



THERMOPLASTIC TUBING AND HOSES



PROFILO AZIENDALE / *COMPANY PROFILE*

Tubi Termoplastici per applicazioni industriali
Thermoplastic tubing and hoses for industrial applications



AUTOMOTIVE



FLUID POWER



FOOD INDUSTRY



GENERAL INDUSTRY



LUBRICATION



MARINE



OIL & GAS



PNEUMATICS



REFRIGERATION



WATER HANDLING



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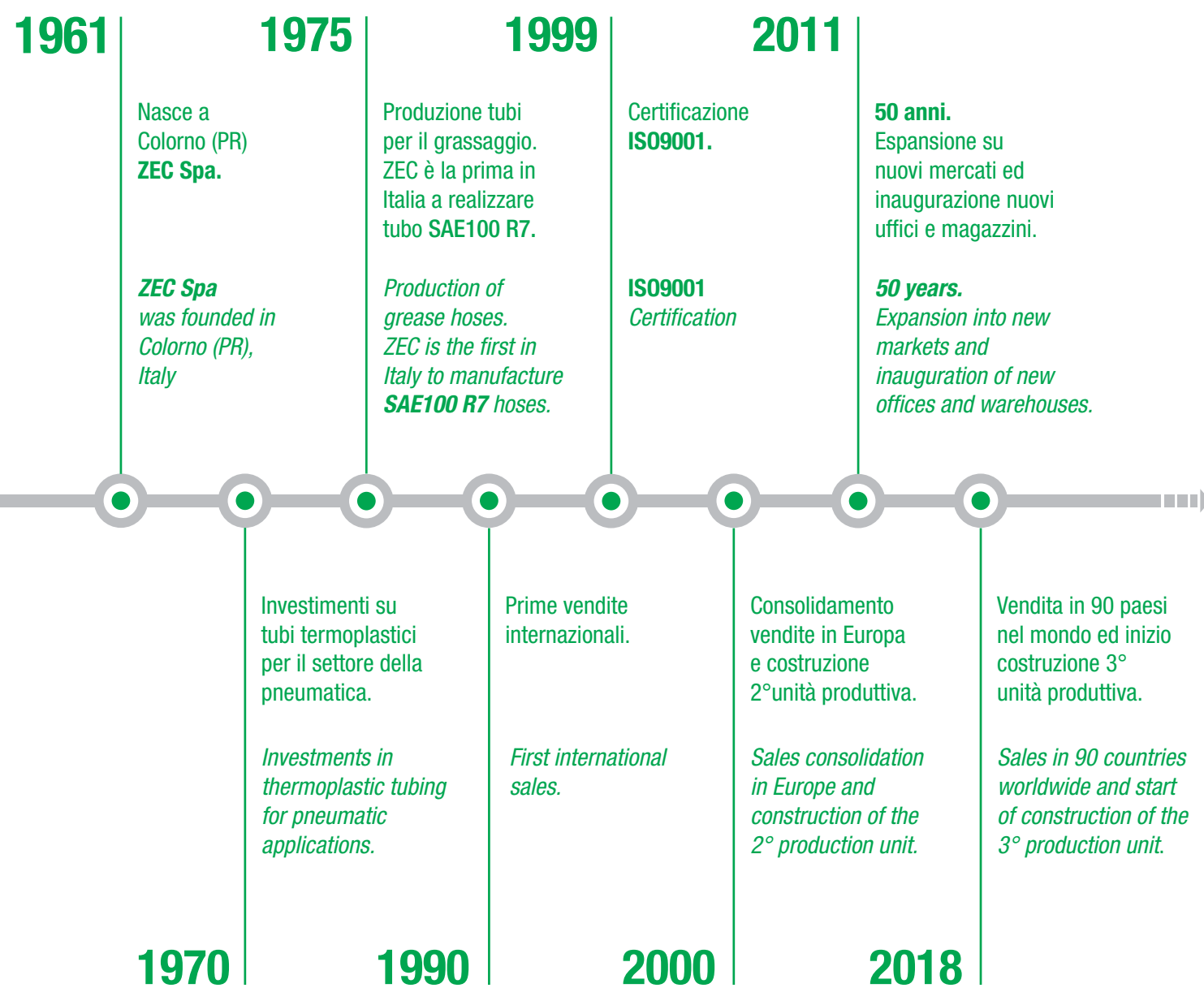
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Storia / History



Chi siamo / About us

Eugenio Zantelli, *President*.
Dino Zantelli, *Managing Director*.



ZEC: esperienza produttiva, qualità e performance

Siamo **operativi dal 1961**, anno in cui **Eugenio Zantelli**, il **fondatore**, ha iniziato le attività a Colorno, in provincia di Parma, Italia.

