

# SD-010



## Gear Box Driven Horizontal Sliding Disc Valve

### Description

A.R.I. model SD-010GB is a 3" inlet, gear box driven horizontal sliding disc valve designed for underground and confined space installations. The gear box is activated by a vertical operating rod (enables above ground operation of underground installations). The valve provides fluid-tight sealing up to 25 bar (365 psi) working pressure and is installed horizontally between the pipeline and the user's device.

Integral to the valve is either a 2" or 3" threaded housing outlet or a 3" quick connection adaptor and housing outlet. The 3" quick connection adaptor has an additional 1 1/2" BSP female threaded orifice perpendicular to its vertical access, which can be used as a flushing outlet.

The quick connection adaptor has a built in safety mechanism to prevent the accidental removal of the user's device while there is flow through the valve. The disc valve must be in the closed position before the user's device can be disconnected from the quick connection housing outlet.

### Applications

- Underground installations of air valves.
- Installation of air valves or valves in confined spaces.
- Fire hydrants.
- Municipal services.
- Wastewater manholes.

### Operation

The valves' unique design allows for operation from above, thus enabling its use in underground and confined space applications. An operating rod attached to the gear box from above activates the opening and closing of the valve.

The integral 3" adaptor provides a safety mechanism that prevents the disconnection of the adaptor and the users' device from the horizontal disc valve when the disc valve is in the open position.

### Main Features

- Working Pressure: Up to 25 bar
- Low profile enables installation in confined spaces.
- Integral 3" adaptor - enables quick connection to the disc valve housing outlet, has an integrated safety mechanism.
- Operating rod - length upon request.

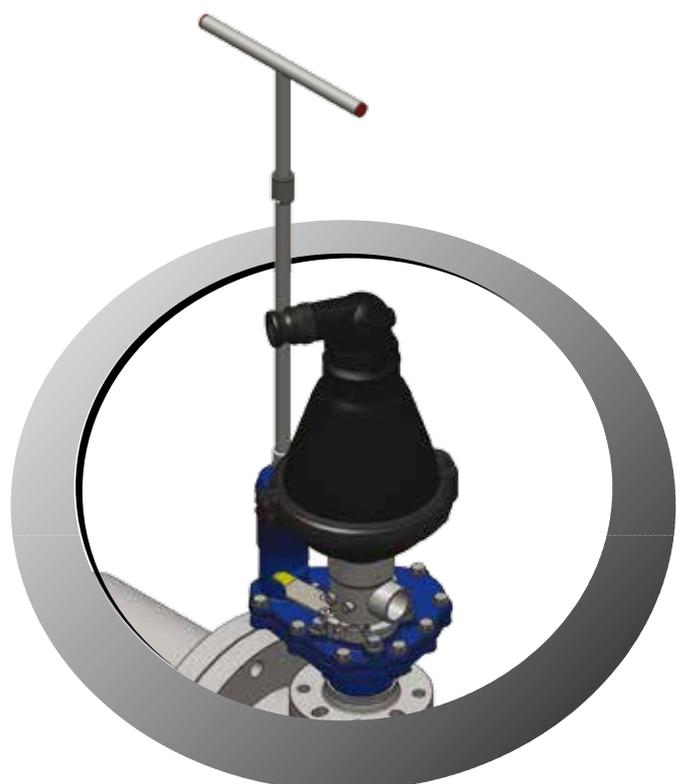
### Outlet Options

Threaded Outlet Housing  
2", 3" - BSP/NPT, made of stainless steel.

Adaptor Housing + Adaptor w/Outlet  
3" - BSP/NPT Outlet made of stainless steel, with a threaded horizontal Flushing Outlet 1 1/2" BSP.

### Accessories

- "T" Handle Operating Rod
- Made of Stainless Steel SAE 304
- Length - upon request



## PARTS LIST AND SPECIFICATION

No	Part	Material
1.	Screw	Stainless Steel 304
2.	Upper Body	Ductile Iron / Cast Stainless Steel
3.	Upper Gasket	Teflon
4.	Body Gasket	EPDM
5.	Plate	Stainless Steel 304
6.	Lower Body	Ductile Iron / Cast Stainless Steel
7.	Lower Gasket	EPDM / Stainless Steel 304
8.	Operating Axis	Stainless Steel 304
9.	"T" Handle	Stainless Steel 304
10.	Operating Rod	Stainless Steel 304

## DIMENSIONS AND WEIGHTS

Dimensions mm.		Connection	Weight
A	B	C	Kg.
279.4	327.66	3" NPT/BSPT Male	18

