

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

REPSA Anhydride line pipes have a proven performance and durability, thanks to their excellent corrosion and abrasion resistance.



Applications

With a broad compatibility with various fluids they meet their main application in the following industries:

- Chemical-industrial
- Food
- Steel
- Oil & gas,
- Pharmaceutical
- Automotive.

Compatibility

- Strong acids and bases.
- Water (drinking, process, cooling, residual, etc.).
- Brine
- Condensed.
- Gases (CO₂, H₂S, natural gas, etc.).

Benefits

- Excellent corrosion / abrasion resistance.
- High mechanical resistance.
- Low weight (1/10 of the carbon steel pipe weight).
- Better chemical resistance than carbon steel & PVC / CPVC.
- Similar separation between supports to that required for steel pipes.
- Operating temperatures up to 95° C (203°F).
- Diameter up to 16 inches.
- Operating pressures up to 3500 psi (24,1 MPa)
- Lower maintenance and replacement costs.
- Energy saving. Lower friction load losses and lower pumping costs.
- Easy installation.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

Product Description

- Pressure - Up to 3500 psi (24,1 MPa)
- Resin System - Anhydride Cured Epoxy
- Reinforcement - Premium Fiberglass
- Joining Systems - API 5B 8rd Threaded and AC 2 TPI Threaded. Machined
- Nominal Length – 29.53 ft (+0.16 ft / -0 ft) (9,0 m (+50 mm / -0 mm))
For other lengths, please contact Reinforced Plastic S.A. Technical Department
- Temperature - Up to 203°F (95° C) Maximum
- Sizes - 2 through 16 inches in diameter

High Pressure Design > 500 psi

- Design Life - 20 years
- Design Temperature - 203°F (95° C)
- Reinforced Wall Thickness – Nominal (+22,5% / -0%)
- Hoop Stress - Lower Confidence Limit (LCL) of Long-Term Hydrostatic Strength according to ASTM D2992-B
- 100% Factory Hydro Test - All sizes to 1,5 times the series pressure rating
- Bursting test according to API 15 HR & ASTM D1599 (Procedure B) requirements

Flow Factors

- Hazen Williams C = 150
- Absolute Roughness = 0.00021 in. (0,00533 mm)

Nominal Moduli

- Modulus of Elasticity
 - Hoop – 2.42×10^6 psi (16,75 GPa)
 - Axial – 1.08×10^6 psi (7,24 GPa)
- Poisson's Ratio (Minor) = 0,44

Physical Properties

- Density = 120.5 lbs/cu ft (1930 kgs/cu m)
- Specific Gravity = 1,93

Thermal Properties

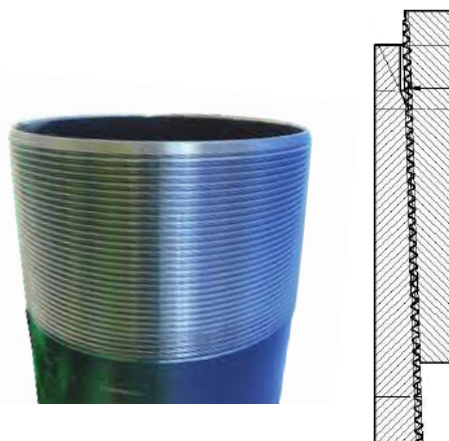
- Coefficient of Thermal Conductivity
0.21 BTU/(ft·hr·°F) (0,36 W/(m·K))
- Coefficient of Thermal Expansion
 9.61×10^{-6} in/in°F ($17,3 \times 10^{-6}$ mm/mm°C)

Accessories

Our GRE pipe range is accompanied by the most complete line of fittings on the market. A variety of filament wound API 5B threaded fittings are available, please refer to the High Pressure Threaded Fittings Product Data sheet.

Joining System

API 5B 8rd Thread



REPSA Fast Thread (RFT): 2 TPI AC (Alternative Connection)



Threads

- Machined threads for high performance applications.
- All 2 ^{3/8}" – 4 ^{1/2}" 8rd API threads conform to API 5B Table 14, 16th Edition; 6 ^{5/8}" 8rd API thread conform to API 5B Table 7, 16th Edition.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

