



MINE SAFE FITTINGS

PLASSON.COM.AU

1300 752 776





The Plasson valve is an absolute must-have and a simple and effective alternative to the industry standard valves that eliminates many of the common problems encountered.

With 10+ years in the mining industries, I have personally come to depend on the Plasson range for dewatering and poly fixtures. Their superior design, interchangeable parts and readily available supply network mean I can always rely on the brand."

Purchasing and Supply expert, Benjamin Zis
Salt Lake mining Pty Ltd - Beta Hunt Mine



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Plasson Mining Solutions



Solutions For Connecting PE Pipe **Strength & Quality Over 50 Years Of Experience**

You need a name you can count on to supply your pipe fittings.

When miners say 'pass me a PLASSON', they're asking for a range of fittings which have been used continuously since PE pipe was first introduced into mines 50 years ago.

You'll be pleased to know that PLASSON still has the safest, and the most reliable fittings on the market – and the only ones listed with a Standards mark license to PN16 for sizes up to 125mm.

Fast And Simple Installation.

Mine conditions are never perfect. That's why PLASSON solutions are the BEST. They designed to ensure that the joints can be made in the worst conditions, including overhead assembly, ovality and bad alignment. Even better, PLASSON fittings can be disassembled and reuse, and the pipe does not need chamfering or pipe preparation.

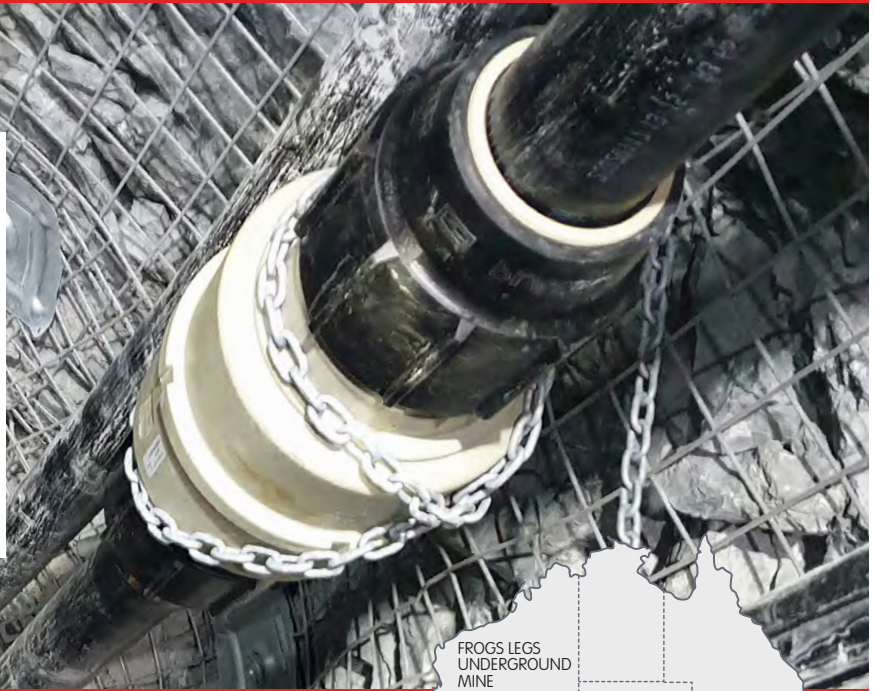
High Performance.

PLASSON fittings comply for the highest security demands and are suitable for water applications and compresses air applications.

CASE STUDY

PLASSON PRV: A GAME-CHANGER IN HYPER-SALINE CONDITIONS

Frog Legs Gold Mine | Mangari, WA



TACKLING SAFETY AND CORROSION CHALLENGES AT FROG LEGS GOLD MINE:

The Frog Legs mining site, more than 1 km underground, faced serious pressure regulation issues due to its hyper-saline environment—three times saltier than seawater. Traditional metal valves corroded rapidly, lasting only 1–1.5 years and driving up costs through frequent replacements and maintenance. To address this, the team looked for a more durable, cost-effective solution to improve reliability and reduce downtime.

CHALLENGES:

Operating in harsh hyper-saline abrasive conditions, the Frog Legs Gold mine site faced several critical issues:

- > **SHORT VALVE LIFESPAN:** Other valves lasted only 1–1.5 years, even with refurbishments.
- > **HIGH MAINTENANCE COSTS:** Replacements and services added up to over \$11,000 in five years, plus 70 hours of downtime for annual servicing by a 3-man crew.
- > **INCREASED RISKS:** Frequent manual pressure adjustments often caused line blowouts, increasing maintenance demands and reducing system efficiency. Replacing valves carries significant safety risks, making the process even more challenging.
- > **DEMAND FOR DURABILITY:** A more reliable solution was essential to reduce disruptions and improve operational stability.

