



DAVID MOSS GROUP

FUSIBLE PVC PIPE SYSTEMS



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Using This Brochure

David Moss Group (David Moss) supply this brochure in the interest of better understanding the product ranges David Moss offer. Please contact our sales team if any items you require are not shown in the brochure.

MEASUREMENTS

All measurements in this brochure are in millimeters (mm) unless otherwise specified. All dimensions and measurements are intended as a guide only and may change without notice. Please contact our sales team if you need more information.

David Moss manufacture and supply a wide range of products in house, however can also source and supply associated products via our local and international supply chain partners.



Quality
ISO 9001
SAI GLOBAL



About David Moss

David Moss Group manufactures and supplies HDPE and PVC pipe and fittings. David Moss supplies into a variety of industry sectors, including but not limited to Mining, Industrial, Civil, Irrigation, Utilities, Government, Agricultural and Rural. Incorporated in 1960 in Perth, Western Australia, David Moss Group employs over 140 staff, across 2 manufacturing and fabrication facilities and 3 branch locations; operating via our Perth, Kalgoorlie, Brisbane and Sydney business units, the organisation offers an Australia wide footprint. The Perth, Kalgoorlie and Brisbane locations are pivotal in supporting the ever increasing demand for our products nationally and globally.

Incorporated in 1960 in Perth, Western Australia, David Moss Group employ over 140 staff.

OUR MISSION

Our mission is to deliver sustainable solutions that create and connect communities.

OUR VISION

At David Moss Group, we aspire to be industry leaders by innovating sustainable solutions that enrich the lives of our employees, their families, and our communities. We are dedicated to setting new standards in resource efficiency, waste minimisation, and recycling.

Our collaborative and efficient team exceeds expectations, helping our customers achieve their goals and drive success.

We envision a workplace where every employee thrives, grows, and finds fulfillment in contributing to our collective success.

OUR VALUES

SAFETY

We prioritise the health and well-being of our employees, customers and communities by maintaining a safe work environment and practices.

COLLABORATION

We value teamwork and open communication, working together to achieve common goals and leverage diverse perspectives to drive success.

INTEGRITY

We operate with honesty, transparency and ethical principles, ensuring that our actions reflect our commitment to doing what is right.

INNOVATION

We embrace creativity and forward thinking, continuously seeking and implementing innovative solutions to stay at the forefront of our industry.

SUSTAINABILITY

By integrating sustainable practices into our business model, we aim to minimise our ecological footprint, support the well-being of our planet and ensure that our actions contribute positively to the future of our communities and generations to come.

GROWTH

We are committed to ongoing personal and professional development, embracing challenges and opportunities that enable both individual and organisational advancement.

Fusible PVC Pipe Systems

David Moss Fusible PVC is a revolutionary weldable PVC pipe system, designed to eliminate the traditional bell and spigot joint. Developed through more than 30 years of testing and installation across global markets, DAMOS FPVC features a unique chemical structure that enables fully welded, fully restrained joints using McElroy welding technology. Available in sizes from DN100 to DN900 and supplied in 6m, 12m, 20m and 21m lengths, DAMOS FPVC is compatible with existing ductile iron fittings, allowing seamless integration into existing networks. By eliminating a common point of failure in PVC pipelines, DAMOS FPVC provides a durable solution.

Additional sizes require special order. Inquire for sizes and SDR's not shown.



Lower Installation Costs



Greater Pulling Allowance

100+

Years Life Expectancy

FPVC Pipe

DAMOS FPVC is suitable for a range of installation methods, including trenchless applications such as horizontal directional drilling, sliplining, pipe bursting and jack and bore carrier pipe installations. For open-cut projects, its fully restrained joint system improves installation efficiency while meeting "no gasket" requirements, making it an ideal solution for modern infrastructure projects.

FEATURES AND BENEFITS

- ✓ Gasketless, leak-free, fully-restrained pipe system
- ✓ Readily connects with standard ductile iron fittings
- ✓ Transitions easily to bell-and-spigot PVC and ductile iron pipe
- ✓ Life expectancy greater than 100 years
- ✓ Greater recommended safe pulling allowance than HDPE
- ✓ Lower installation costs
- ✓ Field testing and time proven thermal butt fusion technology and PVC formulation
- ✓ Excellent abrasion and scratch-resistance
- ✓ Superior resistance to hydrocarbon permeation and oxidation
- ✓ Fused joint OD consistent with OD of pipe barrel
- ✓ Smaller OD casing sizes possible for jack and bore installations
- ✓ Available of lengths of 6m, 12m, 20m and 21m

APPLICATIONS	PIPE COLOUR
Potable Water	Blue
Force main and gravity sewer	Cream
Recycled Water	Purple
Communication conduit	White
Power conduit	Orange

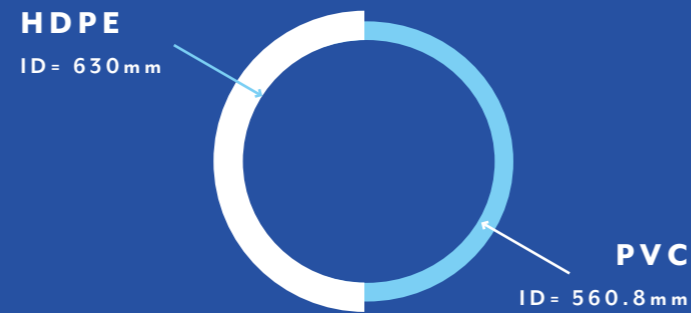


APPLICATIONS OF:

