THERM

PP-R PIPES & FITTINGS

Q-Therm,
The Quantum Quality

PREFACE

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Having been supplying the electromechanical field for over a decade, I always dreamed of being able to manufacture what I am currently selling.

I often thought that one had to either be a trader or a manufacturer, but could never be both. I am here today to prove myself wrong.

Surrounded by a team of plastic experts (as I would like to call them), possessing more than 30 years of combined experience in plastics; investing in top notch technology, and sourcing superior raw materials from the world's best manufacturers; I formulated our strong trio, determined to deliver nothing less than world class quality to our valuable customers.

Quantum Industries started out with a few scribbles on a piece of paper, and as a result of the cross-pollination of theory, best practice and experience, coupled with a clear vision, today stretches across 45,000 Sq.Mtr., striving for global excellence, armed with the diligent work every member of the Quantum team is putting in, associating its name with leaders of the industry, aspiring not only to raise the bar, but to set the standard for others.

Best regards,
Jawad Khawaja
CEO

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Our Vision

❝ We aspire to position ourselves among the top PPR pipe manufacturers regionally while committing to make Q-Therm a synonym to quality, safety and reliability. ❞

Our Mission

Success is not accidental, we believe it's a journey of progressive pursuit of excellence in all what we do, having this mantra in mind, our destination is clear, and the compass guiding us will never lead us astray because:

• **Our quality pledge,** to ourselves before others, mandates our commitment to international norms and standards, and to consistently surpass the expectations while delivering our products and services to the world.

• **Our customers,** are our associates and partners, they are the capital we strive to thrive, we will be always the next-door neighbor for them, venturing with them by all our expertise and resources, trying to be the reliable constant in their world of variables.

• **Our society is in the core of our concerns,** with our relentless attempt to participate in sharing the social responsibility with others, we create opportunities for training, qualifying, employing and even partnering with individual or societal organizations, in an approach to secure the future for all.

1. What

Q-Therm, the PP-R piping systems offered by Quantum Industries provides a comprehensive solution for the transfer of all potable water requirements, as Q-therm products are:

DESIGNED:

To replace conventional piping systems.

ENGINEERED:

To withstand high working pressures and temperatures.

MADE:

Of the best PPR material.

PRODUCED:

With the state of the art German technology and machinery.

CONTROLLED:

By the top notch quality control equipments, according to international standards.

SUPPORTED:

By a team of professionals, dedicated with all their expertise to deliver the best to all clients.

Q-Therm Polypropylene random copolymers (PP-R) is thermoplastic material produced through the polymerization of propylene, with ethylene links introduced in the polymer chain. The Q-Therm material possesses a good durability, recyclability and environment-friendly characteristics.

Q-THERM

2. Why

Choosing the right piping system is always the challenge while designing networks, as Quality, Safety and Reliability are the prime quests for any designer. What Q-Therm offers with its piping solutions are products made of environment friendly PP-r which has its unique physical and chemical properties.
Q-Therm products stand as one of the safest means for potable water transfer. Its welding properties make it easy for quick installation by the end user in various applications. Hence, Q-Therm has been a primary consideration for present day piping solutions for its safety, service and reliability.

Advantages of Q-Therm products:

1. Environment:
   • Recycling.

2. Hygienic Suitability:
   • Non-Toxic.
   • Smell and Taste Neutrality.
   • Opaqueness.
   • Corrosion resistance.

3. Chemical resistance.

4. Mechanical Properties:
   When it is designed to replace the conventional metal piping solutions, Q-therm offers a better alternative to what has been offered in the past. the mechanical properties of Q-therm products are:
   • High Impact Resistance.
   • Low Thermal conductivity.
   • Resistance to current strays.
   • High durability.
   • Light Weight.

5. Sound Insulation.

6. Flow Performance:
   • Low Pressure Loss

7. Ease of Installation.

8. Long Service Life.

3. Where

It's impossible to imagine life without water, and with today's life style, it is equally impossible to think of water apart from being safely and hygienically carried and transferred to us.

