Protect your instruments and your plant personnel with

CHEMIQUIP

STANDARD FLOAT-CHECK VALVE

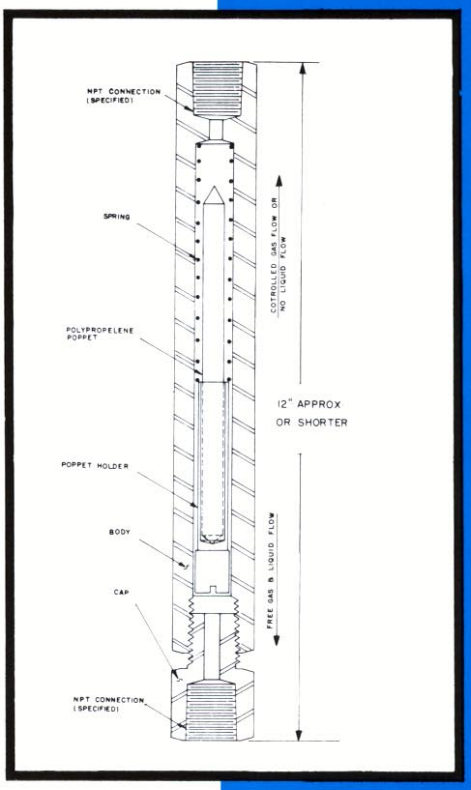
MODEL NO. FCV-25 & FCV-50

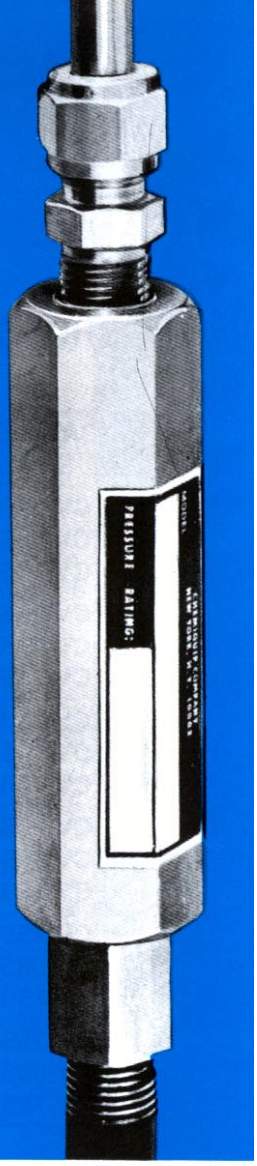
Features Stainless Steel or Brass construction with ¼" NPT (FCV-25) or ½" NPT (FCV-50) female connections.

Designed for use in Gas-Hydraulic Systems to prevent carry-over of liquids into gaseous phase of system.

A DUAL PURPOSE VALVE

1. Excess Flow Valve-Close in the event of rupture.
2. Liquid-Gas Separator. It allows gas flow but seals as soon as liquid enters





Maximum Operating Pressure: **Brass: 6000 psi**
Stainless Steel: 10,000 psi

IN OPERATION

Valve is to be vertically mounted and it permits passage of gas. When the environment in the Valve changes from gas to liquid, a float rises, closing the valve and preventing flow of liquid from entering the system. It remains closed while the float is in a liquid environment. When the liquid level subsides, float lowers to permit gas to flow through the system again.

TYPICAL APPLICATIONS

The filling of tanks or other containers with liquid by means of vacuum is a typical application. If vacuum is applied across the Valve, it closes when liquid level reaches it to prevent entrainment of liquid into vacuum system.

Valve is also used for the relief of vessels. While vessel is being filled, Valve remains open to permit discharge of displace air or other gas from vessel. If desired, Valve can be designed to shut-off at a predetermined gas flow rate. When vessel is completely filled with liquid, Valve closes automatically to prevent spillage.

CORROSION-RESISTANT

Excess Float Check Valve withstands the corrosive action of strong alkalis or reagents. For normal uses, Valve is made of type 303 stainless steel. With a hollow polypropylene float which can be used for liquid with specific gravity of 0.7 or above. Other materials of construction are available upon request.

CATALOG NUMBER	MATERIAL	END CONNECTIONS	HEX SIZE	LENGTH
FCV-255	303 S.S. w/ Polypropylene Float	¼" - 18 NPT (Female)	1¼"	12"
FCV-25B	Brass w/ Polypropylene Float	¼" - 18 NPT (Female)	1¼"	12"
FCV-50S	303 S.S. w/ Polypropylene Float	½" - 14 NPT (Female)	1½"	12"
FCV-50B	Brass w/ Polypropylene Float	½" - 14 NPT (Female)	1½"	12"

Custom Designed valves to meet your requirements are available upon request in terms of the following:

- Predetermined flow rate of gas must not be exceeded.
- Normal flow and operating pressure.
- Higher pressure and temperature rating for valves.
- Different sizes and styles of end connections.
- Different types of material of construction (examples: Monel, 316 SS, Teflon, ... etc.)