

Smelt Spout Plug & Integrated Locking Handle

The spout deck on a recovery boiler is considered to be the most dangerous area for operators and one of the leading causes of recordable injuries. To improve safety in this area, Valmet has developed a custom shaped high temp refractory plug for the Valmet insertable smelt spout. This product is designed to provide a quick and reliable option for operators to intentionally terminate smelt flow to a smelt spout.

Benefits

- Perform maintenance or replacement of damaged shatter jet parts
- More easily inspect/clean hood internals while unit is online
- Reduce number of spouts in service to maintain normal smelt flow under lower operating loads
- Terminate smelt flow to inspect weld overlay, erosion/corrosion, or possible cracking at the smelt discharge end of a spout trough (not smelt inlet end)



Refractory Plug Features

- High temp refractory rated for use in recovery boiler lower furnaces
- Custom shaped for Valmet's insertable smelt spout
- Plug is cast around a threaded fitting for easy mounting onto locking handle
- Designed for short term use (shatter jet maintenance, hood cleaning) or long term use (reducing number of active spouts during lower operating loads)
- Refractory plug is designed for multiple uses (depending on duration)
- All plugs are slowly fired in a kiln prior to delivery; ready for immediate use
- Significantly easier, quicker, and safer to install/remove a hardened refractory plug than using wet ram

Rope Gasket

- Rope gasket is used to create a tight seal against metal spout for quick termination of smelt flow
- Rope gasket must be replaced after every use, refractory plug is reusable
- Refractory plug is fabricated with grooves for secure wrapping of rope gasket around external surface

Locking Handle

- Valmet also designed a stainless steel locking handle used to quickly install the plug at the proper elevation/alignment and to secure the plug in place to the micro-hood system
- Customers with Valmet insertable smelt spouts can purchase these plugs and locking handles as a spare part
- The micro-hood system must be equipped with the latest version of shatter jet mounting bracket in order to use the Valmet spout plug

Locking Handle Features

- Handle significantly reduces time required for operators to manually install a plug
- Handle takes approximately 10-20 seconds to install and secure in place as opposed to 30+ minutes of attempting alternative methods
- Handle anchors the plug in the opening so it does not inadvertently become dislodged
- Handle must remain installed with the refractory plug
- Locking handle is supported 100% by the micro-hood system to maintain alignment during changes in thermal growth of the boiler
- Extension handle is provided to install the plug from a distance; then remove it to eliminate any tripping hazards on the spout deck

Starter Kits

Includes all parts needed to begin using the plug:

- 1 Refractory Plug
- 1 Locking Handle with Extension
- 1 Box with 500 Feet of Rope Gasket (approx 25 uses)
- 2 Cartridges of High Temp RTV

Note: caulk gun not included



Please contact Valmet North America Smelt Spout Product Manager, Dan Morrison, if you have any questions regarding the use of the Valmet spout plug on your RB spout systems.

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