

Streaming Water. Streaming Life!



Compression Fittings

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ή - Eta Series (Australian Rural PN 10 bar)



- Agriculture
- Landscape
- Building Infrastructure
- Industry

Quality Management

Our Quality management system ensures top-class products in terms of performance, reliability and durability. This is a crucial parameter to ensure customer satisfaction and loyalty. Elysée quality system, ISO 9001, is approved by CCC and IQNet.

Elysée Rural fittings comply with the Australian Standards of:

AS/NZS 4129 - Fittings for Polyethylene (PE) pipes for pressure applications.

AS/NZS 2698.3 - Plastic Pipe & Fittings for Irrigation and Rural applications.

In compliance with this standard, Elysée ensures regular supply of reliable products with approved quality.

Dimensions and Characteristics

Our fittings comply with the dimensional and characteristics determined in the relevant standards of AS/NZS 4129 and AS2698.3.

Application Fields

Our fittings are suitable for joining polyethylene pipes for pressure applications (PE63, PE80, PE100) conforming to AS/NZS 4130 and AS 2698.2.

Fluids Other Than Water

The fitting may convey a wide variety of fluids. (Contact us for advice on specific applications.)

Operating Pressure

Fittings from □20 up to □50 mm –10 bar nominal pressure @ 20°C

Threading

Threads (BSP) are manufactured according to: EN 10226, ISO 7, DIN 2999 and BS 21. All internal (female) threads smaller than 3" are parallel. All other threads (male and female) are tapered. It is recommended that PTFE tape is used when making threaded joints/connections. Any other sealing compound must be confirmed as suitable. Assembly should be carried out by hand and final tightening by a strap wrench, if necessary. Extra care must be taken not to over tighten and otherwise damage the thread.

Resistance to Impact

The thermoplastic materials used for manufacturing the fittings have excellent impact properties.

Effect on Water

All fittings intended to be used for potable water supply systems or agricultural practices are manufactured according to the requirements of the relevant standards. Elysée fittings fully conform to international hygiene and sanitary requirements specified by standards such as BS6920 (UK), and AUS/NZ 4020 (AUS).

Projected Life Expectancy

Based on the information available and the successful performance under the nominated test regime, the life expectancy is rated at 50 years before replacement or major repair. This rating is only a general guide to life expectancy and may increase or decrease depending on the quality of the installation, system operation and environment conditions as well as other geographical and site specific factors.

Operating Temperature

The fittings are not to be used in hot water although they withstand the same temperature as the polyethylene pipe itself. The fittings withstand sub-zero temperatures. The pressure rating has to be adjusted as shown in the figure below, if the fittings are to be used at higher temperatures.

Abrasion Resistance

The fittings are suitable for the transportation of abrasive slurries and will withstand normal conditions found in urban, mining, industrial, rural water and waste water systems.

Weathering

Elysée fittings offer excellent weathering properties which protects against degradation due to ultra- violet radiation. Therefore, their use is permissible on exposed systems without additional protection.

Certificates



Testing of Rural Fittings

Several tests are carried out to verify the compliance of our rural fittings with the relevant standards through in-house testing as well as tests in external accredited laboratories. Furthermore, all quality procedures and practices are checked from the entry of raw material, until the delivery of the pipes to the customers. Out of the regular inspections of appearance, colour, marking and geometric characteristics, several mechanical and material tests are carried out as mentioned below:

Testing Of Raw Material (MRS Value)

The selected raw materials of the fitting body (PP-B) is tested for long-term physical behaviour with successful MRS values in the range of 10 MPa, being the highest in the market.

Melt Mass-Flow Rate (MFR)

The Mass Flow Rate of the fitting body is measured and then compared in opposition to the measured mass flow rate of the raw material. The difference between the two values should not exceed the 10%.

Plastics Molded Material Test

The scope of this test is to verify the long term behaviour of the material of the fitting body in line with the ISO 1167 and ISO 9080.

Hydrostatic Pressure Test for Assembled Joints

The entire assembly, body with pipe, is tested under hydrostatic pressure in order to investigate the leak-proof of assembled joints between the fitting and the rural pipe when the internal pressure is greater than the determined rating pressure of 10 bar. The test conditions used shall demonstrate compliance with ISO 1167.

