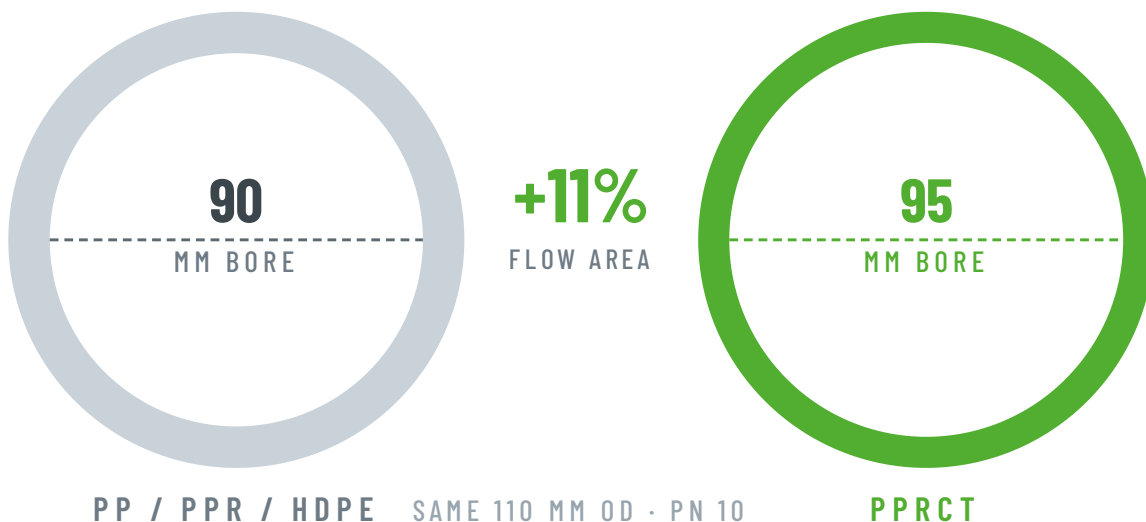




MORE FLOW MORE SAVING

FR composite process piping in glass-reinforced polypropylene. Water, effluent, chemicals, chiller and hot-condensation lines — carried through a bigger bore in the same outside diameter, in a pipe that does not corrode.



DIAMETER RANGE 20 - 630 mm	PRESSURE CLASS PN 10 - 25	STANDARD ISO 15874-2 :2012	DESIGN LIFE Up to 25 yr at rated duty
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SINCE 1995

ABOUT ANJNEY

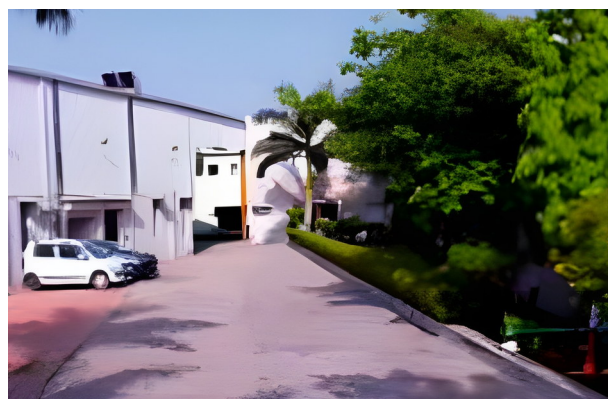
Anjney is a manufacturer of non-metallic industrial pipes and fittings built around one idea: **energy saving**. We have been in the piping industry since 1995, and every decade we have put a new generation of product into the market.

The raw material behind **PPRCT** is graded at **MRS 12.5 MPa** – a higher minimum required strength than standard polypropylene grades. Higher MRS means the wall can be thinner at the same pressure class, which is where the extra bore and the extra flow come from.

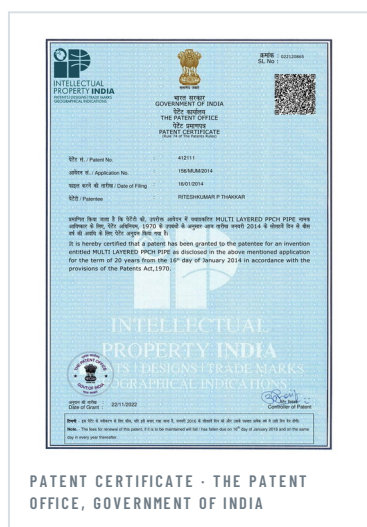
It also holds pressure better at elevated temperature. The result is a pipe with a long payback profile: near-nil maintenance through life, no corrosion allowance to design around, and no rescaling shutdowns.

WHAT WE PROTECT

Patented multi-layer glass reinforcement with UV layer - **PPRCT** registered as a trade mark, Government of India - registered design for the multi-layer construction.



