



PRODUCT CATALOGUE

THE COMPLETE RANGE OF
FITTINGS FOR POLYETHYLENE
PIPING SYSTEMS.

plasson.com.au

GLOBAL PRESENCE - LOCAL COMMITMENTS

PLASSON's innovative products revolutionised the way of connecting polyethylene pipes in the 1960's. We started with fittings for agricultural irrigation and later developed solutions for urban water distribution.

Nowadays, water delivery systems in many of the world's great cities owe their excellence to PLASSON's innovative research and development.

PLASSON ensures superior designs and products, the widest range of fittings and adaptors and a genuine commitment to quality, delivery and service.

PLASSON continues to strive for the future environment. By using PLASSON products, you help us to invest in our vision of a world where clean, pure water will be everyone's birthright.



HEAD OFFICE

Sydney

61 Dunning Avenue, Rosebery, NSW 2018

WAREHOUSES

Brisbane

77 Logistics Place, Larapinta, QLD 4110

Melbourne

25 Business Park Drive, Ravenhall, VIC 3023

Perth

8 Tacoma Circuit, Canning Vale, WA 6155

PLASSON AUSTRALIA

plasson.com.au

1300 752 776

sales@plasson.com.au

ABN 40 053 788 891

Version: 2026



A close-up, high-contrast photograph of industrial threaded fittings. The focus is on a central fitting with a hexagonal body and a flange. The word "PLASSON" is engraved on the hexagonal part, along with a small circular logo. The threads are clearly visible on the flange. In the background, other similar fittings are blurred, creating a sense of depth. The lighting is dramatic, highlighting the metallic textures and the precision of the manufacturing.

 **PLASSON**

THREADED FITTINGS

Threaded Fittings

5040

Page 26

90° Threaded Tee



5041

Page 26

90° Threaded Tee with
SS Reinforced Ring



5050

Page 27

90° Threaded
Elbow



5051

Page 27

90° Threaded Elbow
with SS Reinforcing Ring



5150

Page 27

90° Threaded Elbow
Male x Female



5060

Page 28

Threaded Nipple



5060

Page 28

Threaded Reducing
Nipple



5170

Page 29

Threaded Plug



5070

Page 29

Threaded Cap



5010

Page 30

Threaded Socket



5011

Page 30

Threaded Socket with
SS Reinforcing Ring



5110

Page 30

Threaded Reducing
Socket



5160

Page 31

Threaded Riser



5020

Page 31

Threaded
Reducing Bush



5180

Page 32

BUCCHI Tank Adaptor
Male Threaded - EPDM



5180

Page 32

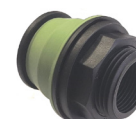
BUCCHI Tank Adaptor Male
- Female Threaded - EPDM



5180

Page 32

BUCCHI Tank Adaptor Male
- Female Threaded - FPM





ENGINEERED FOR STRENGTH, CERTIFIED FOR QUALITY

Plasson threaded fittings are manufactured from Polypropylene for increased strength and enhanced chemical resistance.

Plasson’s range of threaded fittings are certified to AS/NZS 4129 and hold both ISO Type 5 and WaterMark licenses. Plasson threaded fittings are made to ISO 7.1 which is equivalent to Australian Standard AS ISO 7.1.

Male threads are tapered. Known as BSPT, these fittings are referred to as R threads in the standard. Female threads are parallel. Known as BSPP, these fittings are referred to as Rp in the standard. When these threads are screwed together, with the use of a jointing medium, typically Teflon thread tape, a seal is formed.

The enhanced stiffness of the Plasson Polypropylene threaded fittings ensures a good seal between the threads of the male and female parts.

In some applications products are designed with a BSP taper female thread, Rc, which is designed for sealing with a BSP taper male, R. Teflon tape or another jointing medium is required with this connection.

OTHER THREAD STANDARDS

Other thread types are found within Australia, usually in the hydraulic and gas industry.

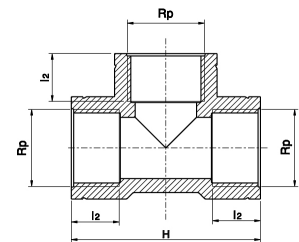
The hydraulic industry often uses a “G” thread. While of similar form to the Rp thread, the “G” thread is designed to seal with an o-ring or washer.

NPT threads are often used in the Gas industry. The NPT thread has a thread angle of 550 compared with 600 of the BSP range of fittings. While it is common to interchange these threads it is not recommended.

METRIC THREAD SIZE	SIZE
DN6	1/8"
DN8	1/4"
DN10	3/8"
DN15	1/2"
DN20	3/4"
DN25	1"
DN32	1.1/4"
DN40	1.1/2"
DN50	2"
DN65	2.1/2"
DN80	3"

90° Threaded Tee

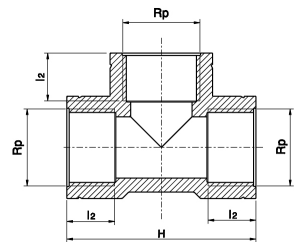
5050



Product Code	Size Rp	H	l2	Bag	Carton	W	PN
5040001	1/2"	64	18	10	700	28	16
5040002	3/4"	68	19	10	500	39	16
5040003	1"	81	21	10	260	61	16
5040006	1 1/4"	96	25	5	140	114	10
5040004	1 1/2"	108	25	5	90	157	10
5040005	2"	130	30	5	60	205	10

90° Threaded Tee with SS Reinforcing Ring

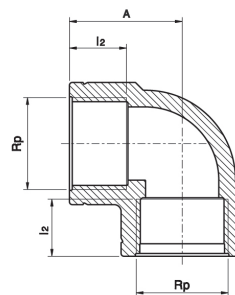
5041



Product Code	Size Rp	H	l2	Bag	Carton	W	PN
5041001	1.1/4"	96	25	5	150	140	16
5041002	1.1/2"	108	25	5	204	90	16
5041003	2"	30	30	5	226	60	16

90° Threaded Elbow

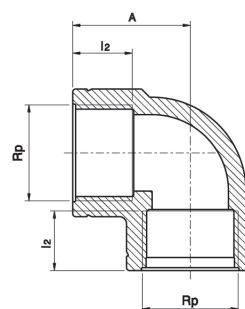
5050



Product Code	Size Rp	A	l2	Bag	Carton	W	PN
5050001	1/2"	32	17	10	1000	22	16
5050002	3/4"	35	18	10	700	30	16
5050003	1"	41	21	10	400	45	16
5050004	1 1/4"	48	25	10	200	87	10
5050005	1 1/2"	54	25	5	150	116	10
5050006	2" x 2"	65	30	5	80	157	10

90° Threaded Elbow with SS Reinforcing Ring

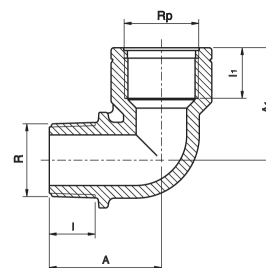
5051



Product Code	Size Rp	A	l2	Bag	Carton	W	PN
5051001	1 1/4"	48	25	10	200	111	16
5051002	1 1/2"	54	25	5	140	147	16
5051003	2"	65	30	5	80	190	16

