

SHLM CR

Single Point Insertion Source Holder



Application Area

The SHLM CR source holder is designed for radiation-based measurement of applications including density, interface,and continuous and point level. The most common industries for the SHLM CR include:

- Chemical
- Petrochemical
- · Offshore
- Refining

Advantages

Recognizable benefits include:

- · Rugged construction for harsh environments
- · Standard ANSI flange for easy drywell mounting
- Convenient lifting lugs facilitate installation

Function

The SHLM CR source holder is used for critically high pressure applications when the vessel walls are too thick for other sources. The SHLM CR source holder uses a stainless steel cable actuator to place a source inside the vessel by way of a dry well.

	ical	

Activity

- SHLM CR1 3.7 GBq (100 mCi) for 50 uSv@305 mm (5mR/

hr@12")

- SHLM CR2 37 GBq (1000 mCi) for 50 uSv@305 mm

(5mR/hr@12")

- SHLM CR3 185 GBq (5000 mCi) for 50 uSv@305mm

(5mR/hr@12")

- SHLM CR4 370 GBq (10000 mCi) for 50 uSv@305mm

(5mR/hr@12")

- SHLM CR4A 370 GBq (10000 mCi) for 50 uSv@305mm

(5mR/hr@12")

Maximum C0-60 Activity

- SHLM CR1 185 MBq (5 mCi) for 50 uSv@305mm (5mR/

hr@12")

- SHLM CR2 555 MBq (15 mCi) for 50 uSv@305mm (5mR/

hr@12")

- SHLM CR3 2.2 GBq (60 mCi) for 50 uSv@305mm (5mR/

hr@12")

- SHLM CR4 4.4 GBq (120 mCi) for 50 uSv@305mm (5mR/

hr@12")

- SHLM CR4A 376 GBq (1000 mCi) for 50 uSv@305mm

(5mR/hr@12")

Fire Resistance +538 °C (+1000 °F) for 5 minutes

Temperature -40 ... +60 °C (-40 ... +140 °F)

Weight

- SHLM CR1 50 kg (110 lbs.)

- SHLM CR2 84 kg (185 lbs.)

- SHLM CR3 141 kg (310 lbs.)

- SHLM CR4 218 kg (480 lbs.)

- SHLM CR4A 235 kg (517 lbs)

Materials

The shielding material is lead. The cable is either stainless steel, Hastelloy, or Inconel.

Housing Versions

The housing is available in carbon steel with polyester powder coating. A stainless steel housing is also available.



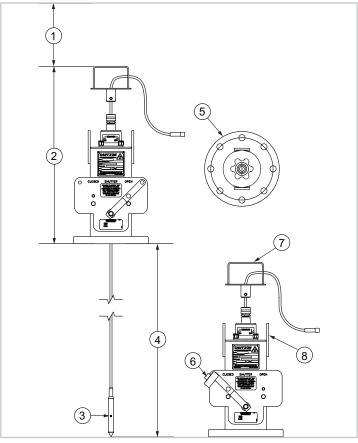
Approvals

The source holder is regulated by the U.S. Nuclear Regulatory Commission (NRC). Compliance certificates are issued by the State of Ohio under an agreement with the NRC.

Operation

Licensed technicians are required in order to insert the source cable from the source holder into the drywell. Before inserting the cable, the technician must remove the locking mechanism.

Dimensions



SHLM CR

- 1 Recommended Clearance 500 mm (20")
- 2a Overall Length SHLM CR1 577 mm (22.7")
- 2b Overall Length SHLM CR2 584 mm (23.0")
- 2c Overall Length SHLM CR3 597 mm (23.5")
- 2d Overall Length SHLM CR4 610 mm (24.0")
- 3 Source Capsule
- 4 Insertion Length Consult Factory
- 5a SHLM CR1 4" ANSI 150# Flange
- 5b SHLM CR2 6" ANSI 150# Flange
- 5c SHLM CR3 8" ANSI 150# Flange
- 5d SHLM CR4 10.0" ANSI 150# Flange
- 6 Locking Mechanism
- 7 Handle
- 8 Lifting Eye

Information

You can find additional information about VEGA product offerings from our home page, www.vega.com. Brochures, operating instructions, quick reference guides, specification sheets, and drawings are also available from the Downloads section of our homepage.

Device Selection

The Downloads section of our home page, www.vega.com provides application data sheets so you can select the measuring principle or product for your particular application.

Contact

Please call 1-513-272-0131, Monday through Friday, 8:00 A.M.-5:00 P.M., EST (Eastern Standard Time) if you have any questions. For emergencies after hours, call the number above and follow the voice mail instructions.

All information is subject to change without notice.