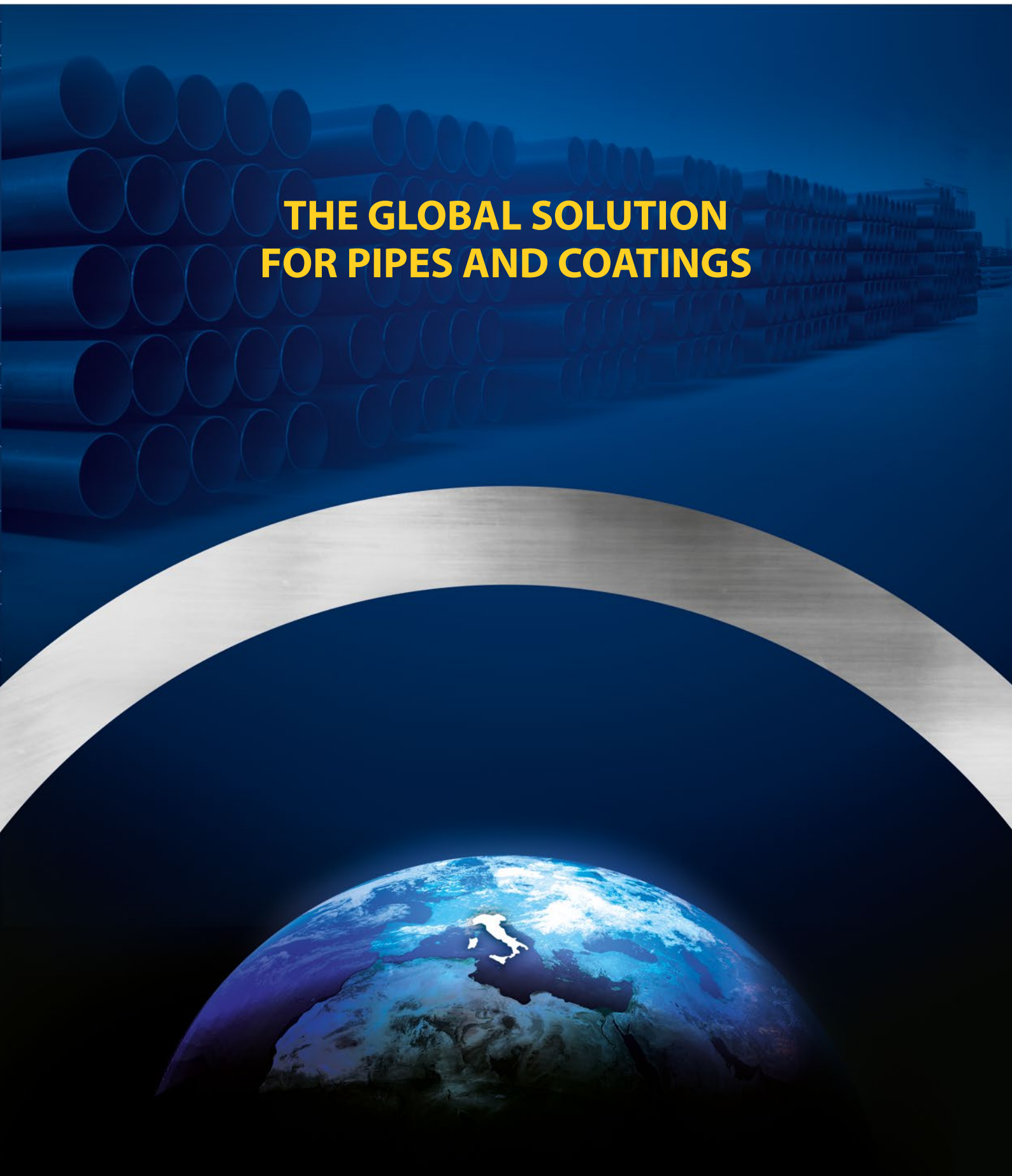




**THE GLOBAL SOLUTION  
FOR PIPES AND COATINGS**





La RIVECO GENERALSIDER S.P.A presente sul mercato nazionale ed internazionale delle condotte in acciaio al carbonio da più di 55 anni è divenuta un gruppo industriale di riferimento nel settore energetico ed infrastrutturale, fortemente specializzato nella fornitura di tubazioni grezze e rivestite, con una riconosciuta competenza tecnica e una spiccata vocazione alla Qualità. In particolare nel settore off-shore, RGS è tra le società europee leader nell'appesantimento cementizio per condotte sottomarine. L'attenta osservazione delle evoluzioni del mercato, la costante ricerca della piena soddisfazione del Cliente, l'ampia e completa gamma di prodotti offerti, sono i punti di forza che ci permettono di emergere nel settore come partner flessibili ed affidabili per i nostri Clienti.

RIVECO GENERALSIDER S.p.A. has over 55 years of experience making steel pipes. It is expression, and natural evolution as well, of the expertise gathered by the two former companies operating in the steel pipes & anti-corrosion coating field: General Sider Italiana S.p.A and Riveco Rivestimenti Condotte S.p.A. The Group, over almost half a century, has become a leading Italian industrial group specialized in the supply of products and services to the companies of the energy and infrastructure industries, with an extensive know-how in the field of the offshore pipelines being one of the main companies in Europe to perform the concrete overweighting. The understanding of our customer's needs, applications and markets and the comprehensive production range have proven our strength, that enables our customers to trust our Group as their resource for new steel pipeline.

## TUBI IN ACCIAIO / CARBON STEEL PIPES

Tubi in acciaio al carbonio saldati longitudinalmente HFW per il trasporto e la distribuzione del gas, petrolio, idrogeno, ossigeno, azoto, acqua, impieghi a pressione, strutturali, on-shore e off-shore, in alta Qualità, secondo le principali norme nazionali e internazionali.