90° Threaded Elbow Male x Female

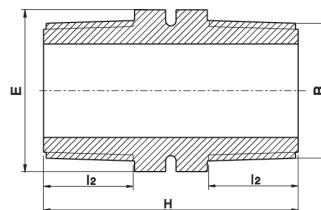
5150



Product Code	Size R x Rp	A	A1	I	l1	Bag	Carton	W	PN
5150001	1/2" x 1/2"	36	36	16	17	10	1000	17	16
5150002	3/4" x 3/4"	40	40	17	18	10	700	25	16
5150003	1" x 1"	45	47	19	21	10	400	40	16

5060

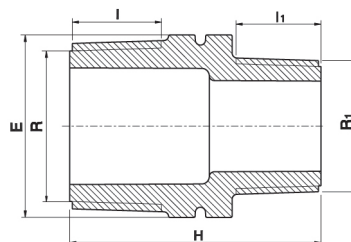
Threaded Nipple



Product Code	Size R	H	l2	E	Bag	Carton	W	PN
5060001	1/2" x 1/2"	47	17	22	10	1800	8	16
5060002	3/4" x 3/4"	49	18	27	10	1500	11	16
5060003	1" x 1"	55	20	36	10	800	23	16
5060004	1 1/4" x 1 1/4"	60	22	46	10	400	35	16
5060005	1 1/2" x 1 1/2"	61	22	50	5	300	48	16
5060006	2" x 2"	71	26	65	5	180	78	16

Threaded Reducing Nipple

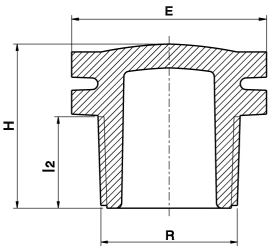
5060



Product Code	Size R x R1	A	A1	I	l1	Bag	Carton	W	PN
5060007	3/4" x 1/2"	47	17	17	16	10	1500	10	16
5060008	1" x 1/2"	49	19	19	16	10	800	17	16
5060009	1" x 3/4"	50	19	19	17	10	800	18	16
5060010	1 1/4" x 1/2"	53	21	21	16	10	500	28	16
5060011	1 1/4" x 3/4"	54	21	21	17	10	500	29	16
5060012	1 1/4" x 1"	56	21	21	19	10	500	31	16
5060013	1 1/2" x 1/2"	54	21	21	16	5	500	34	16
5060014	1 1/2" x 3/4"	55	21	21	17	5	500	34	16
5060015	1 1/2" x 1"	57	21	21	19	5	400	36	16
5060016	1 1/2" x 1 1/4"	59	21	21	21	5	400	39	16
5060017	2" x 1/2"	58	25	25	16	5	280	51	16
5060018	2" x 3/4"	59	25	25	17	5	260	52	16
5060019	2" x 1"	61	25	25	19	5	260	53	16
5060020	2" x 1 1/4"	63	25	25	21	5	240	57	16
5060021	2" x 1 1/2"	63	25	25	21	5	240	58	16

Threaded Plug

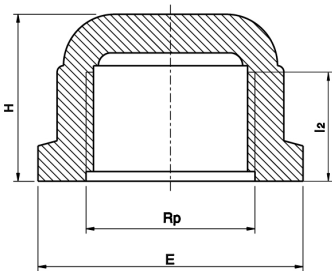
5170



Product Code	Size R	H	I2	E	Bag	Carton	W	PN
5170001	3/8"	24	13	22	10	4500	4	16
5170002	1/2"	29	16	27	10	2000	8	16
5170003	3/4"	31	17	32	10	1500	12	16
5170004	1"	34	19	36	10	1000	16	16
5170005	1 1/4"	38	21	46	10	700	26	16
5170006	1 1/2"	39	21	55	10	500	38	16
5170007	2"	45	25	65	10	300	60	16

Threaded Cap

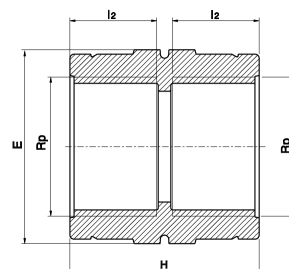
5070



Product Code	Size Rp	E	H	I2	Bag	Carton	W	PN
5070001	1/2"	37	25	15	10	1600	13	16
5070002	3/4"	42	26	16	10	1500	14	16
5070003	1"	50	32	19	10	800	27	16
5070004	1 1/4"	59	34	22	10	500	39	10
5070005	1 1/2"	65	34	21	10	450	43	10
5070006	2"	80	39	25	5	250	78	10

Threaded Socket

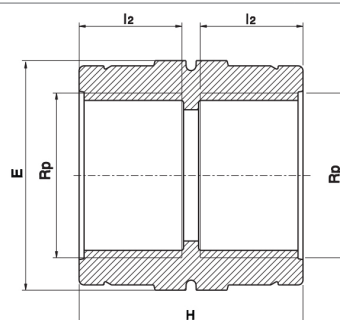
5010



Product Code	Size Rp	H	l2	E	Bag	Carton	W	PN
5010001	1/2"	39	17	30	10	1200	15	16
5010002	3/4"	41	19	36	10	1000	19	16
5010003	1"	45	21	46	10	600	31	16
5010004	1.1/4"	54	25	60	10	250	65	10
5010005	1.1/2"	54	25	65	10	250	76	10
5010006	2"	66	31	75	5	150	94	10

Threaded Socket with SS Reinforcing Ring

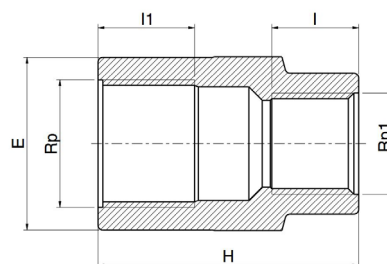
5011



Product Code	Size Rp	H	l2	E	Bag	Carton	W	PN
5011001	1.1/4"	54	25	60	10	250	89	16
5011002	1.1/2"	54	25	65	10	240	107	16
5011003	2"	65	30	75	5	150	12	16

Threaded Reducing Socket

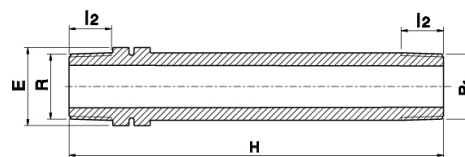
5110



Product Code	Size Rp x Rp1	H	l	l1	E	Bag	Carton	W	PN
5110001	3/4" x 1/2"	50	20	19	36	10	800	24	16