RESULTS AND IMPACT:

The Plasson PRV significantly improves operations of underground mining operations:



DOWNTIME SAVED
OVER 5 YEARS



LIGHTWEIGHT
DESIGN IMPROVED
SAFETY



SAVED ON
REPLACEMENTS &
LABOUR



NO ON-SITE
MAINTENANCE
NEEDED



5+ YEARS LIFESPAN
IN CORROSIVE
CONDITIONS

“ In underground mining, trust in your equipment is critical and we trust the Plasson PRV. It's proven reliable in the harsh, hyper-saline conditions we work in, helping us eliminate unexpected downtime, reduce safety risks, and cut maintenance costs. Few products deliver this kind of performance without constant attention. And the support from Plasson has been excellent; responsive, knowledgeable, and easy to work with.

ADAM VANHEERDEN | FROGS LEG SUPERINTENDENT UNDERGROUND MINING



CHECK OUT THE WHOLE CASE STUDY HERE:

<https://plasson.com.au/mining-fittings/>



Trends In Underground Mining Services

- Majority of components are lightweight, corrosion-free polymer products
- PN16 water pressure rating
- Less fittings means faster assembly
- Suitable for water and compressed air



Item No.	Description	PA Code	Qty
1	REDUCING TEE METRIC 110-63-DN100 SHOULDER	7340021	1
2	DN100 Shouldered Isolation Valve	From others	1
3	SHOULDERED ADAPTOR METRIC 110-4"	7320003	1
4	DN100 Shoulder Clamp	From others	2
5	110mm PE Pipe SDR11 / PN16	From others	2
6	63mm PE Pipe SDR11 / PN16	From others	1
7	METRIC MINE SHOULDER ADAPTOR 63 x DN50	3703030	1
8	Isolation Valve + Claw Coupling	From others	1

Trends In Underground Mining Pressure Reduction Valve Isolation

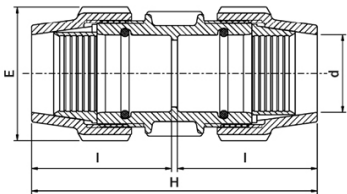
- Isolation valve immediately prior to the reduction valve
- Majority of components are lightweight, corrosion-free polymer products
- PN16 water pressure rating



Item No.	Description	PA Code	Qty
1	FIXED RATIO PRESSURE REDUCING VALVE METRIC 3:1 DN100 SHOULDER UPSTREAM x 110	3801104	1
2	DN100 Shouldered Isolation Valve	From others	1
3	DN100 Shoulder Clamp	From others	2
4	SHOULDERED ADAPTOR METRIC 110-4"	7320003	1
5	110mm PE Pipe SDR11 / PN16	From others	2

Metric Mine - Coupling

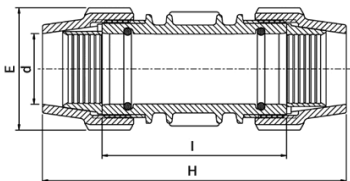
7015



Product Code	Size d x d	E	H	I	UB	UC	W	PN
7015001	63 x 63	113	230	113	1	30	741	16
7010021	110 x 110	181	393	194	1	5	3129	16
7010022	125 x 125	212	460	225	1	3	5347	16

Metric Mine - Repair Coupling

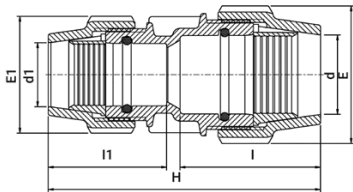
7615



Product Code	Size d x d	E	H	I	UB	UC	W	PN
7615001	63 x 63	113	230	170	1	24	836	16
7610009	110 x 110	181	393	197	1	5	3098	16
7610010	125 x 125	212	460	265	1	3	5318	16

Metric Mine - Reducing Coupling

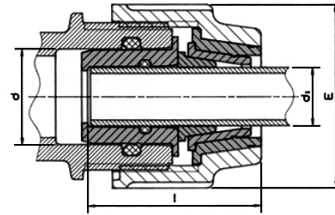
7115



Product Code	Size d x d	E	E1	H	I	I1	UB	UC	W	PN
7110029	110 x 63	181	181	393	194	131	1	5	3695	16
7110030	110 x 90	181	154	378	194	162	1	6	2643	16

