Science.
Applied to Life.™

3M™ Versaflo™ Supplied Air V-100 Cooling Valve Assembly and V-200 Heating Valve Assembly

Technical Data Sheet

Description

The 3M™ Versaflo™ Supplied Air Cooling Valve Assembly and Heating Assembly can provide the wearer up to 25°C cooling or heating of the compressed air supply temperature into the headtop.

Features

- Provides comfort and high protection levels
- Adjustable air flow rate / temperature
- Can provide the wearer up to 25°C cooling or heating of the compressed air supply temperature
- Meets performance requirements of AS/NZS 1716
- Compact and lightweight – 575gms including belt and hose
- Airline couplings are CEJN 342 fittings
- Compatible with 3M Quick release System headtops for different applications
- Includes TR-325 belt and V-112 Premium Holder for V-100 and V-200

Applications

Application	Typical industry
Spray painting	Automotive & Aerospace General transport Metal fabrication Shipbuilding
Powder coating	Metal fabrication
Material handling	Agrochemicals Chemical Food processing laboratory Pharmaceutical
Grinding and deburring	Automotive Metal fabrication
Welding	Metal fabrication Shipbuilding

Standards

The V-100 & V-200 Regulators, in combination with various 3M headtops, has been tested and is compliant with AS/NZS 1716:2012.

Specifications

3M™ Versaflo Supplied Air V-100 Cooling Valve Assembly and V-200 Heating Valve Assembly	
Protection Factors	100+ (AS/NZS 1715) against mechanically and thermally generated particulates and gases & vapours.
Outlet Flow Characteristics	Manufacturer's Minimum Design Flow (MMDF) 180 l/min Maximum Flow 305 l/min
Storage conditions	-10°C to +50°C < 90 %RH
Operating temperature	-5°C to +40°C and <90% humidity
Weight	630g (V-200 complete with belt)
Inlet and auxiliary outlet port	¼ inch BSP thread
Pressure requirement at regulator	7.5m - 60-65 PSI, 4.1-4.5 Bar 15m - 65-70 PSI, 4.5-4.8 Bar 30m - 70-85 PSI, 4.8-5.9 Bar

Compatible Hoods and Headtops

Service/Training

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

Limitations

The V-100 and V-200 should not be used:

- In atmospheres containing less than 19.5% oxygen (3M definition).
- In confined spaces (as defined by AS 2865).
- For airborne contaminant concentrations above the rated level of protection assigned as per AS/NZS 1715. When used with a full facepiece, this respirator airline system is given a Required Minimum Protection Factor of 100+ by AS/NZS 1715
- Against unknown concentrations of contaminants or at concentrations above the immediately dangerous to life or health (IDLH) level.

Maintenance/Cleaning

To maintain protection levels, optimise the effective lifetime of the system and avoid the additional cost of replacement, it is extremely important to carry out regular checks and maintenance on Powered and Supplied Air Respirators.

Before Use

- Ensure couplings are securely fitted
- Inspect Breathing Tube – ensure it is free from splits or holes – Replace if necessary
- Inspect Belt – ensure it is free from splits or tears and buckle is undamaged

Monthly

- Carry out all 'Before Use' inspections and create record of this monthly check for the unit

After Use

- Clean casing with a mild solution of water and liquid household soap
- Disinfect with 3M™ 504 Wipes
- Store in a dry, clean area / locker away from direct sunlight, high temperatures and solvents

Ordering Consumables, Repair Parts and Accessories

- To request a quote or place an order for these items, please contact your 3M local contact

Approved Distributor

- Further Information and Advice If you require additional guidance on the Care and Maintenance of your 3M Powered and Supplied Air Equipment, please contact 3M Customer Service or your local 3M representative.