Threaded Riser

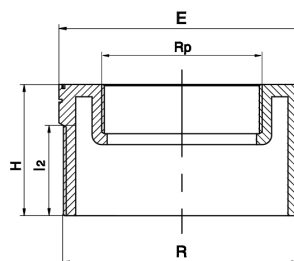
5160



Product Code	Size R x R1	H	l2	E	Bag	Carton	W	PN
5160001	1/2" x 1/2"	150	17	22	10	600	30	16
5160002	3/4" x 1/2"	113	18	27	10	500	26	16
5160003	3/4" x 3/4"	150	18	27	10	400	43	16
5160004	1" x 1"	150	19	36	5	250	65	16
5160005	1 1/4" x 1 1/4"	150	21	46	5	150	93	16
5160006	1 1/2" x 1 1/4"	150	21	50	5	140	120	16
5160007	1 1/2" x 1 1/2"	150	21	50	5	140	120	16

Threaded Reducing Bush

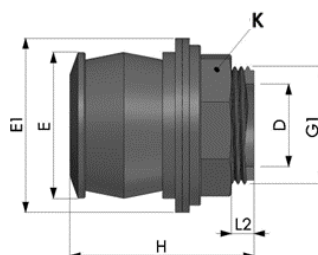
5020



Product Code	Size R x Rp	H	l2	E	Bag	Carton	W	PN
5020001	3/4" x 1/2"	30	17	27	10	2000	6	16
5020002	1" x 1/2"	32	19	36	10	1000	16	16
5020003	1" x 3/4"	32	19	36	10	1000	11	16
5020004	1.1/4" x 1/2"	37	21	46	10	700	27	16
5020005	1.1/4" x 3/4"	37	21	46	10	700	28	16
5020006	1.1/4" x 1"	37	21	46	10	700	21	16
5020007	1.1/2" x 1/2"	37	21	50	10	600	34	16
5020008	1.1/2" x 3/4"	37	21	50	10	600	32	16
5020009	1.1/2" x 1"	37	21	50	10	500	32	16
5020010	1.1/2" x 1.1/4"	37	21	50	10	500	20	10
5020011	2" x 1/2"	41	25	63	5	350	60	16
5020012	2" x 3/4"	41	25	63	5	350	58	16
5020013	2" x 1"	41	26	63	5	300	61	16
5020014	2" x 1.1/4"	41	26	63	5	320	55	10
5020015	2" x 1.1/2"	41	26	63	5	320	44	10
5020016	2.1/2" x 2"	44	29	80	5	200	75	10
5020017	3" x 1"	48	32	90	2	150	117	16
5020018	3" x 1.1/4"	48	32	90	2	150	119	10
5020019	3" x 1.1/2"	48	32	90	2	150	118	10
5020020	3" x 2"	48	32	90	2	100	103	10
5020021	3" x 2.1/2"	48	32	90	2	150	75	10
5020022	4" x 2"	56	41	120	2	80	238	10
5020023	4" x 3"	56	41	120	2	80	222	10

5180

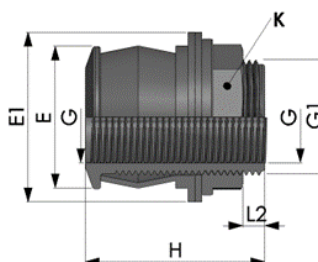
BUCCHI Tank Adaptor Male Threaded - EPDM



Product Code	Size G1	E	E1	D	H	K	L2
5180001	1/2"	29	37	13	49	23	5
5180002	3/4"	35	43	18	52	32	4
5180003	1"	43	53	24	56	41	7
5180004	1.1/4"	52	62	29.5	65	50	6
5180005	1.1/2"	59	68	34.5	75	57	16
5180006	2"	70	80	34.5	91	70	31

BUCCHI Tank Adaptor Male - Female Threaded - EPDM

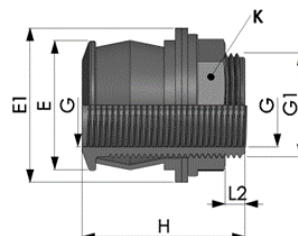
5180



Product Code	Size G1x G	E	E1	H	K	L2
5180007	1/2" x 3/8"	29	38	49	28	5
5180008	3/4" x 1/2"	35	43	52	32	4
5180009	1" x 3/4"	43	53	56	41	7
5180010	1.1/4" x 1"	52	62	65	50	6
5180011	1.1/2" x 1.1/4"	59	68	75	57	16
5180012	2" x 1.1/2"	70	80	91	70	31

BUCCHI Tank Adaptor Male - Female Threaded - FPM

5180



Product Code	Size G1x G	E	E1	H	K	L2
5180013	1/2" x 3/8"	29	37	49	28	8
5180014	3/4" x 1/2"	35	43	52	32	4
5180015	1" x 3/4"	43	53	56	41	7
5180016	1.1/4" x 1"	52	62	65	50	6
5180017	1.1/2" x 1.1/4"	59	68	75	57	15
5180018	2" x 1.1/2"	70	80	91	70	31



ONE PERSON INSTALL, FROM OUTSIDE THE TANK

BUCCHI Adaptors deliver a secure and reliable seal on tank walls 2mm to 12mm even on curved or uneven walls, for water, fuel and aggressive liquids. Available M and MF threaded 1/2" to 2".

PLASSON Australia is exclusive distributor for BUCCHI.
Call us on 1300 752 776 or email
sales@plasson.com.au to find out more.



**SEE A BUCCHI TANK
CONNECTED**

INSTALLATION

Adaptor Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Male Thread EPDM	5180001	5180002	5180003	5180004	5180005	5180006
M/F Thread EPDM	5180007	5180008	5180009	5180010	5180011	5180012
M/F Thread FPM	5780013	5180014	5180015	5180016	5180017	5180018
Tank wall min thickness mm	2	2	2	4	4	4
Tank wall max thickness mm	8	9	10	12	12	12
Drill hole size mm	29	35	43	52	59	70





INSTALLATION AND SPECIFICATIONS

Technical Specifications

Compression Fittings

Body: Polypropylene, high-grade copolymer.
Nut: Polypropylene, high-grade copolymer.
Grip Ring: Acetal POM (CPVC also available).
Seal: NBR or EPDM (FPM also available).
Reinforcing Ring: Stainless steel on all female offtakes from 1¼" up to 4".
Bolts (160mm fittings): Plated steel.
Nuts (160mm fittings): Stainless steel.
Flange dimensions in accordance with: ISO 7005-1 (TABLE 11), BS 4504: 1989 (TABLE 11), DIN 2501 (PN 16 TABLE), AS/NZS 4331. Metal backing rings to be used with all flanges.
Note: Galvanised via electroplating then protected with a proprietary passivation process.

Valves

Valves - PP (340 / 304)

Body: Polypropylene high grade copolymer.
O-Ring: NBR unless otherwise noted in product description.
Spring: (Items 03067, 03039) Stainless Steel.

Valves - PVC (1114 / 1115 / 1135)

Injection-moulded components: PVC-U.
O-Rings: EPDM.
Springs: Stainless steel 316.
Gaskets (on ball): PTFE (polytetrafluoroethylene).

