

SR Seal (welding frame)

MCT Brattberg supplies a pressure-resistant, round cable transit that is suitable for waterproofing feeding a pipe or cable from 4 to 100 mm: the SR Seal. The SR Seal consists of a galvanized steel or stainless steel sleeve and a round element for filling. The steel sleeve is intended to be inserted into a fitting round hole in a steel wall or deck.

The filling element is made of silicone rubber and finished with galvanised steel mounting parts. The rubber of the SR Seal consists of a core and 1 or more round rings, which can be removed to be able to seal the cable(s). If the core is not removed, the SR Seal can also be used as a blind lead-through, for example to feed a cable or pipe in the future.



The most important properties of the SR Seal:

- A60 certified by Lloyds Register in accordance with IMO 754 (18)
- Tested to a water pressure of 5 bar
- Resistant to water, dust, ice formation, vermin, etc.
- Metal parts of the SR Seal are made of galvanized steel
- Sleeves are included to be able to weld the penetration into a wall
- Different sizes on request

Sizes

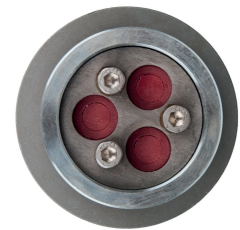
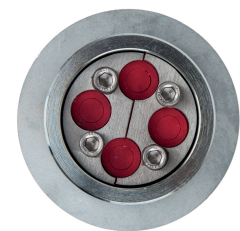
The SR Seal is available in eight sizes. After the SR Seal is made suitable for the cable to be fed through, by removing the core and possibly one or more rubber rings around the core, the cable can be easily fixed by tightening the Allen screws that are on the round filler element.

To feed existing cables, the rubber parts of SR Seal can be supplied cut-in, or can be opened on site with a punch knife.

| SR Type | Cable diameter | | Sleeve Ø (mm) |
|---------|----------------|----------|---------------|
| | Min (mm) | Max (mm) | |
| SR 25 | 6 | 12 | 33.4 |
| SR 38 | 11 | 24 | 48.3 |
| SR 38-2 | 6 (2x) | 12 (2x) | 48.3 |
| SR 38-3 | 6 (4x) | 12 (4x) | 48.3 |
| SR 49 | 20 | 32 | 60.3 |
| SR 62 | 30 | 42 | 73 |
| SR 77 | 40 | 52 | 88.9 |
| SR 102 | 50 | 70 | 114.3 |
| SR 125 | 65 | 85 | 140 |
| SR 150 | 80 | 100 | 168.3 |

MSR Cable gland

The MCT Brattberg MSR cable gland is a pressure-resistant cable gland, tested up to 5 bar, developed for the rapid entry of cables or pipes in an existing steel wall. In addition to being pressure-resistant, the MSR swivel is also A60 fire-retardant. To apply the MSR cable gland, only a hole has to be drilled to size in the steel wall or floor. There is no need for welding, which saves a lot of time. The MSR cable gland is made in galvanized steel or in stainless steel on request.



The MSR cable gland is available in ten standard variants. Deviating sizes are available in consultation. The MSR cable glands range is suitable for cables from 4 to 32 mm. In addition to cable glands for single cables, cable glands for multiple cables (maximum 8) are also available.

Features of the MSR cable gland:

- Multiple swivel for sealing cables in steel walls or decks, without the need for welding
- A60 certified by Lloyds Register in accordance with IMO 754 (18)
- Tested to a water pressure of 5 bar
- Resistant to water, dust, ice formation, vermin, etc.
- Metal parts of the MSR Gland are made of stainless steel
- The MSR sleeve is made of galvanized steel (stainless steel on request)
- Alternatives are also available in addition to standard sizes

The MSR cable gland consists of a steel housing with screw thread, a gasket, a sealing nut and a filling element. The filling element is made of silicone rubber and finished with steel mounting parts. The rubber of the MSR cable gland consists of a core, or a few cores, and 1 or more round rings, which can be removed in order to be able to properly seal the cable (s). If the core is not removed, the MSR cable gland can also be used, partially or completely, as a blind lead-through.