| API 5B 8rd Thread ⁽¹⁾ | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--------|------------|----------------------|-------------------------|------|------------------|------|----------------|-----|-------------|------|------------------------|-------|---------------------------|-------|---------------------|-------|----|------|-------|-------|
| Pipe | Thread | Joint Type | Pressure Range (psi) | NOMINAL PIPE DIMENSIONS | | | | | | | | Minimum Bending Radius | | Short Term Tensile Rating | | | | | | | |
| | | | | Inside Diameter | | Outside Diameter | | Wall Thickness | | Pipe Weight | | | | | | Connection Diameter | | | | | |
| | | | | In | (mm) | In | mm | In | mm | Lbs/ft | kg/m | In | mm | Ft | m | Lbs | kgs | | | | |
| 2" | 2 3/8" | IJ | 500 | 1.9 | 47,8 | 2.0 | 50,5 | 0.04 | 0,9 | 1.1 | 1,6 | 2.9 | 74,7 | 194 | 59,2 | 3511 | 1590 | | | | |
| | | | 750 | | | 2.0 | 51,8 | 0.05 | 1,3 | 1.1 | 1,7 | 3.0 | 77,0 | 132 | 40,3 | 5172 | 2343 | | | | |
| | | | 1000 | | | 2.0 | 51,8 | 0.07 | 1,8 | 1.1 | 1,7 | 3.1 | 79,2 | 102 | 30,9 | 5172 | 2343 | | | | |
| | | | 1250 | | | 2.1 | 53,1 | 0.09 | 2,3 | 1.3 | 1,9 | 3.2 | 81,5 | 83 | 25,4 | 6875 | 3114 | | | | |
| | | | 1500 | | | 2.2 | 54,6 | 0.11 | 2,8 | 1.4 | 2,1 | 3.3 | 83,8 | 71 | 21,7 | 8973 | 4065 | | | | |
| | | | 1750 | | | 2.2 | 54,6 | 0.13 | 3,3 | 1.4 | 2,1 | 3.4 | 86,4 | 63 | 19,2 | 8973 | 4065 | | | | |
| | | | 2000 | | | 2.2 | 55,9 | 0.15 | 3,7 | 1.5 | 2,2 | 3.5 | 88,9 | 57 | 17,3 | 10767 | 4877 | | | | |
| | | | 2250 | | | 2.3 | 57,2 | 0.17 | 4,2 | 1.6 | 2,4 | 3.6 | 91,4 | 52 | 16,0 | 12602 | 5709 | | | | |
| | | 2500 | 2.3 | | | 58,4 | 0.19 | 4,8 | 1.7 | 2,6 | 3.7 | 94,0 | 49 | 15,0 | 14478 | 6558 | | | | | |
| | | | | | | TC | 2750 | | | 2.3 | 58,4 | 0.21 | 5,3 | 1.7 | 2,6 | 3.8 | 96,8 | 47 | 14,3 | 14478 | 6558 |
| | | 3000 | | | 2.4 | | 59,7 | 0.23 | 5,8 | 1.9 | 2,8 | 3.9 | 99,3 | 45 | 13,7 | 16395 | 7427 | | | | |
| 2,5" | 2 7/8" | IJ | 500 | 2.5 | 63,5 | 2.5 | 64,5 | 0.05 | 1,2 | 1.3 | 1,9 | 3.5 | 88,6 | 260 | 79,1 | 1663 | 753 | | | | |
| | | | 750 | | | 2.6 | 66,0 | 0.07 | 1,8 | 1.4 | 2,1 | 3.6 | 91,2 | 177 | 53,9 | 4206 | 1905 | | | | |
| | | | 1000 | | | 2.7 | 67,3 | 0.09 | 2,4 | 1.5 | 2,3 | 3.7 | 93,7 | 136 | 41,6 | 6371 | 2886 | | | | |
| | | | 1250 | | | 2.7 | 68,6 | 0.12 | 3,0 | 1.7 | 2,5 | 3.8 | 96,5 | 112 | 34,3 | 8577 | 3885 | | | | |
| | | | 1500 | | | 2.8 | 69,9 | 0.14 | 3,6 | 1.9 | 2,8 | 3.9 | 99,3 | 97 | 29,5 | 10824 | 4903 | | | | |
| | | | 1750 | | | 2.8 | 71,1 | 0.17 | 4,2 | 2.0 | 3,0 | 4.0 | 102,1 | 86 | 26,3 | 13112 | 5940 | | | | |
| | | | 2000 | | | 2.9 | 72,6 | 0.19 | 4,9 | 2.2 | 3,2 | 4.1 | 105,2 | 79 | 24,0 | 15913 | 7208 | | | | |
| | | | 2250 | | | 2.9 | 73,9 | 0.22 | 5,6 | 2.3 | 3,4 | 4.3 | 108,2 | 73 | 22,3 | 18292 | 8286 | | | | |
| | | | | | | TC | 2500 | | | 2.6 | 66,8 | 0.22 | 5,5 | 2.4 | 3,5 | 4.4 | 111,5 | 64 | 19,4 | 16032 | 7262 |
| | | | | | | | 2750 | | | 2.7 | 68,1 | 0.24 | 6,1 | 2.5 | 3,7 | 4.5 | 114,8 | 61 | 18,7 | 18221 | 8254 |
| | | | | | | | 3000 | | | 2.7 | 69,3 | 0.27 | 6,7 | 2.6 | 3,8 | 4.7 | 118,1 | 60 | 18,3 | 20452 | 9265 |
| | | | | | | | 3500 | | | 2.8 | 72,1 | 0.32 | 8,0 | 2.8 | 4,2 | 4.9 | 125,2 | 58 | 17,6 | 25505 | 11554 |