Valves – Polymaide (3703)

Body & Spindle: Glass Reinforced Polyamide
Ball: Glass Reinforced Polypropylene.
Ball Seat: Polyethylene.
Handle: Polypropylene.
Seals: EPDM.

Saddles

Mechanical:

Body: Polypropylene, high-grade copolymer.
Bolts and Nuts: Varies.
Reinforcing Rings: Stainless steel.
Seal: Nitrile rubber (NBR / EPDM).

Plassaddle:

Main Nut: Glass Reinforced Polyamide
Clamp Arms: Glass Reinforced Polypropylene.
Pressurised Body: Polypropylene PPB.
Seal: EPDM.

Tapper Components:

Body and Compression nut: Polypropylene, high grade copolymer.
Grip Ring: Acetal (POM).
Seal: NBR .
Cutter: Lead Free DZR Brass.

Threaded Fittings

Body: Polypropylene, high-grade copolymer.
Reinforcing Ring: Stainless Steel.

Operating Temperatures

Refer to the PIPA POP013 guidelines.
Link: <https://pipa.com.au>

Chemical Resistance

PLASSON Fittings are supplied, as standard, with polyacetal split rings and NBR O-rings which are suitable for water. For aggressive chemical applications CPVC split rings and EPDM or FPM O-rings can be supplied to produce a higher chemical resistance.

Quality Certificates

Plasson fittings are tested and approved according to ISO 17885 (replaced ISO 14236), water and AS/NZ 4129.

Threads

All threads conform to ISO-7/1 (BSPT), BS 21 - 1973, DIN 2999, NEN 3258, AS 1722 Part 1 - 1975.

All internal (female) threads smaller than 3" are parallel (Rp). All other threads (male and female) are tapered (R). Plasson recommend the use of PTFE tape in threaded connections.

Installation

Before installation ensure that the end of the pipe to be inserted into the fitting is free of scratches and other imperfections and that both the pipe and the fitting itself are clean of sand, mud, stones etc.

Do not over tighten nut when closing. Never use wrenches or spanners with handle lengths longer than 46 cm - excessive torque during tightening can spread nut cone and result in pull outs. If fittings are reused, Plasson recommend replacing the grip ring with a new one.

Electrofusion

Plasson Electrofusion fittings are globally recognized as best in class. Most fittings include SmartFuse resistors built into the welding terminal, this enables automatic weld time recognition when used with a Plasson electrofusion machine.

Polyethylene: PE 100 RC.

Brass components: Lead Free DZR Brass.

Stainless Steel components: SS316.

Electrofusion fittings: Are batch controlled, record the batch number on the fitting label and contact Plasson Australia for a copy of the material datasheet / EN 10204 3.1 Inspection Certificate.

Installation:

Plasson Australia no longer publish generic how to perform electrofusion instructions. Plasson Australia recommend installation as per POP001 - Electrofusion Jointing of PE Pipe and Fittings for Pressure Applications as published by Plastics Industry Pipe Association of Australia (PIPA). This is free to download from <https://pipa.com.au>

Some products are unique to Plasson and require specialised tools or installation instructions, these products come with printed instructions included in the fitting bag.

Simona Spigot fittings

Polyethylene: PE 100 RC.

Simona spigot fittings are batch controlled, record the batch number on the fitting label and visit <https://certificates.plasson.com.au/> for a copy of the material datasheet / EN 10204 3.1 Inspection Certificate.

Backing Flanges

Galvanised flanges are hot dipped galvanised.

Stainless Steel are SS316L.

Galvanized ANSI flanges are A105 grade.

Plasson flanges are heat traced. Record the product code and heat code clearly marked on the flange and contact Plasson Australia for a copy of the heat certificate.

Compressed Air Applications

The following are the recommendations for Plasson fittings in compressed air systems with estimated design life of 50 years.

FITTING	SIZE	20°C	30°C	40°C
COMPRESSION FITTINGS	16-125mm (PN16 Water)	12.5	11.3	10.1
THREADED FITTINGS	1/2" to 2" (PN16 Water)	7.8	7	6.3
THREADED BUSHES	1/2" to 1"	7.8	7	6.3
	1.1/4" to 2"	4.8	4.4	3.9
THREADED CAPS	Up to 1.1/4"	5	4.4	3.9
TAPPING SADDLES – MECHANICAL	20 – 160mm (Includes Threaded Outlets)	7.8	7.0	6.3
ELECTROFUSION FITTINGS	20 – 400mm (PN16 Water)	12.5	11.3	10.1
	63 – 400mm Lightfit (PN10 Water)	7.8	7.0	6.3

Pressure values in BAR.

Legend

Bag	Units par bag
Carton	Units per carton
W	Weight in grams

METRIC COMPRESSION

16MM - 63MM

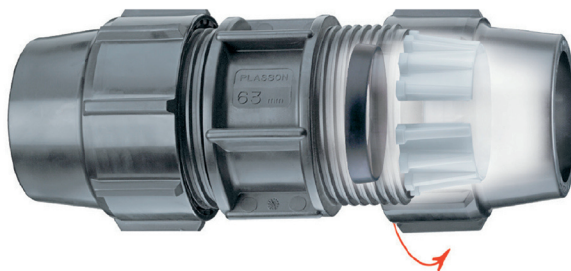


1



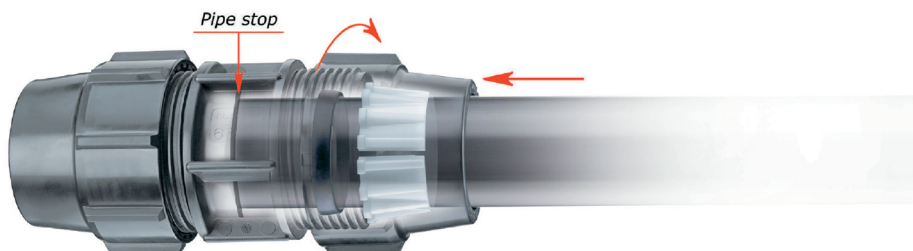
CUT PIPE SQUARE, CHAMFER END OF PIPE AND APPLY SILICON-BASED LUBRICANT TO MAKE INSTALL EASIER AND AVOID POTENTIAL DAMAGE TO THE CAPTIVE O-RINGS

2



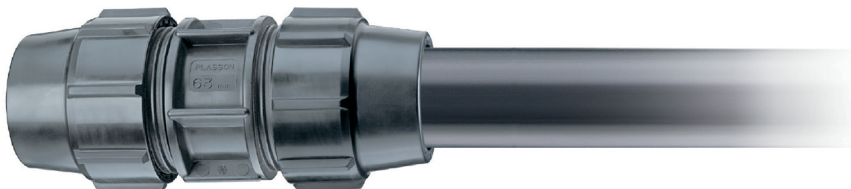
BACK THE NUTS OFF SEVERAL TURNS BUT DO NOT REMOVE THE NUT FROM THE FITTING BODY

3



INSERT PIPE INTO FITTING WITH A TWISTING MOTION PAST THE GRIP RING AND O-RING UNTIL IT HITS THE END STOP

4



FOR 16-32MM HAND-TIGHTEN AND FOR 40-63MM HAND-TIGHTEN AND USE WRENCHES TO DO UP A FURTHER HALF TURN

METRIC COMPRESSION

63MM MINE

75MM - 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

RURAL COMPRESSION

1/2" - 2"