Leak-Tightness under Pressure When Subjected To Bending

In accordance with ISO 3503, this test checks the leak proofness of assembled joints under internal pressure when are performed under bending conditions on the prescribed radius

Plastic Body Fittings Test

In accordance with ISO 1168, the resistance of plastic body fittings is tested when it's subjected to internal pressure.

Opacity Test

The scope of this test is to determine the amount of light transmitted through the fitting wall in accordance with the ISO of 7686.

Pressure Loss through Couplings:

This test determines the pressure lost through couplings, used to join polyethylene micro – irrigation pipes in accordance with the AS2698.3 standard.

Resistance to Pull-Out Test of Assembled Joints

The scope of this test is to determine the resistance of the assembled joints to failure by pull-out when subjected to a specific test load, specified by the relevant standard of ISO 3501.

Components

- (1) BODY
- (2) O-RING
- (3) INSERT
- (4) RURAL INSERT
- (5) SPLIT RING
- (6) NUT



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Eta Series (Rural) PN10

No. 260 Adaptor Male



	Code	Size	Bag	Box	
•	260002001	3/4" x 1/2"		480 L	
•	260002002	3/4" x 3/4"		480 L	
•	260002003	3/4" x 1"		450 L	
•	260002501	1" x 1/2"		280 L	
•	260002502	1" x 3/4"		280 L	
•	260002503	1" x 1"		260 L	
•	260003201	1 1/4" x 1/2"		180 L	
•	260003202	1 1/4" x 3/4"		180 L	
•	260003203	1 1/4" x 1"		160 L	
•	260003204	1 1/4" x 1 1/4"		160 L	
•	260003205	1 1/4" x 1 1/2"		150 L	
•	260004003	1 1/2" x 1"		100 L	
•	260004004	1 1/2" x 1 1/4"		100 L	
•	260004005	1 1/2" x 1 1/2"		100 L	
•	260004006	1 1/2" x 2"		100 L	
•	260005003	2" x 1"		80 L	
•	260005004	2" x 1 1/4"		80 L	
•	260005005	2" x 1 1/2"		80 L	
•	260005006	2" x 2"		70 L	

Eta Series (Rural) PN10

No. 260A Adaptor Female



	Code	Size	Bag	Box	
•	260A02001	3/4" x 1/2"		500 L	
•	260A02002	3/4" x 3/4"		400 L	
•	260A02501	1" x 1/2"		360 L	
•	260A02502	1" x 3/4"		320 L	
•	260A02503	1" x 1"		320 L	
•	260A03201	1 1/4" x 1/2"		220 L	
•	260A03202	1 1/4" x 3/4"		220 L	
•	260A03203	1 1/4" x 1"		180 L	
•	260A03204	1 1/4" x 1 1/4"		140 L	
•	260A03205	1 1/4" x 1 1/2"		150 L	
•	260A04003	1 1/2" x 1"		100 L	
•	260A04004	1 1/2" x 1 1/4"		100 L	
•	260A04005	1 1/2" x 1 1/2"		100 L	
•	260A05004	2" x 1 1/4"		65 L	
•	260A05005	2" x 1 1/2"		65 L	
•	260A05006	2" x 2"		65 L	

Eta Series (Rural) PN10

No. 260B End Plug



	Code	Size	Bag	Box	
•	260B00020	3/4"		400 L	
•	260B00025	1"		300 L	
•	260B00032	1 1/4"		180 L	
•	260B00040	1 1/2"		125 L	
•	260B00050	2"		80 L	

Eta Series (Rural) PN10

No. 261 Coupling



	Code	Size	Bag	Box	
•	261020020	3/4" x 3/4"		220 L	
•	261025025	1" x 1"		180 L	
•	261032032	1 1/4" x 1 1/4"		100 L	
•	261040040	1 1/2" x 1 1/2"		72 L	
•	261050050	2" x 2"		44 L	

Eta Series (Rural) PN10

No. 261A Coupling Reducing



	Code	Size	Bag	Box	
•	261A02520	1" x 3/4"		200 L	
•	261A03220	1 1/4" x 3/4"		140 L	
•	261A03225	1 1/4" x 1"		140 L	
•	261A04025	1 1/2" x 1"		100 L	
•	261A04032	1 1/2" x 1 1/4"		85 L	
•	261A05032	2" x 1 1/4"		65 L	
•	261A05040	2" x 1 1/2"		60 L	

