



## **PRODUCT DATA SHEET**

**Mine Ventilation Duct (MVD)**

**Lightweight Mine Ventilation Duct (LWMVD)**



## Mine Ventilation Duct (MVD)

### BENEFITS & FEATURES

- BUILT TO FRAS REQUIREMENTS
- FIT-FOR-PURPOSE SOLUTION
- LIGHTWEIGHT
- HIGH PERFORMANCE
- FIBREGLASS



WITH MORE THAN 40 YEARS MVD EXPERIENCE RPC HAS THE CAPABILITY TO RESPOND TO SPECIFIC REQUIREMENTS FOR MINE VENTILATION NEEDS.



RPC Technologies is the manufacturer and supplier of GRP Mine Ventilation Duct (MVD).

The fibreglass GRP ducting and fittings offer a low cost, fit-for-purpose solution and are built to Fire Retardant Anti Static (FRAS) requirements.

RPC's MVD are routinely vacuum performance tested (1.6 times the rated pressure) and conductivity testing requirements are added to ensure consistent quality and compliance are maintained.

Compliant to the FRAS requirements of TRG 3608: Non-metallic materials for use in underground coal mines and reclaim tunnels in coal mines.

The MVD range is complemented by the lightweight carbon fibre duct product range (LWMVD) that provides a high performance and ultra-lightweight duct solution.

# Mine Ventilation Duct (MVD)

RPC offers a number of fitting configurations and ducting length (duct standard lengths are 2, 2.4 and 3 metres):

- Round Straight duct (Ø618, Ø718, Ø750, Ø900)
- Oval straight duct (870x355 and 1075x400)
- Elbow (Round or Oval, 15°, 30°, 45°, 60°, 70° and 90°)
- Tee and branches (Round to round or oval to round, 30°, 45°, 60°, 70° and 90°)
- Reducers/Adapters (round-to-round or oval-to-round, concentric or eccentric)
- Sliders
- End cap (round or oval)
- Relief valve
- Air damper

RPC can also cater to your specific needs and special applications upon request. Please email [enquiries@rpctechnologies.com](mailto:enquiries@rpctechnologies.com) for further information.

Table of weights for MVD

Standard MVD Weight	Diameter (mm)	Vaccuum Rating kPa	2.0 metres	2.4 metres	3.0 metres
			Weight kg		
MVD	618	-10	25	30.5	36
	718	-10	29	35.5	42
	750	-10	31	37.5	44.5
	900	-4	38.5	46.5	55.5
High Performance MVD*	618	*	28	34	41
	718	*	33	39	47
	750	*	34	41	50
	900	-10	41	49	59

\*Vacuum ratings available on request



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## LightWeight Mine Ventilation Duct (LWMVD)

### BENEFITS & FEATURES

- FRAS COMPLIANT
- FIT-FOR-PURPOSE SOLUTION
- ULTRA LIGHTWEIGHT
- HIGH PERFORMANCE
- CARBON FIBRE
- REDUCE MANUAL HANDLING RISK



A NEW GENERATION OF VENTILATION DUCT AND FITTINGS; LWMVD - WITH MORE THAN 40 YEARS MVD EXPERIENCE, RPC HAS THE CAPABILITY TO MEET YOUR VENTILATION REQUIREMENTS.



RPC Technologies is the manufacturer and supplier of a fully Fire Retardant Anti-Static (FRAS) compliant, exceptionally lightweight MVD range engineered from carbon fibre and fire-retardant vinyl ester resin.

The LWMVD range delivers a quality engineered, high performance and ultra-lightweight duct providing an economical and reliable fit-for-purpose ventilation solution.

RPC's LWMVD are routinely vacuum performance tested (1.6 times the rated pressure) and conductivity testing requirements are added to ensure consistent quality and compliance are maintained.

Compliant to the FRAS requirements of TRG 3608: Non-metallic materials for use in underground coal mines and reclaim tunnels in coal mines.

In addition, RPC's LWMVD reduces manual handling risk when installing or relocating due to its lightweight and ease of handling.

# LightWeight Mine Ventilation Duct (LWMVD)

RPC offers a number of fitting configurations and ducting length (duct standard lengths are 2, 2.4 and 3 metres):

- Round Straight duct (Ø618, Ø718, Ø750, Ø900)
- Oval straight duct (870x355 and 1075x400)
- Elbow (Round or Oval, 15°, 30°, 45°, 60°, 70° and 90°)
- Tee and branches (Round to round or oval to round, 30°, 45°, 60°, 70° and 90°)
- Reducers/Adaptors (round-to-round or oval-to-round, concentric or eccentric)
- End cap (round or oval)
- Relief valve
- Air damper

RPC can also provide solutions tailored to your specific ventilation requirements/applications. Please email enquiries@rpctechnologies.com for further information.

Table of weights for LWMVD

LWMVD	Diameter (mm)	Vacuum Rating kPa	2.0 metres	2.4 metres	3.0 metres
			Weight (kg)		
	618	-12	13	15	18
	718	-12	15	18	21
	750	-12	*Weights available on request		
	900	*			

Note: The above table of weights are correct at the time of publishing this Product Data Sheet and may be subject to change

\*Vacuum ratings available on request



Engineer at RPC Broadmeadow demonstrating the lightweight nature of LWMVD.



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