INTELLECTUAL PROPERTY ON RECORD



PATENT NO.	412111
INVENTION	Multi Layered PPCH Pipe
APPLICATION	156/MUM/2014, filed 16 Jan 2014
GRANTED	22 Nov 2022 • 20-year term
PPCH TRADE MARK	3332845 • Class 19 • 10 Aug 2016
PPRCT TRADE MARK	3676896 • Class 17 • 13 Nov 2017
REGISTRY	Trade Marks Registry, Mumbai
REGISTERED DESIGN	Multi-layer construction with UV layer

SERVING INDUSTRY SINCE

1995

RAW MATERIAL MRS

12.5 MPa

ISO 12162 grade

CERTIFICATION

D&B • Bureau Veritas

BEYOND THE STANDARD

PPRCT

FR COMPOSITE

PATENTED GLASS-REINFORCED PIPING

PPRCT is a multi-layer glass reinforcement technology developed and owned by Anjney Tubes India. The core patent, granted by the Government of India, covers multi-layer glass reinforcement with a UV layer.

A

Maximum bore, maximum flow

Higher material strength allows a thinner wall at the same pressure class, so more of the outside diameter is usable bore. On a 110 mm line that is 95 mm of bore against 90 mm.

B

UV and weather resistance

A carbon outer layer protects the pipe from direct sunlight and weather in outdoor runs — backed by a registered design and trade mark.

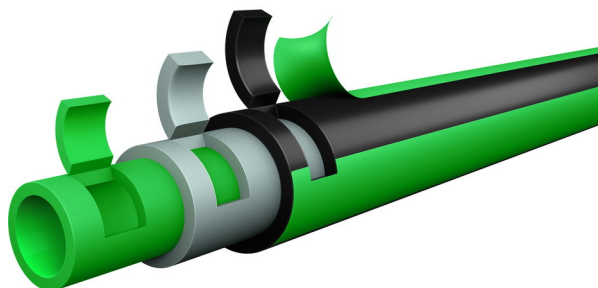
C

Electrofusion for large bore

Anjney offers an electrofusion fitting system on glass-reinforced PP composite from 200 mm to 630 mm. The joint is obstruction-free — no internal bead and no step in bore.

APPLICATION AREAS

Any waterline application	Normal water, R.O. water, raw water, hot water
Environmental	Effluent treatment plant (ETP), water treatment plant (WTP), DM water
Process line	Corrosive chemicals, oil lines, general process lines
Temperature line	Hot-water condensation line, high-temperature chemical line
Utility	Chiller line, cooling-tower line, RT water, low TDS and high TDS



PPRCT delivers more flow than any comparable polymer piping system — PP, PPR or PE — at the same outside diameter and pressure class.

Please consult us for the area of application — fluid, concentration, temperature and pressure together determine suitability. We do not recommend threaded fittings in chemical service.

SAVING IS THE SECOND INCOME

ENERGY SAVING

Industry is judged on production per rupee of capital and maintenance. **PPRCT** attacks the running side of that equation: more flow through the same nominal size, and near-nil maintenance across a life of up to 25 years.

PPRCT works at the same pressure rating as any comparable pipe but with a thinner wall. The bore you gain is bore the pump no longer has to force fluid through.

NOMINAL SIZE	PP/PPR/HDPE BORE, MM	FLOW M ³ /S	PPRCT BORE, MM	FLOW M ³ /S	BORE GAIN	FLOW GAIN	POWER SAVING
20 MM ½"	14.4	0.0001647	15.8	0.0001985	+9.7%	+20.5%	6 - 7%
25 MM ¾"	18.2	0.0002574	20	0.0003101	+9.9%	+20.5%	6 - 7%
32 MM 1"	23.2	0.0004217	26	0.0005081	+12.1%	+20.5%	6 - 7%
40 MM 1¼"	29	0.0006589	32	0.0007940	+10.3%	+20.5%	6 - 7%
50 MM 1½"	36.2	0.0010296	40	0.0012406	+10.5%	+20.5%	6 - 7%
63 MM 2"	45.6	0.0016346	50	0.0019695	+9.6%	+20.5%	6 - 7%
75 MM 2½"	61.4	0.0029574	65	0.0033751	+5.9%	+14.1%	5 - 6%
90 MM 3"	73.6	0.0042587	78	0.0048602	+6.0%	+14.1%	5 - 6%
110 MM 4"	90	0.0063617	95	0.0072603	+5.6%	+14.1%	5 - 6%
160 MM 6"	130	0.0134595	138	0.0153606	+6.2%	+14.1%	5 - 6%
200 MM 8"	163	0.0210305	173	0.0224931	+6.1%	+7.0%	5 - 6%
250 MM 10"	204	0.0328602	216	0.0351454	+5.9%	+7.0%	5 - 6%
315 MM 12"	258	0.0521688	270	0.0557968	+4.7%	+7.0%	5 - 6%

Bores are stated at PN 16 from 20 mm to 63 mm and PN 10 from 75 mm to 315 mm. Flow figures are volumetric throughput at equal mean velocity (approx. 1 m/s); flow gain is therefore the gain in cross-sectional area. Power saving is indicative only — the realised figure depends on layout, static head, fittings count, duty cycle and pump control.