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No. **262**
Elbow



	Code	Size	Bag	Box	
•	262020020	¾" x ¾"		200	L
•	262025025	1" x 1"		160	L
•	262032032	1¼" x 1¼"		80	L
•	262040040	1½" x 1½"		50	L
•	262050050	2" x 2"		36	L

Eta Series (Rural) PN10

No. **262D**
Wall Elbow Female



	Code	Size	Bag	Box	
•	262D02001	¾" x ½"		240	L
•	262D02502	1" x ¾"		140	L

Eta Series (Rural) PN10

No. **262A**
Elbow Male



	Code	Size	Bag	Box	
•	262A02001	¾" x ½"		400	L
•	262A02002	¾" x ¾"		300	L
•	262A02501	1" x ½"		240	L
•	262A02502	1" x ¾"		240	L
•	262A02503	1" x 1"		200	L
•	262A03202	1¼" x ¾"		140	L
•	262A03203	1¼" x 1"		140	L
•	262A04004	1½" x 1¼"		90	L
•	262A04005	1½" x 1½"		90	L
•	262A05005	2" x 1½"		60	L
•	262A05006	2" x 2"		60	L

Eta Series (Rural) PN10

No. **262B**
Elbow Female



	Code	Size	Bag	Box	
•	262B02001	¾" x ½"		375	L
•	262B02002	¾" x ¾"		300	L
•	262B02501	1" x ½"		260	L
•	262B02502	1" x ¾"		260	L
•	262B02503	1" x 1"		200	L
•	262B03202	1¼" x ¾"		180	L
•	262B03203	1¼" x 1"		140	L
•	262B04004	1½" x 1¼"		75	L
•	262B04005	1½" x 1½"		75	L
•	262B05005	2" x 1½"		55	L
•	262B05006	2" x 2"		55	L

Eta Series (Rural) PN10

No. **264**
Tee



	Code	Size	Bag	Box	
•	264020020	¾" x ¾"		120	L
•	264025025	1" x 1"		100	L
•	264032032	1¼" x 1¼"		60	L
•	264040040	1½" x 1½"		35	L
•	264050050	2" x 2"		20	L

Eta Series (Rural) PN10

No. **264A**
Tee Reducing



	Code	Size	Bag	Box	
•	264A02520	1" x ¾" x 1"		100	L
•	264A03225	1¼" x 1" x 1¼"		60	L
•	264A04032	1½" x 1¼" x 1½"		40	L
•	264A05040	2" x 1½" x 2"		25	L

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Eta Series (Rural) PN10

Tee Female



	Code	Size	Bag	Box	
•	263002001	¾" x ½" x ¾"		180	L
•	263002002	¾" x ¾" x ¾"		180	L
•	263002501	1" x ½" x 1"		140	L
•	263002502	1" x ¾" x 1"		140	L
•	263002503	1" x 1" x 1"		120	L
•	263003202	1¼" x ¾" x 1¼"		80	L
•	263003203	1¼" x 1" x 1¼"		80	L
•	263004004	1½" x 1¼" x 1½"		45	L
•	263004005	1½" x 1½" x 1½"		45	L
•	263005005	2" x 1½" x 2"		30	L
•	263005006	2" x 2" x 2"		30	L

No.
263A

Eta Series (Rural) PN10

Tee Male



	Code	Size	Bag	Box	
•	263A02001	¾" x ½" x ¾"		180	L
•	263A02002	¾" x ¾" x ¾"		180	L
•	263A02003	¾" x 1" x ¾"		160	L
•	263A02501	1" x ½" x 1"		150	L
•	263A02502	1" x ¾" x 1"		140	L
•	263A02503	1" x 1" x 1"		160	L
•	263A03201	1¼" x ½" x 1¼"		100	L
•	263A03202	1¼" x ¾" x 1¼"		100	L
•	263A03203	1¼" x 1" x 1¼"		80	L
•	263A04003	1½" x 1" x 1½"		50	L
•	263A04004	1½" x 1¼" x 1½"		50	L
•	263A04005	1½" x 1½" x 1½"		50	L
•	263A05005	2" x 1½" x 2"		30	L
•	263A05006	2" x 2" x 2"		30	L