

# High Flow Automatic Cascading Sequence Valve • 6000 psi

SKU: 1085

Price: 2532.00



## Description

The Aqua Environment 1085 primary function is control of cascade systems used for such purposes as filling breathing air cylinders and vehicle CNG (compressed natural gas) tanks. Used between a compressor and a cascade system of storage tanks, the 1085 valve can be used to fill the highest pressure bank first, then the next highest, etc. without operator assistance. Here, the 1085 valve permits the compressor to operate at the pressure of the bank being filled rather than the maximum system pressure, as is the case with simple priority or back pressure valves. When used between the storage banks and tank being filled, the 1085 can deliver gas from the lowest pressure bank until equalized, then the next higher pressure bank, etc. without operator assistance. A one-inch thread section is provided on the end permitting a way to mount the valve. A one-inch hole is required in a mounting plate or panel.

The standard 1085 valves comes with a bias pressure of 250 psi. [Contact the Nuvair sales team](#) directly if a custom bias pressure is required. Additional bias pressures include:

- 80 psi (SKU 1085-80)
- 120 psi (SKU 1085-120)
- 400 psi (SKU 1085-400)

## Typical Applications

- Sequence valve for automatic cascading
- High flow

## Specifications

<b>SKU</b>	1085
<b>Type</b>	Sequence Valve
<b>Inlet Port Size</b>	1/4" MNPT
<b>Outlet Port Size</b>	1/4" FNPT
<b>Control Port Size</b>	Close control: 1/4" FNPT Open control: 1/4" MNPT
<b>Maximum Rated Pressure</b>	6000 psi
<b>Maximum Differential Pressure</b>	6000 psi
<b>Outlet Pressure Rating</b>	6000 psi
<b>Maximum Control or Dome Pressure</b>	6000 psi
<b>Body Material</b>	Anodized aluminum
<b>Flow Coefficient (Cv)</b>	0.8 (0.23" orifice)
<b>Leakage</b>	Bubble Tight
<b>Open Bias Pressure</b>	7% greater pressure required on shut control relative to open control to actuate valve close
<b>Bias Pressure</b>	250 psi standard
<b>Minimum Temperature</b>	-15°F (-26°C)
<b>Internal Materials</b>	Anodized aluminum Brass Stainless steel Steel
<b>Body Material</b>	Anodized aluminum
<b>Seal Materials</b>	Kel-F, Viton
<b>Weight</b>	28.7 oz (815 g)
<b>Overall Length</b>	9" (22.9 cm)
<b>Round Diameter</b>	2.25" (5.7cm)
<b>Repair Kit</b>	1085-20