Già dal 1970 si svolgevano ricerche e studi per la realizzazione di una gamma completa di tubi termoplastici ad alta pressione, nel totale rispetto delle principali normative internazionali di riferimento; **ZEC è stata la prima azienda italiana a produrre tubi SAE J517 100 R7.**

Oggi ZEC S.p.A. è tra le prime aziende a livello mondiale nel settore e dispone di una vastissima gamma di tubi termoplastici per una moltitudine di settori applicativi.

ZEC: productive experience, quality and performance

We are in thermoplastic business **since 1961**, the year in which **Eugenio Zantelli** founded the company in Colorno, in the province of Parma, Italy.

Starting from 1970 research and studies were being undertaken to provide a complete range of high pressure thermoplastic hoses in full compliance with the major international standards; **ZEC was the first italian manufacturer of SAE100 R7 Hoses.**

Today, ZEC S.p.A. is one of the industry leaders on the world's markets and supplies a wide range of thermoplastic tubing and hoses for a multitude of application fields.

Chi siamo / About us

Prodotti Products



Tubi termoplastici alta pressione
High pressure thermoplastic hoses

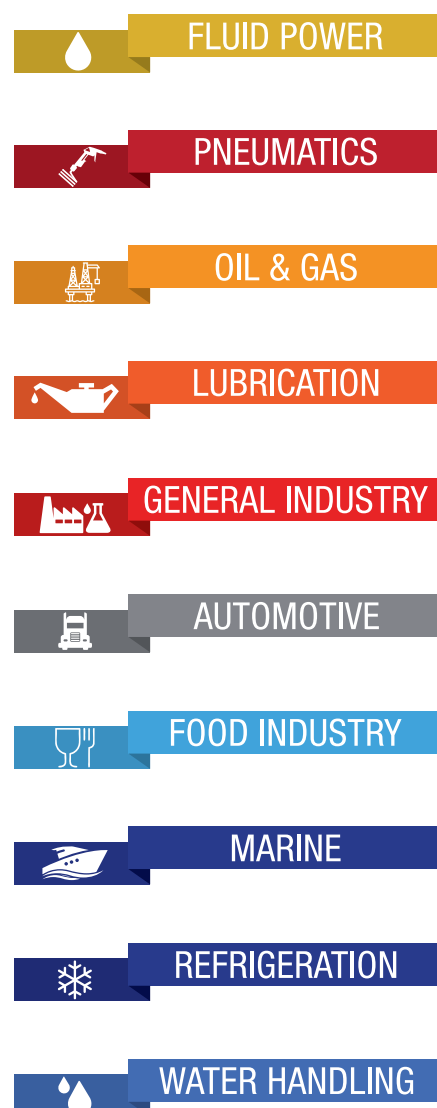


Tubi termoplastici bassa pressione
Low pressure thermoplastic hoses

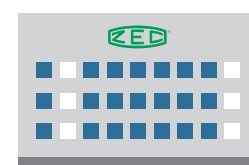


Raccordi e accessori
Fittings and accessories

Settori applicativi Applications



ZEC oggi / ZEC today



110 Dipendenti
Employees

3 Unità operative, tutte situate a Colorno, Italy
Business units, all based in Colorno, Italy

20.000 mq di superficie complessiva, tra produzione e magazzino
between production and stock

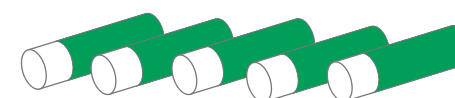
25 Linee di estrusione
Extrusion lines

150 Trecciatrici
Braiding /Spiral machines

oltre / over 80.000 mq di area scoperta per nuovi investimenti
of open area for new investments

3.500 pallets di prodotto finito disponibili a magazzino
pallets of finished product on stock

13.000 spedizioni/anno
shipments/year

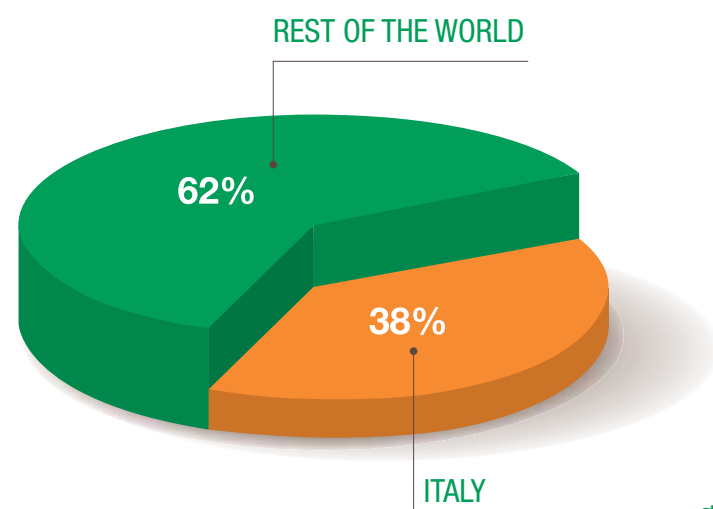


41 Milioni di metri di tubi
Mio meters of tubing and hoses

Questi numeri fanno di ZEC uno dei maggiori produttori europei su uno specifico range di prodotti, movimentando **oltre 3.000 tonnellate di materie prime vergini**.