V-100

V-112

V-111

V-199

V-115

3M™ Versaflo™ Supplied Air Cooling Valve Assembly V-100 Parts and Accessories

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100331585	70100401259	•	•	V-100	3M™ Versaflo™ Supplied Air Cooling Valve Assembly V-100, with TR-325 belt and BT-30 breathing tube, No fitting, 1 EA/Case
7100331585	AT019184244	•		902-02-18	3M™ Versaflo Supplied Air Cooling Valve Assembly Kit 902-02-18, V-100 with CEJN 342 fitting & BT-30 breathing tube, 1 ea/Case
7100091678		•		V-112	3M™ Versaflo™ Premium Holder V-112, for V-100 and V-200 Series Air Regulating Valves
7000126274	70070799047	•	•	V-115	3M™ Versaflo™ Vortex Spare Parts Kit V-115 1 EA/Case. Includes O-rings, washer, generator, screw, washer lock, foam pad and fastener
7000126273	XA007707723	•	•	V-111	3M™ Versaflo™ Vortex Muffler Kit V-111 1 EA/Case
7000002156	78812417836	•	•	V-199	3M™ Adapter V-199/37069(AAD) 4 EA/Case


V-200


V-211


V-199


V-112

3M™ Versaflo™ Supplied Air Heating Valve Assembly V-200 Parts and Accessories

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100331680	70100401192	•	•	V-200	3M™ Versaflo™ Supplied Air Heating Valve Assembly V-200, with TR-325 belt and BT-30 breathing tube, No fitting, 1 EA/Case
7012889455	AT010589466	•		902-02-85	3M™ Versaflo Supplied Air Heating Valve Assembly Kit 902-02-85, V-200 with CEJN 342 fitting & BT-30 breathing tube, 1 ea/Case
7100091678		•		V-112	3M™ Versaflo™ Premium Holder V-112, for V-100 and V-200 Series Air Regulating Valves
7000126276	70070799112	•	•	V-211	3M™ Versaflo™ Vortemp™ Muffler Kit V-211 1 EA/Case
7000002156	78812417836	•	•	V-199	3M™ Adapter V-199/37069(AAD) 4 EA/Case


BT-20 S/L


BT-30


BT-40

QR-PSA-BT
Scan or Click for Tech Data Sheet

Breathing Tubes

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100296133	70071767472	•		BT-20L	3M™ Versaflo™ Breathing Tube BT-20L, Medium/Large, 1 ea/Case. Fixed length lightweight Polyurethane L=965mm
7100134625	70071533023	•		BT-20S	3M™ Versaflo™ Breathing Tube, BT-20S/37309(AAD), Small/Medium, 1 EA/Case. Short Fixed length lightweight Polyurethane L=735mm
7100006955	XA007706584	•	•	BT-30	3M™ Versaflo™ Breathing Tube, Self-adjusting, BT-30 L= 525-850
7100069524	UU003085113	•	•	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube BT-40, 1 ea/Case Fixed length Neoprene Rubber L=840mm

Supplied Air Breathing Hoses
QR-SAHOSE
Scan or Click for Tech Data Sheet


901-00-54


901-00-47

901-00-47
QR-901-00-47
Scan or Click for Tech Data Sheet

Continuous Flow Supplied Air Spare Parts & Accessories

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7012890154	AT019184335	•		901-00-47	3M™ Supplied Air Breathing Air Panel, 901-00-47 with 3 x CEJN 342 Fittings , 1 ea/Case
7012887764	AT019185233	•		901-00-63	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 30 m, 1 ea/Case
7012913494	AT019165698	•	•	901-00-54	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 15 m, 1 ea/Case
7012886198	AT019165706	•		901-00-55	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 10 m, 1 ea/Case
7012890770	AT019165714	•		901-00-56	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 7.5 m, 1 ea/Case

3M Supplied Air Regulator and Air Regulating Valves Comparison Chart

3M™ Supplied Air Regulators and Valves provide comfortable, cost effective respiratory protection for all-day use. Supplied air respirators offer many features over traditional respiratory protection, such as cooling or heating incoming air with certain valves and low maintenance. 3M™ Supplied Air Respirators require a source of clean breathing air such as plant air systems or bottled air. This clean, breathable air can be delivered to a range of hoods and helmets

