

COLLINS YOULDON

Unit 1 Papworth Business Park, Papworth Everard, Cambridge, CB23 3WA

Model No of Vent: 9132.AT.A.04 or 9132.AT.A.20 or 9132.AT.A.20E
(delete as appropriate)

Nominal pressure setting: 8.75 kPa or 9.95 kPa (delete as appropriate)

Maximum vacuum setting 0.4 kPa or 2.0 kPa (delete as appropriate)

Declaration of Conformity – PPV Vent Valves

These products have been issued with an EC-Type Examination Certificate to the 'Potentially explosive atmospheres' (ATEX) Directive 94/9/EC
Certification was based on Harmonised Standards EN 13463-1:2001 and EN 1127-1:1996 with respect to gas group IIA, and additionally was successfully subjected to the transmission test of EN 12874:2001 for end of line flame arresters .

This valve has been designed, manufactured to meet the requirements of the above directive and also complies with **EN14595:2005** 'Pressure & Vacuum Breather Vents' within the settings shown above.

This range of products has been type tested and produced under a Production QA system.

Notified Body Number:- 1180

Type approval testing and certification undertaken by Baseefa (2001) Ltd. Rockhead Business Park, Staden Lane, Buxton, Derbyshire. UK. SK17 9RZ.

Certificate number:- **Baseefa03ATEX0698**

Ex II 1/2 G IIA T4 (Tamb -20°C to +50° C)

These products are manufactured under the certified Quality Management System of Collins Youldon. which is monitored by British Standard Institution, 389, Chiswick High Road, London. UK, W4 4AL, under the Certificate number FM36607 in accordance with BS EN ISO 9001:2000.

This system has been extended to include the requirements of BS EN 13980:2002 and further reviewed by Baseefa.

This declaration relates only to the valve being supplied. When this is incorporated into other parts or assemblies the customer is required to assure himself that the completed assembly meets the requirements of the directive.

Signatory



Title: Manufacturing Manager
For and on behalf of Collins Youldon

2.0 Specification

There are three models of this vent valve, please ensure the correct model is selected.

9132.AT.A.04	For top loading 8.75 kPa nominal pressure setting, 0.4 kPa maximum vacuum setting
9132.AT.A.20	For bottom loading / vapour recovery 8.75 kPa nominal pressure setting, 2.0 kPa maximum vacuum setting
9132.AT.A.20E	For bottom loading / vapour recovery 9.95 kPa nominal pressure setting, 2.0 kPa maximum vacuum setting

Note 1: PPV vents will hold pressure at 7.0 kPa (70mbar) and open at a maximum pressure of 10.5 kPa (105mbar), giving a nominal opening pressure of 8.75 kPa (87.5 mbar).

or PPV vents will hold pressure at 7.0 kPa (70mbar) and open at a maximum pressure of 11.9 kPa (119mbar), giving a nominal opening pressure of 9.95 kPa (995 mbar)

Note 2: In the overturn positions the vents should be leak tight at a minimum of 1.66 kPa (166.0 mbar) at 180° and 1.17k Pa (117.0 mbar) at 90° & 270°.

or In the overturn positions the vents should be leak tight at a minimum of 1.84 kPa (184.0 mbar) at 180° and 1.24 kPa (124.0 mbar) at 90° & 270°.

Caution: Tank builders need to ensure these values are suitable for the tank size to which they will be fitted and the contents to be contained.

Table 1: Operating Limits

	Leak Tight Pressure	Relieving Pressure	Leak Tight Vacuum	Relieving Vacuum
9132.AT.A.04	7 kPa	8 kPa to 10.5 kPa		0.4 kPa
9132.AT.A.20	7 kPa	8 kPa to 10.5 kPa	1 kPa	1.2 kPa to 2.0 kPa
9132.AT.A.20E	8 kPa	9.5kPa to 11.9 kPa	1 kPa	1.2 kPa to 2.0 kPa

Table 2: Venting Capacity for 9132.AT.A.04 – 4mbar vent for top loading

	Pressure		Vacuum	
Flow rate of air	23 m ³ /hr	42 m ³ /hr	26 m ³ /hr	69 m ³ /hr
At differential pressures of	21 kPa	30 kPa	3 kPa	7 kPa

Table 3: Venting Capacity for 9132.AT.A.20 & 20E – 20mbar vent for bottom loading/vapour recovery

	Pressure		Vacuum	
Flow rate of air .20 / .20E	23 / 20 m ³ /hr	42 / 40 m ³ /hr	26 / 15 m ³ /hr	69 / 62 m ³ /hr
At differential pressures of	21 kPa	30 kPa	3 kPa	7 kPa

Table 4 Overturn Leak Tightness to EN14595 (at Rate 'F' of EN12266)

	90 degrees & 270 degrees	180 degrees
9132.AT.A.04	22.2 kPa	27.1 kPa
9132.AT.A.20	22.2 kPa	27.1 kPa
9132.AT.A.20E	24.3 kPa	30.2 kPa

A parts list and material specifications is shown at section 2.1 overleaf and an exploded view diagram is shown at figure 1.

2.1 Parts list and materials specification

Item	Part No	Description	Material
1	9132.01.A	Body	ASTM B85:1955 grade 380 or 383
2	9132.02.S	Screw	Stainless steel
3	9132.03.P	Pressure disc retainer	Nylon
4 *	9132.04.V or 9132.04.T	Pressure disc	Viton 70 to 75 DURO Buna-N 60 DURO
5	9132.05.S	Roll-over guide block	Stainless steel 303L
6	9132.06.S	Pressure relief spring	Stainless steel
7	9132.07.S	Spring collar assembly	Stainless steel 304 & 316
8	9132.08.S 9132.08.SX	Vacuum spring	Stainless steel
9	9132.09.A	Retainer plate	Aluminium ASTM B209: 5052-H32
10	9132.10.M	Retainer ring	Mild steel, zinc plated & passivated
11	9132.11.A	Vac. disc retaining washer	Aluminium ASTM B209: 5052-H32
12 *	9132.12.V or 9132.12.T	Vacuum disc	Viton 70 to 75 DURO Buna-N 60 DURO
13	9132.13.P	Vac. disc spacer washer	Nylon
14	9132.24.A	Vac. disc support/rating plate	Aluminium BS EN 485: 5251-H22
15	this item is no longer fitted		
16	9132.16.M	Nyloc nut	Mild steel, zinc plated & passivated
17	0326.00.V	O-ring	Viton 75 DURO
18	this item is no longer fitted		
19	9132.19.B	Gauze insert	Brass
20	9132.20.M	Retaining circlip	Mild steel, zinc plated & passivated
21	9132.23.Z	Screen disc	Stainless steel 304

* Items 4 and 12 will be supplied in either one of these materials, the functionality of the equipment will not be affected.