Longitudinally HFW carbon steel pipes for the distribution and transport of gas, oil, hydrogen, oxygen, nitrogen, water, pressure applications, structural, on-shore and off-shore, in high Quality, according to the main national and international standards.

**Diametro (mm)**  
**Diameter (mm)**

**Spessore Minimo (mm)**  
**Minimum Thickness (mm)**

**Spessore Massimo per Grado (mm)**  
**Max Thickness per Grade (mm)**

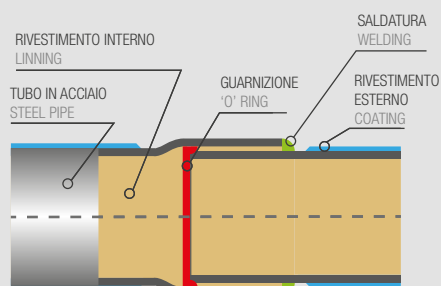
ISO 3183 - API spec 5L - EN 10208-2 - EN 10208-1 - EN 10217 - EN 10219 - EN 10224

| De (mm)<br>O.D. (mm) | POLLICI<br>NPS (Inch) | DN<br>OD | QUALITÀ ACCIAIO<br>EVERY STEEL GRADE | L235 | L245/Gr.B | L290/X42 | L360/X52 | L415/X60 | L450/X65 | L485/X70 |
|----------------------|-----------------------|----------|--------------------------------------|------|-----------|----------|----------|----------|----------|----------|
| 88,9                 | 3"                    | 80       | 2,6                                  | 6,4  | 6,4       | 6,0      | 5,4      | 5,0      | 4,8      | 4,4      |
| 114,3                | 4"                    | 100      | 2,6                                  | 7,3  | 7,2       | 7,1      | 6,4      | 6,0      | 5,5      | 4,8      |
| 139,7                | 5"                    | 125      | 2,9                                  | 7,9  | 7,9       | 7,3      | 7,0      | 6,4      | 5,8      | 5,3      |
| 168,3                | 6"                    | 150      | 3,2                                  | 8,4  | 8,4       | 8,2      | 7,5      | 6,6      | 6,4      | 5,8      |
| 219,1                | 8"                    | 200      | 3,6                                  | 8,7  | 8,7       | 8,4      | 8,2      | 7,5      | 7,1      | 6,4      |
| 273,0                | 10"                   | 250      | 4,0                                  | 9,5  | 9,5       | 9,5      | 9,3      | 8,4      | 7,9      | 7,1      |
| 323,9                | 12"                   | 300      | 4,0                                  | 10,3 | 10,3      | 10,3     | 10,3     | 9,5      | 8,7      | 7,9      |

## DETTAGLI DEI GIUNTI / PIPE JOINT DETAILS

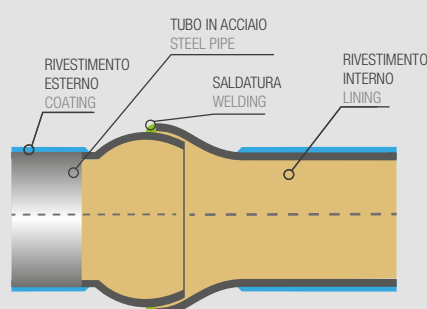
Bicchieri cilindrico (Slip Joint) , bicchiere sferico, giunti salva rivestimenti interni a Camera d'aria esterna (Poseidon) o interna o E-JOINT per tubi di acciaio per la distribuzione dell'acqua. Estremità grovate per giunti Victaulic.

Cylindrical (slip joint) and spherical joint, joints which save internal linings air chamber welded externally (Poseidon) or internally or E-joint for steel linepipes for water distribution. Grooved ends for Victaulic couplings.

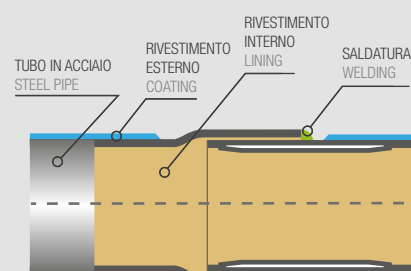


O'RING viene applicato solo nel caso di rivestimento interno in cemento  
O'RING is applied only in the case of internal cement lining

