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PVV204 Pressure & Vacuum Vent	PVV204-18
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DATA SHEET

**PART N°: PVV204
PVV204U**

TITLE: Pressure & vacuum relief for road tankers incorporating rollover protection.

PURPOSE: To provide pressure and vacuum relief to Australian Standard AS2809 for road, rail & storage tanks. They provide more capacity than the standard PVV104, which deals with thermal effects on the tank. Rollover protection is designed in and locks shut at any angle greater than 60° from the vertical. These vents are used on storage & blending tanks. It is important that the pressure/vacuum volume of the tank is known so that the correct size & number of vents can be supplied.

OPERATION: There are three separate poppets in the PVV204 assembly. The pressure poppet only opens when the internal pressure of the tank exceeds the setting shown below. The vacuum poppet only opens when the internal pressure of the tank falls below the setting shown below. The rollover poppet is always open except when tanker is on an angle greater than 60° from vertical.

ADJUSTMENT OR SERVICE: Service must be carried out in accordance with AS2809.2-2008. In particular all seals and gaskets must be replaced and the assembly pressure tested at intervals of no more than 2.5 years. Ensure that the spring retainer (item 19, page 2) is installed for correct pressure setting.

MATERIALS OF CONSTRUCTION: Aluminium body & poppets (316 grade stainless also available)
 Stainless steel housing, shafts and springs
 Nitrile seals (teflon seals also available)

MOUNTING: May be mounted onto VOH manholes or on a separate weld flange

Aluminium weld flange -	VRB-1
Mild steel weld flange -	PVV200-11M
Stainless steel weld flange -	PVV200-11S316
Adaptor to VOH hatch -	VOH-22
Adaptor to 50mm male BSP -	PVV204-21

WEIGHT: Aluminium versions - 1.96kg Stainless steel versions – 3.5kg

TECHNICAL DATA: NSW Dangerous Goods Branch Approval No N 3554 Q
 Gas capacity 240m³/hr free air at 35kPa
 Max recommended liquid loading rate 1000 litres/min

PVV204 – complies to AS 2809 Pressure setting 15kPa Vacuum setting –3kPa Free air bleed hole in body	PVV204U – complies to UK & USA codes Pressure setting 10kPa Vacuum setting –2kPa No bleed hole
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ASSOCIATED EQUIPMENT: See following pages for material variations.

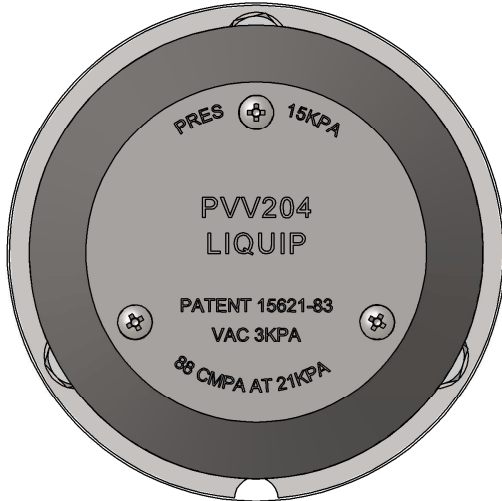
Overall dimensions shown on the drawing overleaf.