Metric Mine - Reducing Set

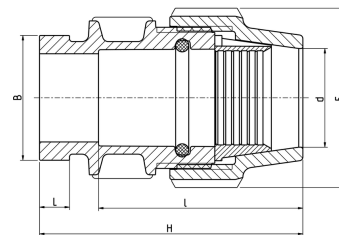
7930



Product Code	Size d x d	E	I	UB	UC	W	PN
7930014	110 x 63	181	131	1	24	703	16

Metric Mine - Shouldered Adaptor

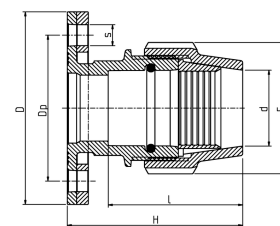
7325



Product Code	Size d x d	E	E1	L	H	B	UB	UC	W	PN
7325001	63 X 50 (2")	113	123	16	156	67	1	45	437	16
7320005	110 x 50 (2")	181	213	16	260	67	1	8	1900	16
7320003	110 x 100 (4")	181	213	16	255	123	1	8	1874	16

Metric Mine - Flange Coupling

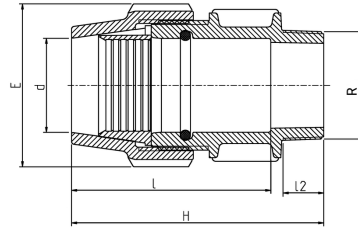
7225



Product Code	Size d x ISO Flange	E	H	I	D	Dp	S	No of Holes	UC	W	PN
7225001	63 X 50 (2")	113	145	110	165	125	18	4	015	1563	16
7220006	110 x 100 (4")	181	235	222	220	180	18	8	8	3322	16

Metric Mine - Male Adaptor

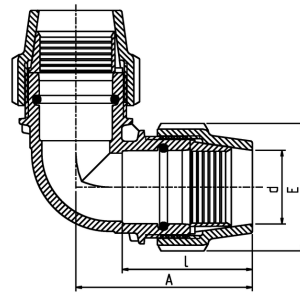
7025



Product Code	Size d x R	E	H	I	I2	UB	UC	W	PN
7025002	63 x 1 1/2"	113	154	123	22	1	48	451	16
7025003	63 x 2"	113	167	123	26	1	48	461	16
7025004	63 x 2 1/2"	113	160	123	29	1	45	459	16
7025050	110 x 2"	181	261	213	26	1	10	1845	16
7025051	110 x 3"	181	256	213	34	1	10	1850	16
7025052	110 x 4"	181	265	213	42	1	8	1872	16

Metric Mine - 90° Elbow

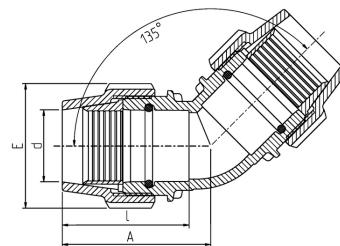
7055



Product Code	Size d x d	E	I	A	UB	UC	W	PN
7055001	63 x 63	113	110	151	1	24	838	16
7050015	110 x 110	181	194	292	1	4	3810	16

Metric Mine - 45° Elbow

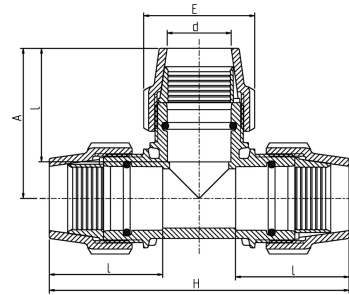
7065



Product Code	Size d x d	E	I	A	UB	UC	W	PN
7065005	63 x 63	113	110	130	1	24	772	16
7060007	110 x 110	181	194	235	1	5	3418	16

Metric Mine - 90° Tee

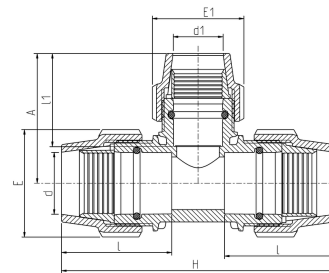
7045



Product Code	Size d x d x d	E	H	L	A	UB	UC	W	PN
7045001	63 x 63 x 63	113	294	110	146	1	16	1215	16
7040015	110 x 110 x 110	181	583	194	292	1	2	5584	16

Metric Mine - 90° Reducing Tee

7345



Product Code	Size d x d1 x d	E	E1	H	I	I1	A	UB	UC	W	PN
7225001	110 x 63 x 110	181	181	583	194	131	292	1	2	6127	16

NEW | Metric Mine - Shouldered Reducing Metric Tee



Metric Reducing Tee with DN100 Shoulder

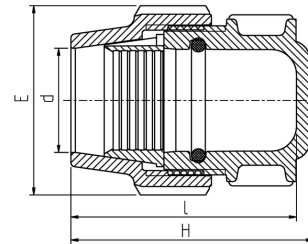
- Lightweight build
- Corrosion-free polymer components
- Suitable for water and compressed air
- PN16 rating

Speak to your Plasson Australia representative, or scan the QR code to register your interest and be notified of availability.