**BICCHIERE CILINDRICO**  
**SLIP JOINT**

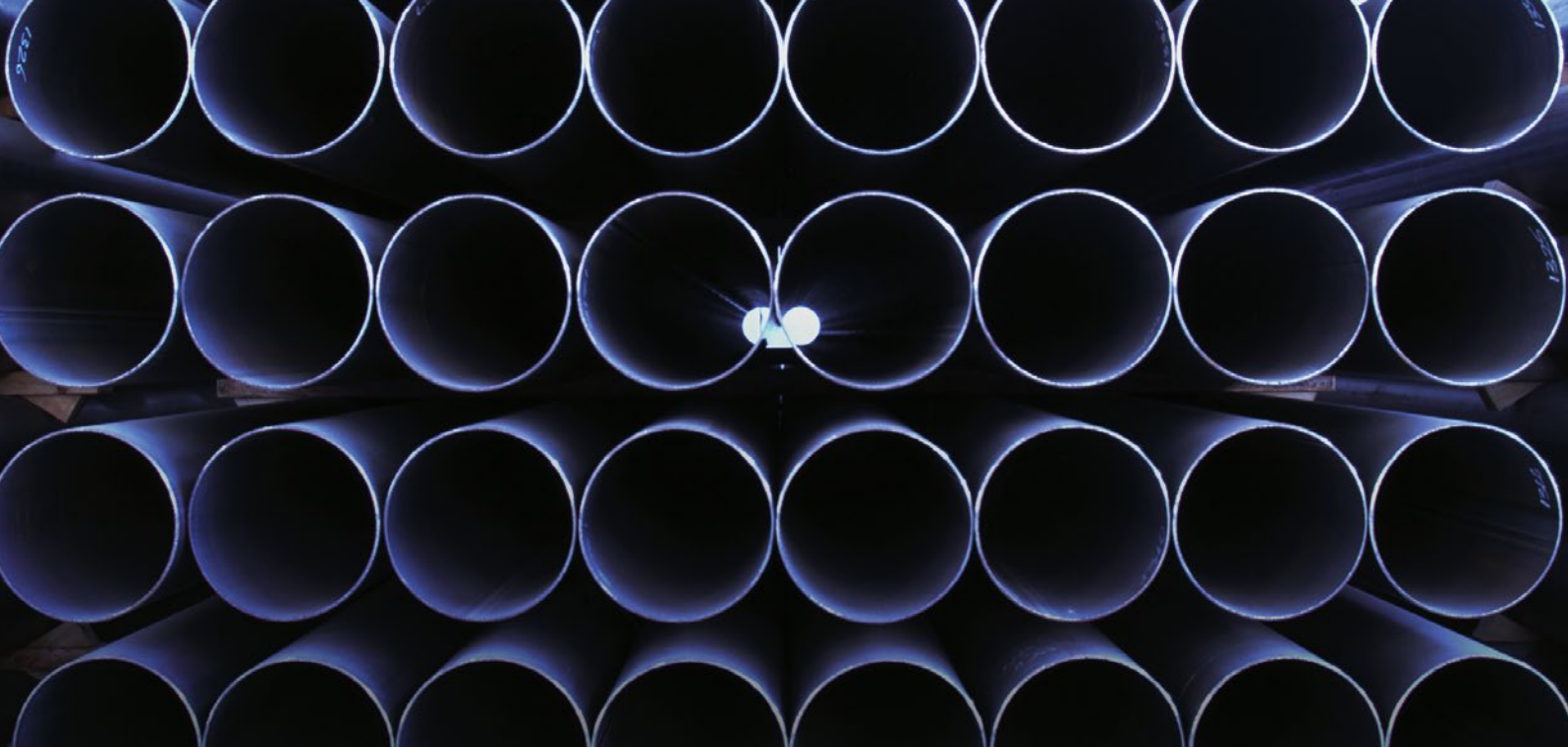


**BICCHIERE SFERICO**  
**SPHERICAL ENDS**



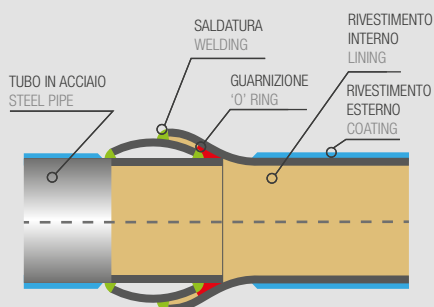
**E-JOINT**  
**E-JOINT**



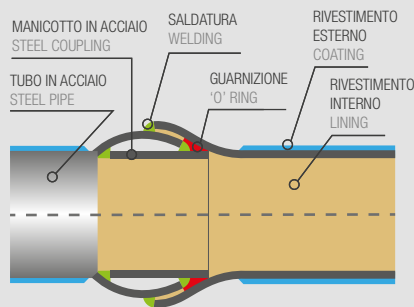


N° 5L-0131

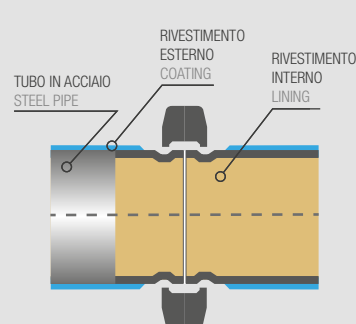
| Massa<br>Mass<br>(kg/m) |       | Spessore (mm)<br>Wall Thickness (mm) |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|-------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         |       | 2,6                                  | 2,9  | 3,2   | 3,6   | 4,0   | 4,5   | 4,8   | 5,0   | 5,2   | 5,6   | 6,3   | 6,4   | 7,1   | 7,3   | 7,9   | 8,2   | 8,4   | 8,7   | 9,5   | 10,0  | 10,3  |       |
| De (mm) / O.D. (mm)     | 88,9  | 5,53                                 | 6,15 | 6,76  | 7,57  | 8,38  | 9,37  | 9,96  | 10,35 | 10,73 | 11,50 | 12,83 | 13,02 |       |       |       |       |       |       |       |       |       |       |
|                         | 114,3 | 7,16                                 | 7,97 | 8,77  | 9,83  | 10,88 | 12,19 | 12,96 | 13,48 | 13,99 | 15,01 | 16,78 | 17,03 |       |       |       |       |       |       |       |       |       |       |
|                         | 139,7 |                                      | 9,78 | 10,77 | 12,08 | 13,39 | 15,00 | 15,97 | 16,61 | 17,25 | 18,52 | 20,73 | 21,04 | 23,22 | 23,84 | 25,68 |       |       |       |       |       |       |       |
|                         | 168,3 |                                      |      | 13,03 | 14,62 | 16,21 | 18,18 | 19,35 | 20,14 | 20,92 | 22,47 | 25,17 | 25,55 | 28,23 | 28,98 | 31,25 | 32,38 | 33,12 | 34,24 |       |       |       |       |
|                         | 219,1 |                                      |      |       | 19,13 | 21,22 | 23,82 | 25,37 | 26,40 | 27,43 | 29,49 | 33,06 | 33,57 | 37,12 | 38,13 | 41,15 | 42,65 | 43,65 | 45,14 |       |       |       |       |
|                         | 273,0 |                                      |      |       |       | 26,54 | 29,80 | 31,75 | 33,05 | 34,34 | 36,93 | 41,44 | 42,08 | 46,56 | 47,83 | 51,65 | 53,55 | 54,81 | 56,71 | 61,73 | 64,86 |       |       |
|                         | 323,9 |                                      |      |       |       |       | 31,56 | 35,45 | 37,77 | 39,32 | 40,87 | 43,96 | 49,34 | 50,11 | 55,47 | 57,00 | 61,56 | 63,84 | 65,36 | 67,63 | 73,66 | 77,41 | 79,66 |



