VARIABLE FLOW PROPORTIONERS FOR BLADDER TANKS

Models AG-CVPB & AG-CVPI
Ratio controller



PRODUCT DESCRIPTION

Ratio controller model AG-CVPB & AG-CVPI is part of a foam installation. This device has been designed to enter the correct amount of foam concentrate into the water stream over a variable range.

These ratio controllers are used in conjunction with balanced pressure systems such as bladder tanks and pumped proportioning skids.

The Ratio Controller works on venturi principle. As the water passes through the inlet jet, a reduction in pressure in the annular area is created. This reduction allows the metering of the foam concentrate into the water stream through the foam concentrate metering orifice.

The total flow rate must equal the flow rating of the mixer at its outlet pressure.

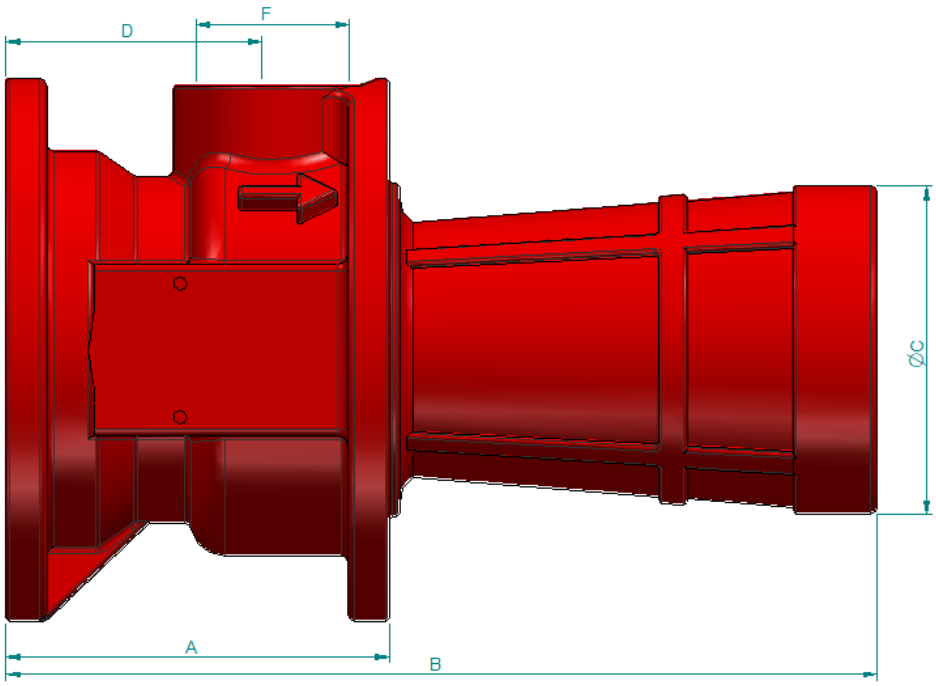
TECHNICAL DATA

Models	AG-CVPB AG-CVPI
Sizes	AG-CVPB-065: 2,5” DN65 AG-CVPB-080: 3” DN80 AG-CVPB-100: 4” DN100 AG-CVPB-150 & AG-CVPI-150: 6” DN150 AG-CVPB-200 & AG-CVPI-200: 8” DN200
End connections	Wafer between flanges
Foam concentrate inlet connection (F)	Thread female BSP
Maximum working pressure	12 bar (175 psi)
Factory tested hydrostatically	25 bar (350 psi)
Materials	AG-CVPB: Bronze* AG-CVPI: Stainless Steel*
Finish	Red RAL 3001 or Natural Finish

*Consult material before ordering

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DIMENSIONS



SIZE	DIMENSIONS (mm)				
	A	B	Φ C	D	F
2 ½" DN65	68	178	61,5	40,4	Thread 1"BSP (F)
3" DN80	95	172	71,4	62,9	Thread 1-1/4"BSP (F)
4" DN100	112	254,5	95,7	74,9	Thread 1-1/2"BSP (F)
6" DN150	125	319	143,2	80,9	Thread 2"BSP (F)
8" DN200	130	340	184,7	86	Thread 2-1/2"BSP (F)