1



PLACE NUTS AND GRIP RINGS ON PIPE ENDS

2



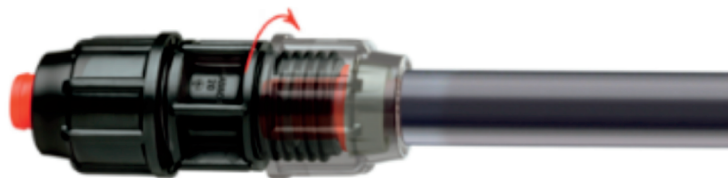
PUSH RED BARBED INSERT INTO PIPE & FITTING

3



SLIDE NUTS & GRIP RINGS UP TO FITTING BODY

4



DO BOTH NUTS UP BY HAND UNTIL FIRMLY TIGHT

NOTE: USING WRENCHES MAY LEAD TO OVER-TIGHTENING WHICH CAN RESULT IN BLOW OUTS

Reference Guides and Charts

Standard Dimension Ratios (SDR's) For Series 1 Pe Pipes And Equivalent Pressure Rating In Bar

Compound	PN3.2	PN4	PN6.3	PN8	PN10	PN12.5	PN16	PN20	PN25
PE80	41	33	21	17	13.6	11	9	7.4	-
PE100	-	41	26	21	17	13.6	11	9	7.4

Standard Pipe Colour Chart

Colour	Common Use
Blue	Water
Orange	Electrical Conduit
Yellow	Gas - PE100
Red	Fire Service Water
Green	Imperial Rural / Raw Water
Purple	Recycled / Reclaimed Water
Cream	Pressure Sewer

Maximum Allowable Operating Pressure – PE100 (Ref PIPA POP013)

Temp (°C)	Min Life (YR)	Design Factor	PN4 / SDR41	PN6.3 / SDR26	PN8 / SDR21	PN10 / SDR17	PN12.5 / SDR13.6	PN16 / SDR11	PN20 / SDR9	PN25 / SDR7.4
20	100	1.0	40	64	80	100	127	160	200	250
25	100	1.1	36	58	73	91	115	145	182	227
30	100	1.1	36	58	73	91	115	145	182	227
35	50	1.2	33	53	67	83	106	133	167	208
40	50	1.2	33	53	67	83	106	133	167	208
45	35	1.3	31	49	62	77	99	123	154	192
50	22	1.4	29	46	57	71	91	114	143	179
55	15	1.4	29	46	57	71	91	114	143	179
60	7	1.5	27	43	53	67	85	107	133	167
80	1	2.0	20	32	40	50	63	80	100	125

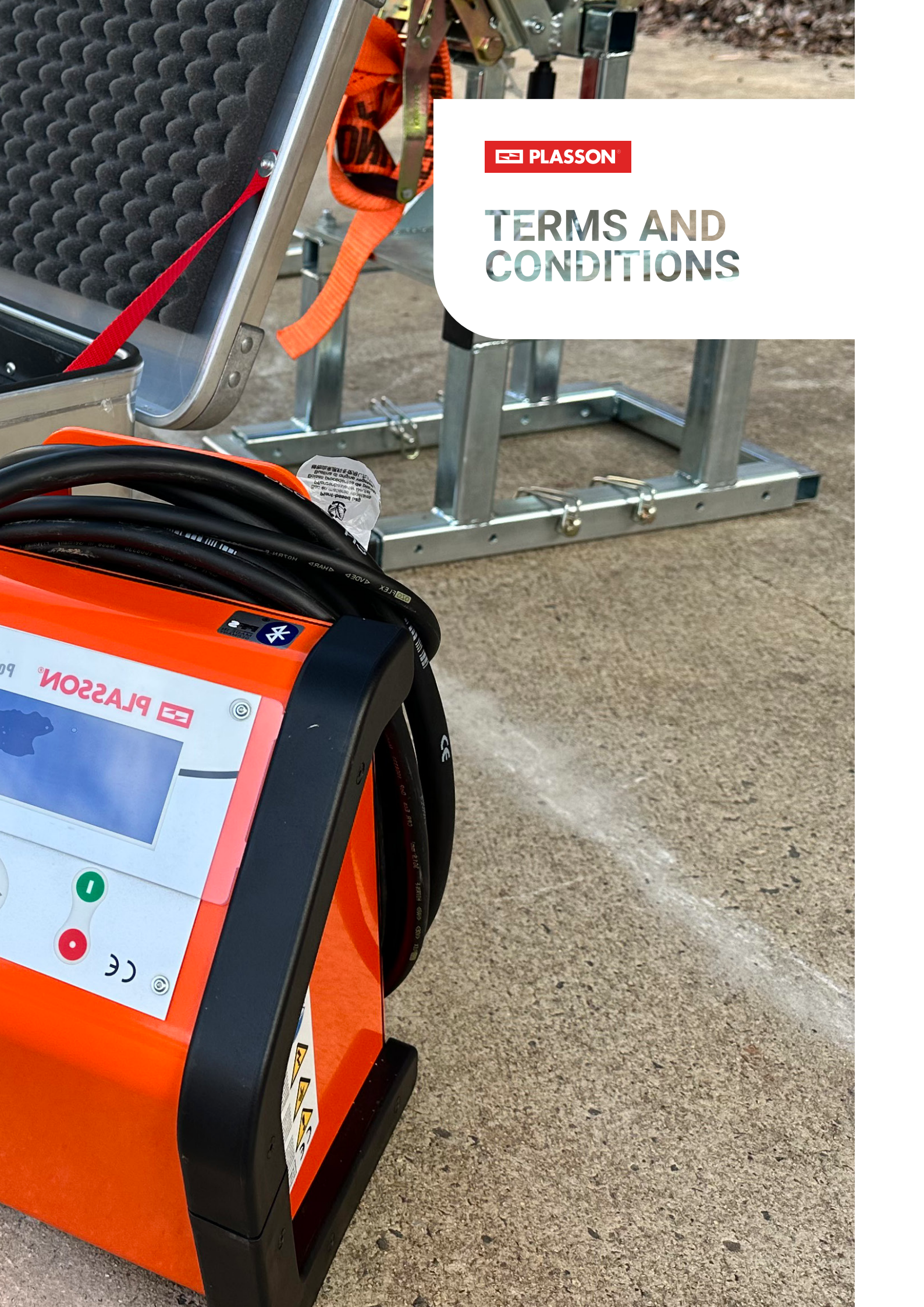
Information correct when printed. To ensure you are using the most up to date data for the Industry Guidelines POP013 visit the PIPA Website <https://pipa.com.au/technical/pop-guidelines>

Rural Poly Pipe (Class B) | Imperial Type Class C&D (ASK119)

Size Nominal	Rural (B)		Class C 900 kPa (130 PSI) No Longer Manufactured		Class D 1200 kPa (173 PSI) No Longer Manufactured	
	BORE MM	WALL THICKNESS MM	BORE MM	WALL THICKNESS MM	BORE MM	WALL THICKNESS MM
1/2"	12.7	1.7	12.7	1.7	12.7	1.8
3/4"	19.0	1.7	19.0	1.9	19.0	2.7
1"	25.4	1.7	25.4	2.6	25.4	3.5
1 1/4"	31.6	2.1	31.6	3.3	31.6	4.4
1 1/2"	38.0	2.5	38.0	3.9	38.0	5.3
2"	50.8	3.4	50.8	5.2	50.8	7.1

Dimensions are mean sizes only.