BICCHIERE A CAMERA D'ARIA ESTERNA (POSEIDON)  
AIR CHAMBER JOINT WELDED EXTERNALLY (POSEIDON)



BICCHIERE A CAMERA D'ARIA INTERNA  
AIR CHAMBER JOINT WELDED INTERNALLY



ESTREMITÀ GROVATE PER IL GIUNTO VICTAULIC  
GROOVED ENDS FOR VICTAULIC COUPLING

# RIVESTIMENTI ESTERNI ED INTERNI / EXTERNAL COATINGS AND INTERNAL LININGS

## Rivestimenti Esterni

Rivestimenti esterni anticorrosivi applicati su tubi in acciaio al carbonio o inox dal Ø ½" (21,3 mm) al 70" (1778,0 mm), per gasdotti, oleodotti, acquedotti, on-shore e off-shore, in polietilene, polipropilene, FBE, bitume, isolamento termico, protezione meccanica antiroccia ed antiroccia-PLUS, gunite (appesantimento cementizio) e applicazione di anodi sacrificali per condotte sottomarine, in accordo alle più importanti norme nazionali ed internazionali.

## External Coating

Anti-corrosion protective coatings of steel and stainless linepipes ranging from Ø ½" (21,3 mm) up to Ø 70" (1778,0 mm), suitable for onshore and offshore installations, gas and water pipelines: Polyethylene, Polypropylene, FBE, bitumen, thermal insulation, rock-shield protection and rock-shield PLUS, concrete overweighting (CWC) and sacrificial anodes application for sea-line, according to the most important national and international standards.

|                    | <b>Tipo di Rivestimento</b><br><b>Type of Coating</b>            | <b>Diametro (mm)</b><br><b>Diameter (mm)</b><br>min÷max | <b>Spessore Rivestimento</b><br><b>Coating Thickness</b><br>min÷max | <b>Lunghezza (m)</b><br><b>Length (m)</b><br>min÷mx | <b>Norme di riferimento</b><br><b>Reference standard</b>                              |
|--------------------|------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------|
| ESTERNO / EXTERNAL | POLIETILENE (PE)<br>POLYETHYLENE (PE)                            | 1/2"-70"                                                | 1,8÷10mm                                                            | 6÷18                                                | EN ISO 21809-1 / DIN 30670 / UNI 9099 / NFA 49710                                     |
|                    | POLIPROPILENE (PP)<br>POLYPROPYLENE (PP)                         | 1/2"-70"                                                | 1,8÷10mm                                                            | 6÷18                                                | EN ISO 21809-1 / DIN 30678 / NFA 49711                                                |
|                    | POLVERE EPOSSIDICA (FBE)<br>FUSION BONDED EPOXY (FBE)            | 1/2"-70"                                                | 50÷1000µm                                                           | 6÷18                                                | EN ISO 21809-2-AWWA C 213                                                             |
|                    | BITUME<br>BITUMEN                                                | 2"1/2-24"                                               | 4÷8mm                                                               | 6÷13,3                                              | UNI ISO 5256                                                                          |
|                    | ZINCANTE INORGANICO<br>INORGANIC ZINC PRIMER                     | 3"-24"                                                  | 50-125µm                                                            | 6÷13,3                                              | REQUISITI DEL CLIENTE<br>UPON CLIENT'S REQUIREMENTS                                   |
|                    | PROTEZIONE ANTIROCCIA<br>ROCK-SHIELD PROTECTION-FZM              | 3"-60"                                                  | 6÷9mm                                                               | 6÷13,5                                              | REQUISITI DEL CLIENTE<br>UPON CLIENT'S REQUIREMENTS                                   |
|                    | ANTIROCCIA PLUS - ROCK-SHIELD<br>MECHANICAL PROTECTION PLUS      | 26"-64"                                                 | min. 25mm                                                           | 6÷13,5                                              | REQUISITI DEL CLIENTE<br>UPON CLIENT'S REQUIREMENTS                                   |
|                    | APPESANTIMENTO CEMENTIZIO (CWC)<br>CONCRETE WEIGHT COATING (CWC) | 6"-64"                                                  | 20÷150mm                                                            | 6÷13,5                                              | EN ISO 21809-5 + REQUISITI DEL CLIENTE<br>EN ISO 21809-5 + UPON CLIENT'S REQUIREMENTS |
|                    | ISOLAMENTO TERMICO<br>THERMAL INSULATION                         | 1/2"-36"                                                | Su richiesta<br>Upon request                                        | 6÷13,5                                              | EN 253                                                                                |