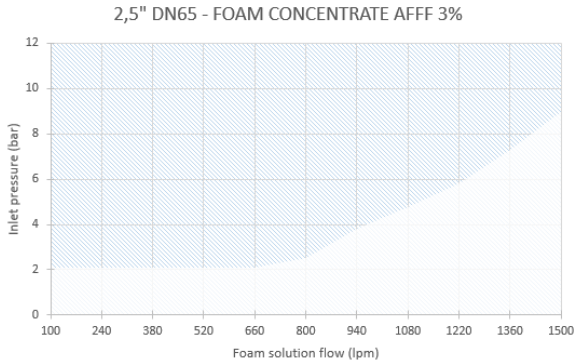
RATIO CONTROLLER FLOW RANGE

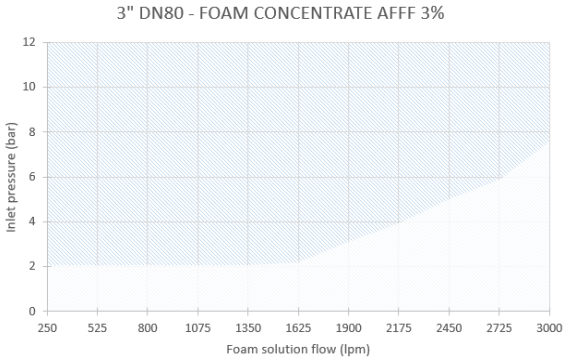
SIZE	**FLOW RANGE** (lpm)	
	AFFF 3%	**ARC-AFFF 3x3%**
2 ½" DN65	100 to 1500	450 to 1450
3" DN80	250 to 3000	790 to 3050
4" DN100	600 to 6000	1150 to 6000
6" DN150	1200 to 12000	2000 to 12000
8" DN200	2800 to 17800	2350 to 17500

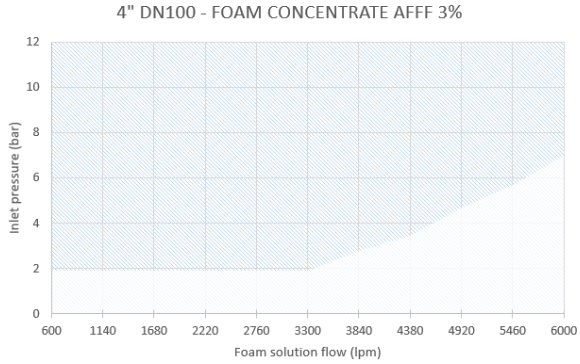
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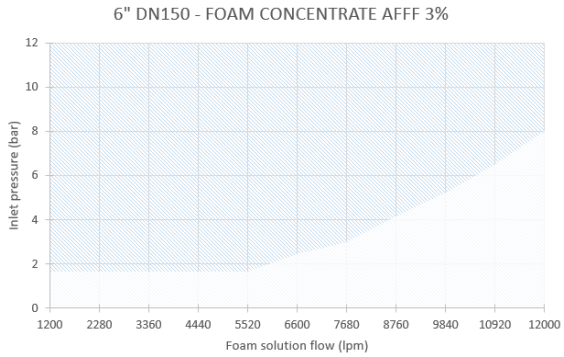
INLET PRESSURE VS FOAM SOLUTION FLOW