After the MSR cable gland has been made suitable for the cables to be fed through, by removing each core and possibly one or more rubber rings around the core, the cables can be easily fixed by tightening the Allen screws that are located on the round filler element.

To feed through existing cables, the rubber parts of MSR cable gland can be supplied cut-in, or opened on site with a punch knife.

| Type | Cable diameter (mm) | | No. cables |
|----------|---------------------|-----|------------|
| | Min | Max | |
| MSR 20-1 | 4 | 12 | 1 |
| MSR 40-1 | 11 | 24 | 1 |
| MSR 40-2 | 6 | 15 | 2 |
| MSR 40-3 | 6 | 12 | 4 |
| MSR 50-1 | 4 | 10 | 5 |
| MSR 50-2 | 4 | 16 | 3 |
| MSR 50-3 | 20 | 32 | 1 |
| MSR 63-1 | 4 | 16 | 4 |
| MSR 63-2 | 4 | 10 | 8 |
| MSR 63-3 | 22 | 32 | 1 |

SIZE RANGES SR-MSR

MSR GLANDS

| SEAL TYPE | CABLE ENTRIES | (A) CENTRE PLUG RANGE | (B) MIDDLE RING RANGE | (C) LAST RING RANGE |
|---------------------------------|---------------|-----------------------|-----------------------|---------------------|
| MSR20 TYPE 1 SEAL (1 x 4-12) | 1 | 4 - 6 mm | 6 - 12 mm | n/a |
| MSR40 TYPE 1 SEAL (1 x 11-24mm) | 1 | 12 - 18 mm | 18 - 24 mm | n/a |
| MSR40 TYPE 2 SEAL (2 x 6-15mm) | 3 | 6 - 9 mm | 9 - 15 mm | n/a |
| MSR40 TYPE 3 SEAL (4 x 6-12mm) | 4 | 6 - 12 mm | n/a | n/a |
| MSR50 TYPE 1 SEAL (5 x 4-10mm) | 5 | 4 - 10 mm | n/a | n/a |
| MSR50 TYPE 2 SEAL (3 x 4-16mm) | 3 | 4 - 10 mm | 10 - 16 mm | n/a |
| MSR50 TYPE 3 SEAL (1 x 20-32mm) | 1 | 20 - 26 mm | 26 - 32 mm | n/a |
| MSR63 TYPE 1 SEAL (4 x 4-16mm) | 4 | 4 - 10 mm | 10 - 16 mm | n/a |
| MSR63 TYPE 2 SEAL (8 x 4-10mm) | 8 | 4 - 10 mm | n/a | n/a |

SR GLANDS

| SEAL TYPE | CABLE ENTRIES | (A) CENTRE PLUG RANGE | (B) MIDDLE RING RANGE | (C) LAST RING RANGE |
|---------------------------|---------------|-----------------------|-----------------------|---------------------|
| SR25 SEAL (1 x 4-12mm) | 1 | 4 - 6 mm | 6 - 12 mm | n/a |
| SR38-1 SEAL (1 x 11-24mm) | 1 | 12 - 18 mm | 18 - 24 mm | n/a |
| SR38-2 SEAL (2 x 6-15mm) | 2 | 6 - 9 mm | 9 - 15 mm | n/a |
| SR38-3 SEAL (4 x 6-12mm) | 4 | 6 - 12 mm | n/a | n/a |
| SR49 (1 x 20-32mm) | 1 | 20 - 26 mm | 26 - 32 mm | n/a |
| SR62 (1 x 30-42mm) | 1 | 30 - 36 mm | 36 - 42 mm | n/a |
| SR77 (1 x 40-52mm) | 1 | 40 - 46 mm | 46 - 52 mm | n/a |
| SR102 (1 x 50-70mm) | 1 | 50 - 57 mm | 57 - 64 mm | 64 - 70 mm |
| SR125 (1 x 65-85mm) | 1 | 65 - 72 mm | 72 - 78 mm | 78 - 85 mm |
| SR150 (1 x 80-100mm) | 1 | 80 - 87 mm | 87 - 94 mm | 94 - 100 mm |

Deck & Bulkhead Gland

MCT Brattberg has developed a flameproof penetration for the feeding of a few cables by ship's walls, where no welding work is required.