Metric Mine - End Plug

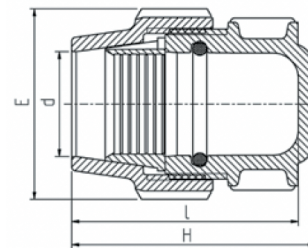
7125



Product Code	Size d	E	I	H	UB	UC	W	PN
7125001	63	113	122	145	1	45	448	16
7120018	110	181	213	231	1	10	1835	16

Mine Spray Nozzle

7120



Product Code	Suits Pipe	E	I	H	UB	UC	W	PN
7120101	RURAL 1"	54	77	90	10	200	78	10
7120102	RURAL 1 1/4"	64	87	100	5	180	128	10
7120103	RURAL 1 1/2"	82	97	120	1	100	218	10
7120104	METRIC 25	54	77	82	10	250	70	16
7120105	METRIC 32	64	87	92	5	180	106	16
7120106	METRIC 40	82	97	102	1	110	184	16

Suitable for use as spray nozzle for dust suppression. Spray pattern is large droplet though largely determined by system pressure.

Hex Key

2013

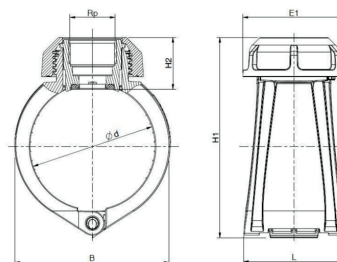


Product Code	Size d x d1
2013001	12 x 200mm

The Plasson Hey Key is designed for use with all Plasson tapping saddles. It comes with a 12mm square drive connection. Wrench not included.

Plassaddle for PE Pipe - Threaded

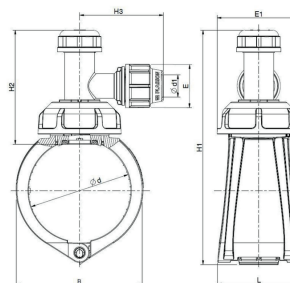
1630



Product Code	Size d x Rp	B	L	E1	H1	H2	Bag	Carton	W	PN
1630001	63 X 1/2"	91	89	102	136	49	1	50	383	16
1630002	63 x 3/4"	91	89	102	136	49	1	50	384	16
1630003	63 x 1"	91	89	102	136	49	1	50	387	16
1630004	63 x 1 1/4"	91	89	102	146	58	1	50	390	16
1630005	63 x 1 1/2"	91	89	102	136	49	1	50	373	16
1630011	110 x 1/2"	141	97	102	180	49	1	40	501	16
1630012	110 x 3/4"	119	97	102	180	49	1	40	502	16
1630013	110 x 1"	141	97	102	180	49	1	40	505	16
1630014	110 x 1 1/4"	141	97	102	190	58	1	40	502	16
1630015	110 x 1 1/2"	119	97	102	180	49	1	40	488	16

Plassaddle Tapper for PE Pipe - PE Compression Outlet

1631



Product Code	Size d x Rp	B	L	E1	H1	H2	H3	Bag	Carton	W	PN
1631001	63 X 25	91	89	102	231	144	106	1	50	642	16
1631002	63 x 32	91	89	102	231	144	111	1	50	677	16
1631005	110 x 25	141	97	102	273	144	106	1	50	764	16
1631006	110 x 32	141	97	102	273	144	111	1	50	795	16

Suitable for live connections into water pipes.

Metric Wrench

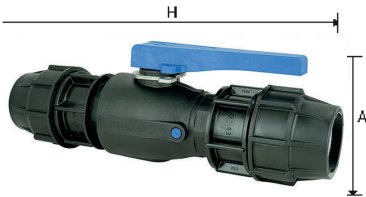
7990



Product Code	Size	Material	UB	UC	W
7990007	63 - 75	Alloy	1	75	296
7990008	63 - 125	Alloy	1	40	840

Ball Valve Lockable Long Handle

3703



Product Code	Size ON x DN	E	H	I	B	A1	Carton	W	PN
3703030	63 x DN50	100	430	29	75	140	10	1100	16

Comes with lockable long handle + compression ends

Fixed Ratio Pressure Reducing Valve

3801



Product Code	Size d x Rp	Ratio	D	L	Carton	W	PN
3801001	63	2:1	150	450	6	3035	16
3801002	63	3:1	150	450	6	3035	16
3801003	110	2:1	245	770	1	15500	16
3801004	110	3:1	245	770	1	15500	16

NEW | Mine Shouldered Fixed Ratio Pressure Reducing Valve



3:1 Fixed Ratio PRV with DN100 Shoulder

- Lightweight build
- Corrosion-free polymer components
- Suitable for water and compressed air
- PN16 rating

Speak to your Plasson Australia representative, or scan the QR code to register your interest and be notified of availability.



