

1 **EU - Type Examination Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 20 ATEX 0660X Issue: 0

4 Equipment: Range of Rotary Valves, Diverter Valves and Bin Activators

5 Manufacturer: Airlock India PVT Limited

6 Address: Airlock India PVT Limited, 1/15-8, Ponnadampalayam, Miltex (opp) Road, Arasur-Annur Road, Thennampalayam, Coimbatore-641659, Tamilnadu, India

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2585 in accordance with Article 179 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN ISO 80079-36:2016 EN ISO 80079-37:2016

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 1/2 D Ex h IIIC T135°C Da/Db
II 2 G Ex h IIIC T4 Gb



No. 8613



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Schedule

13 Description of Equipment or Protective System

Rotary Valve Description:

Consist of body, end covers & rotor. The rotor has either fixed or adjustable blades. The valves are driven by chain drive or direct drive. This rotary valve act as a sealing device in case of varying pressure above and below the rotary valve. In some cases, it is used as a metering device. The rotary valves are used widely in pneumatic conveying systems and feeding systems. The internal parts of the equipment are considered to be a Zone 20, with the equipment itself suitable for installation Zone 21 (EPL Db) and Zone 1 (EPL Gb) areas.

Rotary Valve Model Types:

S.no	Model	Description	Sizes Range
1	DT	Drop Through Valve	100, 150, 175, 200, 250, 300, 350, 400, 450 and 500
2	DVT	Enlarged Inlet/Outlet Drop Thru Valve	200, 250, 300 and 350
3	DT DCSR	Dairy Drop Thru Valve with cross slide rails	150, 200, 250, 300 and 350
4	DST	Round/Square inlet Drop Thru valve	200, 250, 300 and 350
5	DST DCSR	Round/Square inlet valve with cross slide rails	200, 250, 300 and 350
6	BT	Blow Thru Valve	150, 175, 200, 250, 300 and 350
7	BVT	Enlarged Inlet/Outlet Blow Thru Valve	200, 250, 300 and 350
8	BT DCSR	Dairy Blow Thru Valve with cross slide rails	150, 200, 250, 300 and 350
9	NDT	N-Series Drop thru Valve	375, 500, 750, 1250 and 2000
10	NBT	N-Series BLow thru Valve	375, 500, 750 and 1250

Diverter valve Description:

Different type diverters are available depending up on the application and product being handled. Normally the diverters are either actuated by pneumatic / electric. The switches / sensors are engaged to indicate the position of diversion. These diverters are employed to collect or distribute the powder/ granules in pneumatic conveying systems. The internal parts of the equipment are considered to be a Zone 20, with the equipment itself suitable for installation Zone 21 (EPL Db) and Zone 1 (EPL Gb) areas.

Diverter Valve Model Types:

S.no	Model	Description	Size Range
1	DTD	Drum Type Diverter	50, 65, 80, 100, 125, 150 and 200
2	SDTD	Single Pipe Drum Type Diverter	65, 80, 100, 125, 150 and 200
3	SDTD-C	Single Pipe Drum Type Diverter-Convergent	65, 80, 100, 125, 150 and 200
4	Y-TDV	Y – Type Diverter Valve	80, 100, 125, 150
5	GDV	Gravity Diverter Valve	80, 100, 125, 150
6	BDV	Ball Diverter Valve	65, 80, 100, 125 and 150
9	SV	Scale Valve	65, 80, 100, 125 and 150

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Bin activators Description:

The bin activator is consisting of conical shape member with baffle plate which fabricates from carbon or SS steel. The connection between silo & bin activator is achieved through flexible member which is made from EPDM material. This device is operated by one or two electric unbalanced motors. Bin activator eliminates hopper flow problems like rat holing & bridging by using vibratory action to improve bin flow & easily discharge any material. The internal parts of the equipment are considered to be a Zone 20, with the equipment itself suitable for installation Zone 21 (EPL Db) and Zone 1 (EPL Gb) areas.

Bin Activator Model Types:

S.no	Model	Description	Size Range
1	BA	Bin Activator	600, 900, 1250, 1500, 1800, 2100 and 2500

All the equipment is driven by suitably approved drive motors with suitably approved fixed gearboxes, these parts do not fall under the scope of this approval.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
2658/A/1	2020-09-28	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Issue 0

Number	Date	Revision	Description
A-1376	03.07.2020	1	Rotary Valve - ATEX 20 (Bare Shaft Assy)
A-1377	04.07.2020	1	Rotary Valve - ATEX 20 (Chain Drive Assy)
A-1378	03.07.2020	1	Rotary Valve - ATEX 20 (Direct Drive Assy)
A-1372	09-09-2020	1	Diverter Valve -- ATEX 20
102500000210	25-05-2016	1	Scraper Blade-LH-U TYPE
02500000211	25-05-2016	1	Scraper Blade-RH-U TYPE
DES/D/04	24 Sep 2020	3	Explosion Proof Rotary Valve Airlock India Pvt Ltd. -- Operating Instructions, Maintenance and Safety Instruction (15 pages)

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15 Conditions of Certification

15.1 Special Conditions for Safe Use

1. All electrical equipment must be suitably certified for its intended hazardous location and installed/inspected in accordance with the latest edition of EN / IEC 60079-14 and EN / IEC 60079-17 and maintained in accordance with the manufacturer's instructions.
2. The equipment must be suitably bonded to ground on installation.
3. All lubricants employed must be suitable for -20°C to +80°C temperature range and have an ignition temperature of at least 50K (50°C) above the maximum surface temperature of the equipment where the lubricant is being used.
4. The equipment must not be located in areas where it will be subjected to highly efficient external charging mechanisms such as fast flowing dust laden air.
5. The geared drives (gearbox) associated with the drive motors must be suitably certified for its intended hazardous location and installed/inspected and maintained in accordance with the manufacturer's instructions.
6. When employed in hazardous gas atmospheres the EPDM skirt on the Bin Activators must only be cleaned with an anti-static or damp cloth unless the area is known to be non-hazardous.

15.2 Conditions for Use (Routine Tests)

None

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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