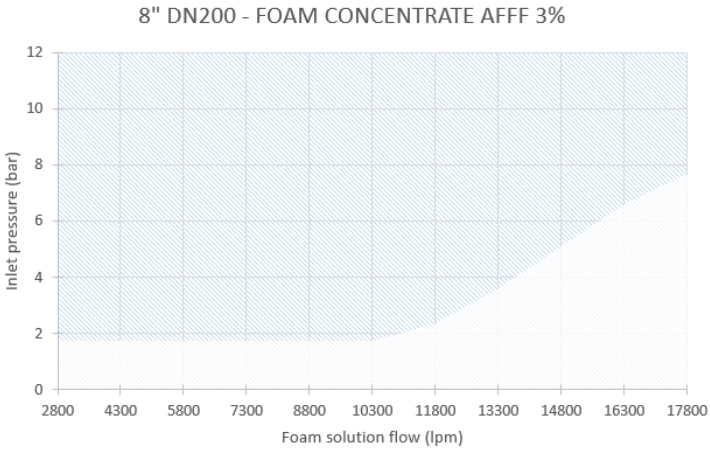
FOAM CONCENTRATE AFFF 3%







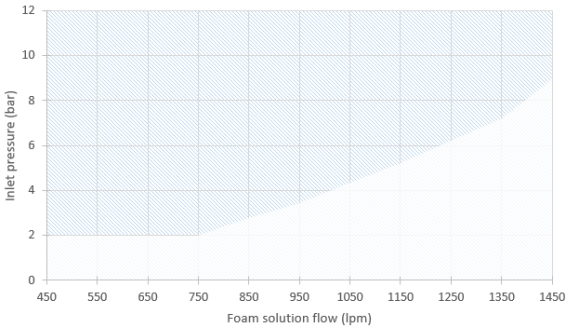




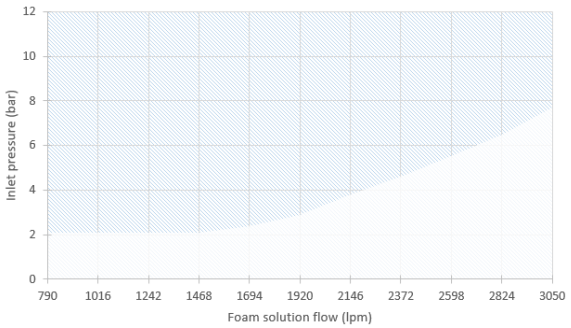
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FOAM CONCENTRATE AR-AFFF 3X3%

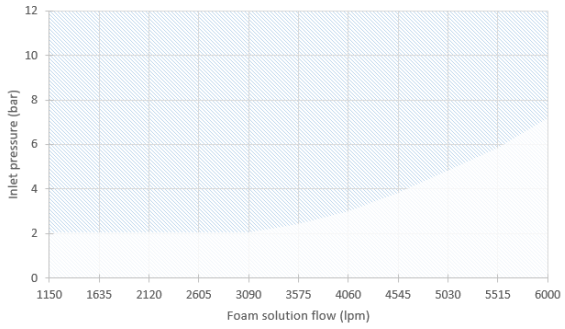
2,5" DN65 - FOAM CONCENTRATE AR-AFFF 3X3%



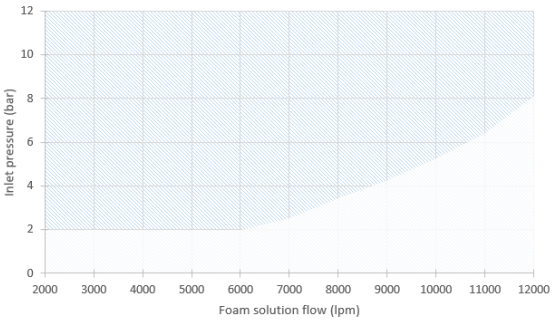
3" DN80 - FOAM CONCENTRATE AR-AFFF 3X3%



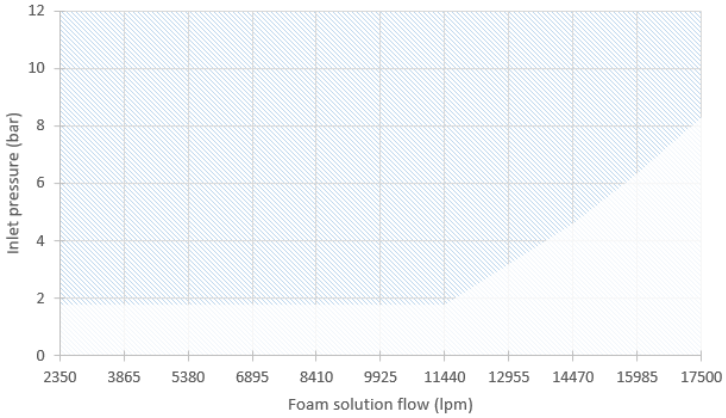
4" DN100 - FOAM CONCENTRATE AR-AFFF 3X3%