### Rivestimenti Interni

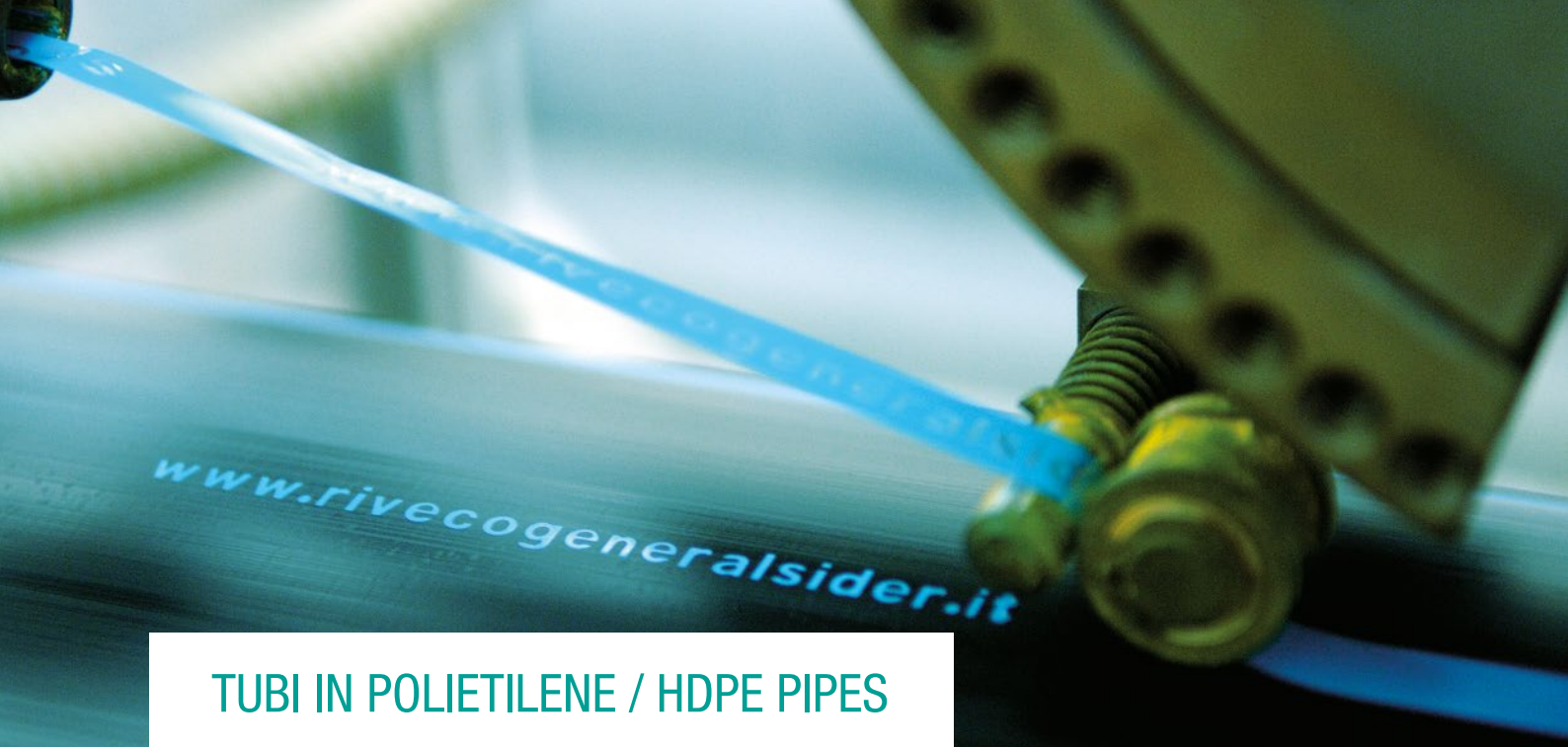
Rivestimenti interni in vernici epossidiche, polveri termoplastiche, malta cementizia, bitume, idonei per la distribuzione di acqua, gas, idrocarburi ed altri derivati petrolchimici, su tubi in acciaio dal Ø 2".½ (76,1 mm) al 64" (1625,6 mm).

### Internal Lining

Anti-corrosion linings with epoxy paints, thermoplastic powders, cement mortar, bitumen, suitable for the distribution of drinking water, gas, hydrocarbons on steel linepipes ranging from Ø 2".½ (76,1 mm) up to Ø 64" (1625,6 mm).

|                           | <b>Tipo di Rivestimento</b><br>Type of Coating       | <b>Diametro (mm)</b><br>Diameter (mm)<br>min÷max | <b>Spessore Rivestimento</b><br>Coating Thickness<br>min÷max | <b>Lunghezza (m)</b><br>Length (m)<br>min÷mx | <b>Norme di riferimento</b><br>Reference standard   |
|---------------------------|------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|
| <b>INTERNO / INTERNAL</b> | RESINA EPOSSIDICA PER GAS<br>EPOXY RESIN FOR GAS     | 2"1/2-64"                                        | 50÷150µm                                                     | 6÷13,5                                       | EN 10301 -API RP 5L2                                |
|                           | RESINA EPOSSIDICA PER ACQUA<br>EPOXY RESIN FOR WATER | 2"1/2-64"                                        | 50÷500µm                                                     | 6÷13,5                                       | EN 10339 - NFA 49709                                |
|                           | MALTA CEMENTIZIA<br>CEMENT MORTAR                    | 3"-64"                                           | 50÷15mm                                                      | 6÷13,5                                       | DIN 2614-EN 10298-NFA 49701-UNI ISO 4179-AWWA C205  |
|                           | BITUME<br>BITUMEN                                    | 2"1/2-24"                                        | 50÷400µm                                                     | 6÷13,3                                       | UNI ISO 5256                                        |
|                           | EPOXY FUEL<br>EPOXY FUEL                             | 3"-64"                                           | 150-300µm                                                    | 6÷13,5                                       | REQUISITI DEL CLIENTE<br>UPON CLIENT'S REQUIREMENTS |
|                           | RESINE TERMOPLASTICHE<br>THERMOPLASTIC RESINS        | 4"-14"                                           | 150÷300µm                                                    | 6÷13,5                                       | REQUISITI DEL CLIENTE<br>UPON CLIENT'S REQUIREMENTS |





# TUBI IN POLIETILENE / HDPE PIPES



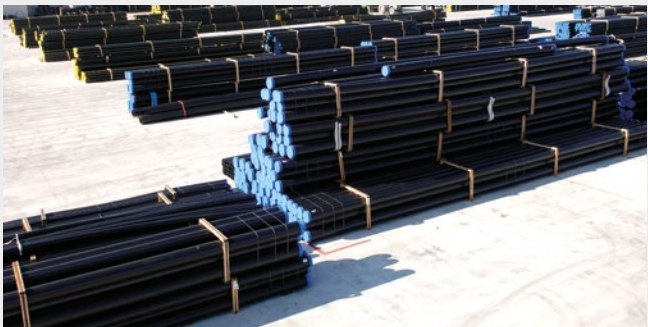
## PE 100 – UNI EN 12201

Tubi in Polietilene Alta Densità 100% vergine per il trasporto di acqua potabile ed altri fluidi in conformità alla norma UNI EN 12201, in accordo alle prescrizioni igienico sanitarie del Ministero della Sanità decreto ministeriale n.174 del 06/04/2004 e conformi alla norma EN 1622 per la determinazione della soglia di odore e sapore. Su commessa, produzione di tubo PE100-RC.