Q-therm, the comprehensive fluid carrier (both liquid and gases), safely and carefully delivers every drop of it to, a diversified range of applications mainly, but not limited to;

1. Pipe networks for potable water.
2. Floor heating purposes for residential houses.
3. Industrial pipeline networks.
4. For transporting aggressive fluids and pneumatic systems (considering the chemical resistance).
5. Pipe networks for agricultural and horticultural requirements.
6. Pipe networks for connection of heat pumps.

To know about the chemical resistance of Polypropylene to various chemical fluids, you may refer to us by sending your enquiry to info@quantumindustries.ae , Our engineers shall be of assistance in providing general guidelines on possible utilization of polypropylene piping for conveying chemical fluids.

Standards:

DIN 8077	Polypropylene (PP) Pipe Dimensions
DIN 8078	Polypropylene (PP) Pipes, general quality requirements testing & chemical resistance of pipes and fittings.
DIN 1988	DVGW Code of practice. (Drinking water supply systems; materials, components, appliances, design & installation)
DIN 8076	Standard for testing metal threaded joints
DIN 2999	Standards for fittings with threaded metallic inserts
DIN 16928	Installation, Pipes and fittings connection
DIN 4109	Noise control in Buildings
DIN 4140	Insulation of service installations
DVS 2207	Welding of thermoplastic pipes and fittings
DVS 2208	Welding machines and devises for thermoplastic pipes and fittings
OHSAS 18001	British standard for Health and safely management system
BS 6920	Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of water.

PREFACE

Q-THERM

QUALITY ASSURANCE

PRODUCT RANGE

Quality Control & Assurance:

Quantum Quality Def inition:

As quality is a subjective term for which each person has his own definition, we in Quantum Industries chose to have a definition that can serve as a way of life, stemming from all what we believed that quality should be, acting as the backbone of the quality culture we aspire to cultivate, not only in the products we make, but also in everything we do, as we know that quality is not luxury, it's a matter of existence.

Our definition of quality is dynamic, improving and evolving, it's alive definition, but is always resting on our five quality pillars, the 5C's:

01 | Compliance with international norms and standards.

02 | Customer satisfaction.

03 | Commitment to timely delivery.

04 | Consistency in all what we do.

05 | Cost effectiveness.

Quantum industries quality department ensures that, Q-therm piping systems are produced through a stringent supervision, strict adherence to regulations and proper control of all work related operations. Every carefully observed process and result obtained are recorded and documented.

Q-therm products and its manufacturing processes conform to respective national and international regulations and Q-therm's own Internal Quality System.

Q-therm achieves its desired quality in all its products by using state-of-art machinery, strict process control, regular in-process inspection, adherence to standards and regulations supported with continuous research and development.

Certifications:

DVGW CERT

SK·Z

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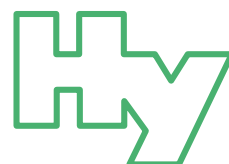
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Pipes, Fittings & Accessories

Q-therm (PP-R Solid Pipe)
SDR : 11 / PN 10
Standard : 8077/8078

Material: PP-R 80
Standard Color: Green
Standard Pipe Length: 4 meters.

Art. No	Size / mm	Packing
171SP1001	20 x 1.9	25
171SP1002	25 x 2.3	25
171SP1003	32 x 2.9	10
171SP1004	40 x 3.7	10
171SP1005	50 x 4.6	5
171SP1006	63 x 5.8	5
171SP1007	75 x 6.8	4
171SP1009	90 x 8.2	3
171SP1010	110 x 10.0	2

Q-therm (PP-R FIBER)
Fiber Composite Pipes
SDR : 6
Standard : 8077/8078

Material: PP-R 80, Glass Fiber
Standard Color: Green
Standard Pipe Length: 4 meters.

