

## ANNEXURE – A

Diaphragm Valve for slurry line

**Application :** To handle acidic abrasive slurry having pH – 1.5, slurry concentration 60% w/w, particle size 60% (-200 mesh) & 2% (-1 mm), acidic liquor sulphuric acid

### “KB” Type Diaphragm Valve

Body & Bonnet : Cast Iron to IS210 FG 260 Phosphated & Black epoxy painted

**Body Lining : Natural Rubber Lined**

**Lining Hardness : 40 to 45 Shore A**

Lining Thickness : Min 3.5 mm upto 80 mm and 4.5 mm for size above DN 80

Diaphragm Grade : 'Q' grade

**End Connection Flanged (Flat Face) Drilled to suit ANSI B 16.5, Class – 150**

Spindle : Carbon Steel (Mild Steel – BS EN 10277-3 (1.075 or 1.0718))

Hand Wheel : ABS plastic upto 50 mm and CI to IS210 FG260 for size > DN50

Compressor : Cast Iron to IS210 FG260

Testing Code : BSEB12266-I : 2003 & BS EN 12266 – 2 : 2002 (BS6755 Part – I)

Design Code : BS EN 13397:2002 (BS 5156)

Leakage Rate : As per ANSI B16.104 Class VI (100% Leak Tight)

### Method of Operation : Hand wheel (Manual Operated)

- Valve must have Yellow ON/OFF Indication and patented lip seal lubrication upto size DN150
- Working Temperature : Ambient
- Working Pressure : Max upto 7 bar

Hydro Test Pressure :

Size : Upto 5", Body Test Pr: - 15 bar, Seat Test Pressure : -11 bar

Size : Above 5", Body Test Pr: 9 bar, Seat Test Pressure : - 4 bar

Make : BDK / Crane flow technology/ Aqua Valves