These numbers make ZEC one of the major EU manufacturers on specific product range, moving **over 3.000 tons of virgin raw material**.

Fatturato / Turnover



Nel corso degli ultimi 5 anni si è consolidata la presenza dell'azienda nel mercato mondiale.

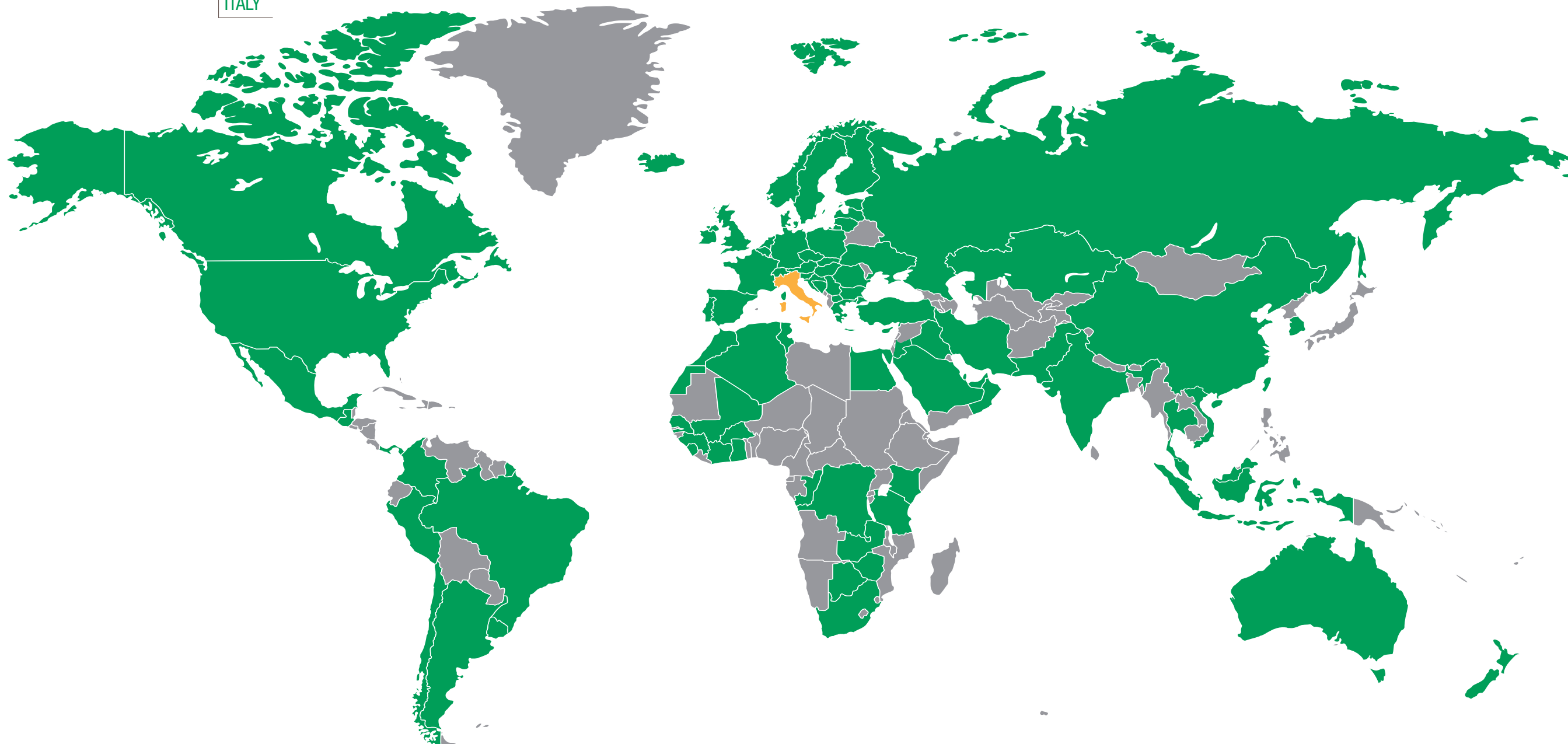
Oggi ZEC può contare su una forza vendite **attiva in oltre 90 paesi**, attraverso:

- 9 Rappresentati commerciali locali
- oltre 50 distributori ufficiali nel mondo
- Accordi con gruppi multinazionali
- Supporto logistico in Uruguay

During last 5 years there has been a worldwide market presence consolidation.