	V-100	V-200	V-300	V-500E
				
SAP Code	7100331585 (AU & NZ) 7012872248 (AU)	7100331680 (AU & NZ) 7012889455 (AU)	7100077491 (AU & NZ) 7012873867 & 7012887859 (AU)	7100005806
Legacy ID	AT019167983 (AU) AT019184244 (AU) with BT-30	AT010589466 (AU)	AT019167991 (AU) AT019184236 (AU) with BT-30 70070799161 (NZ)	XA007706675
Availability	AU & NZ	AU & NZ	AU & NZ	AU & NZ
Compatible Breathing Tubes*	BT-20S, BT-20L, BT-30, BT-40	BT-20S, BT-20L, BT-30, BT-40	BT-20S, BT-20L, BT-30, BT-40	BT-20S, BT-20L, BT-30, BT-40
Belt	TR-325	TR-325	TR-325	TR-325
Airline Hose Connection Type	7100331585 - No fitting 7100331585 (AU) - CEJN 342	7100331680 - No fitting 7012889455 (AU) - CEJN 342	7100077491 - no fitting 7012873867 & 7012887859 (AU) CEJN 342	
Approximate Weight	650g	750g	268g	514g
Inlet Pressure	62-72 psig (4 bar to 5 Bar) From an up to 30m airline hose	64 – 68 psig (4.4 – 4.7 Bar) From an up to 30m airline hose	30-35 psig (2-2.4 Bar) From an up to 30m airline hose	50-116 psig (3.5-8 Bar) Max Pressure 10 Bar From an up to 30m airline hose
Airflow outlet range	6-15 cfm (170 to 425 lpm)	6-15 cfm (170 to 425 lpm)	6-15 cfm (170 to 425 lpm)	6-10 cfm (170 to 305 lpm)
Temperature Adjustment	✓ Up to 25°C Cooling	✓ Up to 25°C Heating		
Low Pressure Warning Whistle				✓
Optional outlet to spray gun				✓
Odour filter				✓

CFM = Cubic feet minute. LPM = Litre per minute. PSI – Pounds per square Inch gauge. Bar = Atmospheric pressure

*Note: Refer to catalogue sections for further information on each product and country availability.
Note: Confirm if your compressor has sufficient free air capacity for all users, regulators, sprays guns, other equipment etc. to maintain respiratory protection for wearers of respiratory protective equipment. The more users and equipment connected to the system the greater the free air capacity required

Discussion on Respirable Air

- Many older compressed air systems may provide air that is unfit for human respiration without secondary air treatment. This is due largely to the presence of objectionable oil vapours and odours. Rules and regulations governing air quality when using compressed air for respiration are quite specific. Precautions must be observed when using compressed air for breathing purposes.
- Oil mist from the compressor lubricating oil must not be present when the air reaches the air control device. Excessive amounts of water vapour and any particulate matter should also be removed as they may affect performance of the air control devices.
- Refer AS/NZS 1716 Appendix A and/or SA/SNZ TS ISO 16975.1:2023 for further information on breathable air quality requirements.

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

SCAN OR CLICK FOR:

QR-CAT-CFSA

Continuous Flow Supplied Air Catalogue Section

QR-CAT-FULL

Full Personal Safety Division Catalogue

Technical Statement

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

3M Australia Pty Ltd
Personal Safety Division
Bldg A, 1 Rivett Road
North Ryde NSW 2113
Customer Service: 1300 363 565
Email: 3msupport.safety.au@mmm.com
Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
94 Apollo Drive, Rosedale
Auckland 0632
Customer Service: 0800 252 627
Email: 3msupport.safety.nz@mmm.com
Web: www.3M.com/nz/ppesafety