## PE 100 - UNI EN 12201

High density polyethylene pipes 100% virgin for the transport of drinking water and other fluids in compliance with the standard UNI EN 12201, in accordance with the sanitary regulations of the Italian Ministry of Health ministerial decree n.174 dated 06/04/2004 and compliant with the norm EN 1622 for the determination of the odor and taste thresholds. In case of order, production of PE100-RC pipe.

| ROTOLI (R)/BARE (B)<br>ROLLS (R)/BARS (B) | De<br>OD<br>(mm) | PN 6,3          | PN 10           | PN16    | PN25            |
|-------------------------------------------|------------------|-----------------|-----------------|---------|-----------------|
|                                           |                  | SDR 26          | SDR 17          | SDR 11  | SDR 7,4         |
|                                           |                  | SP W.T.<br>(mm) | SP W.T.<br>(mm) | SP (mm) | SP W.T.<br>(mm) |
| R                                         | 20               |                 |                 | 2,0     | 3,0             |
| R                                         | 25               |                 |                 | 2,3     | 3,5             |
| R/B                                       | 32               |                 |                 | 3,0     | 4,4             |
| R/B                                       | 40               |                 |                 | 3,7     | 5,5             |
| R/B                                       | 50               |                 | 3,0             | 4,6     | 6,9             |
| R/B                                       | 63               |                 | 3,8             | 5,8     | 8,6             |
| R/B                                       | 75               |                 | 4,5             | 6,8     | 10,3            |
| R/B                                       | 90               |                 | 5,4             | 8,2     | 12,3            |
| B                                         | 110              |                 | 6,6             | 10,0    | 15,1            |
| B                                         | 125              |                 | 7,4             | 11,4    | 17,1            |
| B                                         | 140              |                 | 8,3             | 12,7    | 19,2            |
| B                                         | 160              | 6,2             | 9,5             | 14,6    | 21,9            |
| B                                         | 180              | 6,9             | 10,7            | 16,4    | 24,6            |
| B                                         | 200              | 7,7             | 11,9            | 18,2    | 27,4            |
| B                                         | 225              | 8,6             | 13,4            | 20,5    | 30,8            |
| B                                         | 250              | 9,6             | 14,8            | 22,7    | 34,2            |
| B                                         | 280              | 10,7            | 16,6            | 25,4    | 38,3            |
| B                                         | 315              | 12,1            | 18,7            | 28,6    | 43,1            |
| B                                         | 355              | 13,6            | 21,1            | 32,2    | 48,5            |
| B                                         | 400              | 15,3            | 23,7            | 36,4    | 54,7            |







### PE 80/PE 100 - UNI EN 1555

Tubi in Polietilene Alta Densità 100% vergine per il trasporto di gas naturale in conformità alla norma EN 1555 e in accordo al Decreto Ministeriale del 16/04/2008.

### PE 80/ PE100 - UNI EN 1555

High density polyethylene pipes 100% virgin for the transport of natural gas manufactured in compliance with standard EN 1555 and in accordance with the Italian Ministerial Decree dated 16/04/2008.