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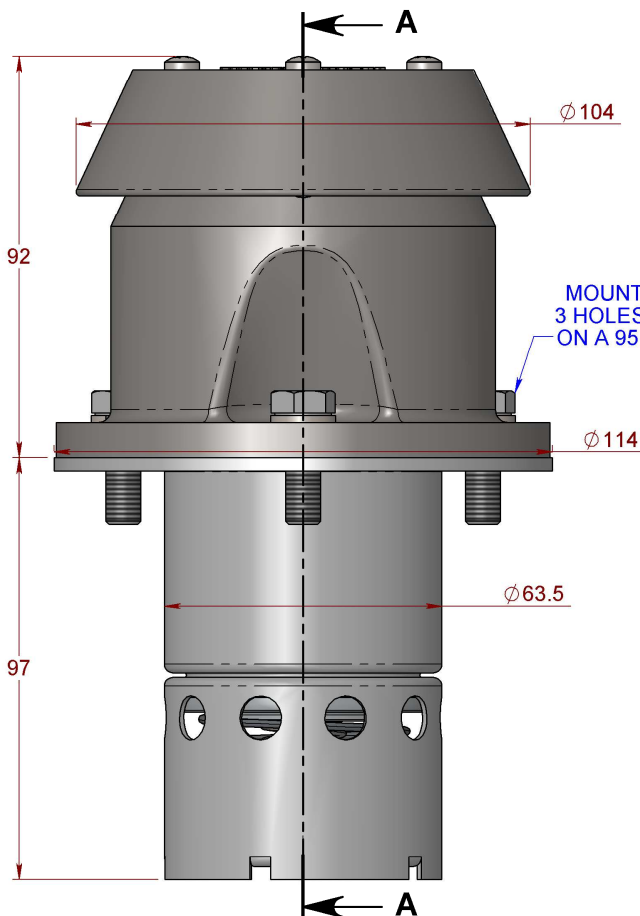
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PVV204 PRESSURE & VACUUM VENT

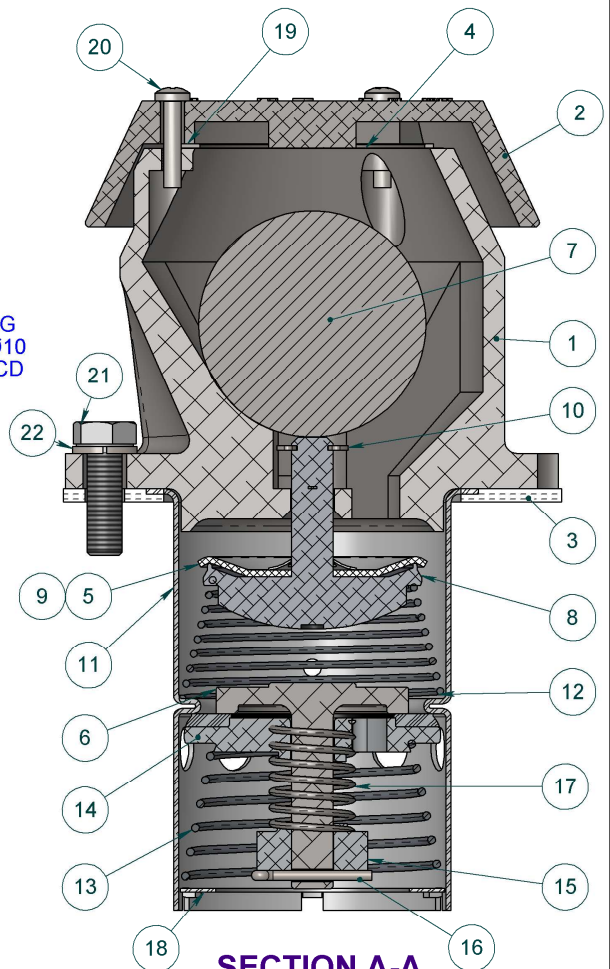


**TOP VIEW
(AUSTRALIAN MARKINGS)**

PART	COMPLIES TO	PRESSURE & VACUUM SETTINGS
PVV204	AUSTRALIAN STANDARD AS2809-2008	PRESSURE 15-17kPa VACUUM 2kPa±1
PVV204U	UK & USA CODES	PRESSURE 8-12 kPa VACUUM 2kPa±1



FRONT VIEW



SECTION A-A

METERS - VALVES - VENTS - MANHOLES - HOSEREELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



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Sheet 1 of 2
Issue: C



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PVV204 PRESSURE & VACUUM VENT