Art. No	Size / mm	Packing
171FP2001	20 x 3.4	25
171FP2002	25 x 4.2	25
171FP2003	32 x 5.4	10
171FP2004	40 x 6.7	10
171FP2005	50 x 8.3	5
171FP2006	63 x 10.5	5
171FP2007	75 x 12.5	4
171FP2009	90 x 15.0	3
171FP2010	110 x 18.3	2

Q-therm (PP-R Solid Pipe)
SDR : 7.4 / PN 16
Standard : 8077/8078

Material: PP-R 80
Standard Color : Green
Standard Pipe Length : 4 meters.

Art. No	Size / mm	Packing
171SP1601	20 x 2.8	25
171SP1602	25 x 3.5	25
171SP1603	32 x 4.4	10
171SP1604	40 x 5.5	10
171SP1605	50 x 6.9	5
171SP1606	63 x 8.6	5
171SP1607	75 x 10.3	4
171SP1609	90 x 12.3	3
171SP1610	110 x 15.1	2

Q-therm (PP-R FIBER)
Fiber Composite Pipes
with UV
SDR : 7.4
Standard: 8077/8078

Material : PP-R 80 , Glass Fiber.
Standard Color : Green
Standard Pipe Length : 4 meters.

Art. No	Size / mm	Packing
171FP1601	20 x 2.8	25
171FP1602	25 x 3.5	25
171FP1603	32 x 4.4	10
171FP1604	40 x 5.5	10
171FP1605	50 x 6.9	5
171FP1606	63 x 8.6	5
171FP1607	75 x 10.3	4
171FP1609	90 x 12.3	3
171FP1610	110 x 15.1	2

Q-therm (PP-R Solid Pipe)
SDR : 6 / PN 20
Standard: 8077/8078

Material: PP-R 80
Standard Color: Green
Standard Pipe Length: 4 meters.

Art. No	Size / mm	Packing
171SP2001	20 x 3.4	25
171SP2002	25 x 4.2	25
171SP2003	32 x 5.4	10
171SP2004	40 x 6.7	10
171SP2005	50 x 8.3	5
171SP2006	63 x 10.5	5
171SP2007	75 x 12.5	4
171SP2009	90 x 15.0	3
171SP2010	110 x 18.3	2

Q-therm (Socket) — **Pressure rating:** PN 25

Art. No	Size / mm	Packing
171SO0001	20	10
171SO0002	25	10
171SO0003	32	5
171SO0004	40	5
171SO0005	50	5
171SO0006	63	1
171SO0007	75	1
171SO0009	90	1
171SO0010	110	1

Q-therm (PP-R STABI)
Aluminun Composite Pipes
SDR : 6
Standard : 8077/8078

Material : PP-R 80, Aluminum.
Standard Color : Green
Standard Pipe Length : 4 meters.

Art. No	Size / mm	Packing
171ST2501	20 x 3.4	25
171ST2502	25 x 4.2	25
171ST2503	32 x 5.4	10
171ST2504	40 x 6.7	10
171ST2505	50 x 8.3	5
171ST2506	63 x 10.5	5
171ST2507	75 x 12.5	4
171ST2509	90 x 15.0	3
171ST2510	110 x 18.3	2

Q-therm (End Cap) — **Pressure rating:** PN 25

Art. No	Size / mm	Packing
171EC0001	20	10
171EC0002	25	10
171EC0003	32	5
171EC0004	40	5
171EC0005	50	5
171EC0006	63	1
171EC0007	75	1
171EC0009	90	1
171EC0010	110	1

Fittings & Accessories

Q-therm (Reducing Socket)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171RS0201	25x20	10
171RS0301	32x20	5
171RS0302	32x25	5
171RS0401	40x20	5
171RS0402	40x25	5
171RS0403	40x32	5
171RS0501	50x20	5
171RS0502	50x25	5
171RS0503	50x32	5
171RS0504	50x40	5
171RS0601	63x20	1
171RS0602	63x25	1
171RS0603	63x32	1
171RS0604	63x40	1
171RS0605	63x50	1
171RS0704	75x40	1
171RS0705	75x50	1
171RS0706	75x63	1
171RS0905	90x50	1
171RS0906	90x63	1
171RS0907	90x75	1
171RS1006	110x63	1
171RS1007	110x75	1
171RS1009	110x90	1

