

REVISED ANNEXURE-A

Knife Edge Gate Valve with Volume Tank

Valve Type : Knife Edge Gate Valve, double seated, bidirectional, full rubber sleeve design valve
Valve Rating : 10 kg/cm²
End Connection : Flange : Wafer type, semi lugged design
Drilling Standard : Flanged Drilling; ASME Class 125/150
Size : 150 NB
Volume Tank : As suggested for one Valve

Process Condition-

Fluid : Siliceous Uranium Slurry
Proces Flow : 250-300 m³/hr
Fluid Temperature : 40-50° C
Line Pressure : 3.5-4 kg/cm²
Pulp Density : 1.3-1.4
pH of Slurry : 2.5-9.5

MOC-

Valve Body : Ductile Iron
Valve Gate & Gland : Hard Chrome plated SS 316
Gland Follower : SS 304
Valve Sleeve : Terpolymer of Ethylene Prolylene and A diene to 250° F (125° C)
Top seal : EPDM
Fasteners : SS 304
O'Ring : EPDM
Piston Rod : SS 304

Actuator-

Type : Double Acting Pneumatic Metallic Aluminium Barrel/ FRP Cylinder Actuated, having Fail Safe Condition through Volume Tank and Manual override with Hand wheel for manual operation
Fail Safe Condition : Normally Closed

Accessories-

Gate Guard : Metallic powder coated gate guard on both sides of movement of gate
Solenoid Valve : As per requirement of design
Air Lock Relay : As per requirement of design , **Make:** Rotex, ASCO, Burket
Tubing : SS only
Counter Flanges : 2 nos. MS- IS 2062 Machined flanges with raised face of CI # 150 drilling to be provided for each valve (if sleeve retaining plate is not available)
Accessories : Provided with leather bellows to protect the cylinder piston
Acceptable Make : DEZURIK, VAAS, FLOWROX, TECHGATE, TYCO, ORBINOX, RED VALVE, FLSMIDTH (KREBS)

Important note : **Slurry should be in contact with sleeve only, not with the valve body.**

Special Instruction : Valve and actuator should be assembled at the factory of OEM of valve and the purchaser reserves the right of PDI (Pre Dispatch Inspection) of operation of assembled valve and actuator.

Valves to have following features:

- Valves to be Full Bore with no head loss, straight through type.
- Threaded spindles and side tie rods in stainless steel.
- Valves to give 100 % leak tight during complete closure.
- **Valves to have Manual override with Hand wheel for manual operation.**

Special Note : Party to provide 24 months of warranty for mechanical parts.
: Drawing of the valve to be provided by the party.
: Assistance during commissioning of the valve to be provided by party.

Essential Spares : 2 nos. of rubber sleeves to be provided.