FEATURES

◇ MINIMAL HEAD LOSS
Contour of body provides a short and straight flow path that generates very little turbulence. Additionally, the spring-loaded discs are designed with very low cracking pressure which reduces the amount of energy required to open the valve.

◇ QUICK CLOSURE TO REDUCE WATER HAMMER
Shut-off is achieved via the fully automatic, spring-assisted discs that close near zero flow velocity. The lightweight, split disc design creates a positive shut-off prior to flow reversal and helps to keep slamming and surges to a minimum.

◇ DESIGNED FOR LONG SERVICE LIFE
The spring and discs are designed to allow the discs to lift linearly before pivoting to avoid the disc heal from scrubbing the sealing surface. Also, discs are equipped with cast-in shock bumpers that help to reduce wear and tear on internal components.

◇ FUGITIVE EMISSION DESIGN
The retainer-less body design eliminates potential leak paths to the environment so there are no body emissions.

◇ RESILIENT AND METAL SEATS
Board, lapped sealing surface (metal) meets or exceeds API 598 test requirements. Resilient seats (Viton/Buna) ensure a bubble tight seal.

MARKETS: WATER & WASTEWATER, PULP & PAPER, CHEMICAL & PETROCHEMICAL, POWER, PETROLEUM AND OIL & GAS

BUNA-N PROPERTIES: Most widely used elastomer. Good for most petroleum oils and fluids, silicone greases and oils, and cold water. Excellent compression set, tear, and abrasion resistance. Poor weather resistance and moderate heat resistance. Not recommended for severe ozone-resistant applications.

VITON PROPERTIES: Offers a broad range of chemical resistance and excellent heat resistance. Good mechanical properties and compression set resistance. Often used in applications where nothing else will work. Fair low temperature resistance and limited hot-water resistance and shrinkage.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.

TECHNICAL

PRESSURE/TEMPERATURE RATING
CS - ASTM A216 GR. WCB - CLASS 150
WOG (Non-shock): 285 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING
SS - ASTM A351 GR. CF8M - CLASS 150
WOG (Non-shock): 275 PSI @ 100 °F

SEAT MATERIAL TEMPERATURE RANGE
Viton: -40 ~ 400 °F
Buna-N: -20 ~ 250 °F

SPRING MATERIAL TEMPERATURE MAXIMUM
Inconel X-750: 1000 °F

1. The above listed temperatures are theoretical and may vary during actual operating conditions.
2. Max and min temperatures are for reference only. Prolonged use at these temperatures is not recommended for optimal service life.
1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Denotes recommended spare parts.
3. Part #7, Eye Bolt, is only on Sizes 8” and up.
4. Metal seat is stainless steel.

Additinal Design & Technical Notes:
• The CV42L has a fugitive emission design. The retainer design body design eliminates potential leak paths to the environment so there are no body emissions.

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