ITEM	PART No.	DESCRIPTION	PVV204	PVV204-ST316	PVV204-AT	PVV204U	MATERIAL
1	PVV204-1	VENT BODY	1	-	1	1	ALUMINIUM
	PVV204-1S	VENT BODY	-	1	-	-	ST STEEL
2	PVV204-2	COVER	1	-	1	-	ALUMINIUM
	PVV204-2S	COVER	-	1	-	-	ST STEEL
	PVV204-2U	COVER USA MARKINGS	-	-	-	1	ALUMINIUM
3	0658	GASKET	1	-	-	1	NBR-CORK
	4293	GASKET	-	1	1	-	EXP-PTFE
4	PVV204-4S	GAUZE	1	1	1	1	ST STEEL
5	4645	ROLLOVER SEAL DISC	-	1	1	-	PTFE
6	PVV204-8	PRESSURE POPPET	1	-	1	1	ALUMINIUM
	PVV204-8S	PRESSURE POPPET	-	1	-	-	ST STEEL
7	PVV204-3	ROLLOVER BALL	1	-	1	1	LEAD
	PVV204-3S	ROLLOVER BALL	-	1	-	-	ST STEEL
8	PVV204-7	ROLLOVER POPPET WITH BONDED SEAL	1	-	-	1	ALUMINIUM
	PVV204-7S	STAINLESS STEEL ROLLOVER POPPET	-	1	-	-	ST STEEL
	PVV204-7C	ROLLOVER POPPET	-	-	1	-	ALUMINIUM
9	6545	PUSH-ON CLIP	-	1	1	-	ST STEEL
10	55026	E-CLIP METRIC	1	1	1	1	ST STEEL
11	PVV204-6-316	HOUSING SPUN	1	1	1	1	ST STEEL
	0057	SPRING COMPRESSION	1	-	1	1	ST STEEL
	4435	SPRING COMPRESSION	-	1	-	-	ST STEEL
12	0058	SPRING COMPRESSION	1	-	1	1	ST STEEL
	4436	SPRING COMPRESSION	-	1	-	-	ST STEEL
13	PVV204-9	VACUUM POPPET	1	-	-	1	ALUMINIUM
	PVV204-9S	VACUUM POPPET	-	1	-	-	ST STEEL
	PVV204-9C	VACUUM POPPET	-	-	1	-	ALUMINIUM
14	PVV204-13	SPRING RETAINER	1	-	1	-	ALUMINIUM
	PVV204-15	SPRING RETAINER	-	-	-	1	ALUMINIUM
	4352	WASHER FLAT	-	1	-	-	ST STEEL
15	0764	SPLIT PIN	1	-	1	1	ST STEEL
	2764	ROD TIG (SPLIT PIN SUBSTITUTE)	-	1	-	-	ST STEEL
16	0302	SPRING COMPRESSION	1	-	1	-	ST STEEL
	4437	SPRING COMPRESSION	-	1	-	-	ST STEEL
	4447	SPRING COMPRESSION	-	-	-	1	ST STEEL
17	PVV204-20-316	SPRING RETAINER	-	1	-	-	ST STEEL
	PVV204-20	SPRING RETAINER	1	-	1	1	ST STEEL
18	PVV204-5	GAUZE RETAINER	1	-	1	1	STEEL
	PVV204-5S	GAUZE RETAINER	-	1	-	-	ST STEEL
19	6645	TAPTITE SCREW METRIC	3	-	3	3	Z/P STEEL
	4838	SETSCREW IMPERIAL	-	3	-	-	ST STEEL
20	55057	SETSCREW METRIC	3	3	3	3	ST STEEL
21	5362	WASHER SPRING	3	3	3	3	ST STEEL
22	PVV204-18	INSTRUCTION LEAFLET	1	1	1	1	PAPER
23	6425	INSTRUCTION LEAFLET	-	1	1	-	PAPER

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