

CODMAN®
SIPHONGUARD®
Anti-Siphon Device

Assuring consistency
and durability with a unique
mechanical design

Preventing exposure
to the failures caused by
encapsulation

Providing the added safety
of a pathway that's always open

Bringing a unique level of confidence
to protecting hydrocephalus patients

Codman®
SPECIALTY SURGICAL

A DIVISION OF INTEGRA LIFESCIENCES

SIPHONGUARD®. The only dual pathway, ball-and-spring anti-siphon device.

Providing the added safety of a pathway that is always open

The CODMAN SIPHONGUARD is the only dual pathway anti-siphon device in which both pathways function in concert. During normal flow, both the primary and secondary pathways are open. When excessive flow is detected, only the primary pathway closes. The secondary pathway remains open ensuring the critical, continuous slow release of CSF needed to prevent the damaging complications of overdrainage.

Preventing exposure to the failures caused by encapsulation

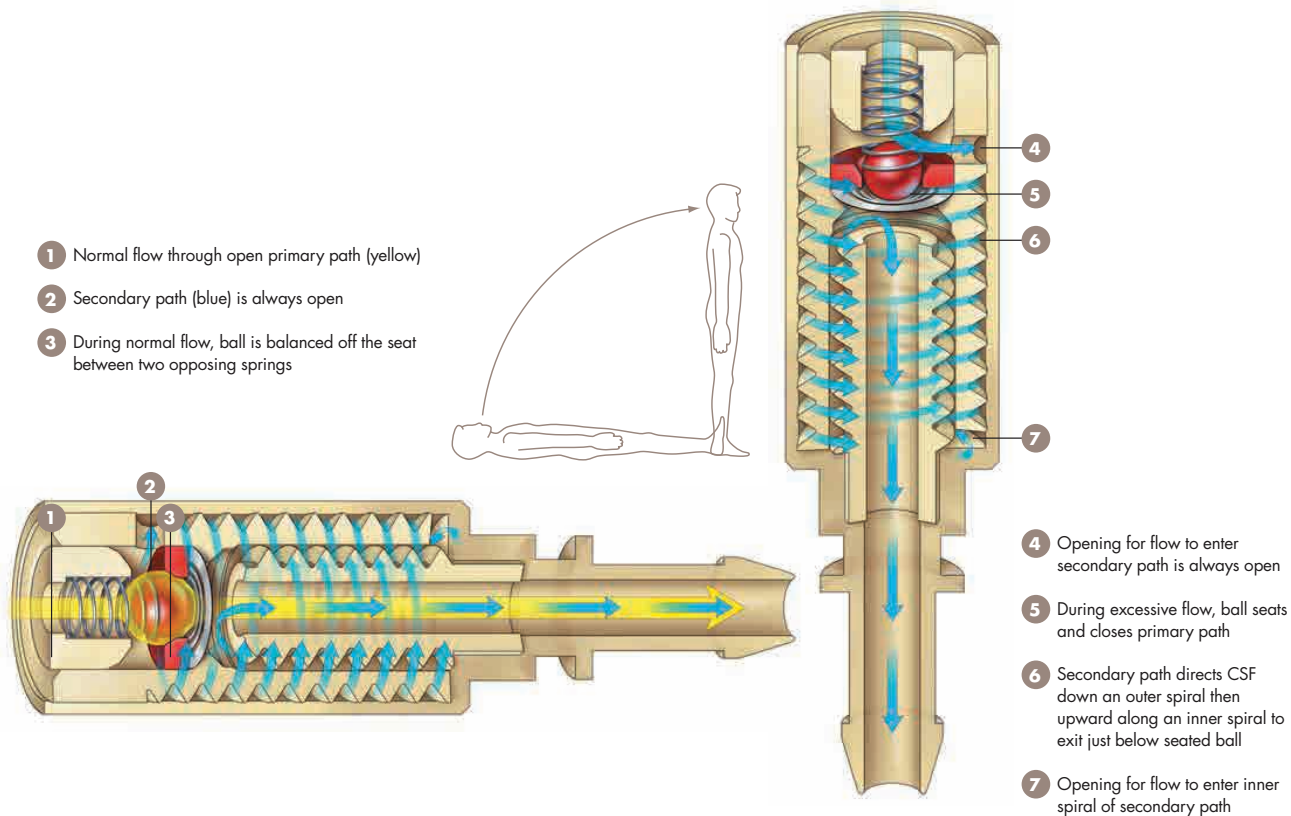
The SIPHONGUARD proven ball and spring mechanical design is encased in a polyethersulfone shell making it impervious to the conditions that routinely cause silicone diaphragm device failure. Its flow sensing performance and durability are totally unaffected by scar tissue encapsulation or external pressures. And, because it's mechanical rather than silicone, SIPHONGUARD doesn't deteriorate over time.

Assuring consistency and durability with a unique mechanical design

A diaphragm device is dependent on its ability to sense atmospheric pressure. Encapsulation, external pressure or deteriorating pliability impair that ability. SIPHONGUARD is unaffected by any of those conditions. Its unique, totally protected ball-and-spring design remains reliably sensitive to differences between normal and excessive flow. When the ball and spring detects excessive flow, the ball shuts down the primary pathway. The secondary pathway remains open, slowly releasing CSF by utilizing a higher resistance, spiraling pathway to impede the flow. When the flow returns to normal, the ball lifts allowing both primary flow to resume and secondary flow to continue.

Available in an integrated or stand-alone configuration

The SIPHONGUARD Anti-Siphon Device is available as an integral component of the CODMAN® HAKIM® Programmable and Precision valve technologies, or as a stand alone upgrade to current shunt implants. The stand alone device is placed anywhere distal to any valve and includes all the safety, mechanical and durability design advantages that make SIPHONGUARD so inherently reliable.



Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

- Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.
- Warning: Applicable laws restrict these products to sale by or on the order of a physician.
- Consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

For more information or to place an order, please contact:

United States

USA 800-654-2873 ▪ 888-980-7742 fax
integralife.com

INTEGRA
LIMIT UNCERTAINTY