Today ZEC can count on sales in over 90 countries, throw:

- *9 Local Sales Representatives*
- *Over 50 official distributors around the world*
- *Multinational group agreements*
- *Logistic support in Uruguay*



Mission

**“ZEC: la tenuta
a tutte le pressioni”**

**“Un modello di impresa adeguato
alle nuove tendenze di mercato”**

Vogliamo essere partner solidi ed affidabili per i nostri clienti, offrendo loro le soluzioni adeguate per rispondere ad applicazioni sempre più esigenti.

Obiettivo di ZEC è fornire un prodotto tecnicamente evoluto, di qualità impeccabile e costante nel tempo, garantendo un supporto tecnico e commerciale sempre più orientato e vicino al mercato.

**“A business model tailored to the
new market trends”**

We want to be a solid and reliable partner for our customers, offering them the right solutions to respond to increasingly demanding applications.

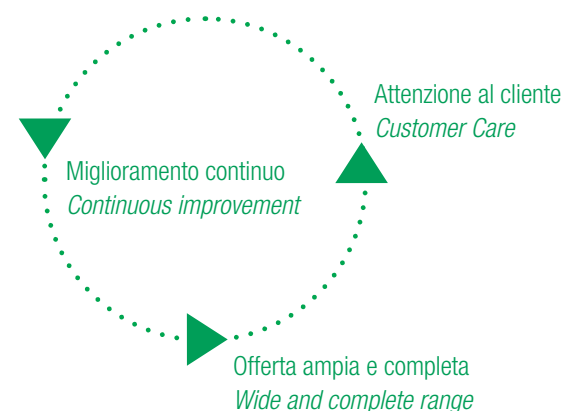
ZEC purpose is to provide a technically advanced product, of impeccable and constant quality over the time, guaranteeing a technical and commercial support that is increasingly oriented and close to the market.

**“ZEC: tightness
at all pressures”**



Valori e Strategia / Values and Strategy

“Qualità, ricerca e attenzione al cliente sono i nostri valori”



La nostra strategia di impresa in tre concetti chiave:

Miglioramento continuo

Investiamo da sempre in qualità e ricerca per migliorare i nostri prodotti e i processi produttivi.

Attenzione al cliente

Il nostro obiettivo è interpretare in modo sempre più efficace le necessità dei clienti e le esigenze del mercato per ogni specifica applicazione.

Offerta ampia e completa

ZEC ha sviluppato una gamma completa di prodotti, testati e garantiti nel tempo grazie a controlli qualitativi accurati. Il valore aggiunto è la piena integrazione dei processi: tutte le fasi produttive vengono gestite internamente, dalla selezione delle materie prime al prodotto finito.

Our business strategy in three key concepts:

Continuous improvement

We have always invested in quality and research to improve our products and production processes.

Customer Care

Our goal is to increasingly know customer and market needs for each specific application.

Wide and complete offer

ZEC has developed a complete range of products, tested and guaranteed over time thanks to accurate quality controls. The added value is the full integration of the processes: all the production phases are managed internally, from the selection of raw materials to the finished product.

“Quality, Research and Customer Care are our values”

Qualità / Quality

Grazie a rigorosi controlli qualitativi possiamo garantire notevoli vantaggi tecnici: pesi, ingombri e raggi di curvatura limitati, resistenza alle sollecitazioni, superfici interne speculari e resistenza all'invecchiamento.

Thanks to strict controls we can guarantee considerable technical advantages: reduced weight, size and bend radius, resistance to fatigue stress, specular internal surfaces, anti-ageing qualities.

“La qualità per noi è uno standard che ci differenzia”

Una delle caratteristiche principali di ZEC S.p.A. è la costante attenzione rivolta all'ottenimento di standard qualitativi sempre più elevati, sia tramite l'adozione di moderne tecnologie produttive, sia attraverso un'attenta selezione dei fornitori delle materie prime, leader di fama internazionale, selezionati tra i migliori del mondo.

Le materie prime che entrano nei reparti produttivi sono verificate e testate con l'utilizzo di sofisticati ed avanzati strumenti di controllo, seguendo severe procedure del sistema qualità aziendale, certificato in base alla normativa **UNI EN ISO 9001**.

Tutti i prodotti a catalogo, oltre **1500 articoli**, sono conformi alle normative internazionali dei rispettivi settori di applicazione: **SAE, EN, DIN, ISO** e alle direttive europee **REACH (2006/1907/EC)** e **RoHS 2 (2011/65/EU)**.