 PLASSON

TERMS AND CONDITIONS

Terms and Conditions

1. DEFINITIONS & INTERPRETATION

"Agreement" means the agreement for supply of Goods between PLASSON and the Customer of which these "Conditions of Sale" form part.

"Business Day" means a day other than a Saturday, Sunday, public holiday or bank holiday in Sydney, New South Wales.

"Charges" includes all monies payable by the Customer to PLASSON in relation to the supply of Goods. "Confirmation of Order" means a written document which sets out a description of the Goods, the Charges and other necessary terms and which may include details of the Customer's offer to purchase the Goods.

"Customer" means the entity which orders Goods from PLASSON or to which Goods are delivered by PLASSON and includes the Customer's agents and permitted assigns.

"Ex Works" has the same meaning as is ascribed to that term in Incoterms 1990.

"Goods" means the goods purchased or ordered by the Customer from Plasson and includes parts and supplies which may subsequently be supplied under any warranty given in relation the Goods.

"GST" means goods and services tax imposed in Australia by the GST law.

"PLASSON" means PLASSON Australia Pty Ltd ACN 053 788 891, its agents and assigns.

"Permitted Security Interest" means any security interest which PLASSON consents to or otherwise agrees in writing with the Customer will be a Permitted Security Interest for the purposes of these terms and conditions.

"Persons" includes corporations, partnerships and unincorporated associations.

"PPSA" means the Personal Property Securities Act 2009 (Cth) as amended. "PPSR" means the Personal Property Security Register. "Purchase Money Security Interest" has the meaning prescribed to it in the PPSA. "Security Interest" has the meaning prescribed to it in the PPSA and includes any security interest under the PPS Act.

Words importing the singular number shall include the plural and vice versa.

2. CONDITIONS

These Conditions of Sale apply to all agreements for the supply of Goods by PLASSON and if revised by PLASSON and the Customer is notified of the revised Conditions of Sale the revised Conditions of Sale shall be incorporated into every subsequent agreement for purchase of Goods by that Customer from PLASSON.

3. QUOTATIONS AND ENTRY INTO AGREEMENT

- 3.1. No brochure, catalogue, price list, quotation or other communication published or forwarded by PLASSON to the Customer, whether in writing or not, shall constitute anything other than an invitation by PLASSON to the Customer to do business and shall not represent that the Goods or Charges referred to in them shall be available to the Customer. Any purchase order placed by the Customer with PLASSON constitutes only an offer to purchase Goods. Notwithstanding any prior communication between PLASSON and the Customer, there shall be no obligation by PLASSON to accept an offer to purchase Goods made by a Customer. The Customer's offer is only accepted by PLASSON issuing a Confirmation of Order to the Customer.
- 3.2. In the event of any inconsistency between the Customer's purchase order or other request and PLASSON's Confirmation of Order (which includes these Conditions), the terms of the Confirmation of Order shall prevail.
- 3.3. Unless otherwise stated in the Confirmation of Order prices quoted are exclusive of GST and the Customer is required to pay any GST payable by PLASSON in respect to the supply of Goods at the same time as the price is required to be paid by the Customer to PLASSON.

4. FUNCTIONALITY AND PERFORMANCE

- 4.1. All information, specifications or other data provided by PLASSON in relation to the Goods represent approximations only and small deviations or slight variations from them which do not substantially diminish the functionality or performance of the Goods will not entitle the Customer to reject the Goods.
- 4.2. Information provided by PLASSON in relation to the performance of Goods represents only a guide as to the performance of the Goods under optimum operating conditions.
- 4.3. Without limiting the operation of Clause 4.2, PLASSON may at its sole discretion provide the Customer with training manuals and other materials in relation to the Goods. PLASSON gives no representation or warranty as to the accuracy of such materials or the use of them by the Customer.

5. CHARGES

- 5.1. The Customer shall pay to PLASSON all Charges within thirty (30) days from the date of the Invoice without reduction or deferment on account of any claim, counterclaim or setoff.
- 5.2. The Customer acknowledges that the cost of transportation and freight for the Goods is not included in the Charges and the Customer shall pay a reasonable additional fee for such costs. All other charges such as duty, insurance and taxes and other related expenses shall unless otherwise agreed in writing) be paid by the Customer.
- 5.3. Should the Customer fail to pay any amount when due to PLASSON, the Customer shall be liable to pay to PLASSON without demand interest thereon at the rate of 1% above the rate charged on commercial overdraft accounts in excess of \$100,000.00 applicable from time to time and charged by PLASSON's bankers as nominated by PLASSON at the relevant time. Interest payable hereunder shall be compounded monthly and calculated from the due date for payment to the date upon which payment is actually made.
- 5.4. Notwithstanding anything else appearing in the Agreement, all Charges shall immediately become due if the Customer

shall fail to make any payment when due or shall become subject to the bankruptcy laws or enter into any composition with its creditors or enter into any liquidation or suffer a receiver or receiver and manager to be appointed for all or part of its assets.

- 5.5. Where payment of the Charges or part of the Charges is due prior to delivery of the Goods and where the Customer fails to make such payment, PLASSON may withhold delivery and give the customer a notice requiring payment to be made within seven days. Should the Customer fail to make the payment which is due within the time required by the notice, PLASSON may terminate the Agreement.

6. PROPERTY OF GOODS PURCHASED

- 6.1. No legal or equitable title to the Goods shall pass to the Customer until payment in full has been made by the Customer not only of all Charges for all Goods the subject of the Agreement (unless waived in writing by PLASSON) but also until payment has been made of all Charges for all goods previously supplied by PLASSON to the Customer.
- 6.2. Until the legal and equitable title to the Goods passes to the Customer, the Customer shall:
- (a) Hold the Goods as bailee of PLASSON returnable at will and without prior demand by PLASSON;
 - (b) Store the Goods in such a manner as enables them to be readily identified and distinguished from all other goods held by the Customer and, where such other goods include goods previously supplied by PLASSON to the Customer and in respect of which title has passed to the Customer, then the Customer shall attach to the Goods in respect of which title has not passed a notice indication that the Goods are held as bailee for PLASSON;
 - (c) Upon demand by PLASSON immediately deliver up the goods to PLASSON; and
 - (d) Authorise and the Customer does here by authorise PLASSON to enter upon the premises upon which the Goods are stored for the purpose of taking possession of them.