Fixed Ratio Pressure Reducing Valve

Designed to reduce static head pressure, especially in underground mining water supply systems.



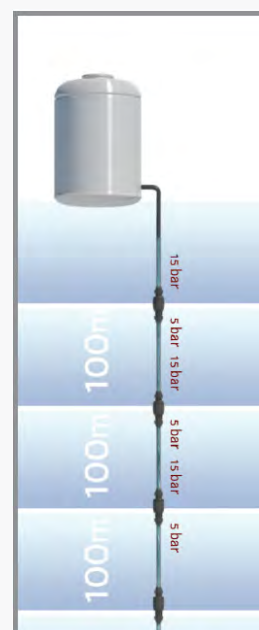
Features and Benefits:

- ✓ Lightweight (approx. 15kg) for fast and easy installation
- ✓ Stable pressure control over the full flow and pressure range
- ✓ Corrosion resistant plastic body and internal parts
- ✓ Long service life even in abrasive fluids (particulates) due to an innovative hydraulic design and sealed moving components
- ✓ Assembled directly to PE pipes with integral Plasson compression fittings
- ✓ Can be installed either vertically or horizontally
- ✓ Maintenance free
- ✓ Unbox & install
- ✓ Excellent in saline water conditions

CODE	DESCRIPTION
3801001	FIXED RATIO PRESSURE REDUCING VALVE METRIC 63 RATIO 2:1
3801002	FIXED RATIO PRESSURE REDUCING VALVE METRIC 63 RATIO 3:1
3801003	FIXED RATIO PRESSURE REDUCING VALVE METRIC 110 RATIO 2:1
3801004	FIXED RATIO PRESSURE REDUCING VALVE METRIC 110 RATIO 3:1

Technical Specifications:

- ✓ Pressure rating: 16 bar
- ✓ Working pressure range: 2-16 bar
- ✓ Flow range - 63mm: 0-14m³/hour with capacity of 30m³/hour; 110mm: nominal 55m³/hour, maximum 80m³/hour
- ✓ Body: Polypropylene PPB
- ✓ Seals: NBR
- ✓ Diaphragm: Reinforced Neoprene
- ✓ Available in pressure reduction ratios - 2:1 or 3:1
- ✓ Connections: Plasson metric mine safe fittings 63 OD & 110 OD
- ✓ Optional: Threaded male BSP (63 OD) and shouldered (110 OD on request)



VISIT OUR WEBSITE FOR
MORE INFORMATION

INSTALL GUIDE

63MM - 125MM

WATCH INSTALL
INSTRUCTIONS



1



REMOVE NUT AND PUT GRIP RING ASIDE

PLACE NUT, BUSH AND O-RING ON PIPE TWO DIAMETERS
BACK FROM END

LUBRICATE PIPE AND O-RING

2



PUSH THE PIPE FULLY ONTO FITTING BODY UP TO END STOP

PUSH THE O-RING AND BUSH UP AGAINST FITTING BODY

**NOTE: THE O-RING AND BUSH WILL NOT ENTER THE FITTING
BODY**

3



TIGHTEN NUT TO PUSH BUSH AND O-RING INTO FITTING
UNTIL BUSH IS FLUSH WITH FITTING MOUTH

NOTE: THE GRIP RING IS STILL NOT INSTALLED AT THIS POINT

4



UNDO NUT AND SLIDE BACK ALONG PIPE

INSTALL GRIP RING TO LUGS ARE TOUCHING BUSH

**NOTE: IF REINSTALLING FITTINGS DESTROY OLD GRIP RINGS
AND REPLACE WITH NEW ONES TO ENSURE FIRM BITE**

5



FIRMLY HAND-TIGHTEN PLUS A 1/2 TURN WITH WRENCHES
MAXIMUM HANDLE LENGTH: 45CM

NOTE: OVER-TIGHTENING NUTS CAN CAUSE BLOWOUTS







MINE SAFE FITTINGS

PLASSON.COM.AU | SALES@PLASSON.COM.AU | 1300 752 776