“Quality is a standard that makes us different”

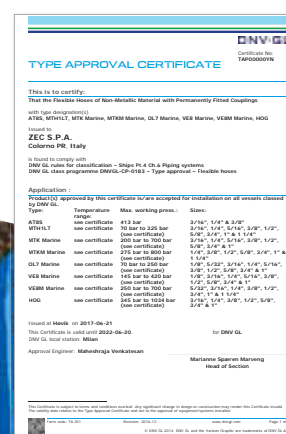
One of ZEC S.p.A.'s major features is its constant attention in satisfying ever-higher quality standards, both through the adoption of modern production technologies and through the careful selection of raw materials suppliers, who are internationally renowned leading companies, selected among the best in the world.

The raw materials entering our production departments are inspected and tested by means of sophisticated and advanced control methods, complying with strict company quality system procedures, certified in accordance with **UNI EN ISO 9001**.

All the products in our catalogue, over 1500 articles, are compliant with the international standards applicable to the respective industries in which they are used: **SAE, EN, DIN, ISO, REACH Regulation (2006/1907/EC)** and **RoHS 2 (2011/65/EU)** European Directive.



Certificazioni / Certifications



ZEC: prodotti certificati

ZEC S.p.A. ha investito molto nell'acquisizione delle certificazioni perché consapevole che anche se dichiarata, la qualità dei prodotti deve essere confermata da Enti terzi accreditati.

La certificazione **ISO9001:2008** è una garanzia per i clienti ZEC S.p.A. in quanto assevera delle caratteristiche aziendali ben precise:

- che l'efficienza e l'efficacia dei sistemi produttivi interni è qualitativamente conforme e documentata
- che i processi produttivi sono organizzati per ridurre i costi aziendali a tutto vantaggio del prezzo dei prodotti
- che i processi produttivi sono rispettosi della sicurezza e della salute dei lavoratori

ZEC: certified products

At ZEC S.p.A. we have invested much into certification processes because we are aware that, even if declared, the quality of our products must be confirmed by third party accreditation bodies.

The **ISO9001:2008** certification is a guarantee for ZEC S.p.A.'s customers, owing to the fact that it asseverates very specific business characteristics:

- that the efficiency and effectiveness of its in-house production systems are qualitatively compliant and documented
- that the production processes are structured to keep down company costs, which benefits the final cost of the product
- that the production processes are respectful of the health and safety of the workforce.





FLUID POWER



PNEUMATICS



OIL & GAS



LUBRICATION



AUTOMOTIVE



GENERAL INDUSTRY



FOOD INDUSTRY



MARINE



REFRIGERATION



WATER HANDLING



FLUID POWER

- Agricultural Machinery
- Bicycle hydraulic brakes
- Construction machinery
- Cranes / booms / forklifts
- High pressure tools
- Machine tools
- Tests / couplings
- Non-conductive systems
- Rescue tools
- Servo controls
- Solar power generation
- Tail lifts/ hydraulic lifts
- Wind turbines

MTH1 MARINE SERIES



WORKING PRESSURE
FROM 70 TO 325 BAR

OL7 MARINE SERIES



WORKING PRESSURE
FROM 70 TO 250 BAR

MTKH SERIES



WORKING PRESSURE
FROM 200 TO 700 BAR

OL7MP SERIES



WORKING PRESSURE
FROM 210 TO 250 BAR

OL7GSR SERIES



ISOBARIC SERIES
CONSTANT PRESSURE
AT 210 BAR

NON-CONDUCTIVE OL7 SERIES



WORKING PRESSURE
FROM 70 TO 250 BAR

NON-CONDUCTIVE OL8 SERIES



WORKING PRESSURE
FROM 145 TO 420 BAR

NON-CONDUCTIVE OL8M SERIES



WORKING PRESSURE
FROM 250 TO 700 BAR

MTH1FLST SERIES



WORKING PRESSURE
FROM 160 TO 250 BAR

OL5 SERIES



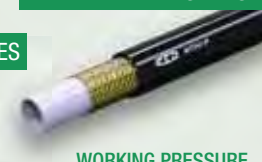
WORKING PRESSURE
FROM 80 TO 210 BAR

PILOT SERIES



CONSTANT PRESSURE
AT 120 BAR

MTH1P SERIES



WORKING PRESSURE
FROM 140 TO 325 BAR

TS8 SERIES



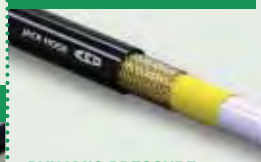
WORKING PRESSURE
FROM 560 TO 630 BAR

JACK HOSE SERIES



STATIC PRESSURE
700 BAR FOR ALL
DIAMETERS

JACK HOSE SERIES



DYNAMIC PRESSURE
UP TO 700 BAR



AUTOMOTIVE

- Trailer braking systems
- CNG
- Fuel handling
- LPG systems
- Trailer connectors
- Truck drawbars