7. SERVICE

Some Goods may require recalibration annually or at other periods nominated by PLASSON. The Customer may at its own cost transport and deliver the Goods to and from PLASSON's nominated premises from time to time. On receipt of the Goods, PLASSON agrees to recalibrate the Goods (if necessary) provided that the Customer pays PLASSON its then current service charges in respect of such recalibration.

8. INTELLECTUAL PROPERTY LICENCE

PLASSON hereby grants to the Customer a nonexclusive licence to use any software or firmware used in connection with the Goods and supplied by PLASSON. The licence shall be subject to any terms and conditions imposed by PLASSON or the owner of copyright in the software or firmware.

9. FINANCIER

- 9.1. If PLASSON sells the Goods to a third-party financier (the "Financier") at the request of the Customer, then PLASSON agrees to grant the licence referred to in Clause 8 to the Customer.
- 9.2. The Customer represents and warrants to PLASSON that if PLASSON sells the Goods to a Financier at the request of the Customer, the Customer shall continue to be bound by all of the terms of the Agreement as if the Customer continued to be the legal and equitable owner of the Goods.

10. DELIVERY AND RISK

- 10.1. The Goods are sold on an Ex Works basis: delivery of the Goods will occur when the Goods are placed at the disposal of the Customer at PLASSON's premises and risk of loss or damage to the Goods then passes to the Customer. In these circumstances, PLASSON may agree to arrange carriage of the Goods for the Customer but will do so as the agent for the Customer and delivery will occur and risk will pass when the Goods are placed at the disposal of the carrier. The Customer shall pay to PLASSON its Charges for carriage incurred upon the Customer's behalf.
- 10.2. Delivery dates represent only an estimation of the date of delivery of the Goods and are not binding on PLASSON. Nothing in the Confirmation of Order shall be construed as making time of the essence in the Agreement unless it is expressly stated to be so.
- 10.3. PLASSON reserves the right to deliver the Goods by instalments and to invoice the Customer for each instalment of Goods delivered where, in the opinion of PLASSON, it is reasonable to do so.
- 10.4. Failure by the Customer to pay for any instalments, or any other amounts when due, shall entitle PLASSON to withhold or delay delivery of any remaining Goods.
- 10.5. If PLASSON determines that it is or may be unable to deliver the Goods within a reasonable time or at all, PLASSON may at its sole discretion terminate the Agreement. In the event of termination the Customer shall have no claim against PLASSON for any damage, loss or expense whatsoever.
- 10.6. If PLASSON is unable to effect delivery, PLASSON may store the Goods and charge the Customer for all costs and expenses associated with such storage and delayed delivery.
- 10.7. Subject to any express warranty provided in writing by PLASSON to the Customer, failure by the Customer to notify PLASSON within seven days of delivery that the Goods are not in accordance with their description in the Confirmation of Order shall constitute an unqualified acceptance of the Goods and a waiver by the Customer of all claims with respect to the Goods.

If at any point the Customer not completely satisfied with Goods, it is necessary for the Customer to bring this to PLASSON'S attention immediately by contacting PLASSON using the following details:

Attn.: Nelli Sullivan

Plasson Australia Pty Ltd ACN 053 788 891

Suite 2.03 Green Central, 61 Dunning Avenue, Rosebery NSW 2018

NSullivan@plasson.com.au

- 10.8.** In arranging carriage, storage, insurance and forwarding of the Goods PLASSON shall at all times be acting as the Customer's agent and all Charges in relation to same shall be reimbursed by the Customer. This clause shall also apply to any partial delivery of the Goods.
- 10.9.** Any Goods returned to PLASSON by the Customer other than Goods incorrectly supplied, or Goods with major defects will only be accepted by PLASSON on condition that:
- (i) a re-stocking fee of 25% of the Charges applicable to the Goods plus GST and return freight charges are paid by the Customer to PLASSON; and
 - (ii) delivery by the Customer of a Return Authority from PLASSON; and
 - (iii) the Goods are of merchantable quality.

11. IMPLIED TERMS AND LIMITATION OF LIABILITY

- 11.1.** Where conditions, warranties or other rights for the benefit of the Customer are implied or given in respect of the Agreement by Competition and Consumer Act, 2010 and / or the Sales of Goods Act 1896 (as amended) or other laws and it is not lawful or possible to exclude the same, then such conditions, warranties or other rights shall (but only to the extent required by law) apply to the Agreement.
- 11.2.** PLASSON'S Goods come with guarantees that cannot be excluded under the Australian Consumer Law. The Customer is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. The Customer is also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 11.3.** To the extent permitted by law and the Goods are not of a kind ordinarily acquired for household use or consumption, liability of PLASSON for breach of this contract by PLASSON or negligence of PLASSON or for breach of any conditions or warranty implied by the Competition and Consumer Act, 2010 and / or the Sales of Goods Act 1896 (as amended) shall be limited to one of the following at PLASSON's option:
- (a) the replacement of the Goods or the supply of equivalent Goods; or
 - (b) the repair of the Goods; or
 - (c) the payment of the costs of replacing the Goods or of acquiring equivalent Goods;
 - (d) the payment of the cost of having the Goods repaired; and in the case of services supplied to one of the following (as PLASSON may determine): (1) the supplying of the services again, or (2) the payment of the costs of having the services supplied again.
- 11.4.** Save as expressly provided in any written warranty provided in writing by PLASSON to the Customer and in and to the extent permitted by law and notwithstanding any implication arising from any other clauses in the Agreement, for Goods that are not of a kind ordinarily acquired for household use or consumption PLASSON shall not be liable to the Customer or any person claiming under it in contract or in tort for, or in respect of, any indirect or consequential loss, damage, expense or injury suffered by the Customer or any other person whatsoever, arising out of, in connection with or relating to the performance, non-performance or any breach of the Agreement (including, by way of illustration and not in limitation, liability due to the negligence or wilful default of PLASSON) or any matter relating to the Agreement or any error (whether negligent or not) in information supplied to the Customer before or after the date of the Agreement in connection with its subject matter. "Consequential loss" shall include but not be limited to loss of profit, use or good will (or similar financial loss), payment made or due to any other person and any loss or damage caused by delay in the performance of any obligation, together with any expenses incurred by the Customer in connection therewith, arising therefrom or incurred in mitigation or attempted mitigation of such loss or damage.
- 11.5.** Clause 11.4 shall apply to all express warranties provided in writing by PLASSON except to the extent that those warranties specifically provide otherwise.
- 11.6.** Where any law implies into the Agreement a condition that the Goods are of merchantable quality, and the Goods are purchased by the Customer for particular purpose, the Goods will not be considered by the Customer as being fit for any other purpose, whether or not that other purpose is one for which goods of that kind are commonly bought.