Q-therm (Reducing Tee)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171RT0201	25x20x25	10
171RT0301	32x20x32	5
171RT0302	32x25x32	5
171RT0401	40x20x40	5
171RT0402	40x25x40	5
171RT0403	40x32x40	5
171RT0501	50x20x50	5
171RT0502	50x25x50	5
171RT0503	50x32x50	5
171RT0504	50x40x50	1
171RT0601	63x20x63	1
171RT0602	63x25x63	1
171RT0603	63x32x63	1
171RT0604	63x40x63	1
171RT0605	63x50x63	1
171RT0705	75x50x75	1
171RT0706	75x63x75	1
171RT0905	90x50x90	1
171RT0906	90x63x90	1
171RT0907	90x75x90	1
171RT1006	110x63x110	1
171RT1007	110x75x110	1
171RT1009	110x90x110	1

Q-therm (Equal Tee)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171ET0001	20	10
171ET0002	25	10
171ET0003	32	5
171ET0004	40	5
171ET0005	50	5
171ET0006	63	1
171ET0007	75	1
171ET0009	90	1
171ET0010	110	1

Q-therm (Elbow 90°)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171E90001	20	10
171E90002	25	10
171E90003	32	5
171E90004	40	5
171E90005	50	5
171E90006	63	1
171E90007	75	1
171E90009	90	1
171E90010	110	1

Q-therm (Elbow 45°)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171E45001	20	10
171E45002	25	10
171E45003	32	5
171E45004	40	5
171E45005	50	5
171E45006	63	1
171E45007	75	1
171E45009	90	1
171E45010	110	1

Q-therm (Bypass Bend)
Pressure rating: PN 20
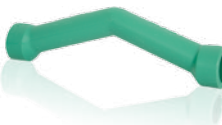
Art. No	Size / mm	Packing
171BB0001	20	10
171BB0002	25	10
171BB0003	32	5

Q-therm (Cross Over)
Pressure rating: PN 20

Art. No	Size / mm	Packing
171CO0001	20	10
171CO0002	25	10
171CO0003	32	5

Q-therm (Pressure Test Plug)
Pressure rating: PN 25

Art. No	Size / mm	Packing
171TP0001	1/2"	100
171TP0002	3/4"	100
171TP0003	1"	100

Fittings & Accessories

Q-therm (Cross) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171CR0001	20	10
171CR0002	25	10
171CR0003	32	5

Q-therm (Plastic Clamp)

Art. No	Size / mm	Packing
171PC0001	20	210
171PC0002	25	210
171PC0003	32	100
171PC0004	40	100

Q-therm (Plastic Union) — Pressure rating: PN 20

Art. No	Size / mm	Packing
171PU0001	20	10
171PU0002	25	10
171PU0003	32	5

Q-therm (Female Elbow 90°) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171FE0101	20x1/2"	10
171FE0102	20x3/4"	10
171FE0201	25x1/2"	10
171FE0202	25x3/4"	10
171FE0302	32x3/4"	5
171FE0303	32x1"	5

Q-therm (Male Elbow 90°) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171ME0101	20x1/2"	10
171ME0102	20x3/4"	10
171ME0201	25x1/2"	10
171ME0202	25x3/4"	10
171ME0302	32x3/4"	5
171ME0303	32x1"	5

Q-therm (Female Tee) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171FT0101	20x1/2"	10
171FT0102	20x3/4"	10
171FT0201	25x1/2"	10
171FT0202	25x3/4"	10
171FT0302	32x3/4"	5
171FT0303	32x1"	5

Q-therm (Male Tee) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171MT0101	20x1/2"	10

Q-therm (Wall Mount) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171WM0101	20x1/2"	10
171WM0201	25x1/2"	10