SAE J844 TYPE A STANDARD
BURST PRESSURE
FROM 55 TO 97 BAR

SAE J844 TYPE B STANDARDS
BURST PRESSURE
FROM 62 TO 97 BAR

HTR AB TUBES



ISO 7628 STANDARD
WORKING PRESSURE
AT 10 AND 12,5 BAR

RILSAN® PA11 - PHL



LOW PRESSURE
POLYAMIDE TUBING
DIN 74324-73378 STANDARDS
WORKING PRESSURE
FROM 7 TO 68 BAR

PA12 - HIPHL TUBING



LOW TEMPERATURE
WORKING PRESSURE
FROM 10 TO 49 BAR

AIR BRAKE TUBING



GAS5 - 110 R SERIES



CONSTANT WORKING
PRESSURE AT 30 BAR

CNG SERIES



CONSTANT
WORKING PRESSURE
AT 345 BAR

PA11 - PHLY



LOW PRESSURE
POLYAMIDE TUBING
DIN 74324-73378 STANDARDS
WORKING PRESSURE
FROM 21 TO 68 BAR

PA12 PHL SPIRALS



FOR TRUCKS DRAWBAR
DIN 74323 STANDARD

AIR BRAKE - SCAR NPT SPIRALS



FOR TRAILER BRAKING SYSTEM
DIN 74323
MIN. BURST PRESSURE 60 BAR

SCAR PA12 PHL SPIRALS



WORKING PRESSURE
FROM 16 TO 28 BAR



WATER HANDLING

- High pressure cleaning
- Misting systems
- Potable water
- High pressure cleaning machines
- Sewer Jetting – road network
- Sewer Jetting – minor networks
- Steam

PTFE TUBE SERIES



WORKING PRESSURE
FROM 3 TO 56 BAR

JET POWER SERIES



WORKING PRESSURE
FROM 800 TO 1280 BAR

MT1 SERIES



WORKING PRESSURE
FROM 70 TO 375 BAR - SAFETY RATIO 1:4
FROM 94 TO 500 BAR - SAFETY RATIO 1:3

JC7 PRO SERIES



TOP-CLASS FLEXIBILITY
WORKING PRESSURE FROM
200 BAR/3.000 PSI
TO 275 BAR/4.000 PSI

JC8 PRO SERIES



TOP-CLASS FLEXIBILITY
WORKING PRESSURE
FROM 250 BAR/3.600 PSI
TO 345 BAR/5.000 PSI

JC8 SERIES



WORKING PRESSURE
FROM 250 BAR/3.600 PSI
TO 345 BAR/5.000 PSI

JC7 SERIES



WORKING PRESSURE
FROM 200 BAR/3.000 PSI
TO 275 BAR/4.000 PSI

JET WASH SERIES



ISOBARIC SERIES
CONSTANT WORKING PRESSURE
AT 97 BAR / 1.400 PSI

JETTER HOSE JCL SERIES



ISOBARIC SERIES
CONSTANT WORKING
PRESSURE
345 BAR/5.000 PSI

JC5 SERIES



CONSTANT WORKING
PRESSURE
AT 175 BAR/2.500 PSI



PNEUMATICS

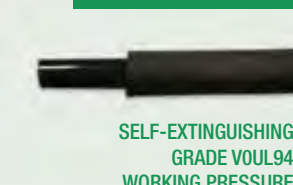
- Industrial automation
- Compressors
- Trailer connectors
- Truck drawbars
- Self-extinguishing and spark-proof
- ATEX systems
- Trailer braking system

PA12 - HIPHL TUBING



LOW TEMPERATURE
WORKING PRESSURE
FROM 10 TO 49 BAR

PA12 RIV V0 SERIES



SELF-EXTINGUISHING
GRADE V0UL94
WORKING PRESSURE
FROM 12 TO 44 BAR

RILSAN® PA11 - PHL



DIN 74324 AND 73378
STANDARDS
WORKING PRESSURE
FROM 7 TO 68 BAR

PA12 SUPERFLEXIBLE



WORKING PRESSURE
FROM 9 TO 27 BAR

MULTI-TUBING PA12-PHL



WORKING PRESSURE
FROM 10 TO 44 BAR

ATEX PA12 - TACO SERIES



WORKING PRESSURE
FROM 15 TO 51 BAR

PU SH98 TUBING



WORKING PRESSURE
FROM 4 TO 19 BAR

PUAS SERIES



WORKING PRESSURE
FROM 7 TO 13 BAR

TA...V2 SERIES



SELF-EXTINGUISHING UL94
STANDARD V2 GRADE
WORKING PRESSURE
FROM 11 TO 44 BAR

PU TWIN TUBING



WORKING PRESSURE
FROM 9 TO 19 BAR

PUX SERIES



WORKING PRESSURE
FROM 7 TO 19 BAR

SCAR PA12 PHL SPIRAL



WORKING PRESSURE
FROM 16 TO 28 BAR



GENERAL INDUSTRY

- Natural Gas Handling
- LPG Filling Stations
- Detergent Solutions
- Fuels
- Various gases
- Standard paint
- Antistatic paint
- Polyurethane injection
- High temperature – up to 130°C
- High temperature – up to 260°C
- Self-extinguishing and spark-proof
- Solvents