ELECTROFUSION UP TO 630 MM

Anjney is the sole manufacturer offering an **electrofusion jointing system on glass-reinforced PP composite piping up to 630 mm**. A resistance coil moulded into the fitting fuses pipe and fitting into one homogeneous wall from inside the socket, so nothing is displaced into the bore — no internal bead, no step, no restriction. Butt-welded systems leave a raised ring at every joint, and on a long run those add up to a permanent load on the pump that no maintenance recovers.



AGAINST EVERY OTHER OPTION

PPRCT

STRENGTH

PPRCT is developed on a special grade of polypropylene with glass reinforcement, for industrial service. It reduces maintenance cost and extends life expectancy while saving energy.

PPRCT is the successor to Anjney's Thermal FR Composite pipe, which completed **20,000 installations** across India in industrial applications. Around **7,500 industrial clients** have used pipe from this family.



PARAMETER	PPRCT	PP / PPR / PPRC / PE	METAL (GI / MS / CS / CI)
Bore and flow	High bore, more flow	Low bore, less flow	Least flow
Jointing	Socket fusion & electrofusion — least pressure drop	Butt welded — more pressure drop	Butt welded / threaded — more pressure drop
Insulation	Sandwich glass reinforcement — needs least insulation	Needs more insulation	Needs the highest insulation
Thermal expansion	Glass reinforced — least thermal expansion	More expansion, more energy loss	Less expansion
Piping support	Less expansion, less support	More support required	Less support
UV resistance	Black UV-treated layer — good UV resistance	Not permitted in direct sunlight	Corrodes, more maintenance
Life at high temp / pressure	Up to 25 years	5 to 10 years	3 to 7 years

Life expectancy is stated at the manufacturer's rated duty for the service concerned and is not a warranty period. Comparative figures for other materials are typical industry values and will vary with grade, water chemistry and installation quality.

PIPES AND FITTINGS

PRODUCT RANGE

Anjney PPRCT Pipes to ISO 15874-2:2012. PPRCT Fittings to DIN 16962 Part 5-10 / ISO 15874-2:2012.

20 mm to 160 mm socket fusion · 200 mm to 630 mm electrofusion.

**PPRCT COMPOSITE PIPE**

20-50 mm, PN16/PN20
63-630 mm, PN10/16/20

**EQUAL TEE**

20-160 mm, PN25

**COUPLER**

20-160 mm, PN25

**ELBOW**

20-160 mm, PN25

**REDUCING TEE**

20-160 mm, PN25

**REDUCER**

20-160 mm, PN25

**END CAP**

20-160 mm, PN25

**LONG RADIUS ELBOW**

20, 32, 50, 63 mm, PN25

**CORE FLANGE / LONG NECK COLLAR**

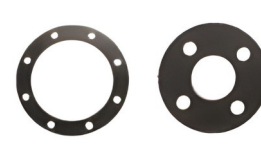
20-160 mm, PN25

**ELBOW 45°**

20-160 mm, PN25

**BRANCH ADAPTOR**

All relevant sizes

**STEP FLANGE (ELECTROSTATIC METAL)**

20-630 mm

**ELECTROFUSION COUPLER**

200 - 630 mm

**ELECTROFUSION CORE FLANGE**

200 - 630 mm

**ELECTROFUSION ELBOW**

200 - 630 mm

**ELECTROFUSION EQUAL TEE**

200 - 630 mm

Please confirm your application with us before using the product – fluid, concentration, temperature and pressure all matter. We do not recommend threaded fittings in chemical service.

INSTALLED AND RUNNING

OUR CLIENTS

7,500+ INDUSTRIAL CLIENTS · 20,000+ INSTALLATIONS · SINCE 1995



Company marks are the property of their respective owners and are shown solely to indicate supply history. Reference visits can be arranged on request.



BEYOND THE STANDARD

PPRCT FR Composite Piping - water, effluent, chemicals, chiller and hot-condensation lines. 20 to 630 mm, PN 10 to PN 25, to ISO 15874-2:2012.



Piping For Air, Water & Temperature

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