Q-therm (Female Adaptor) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171FA0101	20x1/2"	10
171FA0102	20x3/4"	10
171FA0201	25x1/2"	10
171FA0202	25x3/4"	10
171FA0302	32x3/4"	5
171FA0303	32x1"	5
171FA0403	40x1"	5
171FA0404	40x1 1/4"	5
171FA0505	50x1 1/2"	1
171FA0606	63x2"	1
171FA0707	75x2 1/2"	1
171FA0908	90x3"	1
171FA1009	110x4"	1

Q-therm (Male Adaptor) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171MA0101	20x1/2"	10
171MA0102	20x3/4"	10
171MA0201	25x1/2"	10
171MA0202	25x3/4"	10
171MA0302	32x3/4"	5
171MA0303	32x1"	5
171MA0403	40x1"	5
171MA0404	40x1 1/4"	5
171MA0505	50x1 1/2"	5
171MA0606	63x2"	5
171MA0707	75x2 1/2"	5
171MA0908	90x3"	1
171MA1009	110x4"	1

Q-therm (Union Female Adaptor) — Pressure rating: PN 25

Art. No	Size / mm	Packing
171HF0101	20x1/2"	10
171HF0202	25x3/4"	10
171HF0303	32x1"	10
171HF0404	40x1 1/4"	5
171HF0505	50x1 1/2'	5
171HF0606	63x2"	5

Fittings & Accessories

Q-therm (Union Male Adaptor)   Pressure rating: PN 25

Art. No	Size / mm	Packing
171HM0101	20x1/2"	10
171HM0202	25x3/4"	10
171HM0303	32x1"	10
171HM0404	40x1 1/4"	5
171HM0505	50x1 1/2"	5
171HM0606	63x2"	5

Q-therm (Valve Body)   Pressure rating: PN 20

Art. No	Size / mm	Packing
171VB0102	20x3/4"	1
171VB0202	25x3/4"	1
171VB0302	32x3/4"	1

Q-therm (Concealed Valve)   Pressure rating: PN 20

Art. No	Size / mm	Packing
171CV0001	20	1
171CV0002	25	1
171CV0003	32	1

Q-therm (Stop Valve)   Pressure rating: PN 20

Art. No	Size / mm	Packing
171SV0001	20	1
171SV0002	25	1
171SV0003	32	1

Q-therm (Ball Valve Hot/Cold)   Pressure rating: PN 25

Art. No	Size / mm	Packing
171BV0001	20	1
171BV0002	25	1
171BV0003	32	1
171BV0004	40	1
171BV0005	50	1
171BV0006	63	1

Q-therm (Concealed Valve Handle)   Pressure rating: PN 20

Art. No	Size / mm	Packing
171CH0002	3/4'	1

Q-therm (Stop Valve Handle)   Pressure rating: PN 20

Art. No	Size / mm	Packing
171SH0002	3/4'	1

Q-therm (PPR Flange with gasket)   Pressure rating: PN 16

Art. No	Size / mm	Packing
171PF0004	40	1
171PF0005	50	1
171PF0006	63	1
171PF0007	75	1
171PF0009	90	1
171PF0010	110	1

Q-therm (Welding Machine-Set)

Art. No	Size / mm	Packing
171WS0304	20 - 63	1
171WS0604	75 - 110	1

Q-therm (Welding Tools)

Art. No	Size / mm	Packing
171WT0001	20 mm	1
171WT0002	25 mm	1
171WT0003	32 mm	1
171WT0004	40 mm	1
171WT0005	50 mm	1
171WT0006	63 mm	1
171WT0007	75 mm	1
171WT0009	90 mm	1
171WT0010	110 mm	1

Q-therm (Automatic Pipe Cutter)

Art. No	Size / mm	Packing
171AC0004	16 - 42	1
171AC0007	75	1

Q-therm (Normal Pipe Cutter)

Art. No	Size / mm	Packing
171NC0006	20 - 63	1
171NC0010	75 - 110	1