6" DN150 - FOAM CONCENTRATE AR-AFFF 3X3%

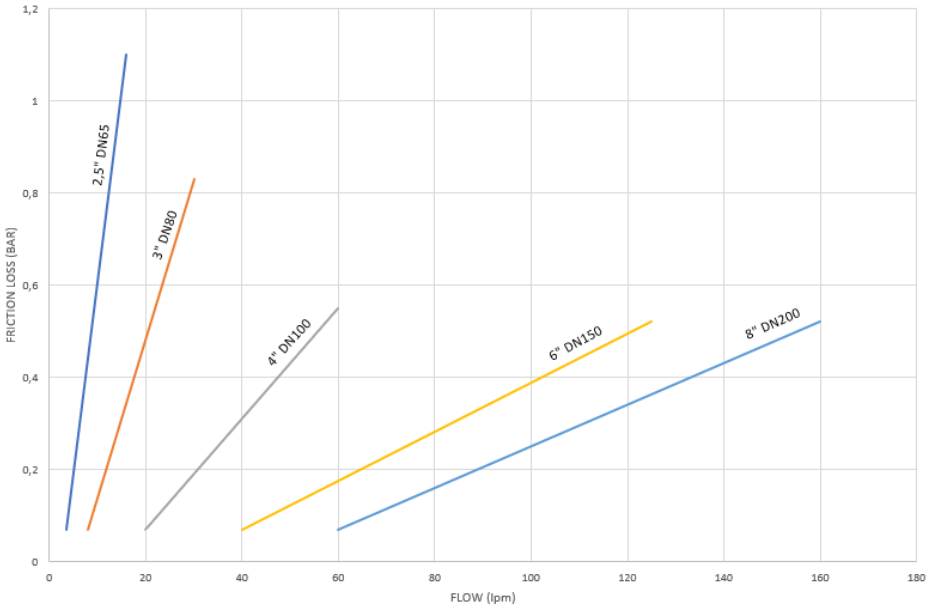


8" DN200 - FOAM CONCENTRATE AR-AFFF 3X3%



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FLOW (lpmx100) VS PRESSURE LOSS (bar)



INSTALLATION, TESTING AND MAINTENANCE

The ratio controller must be installed, inspected and tested by a qualified and trained person.

Installation must respect the flow direction indicated by an arrow on the body.

This Ratio Controller is wafer style to be mounted in SCH40 pipe between two flanges.

Minimum straight unobstructed pipe of five diameters is required before and after ration controller.

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 ratio controller must be taken out of service and repaired by qualified technician or replaced.

Do not act on the ratio controller before relieving the pressure in the water line and having isolated the foam concentrate supply line.

When removing for maintenance pay attention not to damage the connections and the lines.

The owner is responsible for maintenance of the ratio controller in proper operating condition.

ORDERING INFORMATION

SIZE	MATERIAL	
	STAINLESS STEEL	BRONZE
2 ½" DN65		AG-CVPB-065
3" DN80		AG-CVPB-080
4" DN100		AG-CVPB-100
6" DN150	AG-CVPI-150	AG-CVPB-150
8" DN200	AG-CVPI-200	AG-CVPB-200

Specify:

Model	
Quantity	
Size	
Minimum and maximum pressure	
Flow rate	
Induction percentage	
Type of foam concentrate used	

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  - Standard Coverage
  - Extended Coverage
  - Storage
  - 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 bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and 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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