CONDUCTIVE GAS5 SERIES



LPG CONSTANT
WORKING PRESSURE
AT 30 BAR

MT1-PA SERIES



WORKING PRESSURE FROM
70 TO 375 BAR - SAFETY RATIO 1:4
94 TO 500 BAR - SAFETY RATIO 1:3

MT1E SERIES



WORKING PRESSURE FROM
190 TO 350 BAR - SAFETY RATIO 1:4
254 TO 467 BAR - SAFETY RATIO 1:3

MT1HT-PTFE SERIES



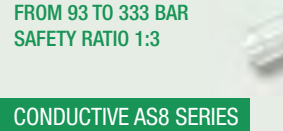
WORKING PRESSURE
FROM 280 TO 1.500 BAR

CONDUCTIVE AS7 SERIES



WORKING PRESSURE
FROM 70 TO 250 BAR
SAFETY RATIO 1:4

CONDUCTIVE AS8 SERIES



WORKING PRESSURE
FROM 245 TO 350 BAR
SAFETY RATIO 1:4

CNG SERIES



WORKING PRESSURE
FROM 327 TO 467 BAR
SAFETY RATIO 1:3

MTK MARINE SERIES



CONSTANT
WORKING PRESSURE
AT 345 BAR

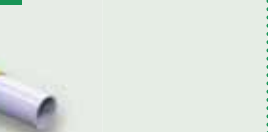
SAE 100R7, ISO 3949
STANDARDS
PATENT NO. IT-1328746

PTFE I2T SERIES



WORKING PRESSURE
FROM 150 TO 365 BAR

VE5P-PA SERIES



CONSTANT
WORKING PRESSURE
AT 85 BAR - SAFETY RATIO 1:4

CONSTANT
WORKING PRESSURE
AT 115 BAR - SAFETY RATIO 1:3

CONDUCTIVE MT2 SERIES



WORKING PRESSURE
FROM 165 TO 400 BAR
SAFETY RATIO 1:4

WORKING PRESSURE
FROM 220 TO 534 BAR
SAFETY RATIO 1:3



LUBRICATION

- Greasing
- Oil lubrication
- Lubro-refrigeration

GR7 SERIES



WORKING PRESSURE
FROM 150 TO 400 BAR

OL5 MARINE SERIES



WORKING PRESSURE
FROM 80 TO 210 BAR

PA12 HL SERIES



WORKING PRESSURE
FROM 25 TO 93 BAR



MARINE

- Air - O2 - Nitrox
- Fire extinguishing systems (CO2)
- Breathing air
- Underdeck hydraulic circuits

CO2 SERIES



WORKING PRESSURE
FROM 105 TO 210 BAR

MARINE STEERING OL5P SERIES



WORKING PRESSURE
FROM 70 TO 104 BAR

- Pressure gauges
- Steering hydraulics
- Underdeck hydraulic systems



OIL&GAS

- Blow out preventer (bop) systems
- Gas handling
- Breathing air
- High pressure hydraulics
- Umbilical systems
- Water and chemicals injection
- High pressure cleaning

AT7 MARINE SERIES



WORKING PRESSURE
FROM 70 TO 250 BAR

AT8S SERIES



BREATHING AIR
CONSTANT WORKING PRESSURE
AT 413 BAR / 6.000 PSI

CNG SERIES



CONSTANT
WORKING PRESSURE
345 BAR

PTFE TUBES IC SERIES



WORKING PRESSURE
FROM 36 TO 120 BAR

MTKM MARINE SERIES



WORKING PRESSURE
FROM 275 TO 800 BAR

JCL SERIES



WORKING PRESSURE
FROM 275 TO 345 BAR

VE8M MARINE SERIES



WORKING PRESSURE
FROM 250 TO 700 BAR

HOG SERIES



WORKING PRESSURE
FROM 345 BAR / 5.000 PSI
TO 1034 BAR / 15.000 PSI

PTFEIG SERIES



WORKING PRESSURE
FROM 65 TO 275 BAR

JET POWER SERIES



WORKING PRESSURE
FROM 800 TO 1280 BAR

JC8 SERIES



WORKING PRESSURE
FROM 250 BAR/3.600 PSI
TO 345 BAR/5.000 PSI



FOOD INDUSTRY

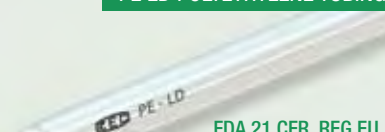
- CO2 Injection
- Low pressure food hoses
- High pressure food hoses
- High temperatures

