

Spear length for D-system drop-in and SOS keg valves.

- By measuring spear:
 - Remove spear from keg
 - Measure full length of spear/valve assembly from end to end in millimeters. This provides spear length \pm 1mm
- By measuring keg:
 - Measure the distance from the bottom (lowest point) of the keg to the top of the neck lip that the spear o-ring seals against, in millimeters. This is the “H3” length. Add 12 mm to the H3 length to obtain the total spear length \pm 2mm.
 - **Caution** – be aware that damage to the bottom or top of the keg from impacts, or expansion due to high/freezing temperatures may render this measurement inaccurate.

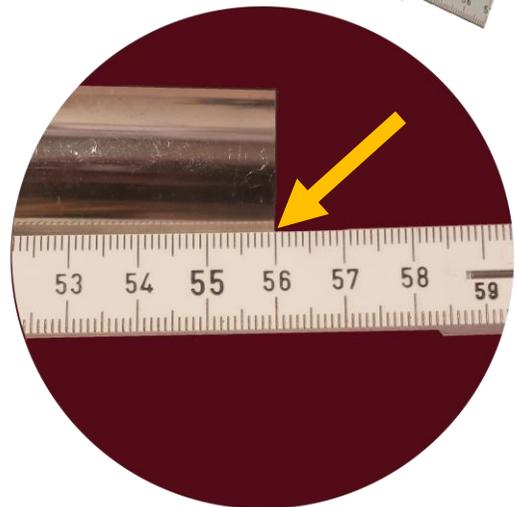
Spear length for D-system thread-in (AKA 14 TPI) keg valves.

- By measuring spear:
 - Remove spear from keg
 - Measure full length of spear/valve assembly from end to end in millimeters. This provides spear length \pm 1mm
- By measuring keg:
 - Measure the distance from the bottom (lowest point) of the keg to the top of the neck lip that the spear sealing ring seats against, in millimeters. This is the “H3” length. Add 15 mm to the H3 length to obtain the total spear length \pm 2mm.
 - **Caution** – be aware that damage to the bottom or top of the keg from impacts, or expansion due to high/freezing temperatures may render this measurement inaccurate.

See accompanying diagrams for further detail.

Method #1 – Measure Spear

If you believe that the spear length is correct, simply measure the entire length of the assembled spear, in mm. In this example, the spear is 56 cm = 560 mm



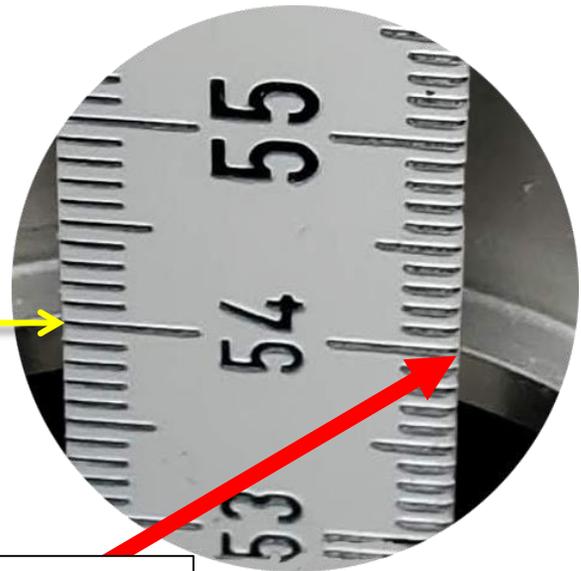
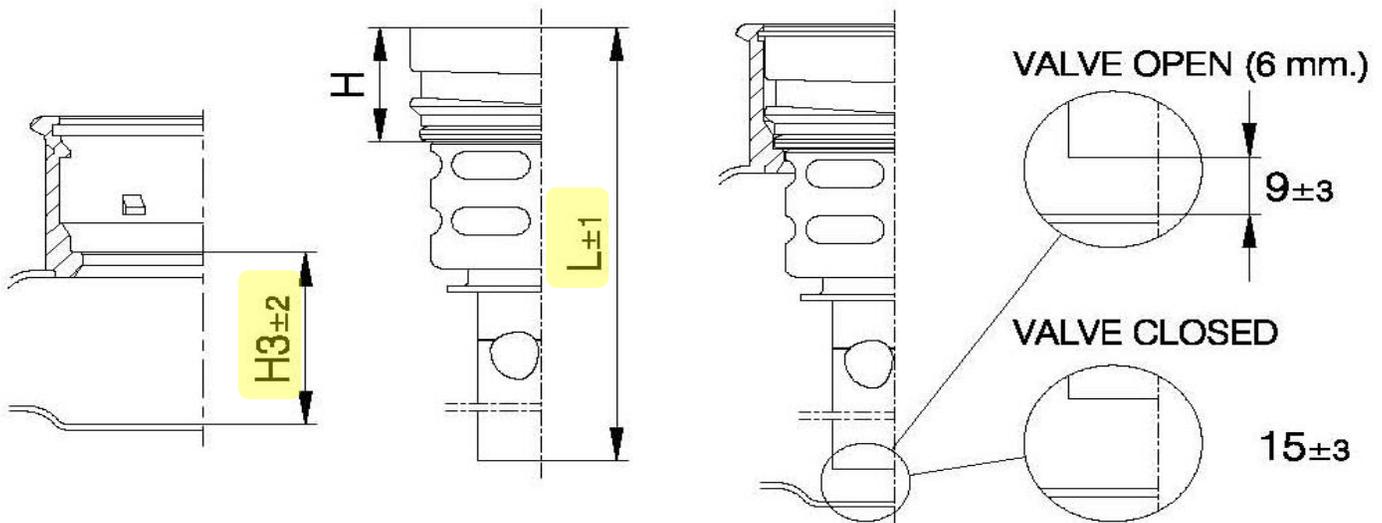
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Method #2 – Measure Keg H3 dimension

Measure from the lowest point inside the keg to the top of the lip inside the keg neck. This keg with a drop-in neck shows an H3 dimension of 54 cm (540mm), so the spear needs to be 552mm (540mm + 12mm)

- Drop-in, SOS Type Necks: $H3 + 12\text{mm} = L$
- 14tpi Threaded Necks: $H3 + 15\text{mm} = L$



H3 = 540mm



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