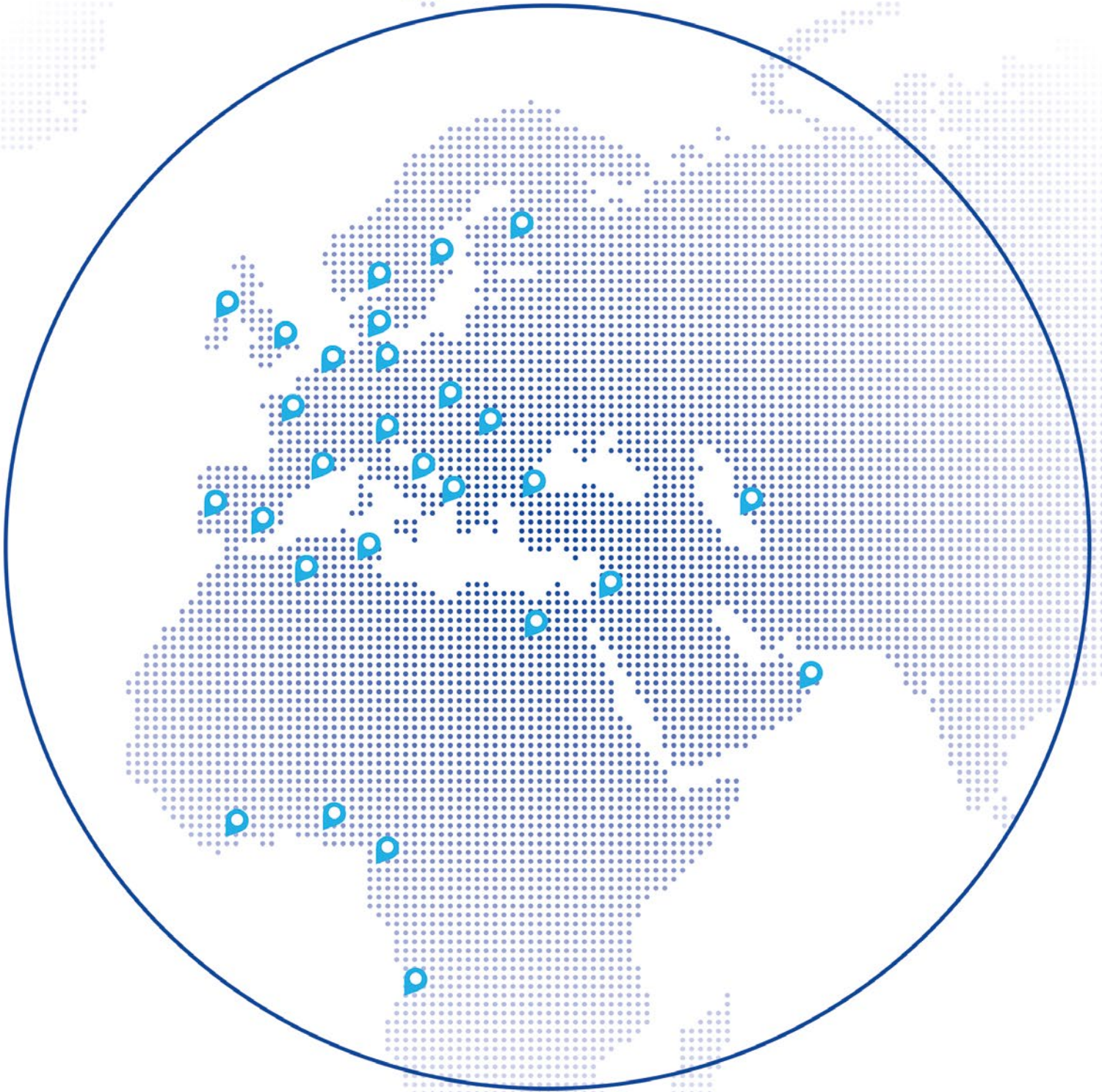
| ROTOLI (R)/BARRE (B)<br>ROLLS (R)/BARS (B) | De<br>(mm) | S12,5           | S8              | S5              |
|--------------------------------------------|------------|-----------------|-----------------|-----------------|
|                                            |            | MOP 3bar        | MOP 3bar        | MOP 5bar        |
|                                            |            | SP W.T.<br>(mm) | SP W.T.<br>(mm) | SP W.T.<br>(mm) |
| R                                          | 20         |                 |                 | 3,0             |
| R                                          | 25         |                 |                 | 3,0             |
| R/B                                        | 32         |                 |                 | 3,0             |
| R/B                                        | 40         |                 | 3,0             | 3,7             |
| R/B                                        | 50         |                 | 3,0             | 4,6             |
| R/B                                        | 63         |                 | 3,6             | 5,8             |
| R/B                                        | 75         |                 | 4,3             | 6,8             |
| R/B                                        | 90         |                 | 5,2             | 8,2             |
| B                                          | 110        |                 | 6,3             | 10,0            |
| B                                          | 125        |                 | 7,1             | 11,4            |
| B                                          | 140        |                 | 8,0             | 12,7            |
| B                                          | 160        | 6,2             | 9,1             | 14,6            |
| B                                          | 180        | 7,0             | 10,3            | 16,4            |
| B                                          | 200        | 7,7             | 11,4            | 18,2            |
| B                                          | 225        | 8,7             | 12,8            | 20,5            |
| B                                          | 250        | 9,7             | 14,2            | 22,7            |
| B                                          | 280        | 10,8            | 16,0            | 25,4            |
| B                                          | 315        | 12,2            | 17,9            | 28,6            |
| B                                          | 355        | 13,7            | 20,2            | 32,3            |
| B                                          | 400        | 15,4            | 22,8            | 36,4            |