The Deck & Bulkhead Gland is made of galvanized steel and is available in 2 lengths and with 2 lengths of thread. In total there are 4 basic variants; 6 different sizes are available for each basic variant (M16 to M60).

The different lengths of both the swivel tube and the thread are normally selected on the basis of the thickness of the insulating layer present on the wall. Cables that are carried through can vary from 4 to 60 mm.



Features of the Deck & Bulkhead Gland:

- A60 certified by Lloyds Register in accordance with IMO 754 (18)
- Tested to a water pressure of 10 bar
- Resistant to water, dust, fire and pressure
- Made of galvanized steel
- Equipped with soft rubber core for flexible cable routing
- Housing is available in 4 types (different in total length and length of thread)
- There are no additional parts or specific work for assembly (such as welding) is necessary
- NATO Stock coding available
- Certified according to DEF STAN 07-225 / 1 (previously NES 510)

Sizes and dimensions

| | Min. reach cable (mm) | Max. reach cable (mm) | Metric screw thread | Flange diameter (mm) | Bolt | Weight (kg) |
|--|-----------------------|-----------------------|---------------------|----------------------|------|-------------|
| 150mm gland with 30mm long thread | | | | | | |
| D&B 16-150-30 | 4 | 16 | M33x2 | 70 | 46 | 1,5 kg |
| D&B 25-150-30 | 13 | 25 | M50x2 | 80 | 65 | 2,6 kg |
| D&B 35-150-30 | 23 | 35 | M60x2 | 100 | 80 | 3,5 kg |
| D&B 50-150-30 | 32 | 50 | M75x2 | 120 | 100 | |
| D&B 60-150-30 | 48 | 60 | M90x2 | 150 | 120 | |
| 150mm gland with 70mm long thread | | | | | | |
| D&B 16-150-70 | 4 | 16 | M33x2 | 70 | 46 | 1,6 kg |
| D&B 25-150-70 | 13 | 25 | M50x2 | 80 | 65 | 3,0 kg |
| D&B 35-150-70 | 23 | 35 | M60x2 | 100 | 80 | 4,1 kg |
| D&B 50-150-70 | 32 | 50 | M75x2 | 120 | 100 | 5,7 kg |
| D&B 60-150-70 | 48 | 60 | M90x2 | 150 | 120 | 8,1 kg |
| 75mm gland with 30mm long thread | | | | | | |
| D&B 16-75-30 | 4 | 16 | M33x2 | 70 | 46 | 1,0 kg |
| D&B 25-75-30 | 13 | 25 | M50x2 | 80 | 65 | 1,8 kg |
| D&B 35-75-30 | 23 | 35 | M60x2 | 100 | 80 | 2,5 kg |
| D&B 50-75-30 | 32 | 50 | M75x2 | 120 | 100 | 3,6 kg |
| D&B 60-75-30 | 48 | 60 | M90x2 | 150 | 120 | |
| 75mm gland with 70mm long thread | | | | | | |
| D&B 16-75-70 | 4 | 16 | M33x2 | 70 | 46 | 1,2 kg |
| D&B 25-75-70 | 13 | 25 | M50x2 | 80 | 65 | 2,2 kg |
| D&B 35-75-70 | 23 | 35 | M60x2 | 100 | 80 | 2,9 kg |
| D&B 50-75-70 | 32 | 50 | M75x2 | 120 | 100 | |
| D&B 60-75-70 | 48 | 60 | M90x2 | 150 | 120 | |