HTR-FG TUBING



WORKING PRESSURE
FROM 10 TO 36 BAR

PE LD POLYETHYLENE TUBING



FDA 21 CFR, REG EU
1395/2004, REG EU 10/2001
WORKING PRESSURE
FROM 4 TO 21 BAR

AT7- PE SERIES



WORKING PRESSURE
FROM 90 TO 200 BAR



REFRIGERATION

- Commercial - industrial
- Compressor recharging

TLP SERIES



WORKING
PRESSURE AT 60 BAR

TLP SERIES



WORKING
PRESSURE AT 60 BAR

FR5 SERIES CAPILLARY HOSES



WORKING PRESSURE
UP TO 120 BAR

TLP SERIES

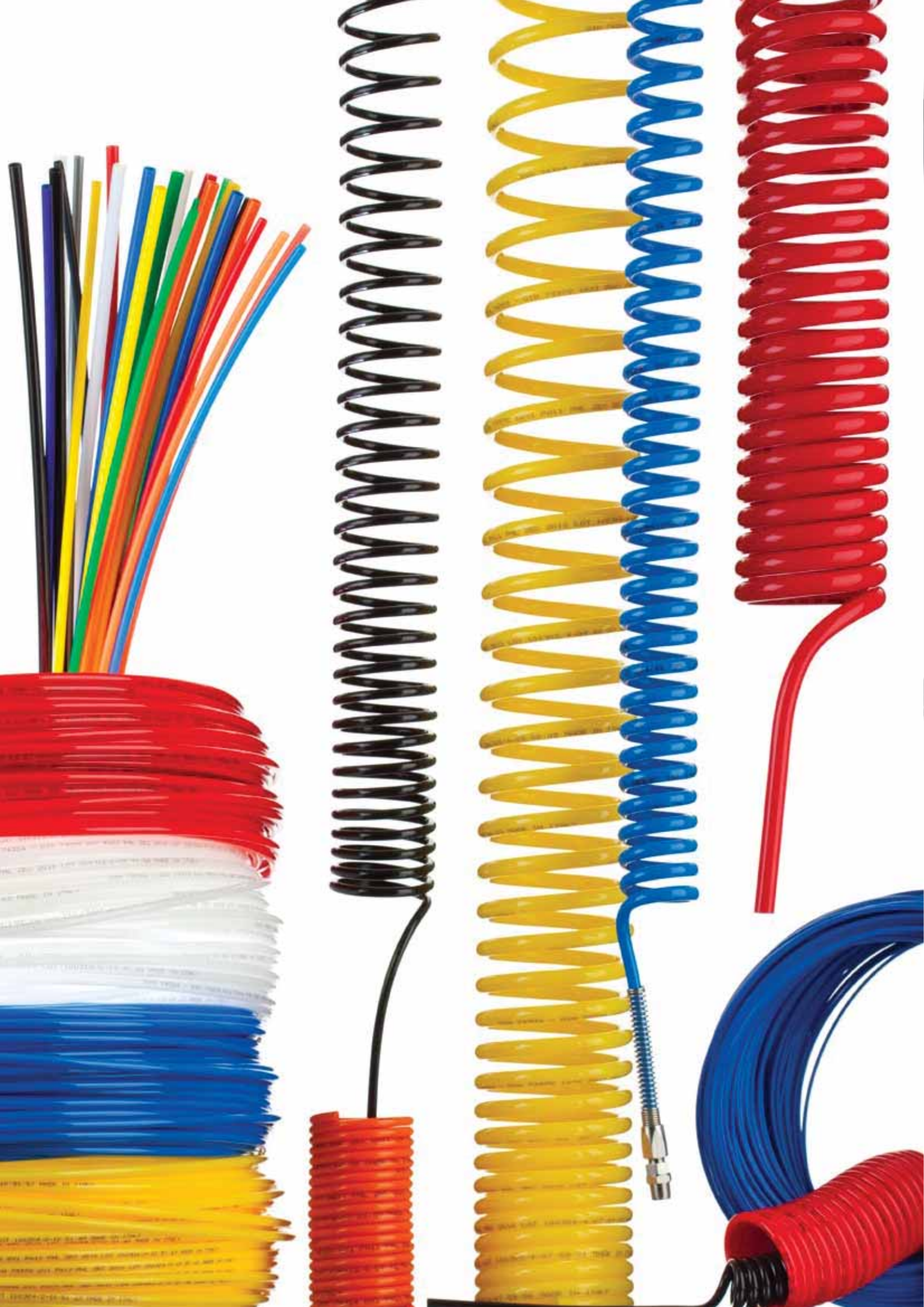


WORKING
PRESSURE AT 60 BAR

FREON FR5 SERIES



WORKING PRESSURE
FROM 45 TO 60 BAR





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THERMOPLASTIC TUBING AND HOSES

