

# CLEANCUT R-Valve

*The R-Valve is a key component of the M-I SWACO\* CLEAN CUT\* system for containing and transporting drill cuttings. Specially developed for the CLEAN CUT system, it is a pneumatically operated material diverter valve that enables instantaneous switching of the flow of bulk material between discharge points.*

## Features

**Environmentally secure.** The R-Valve is a totally enclosed unit, operated by compressed air. It eliminates the need to make and break hose connections that could release contaminated material.

**Optimum system performance.** The R-Valve enables instantaneous switching between cuttings receiving points, whether ISO-PUMP\* units, skips or other locations. Without use of the R-Valve it would be necessary to suspend conveying from the CLEAN CUT Cuttings Blower (CCB\*) while manually making and breaking hose connections to ISO-PUMP units or skip filling hoods.

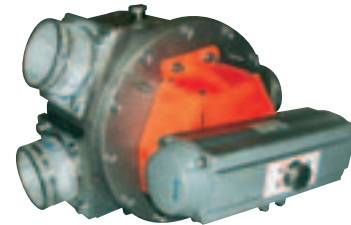
## Benefits

- Simple, two-position operation ensures reliability
- Smooth full-bore transfer provides clog-free lines
- In-line flow diversion eliminates unsafe spills caused by breaking connections
- Low noise levels

## Application

R-Valves are positioned in the cuttings conveying pipework and are used to direct cuttings.

Generally, rig applications require one R-Valve for each ISO-PUMP unit in the line except the last one; for five ISO-PUMP units, four R-Valves are required. For skip-loading, a four-skip station would normally require three R-Valves. On a supply vessel, the arrangement is slightly different, and as a rule, fewer R-Valves are required.



## Features

- Environmentally secure
- Optimum system performance
- Pneumatically actuated
- Operating pressure up to 72.5 psi (5 bar)

## Benefits

- Simple, two-position operation ensures reliability
- Smooth full-bore transfer provides clog-free lines
- In-line flow diversion eliminates unsafe spills caused by breaking connections
- Low noise levels

Diversion to different discharge locations on the rig generally requires additional R-Valves. Because of the possible variations in system design, please consult your M-I SWACO CLEANCUT design team representative to confirm the final configuration and quantities.

### How It Works

The R-Valve is a proprietary valve design specially developed for the CLEANCUT system. It is an air-actuated valve with two operating positions: "divert" (D) and "through" (T). The valve is designed to maintain a smooth full-bore transfer at all times, preventing material buildup that could lead to pipe blockage.

The valve is pneumatically actuated and is normally operated manually, but can be linked into a remote operator panel.

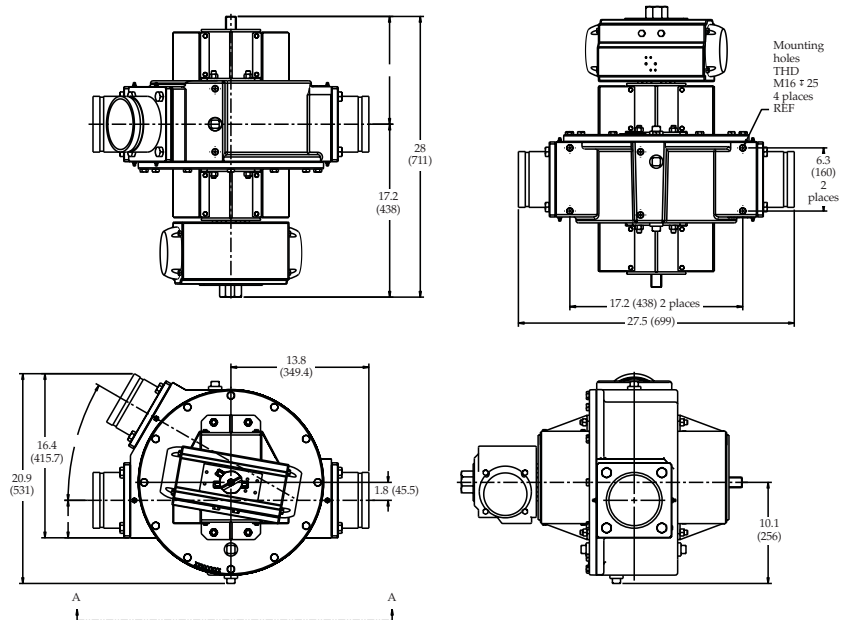
### Specifications

	Length in. (mm)	Width in. (mm)	Height in. (mm)	Weight lb (kg)	Control Air Pressure
CLEANCUT* R-Valve	27.5 (699)	28 (711)	20.9 (531)	413.2 (187.4)	6 bar

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### Engineering Drawing: CLEANCUT R-Valve

All dimensions are expressed in inches (millimeters).



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