# PRINCIPALI PROGETTI / MAIN PROJECTS

| CLIENTE / CLIENT              | PROGETTO / PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RIVESTIMENTO / COATING                                                                                                                                                 | KM           | APPLICAZIONE APPLICATION |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| <b>SNAM RETE GAS</b>          | Gas pipeline high pressure HFI-W 3"-16" various projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PP/ PE/ ZINC PAINT-EPOXY GAS                                                                                                                                           | <b>3950</b>  | ON-SHORE                 |
| <b>ENAGAS</b>                 | Gas pipeline high pressure HFI-W 3"-16" - SPAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BARE/ PE+EPOXY GAS                                                                                                                                                     | <b>1749</b>  | ON-SHORE                 |
| <b>ENI-SAIPEM</b>             | Fauzia & Elettra Sealine - ITALY<br>Gas pipeline Sannazzaro 10" - ITALY<br>Armida Garibaldi Guendalina Sealine - ITALY<br>Capparuccia Project - ITALY<br>Bonaccia Est Project - ITALY<br>Annamaria Field Development Project - ITALY<br>GREEN STREEAM PROJECT - ITALY - LIBYA<br>West Hub Development Project Ochigufu Field - ANGOLA<br>West Hub Development Project - Vandumbu Field - ANGOLA<br>Toulmont EPCI Service - SCOTLAND                                                                                                                      | PE+CWC+ANODES<br>PE<br>PE+CWC +ANODES<br>PE+ANODES<br>PE+ANODES<br>PE+CWC+ANODES<br>POLYURETHANE+CWC+EPOXY+A-<br>NODES<br>PE<br>PE<br>PP                               | <b>990</b>   | ON-SHORE<br>OFF-SHORE    |
| <b>GAS NATURAL/NEDGIA</b>     | Gas pipeline HFI-W 3"-16" various installations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BARE/ PE+EPOXY GAS                                                                                                                                                     | <b>757</b>   | ON-SHORE                 |
| <b>ILVA SPA</b>               | Gas Pipeline "Busso-Palliano" (Società Gasdotti Italia) - ITALY<br>Wafa Field - Mellitah Oil & Gas B.V.- LIBYA<br>Caspian Pipeline Consortium/ Saipem/ Chevron - CASPIAN SEA<br>Rhourde Nouss Project - ALGERIA<br>La Rabida Refinery Sealine Project - SPAIN<br>OLT Off-Shore Lng Toscana Gas Terminal/ Snam Rete Gas - ITALY<br>LNG Adriatic terminal (Snamprogetti-Exxonmobil) - ITALY<br>Sealine for Zuetitina Oil Company - LYBIA<br>Gas pipeline "Larino-Chieti-Reggente" (Società Gasdotti Italia) - ITALY<br>Pipeline 60" for water distribution | PE+EPOXY<br>PP-PE-ZINC PAINT-EPOXY<br>FBE+CWC+ANODES<br>PP<br>PE/ PP+CWC+ANODES<br>CWC (50-70-90-110-120-130mm)<br>PE+CWC<br>CWC (125mm)<br>PE+EPOXY<br>PE+EPOXY WATER | <b>335</b>   | OFF-SHORE                |
| <b>ENDESA/REDEXIS GAS</b>     | Gas pipelines 4"-6"-10"-12" - SPAIN<br>Villanueva El Casar 10" - SPAIN<br>Villanueva Almoguera 12" - SPAIN<br>Gas pipeline Vencillon-Sarinena Fase I - 10" - SPAIN<br>Gas pipeline Endesa 4" - SPAIN<br>Gas pipeline Elche-Monovar-La Alguena y Reposicion Sonan 10" - SPAIN<br>Azaila-Albalade-Arino Y Gallur-Tauste-Ejea - 10"-12" - SPAIN<br>Reposicion Sonan 10" - SPAIN<br>Gas pipeline Villacarrillo-Villanueva del Arzobispo (Vivil) - SPAIN<br>Ramales Distribucion Zona Murcia "Masol (Cartagena)" e "Hijos de Juan Martinez (Lorca)"           | BARE/ PE                                                                                                                                                               | <b>332</b>   | ON-SHORE                 |
| <b>C4GAS</b>                  | Gas pipeline high pressure HFI-W 8"-14" - FRANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BARE/ PE                                                                                                                                                               | <b>275</b>   | ON-SHORE                 |
| <b>THYSSENKRUPP GMBH</b>      | KØge Banen Project (HMN Naturgas) - DENMARK<br>Gas pipeline Seplievo-Septemvri - BULGARY<br>Ren Gasoductos S.A. - PORTUGAL<br>EDPC Belgium (Soresma) - BELGIUM                                                                                                                                                                                                                                                                                                                                                                                           | PE                                                                                                                                                                     | <b>125</b>   | ON-SHORE                 |
| <b>PDO-OMAN</b>               | Gas pipeline - 3"-16" HFI-W - OMAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BARE                                                                                                                                                                   | <b>240</b>   | ON-SHORE                 |
| <b>ARGENTO LTD</b>            | Gas pipeline Nyírgyulaj-Nyíregyháza/ Sade - HUNGARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PE+EPOXY                                                                                                                                                               | <b>16,9</b>  | ON-SHORE                 |
| <b>NCOC</b>                   | Kashagan Field Development Project - KAZHAKSTAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PE/PP+CWC+ANODES on clad pipes                                                                                                                                         | <b>76,5</b>  | ON-SHORE<br>OFF-SHORE    |
| <b>API RAFFINERIA</b>         | Sealine Isle 16" - ITALY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE+CWC/ FBE                                                                                                                                                            | <b>14,5</b>  | ON-SHORE<br>OFF-SHORE    |
| <b>ENI SPA/DIVISIONE AGIP</b> | Calipso Sealine Project 3" - 12" - ITALY<br>Naomi - Pandora 3"-20" - ITALY<br>Oil pipeline Val d'Agri Project 6"-8"-12" - ITALY                                                                                                                                                                                                                                                                                                                                                                                                                          | PP/ PE+CWC<br>POLYURETHANE / POLYURETHANE +CWC<br>POLYURETHANE                                                                                                         | <b>220</b>   | ON-SHORE<br>OFF-SHORE    |
| <b>INAGIP</b>                 | Ivana Field Development Project - ITALY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | POLYURETHANE+CWC                                                                                                                                                       | <b>144,6</b> | ON-SHORE<br>OFF-SHORE    |
| <b>EGYPT GAS</b>              | Gas pipeline - EGYPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PE                                                                                                                                                                     | <b>7,7</b>   | ON-SHORE                 |
| <b>SICOM ITALIA</b>           | Akakus Project - Field-B Sector "c" - LIBYA<br>Akakus Project - J&P Energy & Industrial Projects SA - LIBYA                                                                                                                                                                                                                                                                                                                                                                                                                                              | PE<br>PP                                                                                                                                                               | <b>24,8</b>  | ON-SHORE                 |
| <b>CCC S.P.A.</b>             | Gas pipeline in Zappad Region - BULGARIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE                                                                                                                                                                     | <b>51,6</b>  | ON-SHORE                 |
| <b>STEG TUNIS</b>             | Gas pipeline el Borma-Gabes - TUNISIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PE                                                                                                                                                                     | <b>28</b>    | ON-SHORE                 |
| <b>TFE</b>                    | Gas pipeline - ANGOLA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PP                                                                                                                                                                     | <b>21</b>    | ON-SHORE                 |
| <b>VOETSALPINE TUBULARS</b>   | Gas pipeline Project - SYRIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PP                                                                                                                                                                     | <b>100</b>   | ON-SHORE                 |
| <b>OOISS</b>                  | Gas pipeline 4"-6" - OMAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BARE                                                                                                                                                                   | <b>40</b>    | ON-SHORE                 |
| <b>TUBIFICIO LOMBARDO</b>     | San Gottardo Tunnel 16" - SWITZERLAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BARE                                                                                                                                                                   | <b>105,5</b> | ON-SHORE                 |







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