- Water mains
- Force mains and gravity sewer
- Water reuse and reclaim
- Raw water and Irrigation
- Casings
- Environmental Remediation
- Storm Drains
- Process and transfer water
- Power transmission conduit

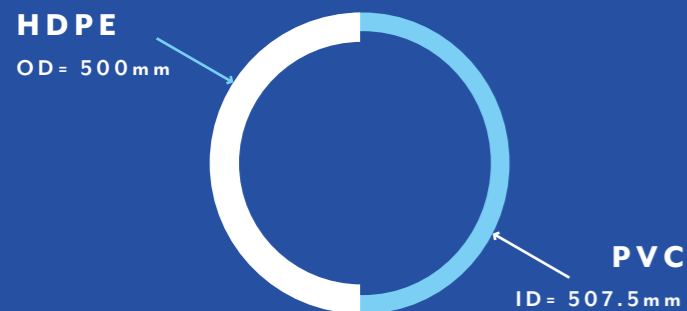


FPVC utilises a thinner wall and substantially lighter pipe to achieve a similar ID compared to traditional HDPE pipe. This is particularly relevant when considering HDD/Trenchless installations.



ID SPECIFIC LIKE FOR LIKE COMPARISON (PVC VS HDPE)

	500MM PN12 PVC	630MM PN16 HDPE	PVC VS HDPE
OD (mm)	560.8	630	11% smaller
Minimum Wall Thickness (mm)	26.1	57.2	55% thinner wall
Average ID (mm)	500	509.7	Negligible
Pressure Rating (Kpa)	1250	1600	Including safety factor - Nil
Safety Factor	2	1.25	60% greater
Weight (Kg/M)	66.1	103.9	37% lighter



FPVC utilises a thinner wall and substantially lighter pipe to achieve a much larger bore compared to traditional HDPE pipe. This is particularly relevant when considering relining applications.

OD SPECIFIC LIKE FOR LIKE COMPARISON (PVC VS HDPE)

	450MM PN12 PVC	500MM PN16 HDPE	PVC VS HDPE
OD (mm)	507.5	500	Negligible
Minimum Wall Thickness (mm)	23.6	45.4	48% thinner wall
Average ID (mm)	457.2	364	25.6 larger bore
Pressure Rating (Kpa)	1250	1600	Including safety factor - Nil
Safety Factor	2	1.25	60% greater
Weight (Kg/M)	54.16	65.46	17.3% lighter



DAVID MOSS FPVC

FPVC fusion times are faster than other thermoplastic pipe materials

PIPE ENGINEERING DATA

SIZE (MM)	OD (MM)	PN	MIN WALL (MM)	MAX WALL (MM)	MEAN WT	AVG ID (MM)	WEIGHT (KG/M)	PRODUCT CODE
100	122	12	6.3	7.1	6.7	108.5	3.5	QF1001212
		16	8.3	9.3	8.8	104.3	4.5	QF1001612
		20	10.2	11.4	10.8	100.3	5.4	QF1002012
150	178	12	9.2	10.3	9.8	157.9	7.4	QF1501212
		16	12	13.4	12.7	152	9.4	QF1501612
		20	14.8	16.5	15.7	146.1	11.4	QF1502012
200	233	12	10.8	12.1	11.5	209.4	11.4	QF2001212
		16	14.2	15.8	15	202.3	14.7	QF2001612
		20	17.5	19.5	18.5	195.3	17.8	QF2002012
225	260	12	12.1	13.5	12.8	233.7	14.2	QF2251212
		16	15.9	17.7	16.8	225.7	18.4	QF2251612
		20	19.5	21.7	20.6	218.1	22.2	QF2252012
250	287	12	13.6	14.8	14.1	258.1	17.3	QF2501212
		16	17.5	19.5	18.5	249.2	22.3	QF2501612
		20	21.5	23.9	22.7	240.8	27	QF2502012
300	346	12	16.1	17.9	17	311.4	25.2	QF3001212
		16	21.1	23.4	22.3	300.9	32.4	QF3001612
		20	25.9	30.5	28.1	289.1	40.3	QF3002012
375	427	12	19.8	22	20.9	384.4	38.2	QF3751212
		16	26.1	28.9	27.5	371.2	49.5	QF3751612
		20	32	37.4	34.7	356.8	61.3	QF3752012
*450	508	12	23.6	26.2	24.9	457.2	54.2	QF4501212
		16	31	34.3	32.7	441.7	68.9	QF4501612
		20	38.1	44.3	41.2	424.6	86.6	QF4502012
*500	561	12	26.1	28.9	27.5	505.3	66.1	QF5001212
		16	34.2	37.8	36	488.3	85.2	QF5001612
		20	42.1	48.9	45.5	469.3	105.6	QF5002012
*600	668	12	31	34.3	32.7	601.7	93.4	QF6001212
		16	40.8	45.1	43	581.1	120.9	QF6001612
		20	50.1	58.2	54.1	558.7	149.7	QF6002012
*750	813	12	37.8	44	40.9	731	142.4	QF7501212
		16	49.6	57.6	53.6	705.5	183.6	QF7501612
		20	61.1	70.8	66	680.9	222	QF7502012
*900	973	12	45.2	52.6	48.9	875	203.8	QF9001212
		16	59.4	68.9	64.1	844.5	262.8	QF9001612
		20	73.1	84.7	78.9	815	318	QF9002012

Please Note: Size 375mm is the largest size we offer made in Australia. The sizes with an Asterisk (*) are manufactured to order offshore.



Testing to AS/NZS 1477 confirms long term joint strength and restraint



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