

## Annexure – A

### **Pneumatic Actuated Diaphragm Valve Air to Open and Spring to Close for Ion Exchange Area**

Item	: Saunders Weir Type Diaphragm Valve (Type 'A')
Valve Size	: 150 NB
Actuator type	: ESC – 65, Single Acting Actuator, Air to Open and Spring to Close
Body	: Grey Cast Iron BS EN 1561, Grade : EN-GJL-250, Phosphated & Black Epoxy painted.
Body Lining	: Hard Rubber Lined (Ebonite)
Lining Thickness	: Minimum 3.5 mm upto DN 80 and 4.5 mm above DN 80
Bonnet	: Grey Cast Iron BS EN 1561, Grade : EN-GJL-200 for Size : DN15 to DN32 Grey Cast Iron BS EN 1561, Grade : EN-GJL-250 for Size : DN40 to DN350 Phosphated & Black Epoxy painted.
Diaphragm Grade	: 'HT' Neoprene Rubber
End Connection	: Flanged (Flat Face) to suit ANSI # 150
Spindle	: Carbon Steel Grade SAE 1018
Hand Wheel	: ABS Plastic (White & Black) below Size : DN50 Grey Cast Iron BS EN 1561, Grade : EN-GJL-200 for Size : DN50 & Above
Compressor	: Silicon Aluminium BS EN 1706 alloy AC-44100FK (symbol AC-AISI 12(b)) upto Size : DN50 Grey Cast Iron BS EN 1561, Grade : EN-GJL-200 for Size above DN50
Testing Code	: BS EN 12266 – 1:2003 & BS EN 12266 – 2:2002 (BS 6755 Part – I)
Design Code	: BS EN 13397:2002 (BS 5156)
Leakage Rate	: As per ANSI B 16.104 Class VI (100% Leak Tight)
Operation	: Pneumatic Operated (ON – OFF Duty), Fail Safe Spring to Close (Air to Open) through SAUNDERS SAUNAIR ESC - 65; Single Acting Type having : a) Local Position Indicator b) Fail Safe Spring to Close (ESC) (Air to Open) c) Manual Override Facility through Handwheel
Make	: Crane Technologies / Saunders

#### **Note :**

- Party should submit Cross Sectional Drawings mentioning the detail Part List with metallurgy.
- Overall Dimensions along with weight of the valve must be mentioned.
- Test Certificate for Body and Seat Pressure must be submitted at the time of delivery.

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