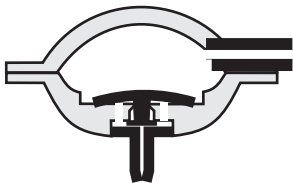


# GSL 'DOME VALVE' HYDROCEPHALUS SHUNT SYSTEM

## *i* INTRODUCTION

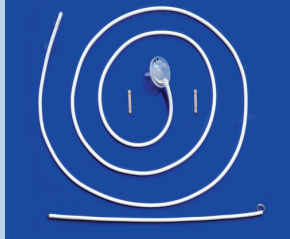
GSL "Dome Valve" Hydrocephalus shunt system is a burr hole type of shunt. It has been designed to shunt cerebrospinal fluid from left ventricles of brain to the peritoneal cavity or rt. Atrium of heart. The Main controlling valve is Dome type of valve, which sits on a silicone seat. Except the connector whole shunt is made of medical grade silicone elastomer only.

It has been developed and manufactured by SURGIWEAR with more than 25 years of experience in shunt development and manufacturing. Shunts manufactured by SURGIWEAR are used by almost 1/5<sup>th</sup> population of the world in more than 50 countries around the world.



## *a* ADVANTAGES

- The design is such that it can sit on a 16 mm burr hole.
- Another important feature of this design is large surface area valve. Because of large surface area valve the chances of valve blockage are less

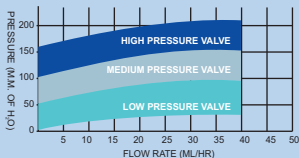


The CSF can easily pass through it. Collection of debris is also less likely.

- The distal part is unitized with the valve. It saves lot of time from applying the connector and ligatures.
- Distal part and ventricular part is made of radio-opaque silicone rubber. It can be seen in x-ray image.
- The diameter of tube and connector is enough to allow thick CSF to pass through it.
- There are no metal parts to interfere with MRI.

## *d* DESCRIPTION

Each system consists of one 16 mm "Dome Valve" reservoir unitized with 90 cm distal part. A 15 cm Ventricular part has 32-40 holes in 4 rows and the tip is made of tantalum impregnated silicone plug. The distal part has 4 slits to prevent back flow of fluid. The slits also aid in manual pumping action of reservoir. 2 nos. straight connectors are supplied with each pack. The connectors are made of PEEK plastic. All components are tested and made of USP class VI plastics only.



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## **i** INDICATIONS

The GSL DOME VALVE Hydrocephalus shunt system is used for treatment of raised intra cranial tension & hydrocephalous, to shunt CSF from lateral ventricles of brain to peritoneum or rt. atrium.

## **c** CONTRAINDICATIONS

Presence of all kinds of infection (meningitis, ventriculitis, skin infection, bacteremia, septicemia and peritonitis etc.) whether local or general, prohibits all kind of implantation procedures. It is advisable to avoid shunt implantation in such cases.

## **m** METHOD OF USE

Initial flushing of shunt system: It is a must that all GSL DOME VALVE shunt systems be flushed with either sterile water or normal saline before use. Remove plastic tags from slits of distal catheter. Use 5 cc or 10 cc syringe with blunt 14 gauge needle.

Valve patency test: Using syringe and a blunt needle fill the reservoir with water. Lift the syringe, the fluid should come out of distal slits drop by drop. Ensure that there are no air bubbles in the shunt. In case the fluid does not pass, again flush the shunt and repeat patency test.

Surgical Procedure: The implantation of shunting system including placement of GSL DOME VALVE may be accomplished through variety of procedures. The choice depends upon the training of neurosurgeon, customs in that hospital, country.

Therefore the surgeon is best advised to use method, which his/her own practice and training dictate to be best for the patient. The stylet supplied with the system, may be used to support ventricular end during implantation.

For warnings, precautions & complications please refer to Instruction for use enclosed with the product. For any specific query please contact SURGIWEAR.

## **h** HOW SUPPLIED

GSL "Dome Valve" Shunt system is available in following three types:

Type	Product code
High pressure	SH601
Medium Pressure	SH602
Low Pressure	SH603

Each system is supplied complete with one unitized GSL "Dome Valve" reservoir with 90 cm radio-opaque distal part, one 15 cm ventricular part and two straight connectors. The system is sterilized by Ethylene Oxide gas and packed in double peel open packaging.

### PRODUCT INFORMATION DISCLAIMER

G. Surgiwear Limited has exercised reasonable care in the choice of materials and manufacture of this product. G. Surgiwear Limited excludes all warranties, whether expressed or implied by operation of law or otherwise, including, but not limited to any implied warranties of merchantability or fitness for a particular purpose. G. Surgiwear Limited shall not be liable for any incidental or consequential loss, damage or expense, directly or indirectly arising from use of this product. G. Surgiwear Limited neither assumes nor authorizes any other person to assume for it, any other or additional liability or responsibility in connection with this product.

Patent in India Pending.

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