

### Upgrade the safety of your piping facility with





## **Applications**

## **Slurry / Polymer**

- > No parts in contact with fluid except for the blind plate.
- > No dead space / full-bore design.
- > Stick-free mechanism against viscous polymer or slurry.

### **High temperature**

- > Up to 816°C (1500°F).
- > No internal gasket
- > Design advantages for the applications with thermal expansion.

## **Cryogenic service**

- > LNG plant.
- Positive isolation of liquefied gases.
  (Nitrogen, Oxygen, Ethylene, Natural gas)
- > Safe sealing at -196°C ( -320.8°F)
- > No dead space / full-bore design.

### Tank-farm

- > Replace existing isolation equipment with EX line blind without pipe revision.
- > Perfect isolation with one operator in a short time.
- > No ground pollution is available due to a non-spill cover.

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## FCC/ RFCC

- > Perfect solution for the high temperature up to 816°C (1500°F.)
- > Positive sealing under the catalyst particles with gases.
- > Enclosed body design available depends on the application.

## Flare gas / COG / BFG / Carbon black

- > Open body or enclosed body depends on the application.
- > Positive isolation under residue deposition.
- > Elastic sealing (Low temperature) / Metal sealing (High temperature)

## **Ethylene Plant**

- > Feed stock, Decoking air, Steam, Ethane, Quench oil, Fuel gas line.
- > Quick blind for Batch operation.
- > High temperature up to  $816^{\circ}C$  (1500°F.)

## Acid / Chlorine

- > PTFE / PFA lining for all wetted parts.
- > Perfect gas tightness with elastic sealing.
- > Open body or enclosed body depends on the application.

## **Part Description**

# Simplicity is our technology.

- > No internal gasket.
- > No other parts are in contact with fluid except the blind plate.
- > Full bore design and pigging available.



#### **TECHNICAL SPECIFICATIONS**

#### NOMINAL DIAMETER NPS 1 (DN25) - NPS 40 (DN1000)

#### PRESSURE RATING

Up to ASME Class 2500 Other special classes are available upon request

FUNCTION Gas / Steam / Liquid / Slurry

#### **OPERATION METHOD**

Manual (Hand-wheel / Lever) operation Electric, Pneumatic or Hydraulic operation

#### **TEMPERATURE RANGE**

From -196°C(Cryogenic) to +816°C(Extreme high-temperature)

#### MATERIALS

BODY : Carbon Steel, Stainless Steel, Special materials (Duplex, Hastelloy, Monel, Inconel etc.) BLIND: Stainless Steel, Special Materials (Duplex, Hastelloy, Monel, Inconel etc.) MOVING PARTS & SEALING SURFACE : Anti-corrosion materials







## What is the Difference?





**Typical Process (DBB Valve)** 

"Typical DBB valve cannot guarantee zero leakage downstream."

Double blocks are designed to provide a complete shut-off of the line, however, there is still a potential for leakage downstream in a pipeline.

To avoid leakage downstream in the DBB valve, the bleed line must always be opened to continuously drain out the leaking fluid until the maintenance work is completed.





#### EX Line blind + Block valve

"EX Line Blind guarantees perfect isolation"

## Even if the upstream block valve leaks, the EX Line Blind provides complete isolation and never lets the fluid pass through downstream.

Before operating EX Line blind, the remaining fluid must be drained and the internal pressure should be zero. In case the sealing of the line blind is damaged, the gasket can be replaced at the site quickly, easily and safely.

## **Project References**





Size : NPS 8" Pressure Rate : ASME CLASS 300 Media : PVC slurry

Remark - Firesafety design & Proximity sensor



Size : NPS 12" Pressure Rate : ASME CLASS 600 Media : Natural Gas







Size : 2" Pressure Rate : ASME CLASS 600 Media : Powder Inlet (Nickel Powder-Dry)



Size : NPS 10" (DN 250) Pressure Rate : DIN PN25 Media : CVG (VCM)

Remark - Electrical Automatic operation



Size : NPS 16" (DN400) Pressure Rate : ASME CLASS 1500 Media : Sour service (Liquid)

Remark - Fire safety design

EX-LINE BLIND



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