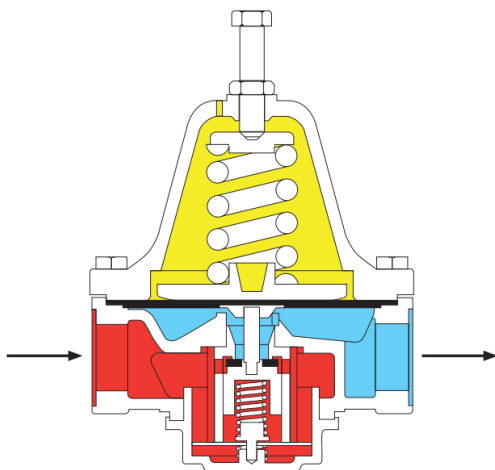
- Maximum Inlet pressure ( Air and Water) 200psi/ 13.8 bar
- Maximum Outlet Pressure ( Air and Water): 150 psi / 10.3 bar
- Maximum Operating Temperature (Air or water): 180°F / 82°C
- Seat Disk (Water and Air): Nitrile (NBR)
- Diaphragm (Water and Air): Nitrile (NBR)

Type D50A Regulators are available in 1/4 to 2 NPT sizes with iron bodies and feature a variety of optional internal trim (diaphragm, piston and cylinder) that enable them to be used in a wide range of applications. Each regulator is equipped with a pressure spring selected to provide the desired outlet or reduced delivery pressure setting. Depending on the adjusting spring installed, delivery pressures may be adjusted from a minimum of 2 psig / 0.14 barg to a maximum of 150 psig / 10.3 barg. The range of adjustment or satisfactory working range of the individual springs that may be fitted to each regulator size is listed in the spring range table. See Table 1 in the Product Bulletin. The regulator is designed for systems with a maximum operating temperature of 400°F / 204°C.

## Steam Service


- Maximum Inlet Pressure ( Steam): 150 psi / 10.3 bar
- Maximum Outlet Pressure (Steam): 125 psi / 8.62 bar
- Maximum Operating Temperature (Steam): 400°F / 204°C
- Seat Disk (Steam): Polytetrafluoroethylene (PTFE)
- Diaphragm (Steam): Bronze

These regulators are designed for steam operating temperatures up to 400°F / 204°C and are available in 1/4 to 2 NPT sizes with iron bodies. Iron body regulators have a PTFE seat and are for systems with initial pressures up to 250 psig / 17.2 barg. Regulators will normally be equipped as indicated in the product bulletin, but other combinations of body material, bottom plug and diaphragm are available to special order. The Type D50A Steam Pressure Reducing and Regulating Regulator is ideally suited for installation in pressing irons, steam cookers, degreasers, sterilizers, vulcanizers and hundreds of other applications. Type D50A Steam Regulators can also be furnished with a differential pressure control feature which may be desirable in steam/oil atomizing service.



■ INLET PRESSURE  
■ OUTLET PRESSURE  
■ ATMOSPHERIC PRESSURE

## For More Information Visit us at:

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