PRESSURE CONTROL VALVES

Model F1320-300

Pressure Reducing Control Valve



PRODUCT DESCRIPTION

The pressure reducing valve model F1320-300 has been specifically designed for fire protection systems. It can be used in fire pump discharge control, hose station feeds, sprinkler systems with over pressure, deluge systems with over pressure, foam systems and fire hydrant water supply.

It reduces high, unstable upstream pressure to maintain precise stable downstream pressure, regardless of changing upstream pressure or flow, and requires only existing line pressure to operate. It is designed to install it in horizontal or vertical orientation.

TECHNICAL DATA

Model	F1320-300
Sizes	2” DN50, 2 ½” DN65, 3” DN80, 4” DN100, 6” DN150, 8” DN200, 10” DN250
End connection	Flanged ends to EN 1092-2 PN10/PN16, ANSI B16.1 Class125. (Other available on request)
Rated Working Pressure	21 bar (300 psi)
Outlet pressure range	4,4 to 11,4 bar (65 to 165 psi)
Materials	Main valve body and bonnet: Ductile Iron A536 Diaphragm: Nylon Reinforced Natural Rubber/EPDM/NBR Seat ring: Stainless Steel Pressure Reducing Pilot: Bronze Stem and spring: Stainless Steel (Other materials of construction are possible)
Finish	Enamel pain or fusion bonded epoxy coated interior and exterior

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OPERATION

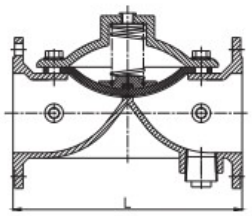
The pressure reducing valve model F1320-300, reduces water pressure automatically and accurately from a high inlet pressure to a lower, preset outlet pressure.

When the pressure-reducing pilot valve senses changes in outlet pressure it modulates the control valve to maintain the preset outlet pressure.

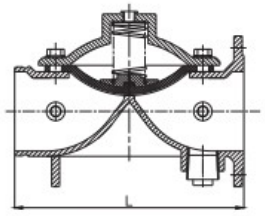
When the outlet rises above the preset pressure the control valve close further and reduce outlet pressure. When outlet pressure falls, the pilot valve opens wider, releasing pressure from the control chamber. This causes the control valve to open wider and increase outlet pressure.

The outlet set pressure can be adjusted by way of the pilot adjusting screw. An integral restrictor controls the valve's closing speed.

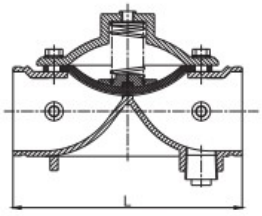
DIMENSIONS



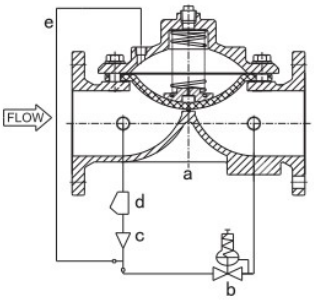
FL x FL Ends



FL x GR Ends



GR x GR Ends



Size (mm)	DN50	DN65	DN80	DN100	DN150	DN200	DN250
L	233	290	310	356	436	530	636

NO.	Components	NO.	Components
A	Basic Control Valve	D	Y-strainer
B	Pressure Reducing Pilot	E	Pipeline
C	Restriction Orifice		

INSTALLATION, TESTING AND MAINTENANCE

The relief valve model F1320-300 must be installed, inspected and tested by a qualified and trained person according to NFPA-20 requirements.

Before assembly of the pressure reducing valve to the supply piping, thoroughly flush the piping with water to avoid sand, residue, welding slag or other debris hindering the proper functioning of the valve. After few initial successful tests, an authorized person must be trained to perform the inspection and testing of the reducing valve.

It must be inspected regularly for possible damage or dirt around the moving parts. If any abnormal conditions are observed such as poor discharge, excessive wear, water leak, corrosion effect, damage etc., then reducing valve must be taken out of service and repaired by qualified technician or replaced.

The relief valve should be ready for use. To achieve this condition, scheduled inspection and maintenance operation should be performed and it must be recorded in the maintenance register book indicating the requirement or recommendation. The recommended maintenance, procedure must be followed as given in the manual and as per the local authority having jurisdiction.

Periodic proper greasing through grease nipple provided on bearing, worm wheel and worm shaft must be ensured. Use water resistant low friction synthetic grease.

The owner is responsible for maintenance of the relief valve in proper operating condition.

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ORDERING INFORMATION

CODE		
SIZE	CONNECTION	
	DIN	ANSI
2” DN50	VRP300BR050F0	VRP300BR050F0
2 ½” DN65	VRP300BR065F0	VRP300BR065F1
3” DN80	VRP300BR080F0	VRP300BR080F1
4” DN100	VRP300BR100F0	VRP300BR100F1
6” DN150	VRP300BR150F0	VRP300BR150F0
8” DN200	VRP300BR200F0	VRP300BR200F1
10” DN250	VRP300BR250F0	VRP300BR250F1

Specify:

Model (straight or angle)	
Quantity	
Size of valve	
End connection	
Installation position	
Material	

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  - Extended Coverage
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  - Dry
  - Accessories
- System Valves
  - Wet
  - Dry
  - Preaction Equipment
  - Accessories
- Spray System Open Nozzles
  - High Velocity Nozzles
  - Medium Velocity Nozzles
  - Window Nozzles
  - Hydroshield Nozzles
  - Mushroom Type Nozzles
- Foam equipment
  - Tanks
  - Proportioners
  - Foam Discharge Equipment
  - Foam Concentrates
- Deluge equipment for Water Spray and Foam
  - Clapper Deluge Valves
  - Diaphragm Deluge Valves
- Monitors
  - Manual Monitors
  - Remote Monitors
  - Monitor Nozzles
  - Towers and Trolleys
- Valves
  - Butterfly Valves
  - Gate Valves
  - Check Valves
  - Pressure Control Valves
  - Test and Drain
  - Hose, Hydrant and Fire Connection Valves
  - Fire Department Connections

The equipment presented in this data sheet is to be installed in accordance with the latest published Standards of the national fire protection association (NFPA), FM Global, LPCB, VdS or other similar organizations, also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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