12. DEPOSIT

- 12.1.** Where PLASSON agrees to supply Goods upon the condition that a deposit of part or all of the charges is paid prior to delivery ("the Deposit"), in the event that the Customer terminates the Agreement or fails to take delivery of the Goods or is otherwise in breach of its obligations to PLASSON so that PLASSON is entitled to terminate the Agreement, the Customer shall forfeit ten per cent of the Deposit to PLASSON for PLASSON's benefit and PLASSON shall refund the balance to the Customer.
- 12.2.** The forfeiture of the Deposit shall not be deemed any limitation, in damages or otherwise including damages for loss of profits, of the liability of the Customer to PLASSON.

13. TERMINATION

In addition to the rights of termination provided in the above conditions, PLASSON may terminate the Agreement upon the occurrence of any of the following events:

- (a) Failure by the Customer to perform any obligation of this Agreement where such failure is not rectified within 30 days of notice from PLASSON requesting rectification.
- (b) The Customer becomes bankrupt or an order is made or a resolution is passed for the winding up of the Customer or a ground arises on which a court may order its winding up or upon which a meeting may rely for the purposes of placing the Customer under official management or an inspector is appointed to investigate its affairs or it proposes to or enters into any arrangement, scheme, reconstruction or composition with creditors.
- (c) A receiver of receiver and manager of the Customer's assets, income or business or any part thereof is appointed, or a mortgagee goes into possession thereof and such appointment is not terminated, or such possession does not cease within fourteen days.
- (d) The Customer shall fail to pay its debts as they shall fall due or cease or threaten to cease to carry on business or sell, assign, transfer the whole or any part of its undertaking or assets otherwise than in the ordinary course of business.

- (e) The Customer purports to assign its rights under the Agreement.
- (f) Any event occurs outside the reasonable control of PLASSON which in PLASSON's estimate makes it impracticable or impossible for it to fulfil its obligation under the Agreement.

14. FORCE MAJEURE

- 14.1. PLASSON will not be liable for any loss or damage suffered by the Customer due to any delay or any breach or default under the Agreement in circumstances where such delay, breach or default results from causes beyond PLASSON's reasonable control including but not limited to any breach or default under the Agreement by the Customer, compliance with any laws, regulations, orders, acts, instructions or priority requests of governments, acts of God, fires, floods, weather, strikes, lockouts, factory shutdown or alterations, embargoes, wars, riots, delay or shortage in transportation or inability to obtain labour, manufacturing facilities, electricity, oil or other materials from PLASSON's or the Manufacturer's usual sources.
- 14.2. Any delay resulting from such cause shall immediately extend the delivery date by the period of delay in which event the Customer shall take, if necessary, steps to secure payment for the Goods.

15. MISCELLANEOUS

- 15.1 Any indulgence, latitude or extension of time which PLASSON may show towards the Customer in relation to any of the provisions of the Agreement or any matter or thing relating thereto or arising therefrom shall not in any way prejudice or interfere with PLASSON's rights under the Agreement and shall not be claimed to constitute a waiver thereof.
- 15.2 The Customer acknowledges that no oral terms or representations form part of the Agreement unless they have been reduced to writing and signed by PLASSON prior to entering into the Agreement.
- 15.3 Any notice to be given to a party shall be in writing and shall be sent by post, email or facsimile to the address of that party as shown in the Confirmation of Order or as subsequently notified by that party to the party giving the notice and shall be deemed to have been given:
 - (a) in the case of post, 5 Business Days after the date of posting (or 10 Business Days in the event that the Customer is located outside of Australia;
 - (b) in case of email, on the day and at the time the email is sent unless a delivery failure notification is received by the sender within 4 hours of sending the email; and
 - (c) in the case of hand delivery, when delivered.
- 15.4 The Agreement shall be governed by the laws of New South Wales and the parties agree to submit to the jurisdiction of the Courts for that State.
- 15.5 In the event of PLASSON seeking to recover any amount due from the Customer or to enforce any of its other rights under the Agreement, the Customer undertakes to pay to PLASSON any costs incurred by PLASSON in so doing, including any legal costs incurred on the solicitor and own client basis.

16. SECURITY INTEREST

- (a) The Customer hereby acknowledges that these terms and conditions of sale constitute a security agreement which creates a Security Interest in favour of PLASSON in all present and after acquired property of the Customer including Goods supplied by PLASSON to the Customer and all after acquired Goods supplied to the Customer by PLASSON (or for the Customer's account) to secure the payment from time to time for Goods, including future advances.
- (b) The Customer agrees to grant to PLASSON:
 - (i) a Purchase Money Security Interest in relation to any Goods supplied by PLASSON to the Customer; and
 - (ii) a Security Interest in all of its present and after acquired property in which Goods supplied or financed by PLASSON have been attached or incorporated, including any Commingled Goods and in any proceeds of sale of Goods.

17. GENERAL COVENANTS

- (a) Until such time as payment in full has been received by PLASSON from the Customer in respect to an Order, the Customer covenants to PLASSON not to create, cause or permit to exist any other Security Interest over any Goods the subject of the applicable Order, other than a Permitted Security Interest and covenants that it shall comply with the terms of each Permitted Security Interest binding on it in respect of the relevant Goods from time to time and shall ensure that:
 - (i) there is no increase in the amount secured under a Permitted Security Interest (excluding any part of a Permitted Security Interest which is a purchase money security interest); and (ii) there is no variation to a Permitted Security Interest that increases the collateral the subject of the Permitted Security Interest, other than in the case of a purchase money security interest, without obtaining the prior written consent of PLASSON.
- (b) The Customer covenants to PLASSON that it shall sign anything and do anything PLASSON requires to further or more effectively secure PLASSON's rights over the applicable Goods or under these terms and conditions. This includes anything PLASSON requires in order for it to: (i) register and maintain (including renew before expiry) one or more financing statements in relation to any Security Interest in the relevant Goods created by these terms and conditions and/or any Order;
 - (ii) remove any financing statement which is registered against the Customer or in relation to a Security Interest which is not a Permitted Security Interest; and (iii) obtain possession or control of any Goods for the purposes of perfecting any Security Interest in that property by possession or control for the purposes of the PPSA.
- (c) The Customer waives its rights to receive a verification statement in respect of any financing statement or financing change statement registered by or on behalf of PLASSON under the PPSA to the extent permitted by the PPSA and agrees to that as between PLASSON and the Customer will have no rights under (or by reference to) sections 95, 96, 117, 118, 120, 121(4), 123, 125, 126, 128, 129, 130, 132(3)(d), 132(4), 134(1), 135, 142 and 143 of the PPSA.



PLASSON AUSTRALIA

plasson.com.au

1300 752 776

sales@plasson.com.au

ABN 40 053 788 891