

Extract Smart Balls from Pressurized Lines

Easy to deploy “Smart balls,” also called Multi-Sensor Inspection Balls (MSIBs) or Small Inspection Devices (SIDs), can detect small leaks, identify bore restrictions, and screen for metal loss in un-smart-piggable pipelines. It is as easy as dropping them through a hot tap at the start of a run.

While easy to deploy, smart balls can be difficult or expensive to retrieve. Our SID-Sucker service is an easy way to extract smart balls from pressurized lines through a hot tap at the end of a run. It allows an operator to benefit from smart balls without invasive pig traps or flow-restricting strainers.

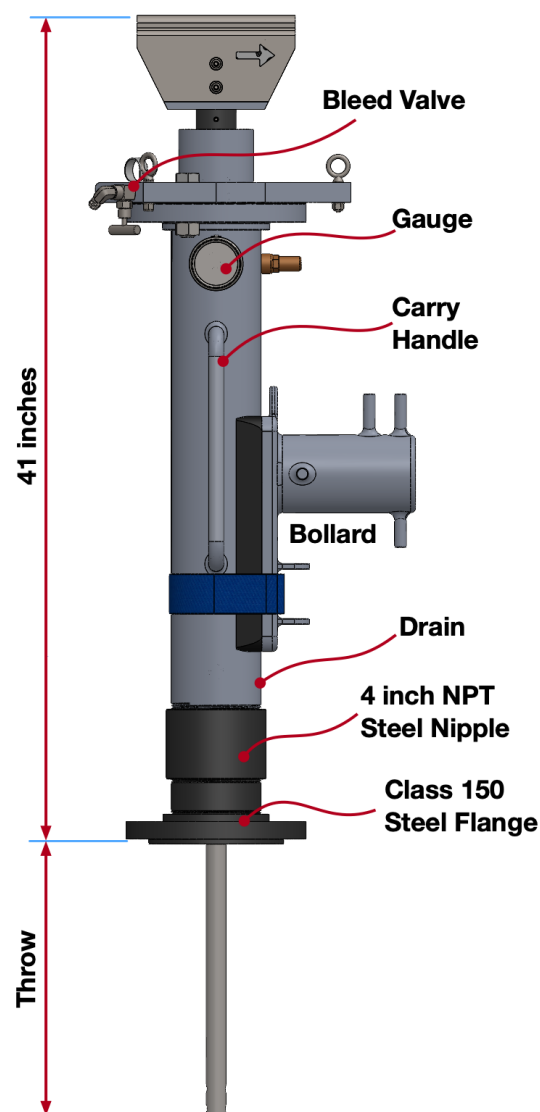
The Solution

Upstream Vee’s SID-Sucker is a single block and bleed chamber with an included high-rigidity net that can retrieve a smart ball from a pressurized pipeline.

Operating the SID-Sucker is simple and safe.

1. Pull a static-safe rope over a height-adjustable bollard to engage the net.
2. Release to have the net exit the pipe.

SID-Suckers mate to a 4-inch tee. With properly sized nets, one can be used on multiple lines.

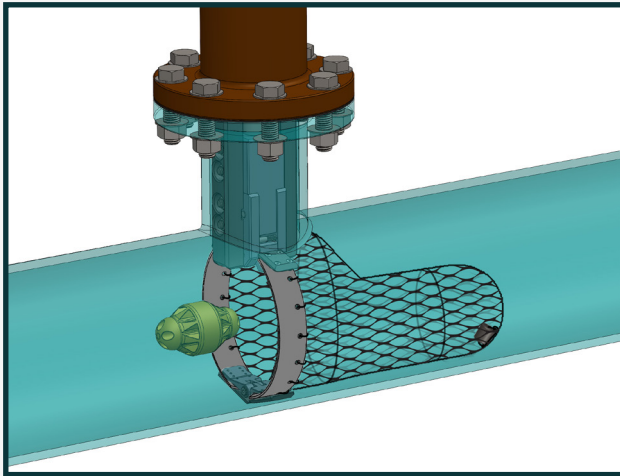


Method	# of Lines	Install Impact	Operating Impact
SID-Sucker	∞	Very Low	Very Low
Pig Trap	1	Very High	Medium
Pigging Valve	1	Medium	Low
Skidded Trap	∞	Medium	Medium
Strainer	1	Low	Medium

Features

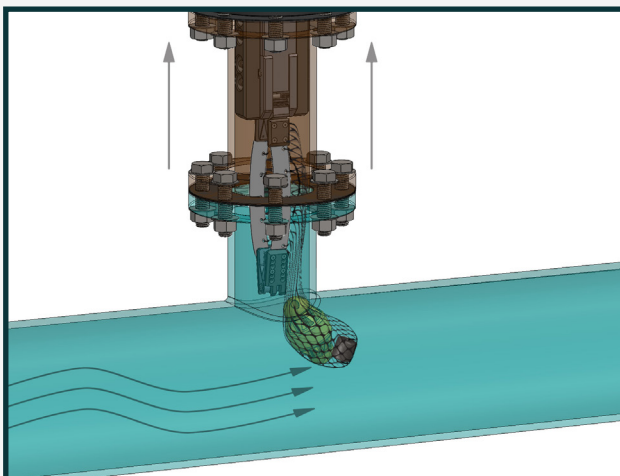
Design

- Axially strong and radially compliant net hoop
- Pipe contact points are padded to protect coatings
- Conductive rope to prevent accumulation of static
- Can collect several smart balls in a single session



Simple & Safe

1. Intuitive, simple operation
2. Designed so it can be operated from the ground
3. Ergonomic height-adjustable bollard
4. Portable, weighing less than 50 pounds



Deploy

- Can be installed & used without shutting down
- Access through 4-inch hot tap on all pipes
- Does not restrict product flow
- One tool can be used on multiple lines

Specifications

Mainline Diameters	ANSI 4-inch to 12-inch nom
Wall Thickness	Schedule 40 or greater
Weight	about 50 pounds (22.7 kg)
Pressure Rating	150 psi (10.3 bar) (while in pre-production)
Process Connection	4-inch ANSI Class 150 flange, or 4-inch NPT threads (other flanges available on request)
Required Block Valve	Schedule 40 or Schedule 80 4-inch full-bore ball valve
Throw Depth	Distance from the bottom of the SID-Sucker to the top of the mainline (tee plus ball valve height) - 16 inches standard
Materials	Chamber: 6061 Al; Flange and hardware: 316 SS; Hoop: 1095 CS; Shaft: 1-inch 7075 Al



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