NOTE: Additional pressure classes are available on request.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

| API 8rd Thread ⁽¹⁾ | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------|------------|----------------------|-------------------------|-------|------------------|-------|----------------|-------|-------------|------|---------------------|-------|------------------------|-------|---------------------------|-------|-------|-------|
| Pipe | Thread | Joint Type | Pressure Range (psi) | NOMINAL PIPE DIMENSIONS | | | | | | | | | | Minimum Bending Radius | | Short Term Tensile Rating | | | |
| | | | | Inside Diameter | | Outside Diameter | | Wall Thickness | | Pipe Weight | | Connection Diameter | | | | | | | |
| | | | | In | mm | In | mm | In | mm | Lbs/ft | kg/m | In | mm | Ft | m | Lbs | kgs | | |
| 3" | 3 1/2" | IJ | 500 | 3.4 | 85,1 | 3.5 | 88,9 | 0.06 | 1,6 | 1.5 | 2,2 | 4.2 | 106,4 | 348 | 106,0 | 8473 | 3838 | | |
| | | | 750 | 3.0 | 76,2 | 3.1 | 79,5 | 0.08 | 2,1 | 2.2 | 3,3 | 4.3 | 109,5 | 214 | 65,2 | 6572 | 2977 | | |
| | | | 1000 | | | 3.2 | 80,8 | 0.11 | 2,8 | 2.4 | 3,5 | 4.4 | 112,5 | 166 | 50,5 | 9174 | 4156 | | |
| | | | 1250 | | | 3.2 | 82,0 | 0.14 | 3,6 | 2.6 | 3,8 | 4.6 | 115,8 | 137 | 41,8 | 11817 | 5353 | | |
| | | | 1500 | | | 3.3 | 83,3 | 0.17 | 4,3 | 2.7 | 4,0 | 4.7 | 119,4 | 119 | 36,3 | 14501 | 6569 | | |
| | | | 1750 | | | 3.3 | 84,8 | 0.20 | 5,1 | 2.9 | 4,3 | 4.8 | 122,9 | 107 | 32,5 | 17777 | 8053 | | |
| | | | 2000 | | | 3.4 | 86,1 | 0.23 | 5,9 | 3.0 | 4,5 | 5.0 | 126,5 | 98 | 29,9 | 20552 | 9310 | | |
| | | | 2250 | | | 3.5 | 88,6 | 0.26 | 6,7 | 3.4 | 5,0 | 5.1 | 130,0 | 92 | 28,0 | 26225 | 11880 | | |
| | | | 2500 | | | 3.5 | 89,9 | 0.30 | 7,5 | 3.5 | 5,2 | 5.3 | 134,1 | 87 | 26,6 | 29124 | 13193 | | |
| | | | 2750 | | | 2.7 | 68,1 | 3.3 | 83,8 | 0.29 | 7,4 | 3.6 | 5,4 | 5.4 | 137,9 | 79 | 24,1 | 30575 | 13851 |
| | | 3000 | 3.4 | 85,3 | 0.32 | | | 8,1 | 3.8 | 5,6 | 5.6 | 142,0 | 78 | 23,7 | 33871 | 15343 | | | |
| | | 3500 | 3.5 | 87,9 | 0.38 | | | 9,7 | 4.1 | 6,1 | 5.9 | 150,6 | 76 | 23,0 | 39495 | 17891 | | | |
| | | 4" | 4 1/2" | IJ | 500 | 4.0 | 101,6 | 4.2 | 105,7 | 0.07 | 1,9 | 1.5 | 2,2 | 5.3 | 133,6 | 416 | 126,8 | 10767 | 4877 |
| | | | | | 750 | | | 4.3 | 108,2 | 0.11 | 2,8 | 2.1 | 3,1 | 5.4 | 137,4 | 285 | 86,9 | 17711 | 8023 |
| 1000 | 4.3 | | | | 109,5 | | | 0.15 | 3,8 | 2.4 | 3,6 | 5.6 | 141,5 | 221 | 67,3 | 21244 | 9624 | | |
| 1250 | 4.4 | | | | 112,3 | | | 0.19 | 4,8 | 3.0 | 4,5 | 5.7 | 145,8 | 183 | 55,8 | 29164 | 13211 | | |
| 1500 | 4.5 | | | | 113,5 | | | 0.23 | 5,8 | 3.3 | 4,9 | 5.9 | 149,9 | 159 | 48,4 | 32829 | 14872 | | |
| 1750 | 3.8 | | | | 95,3 | | | 4.3 | 108,7 | 0.25 | 6,5 | 3.6 | 5,4 | 6.1 | 154,4 | 135 | 41,1 | 35097 | 15899 |
| 2000 | | | | | | | | 4.4 | 111,3 | 0.29 | 7,4 | 4.2 | 6,3 | 6.3 | 159,0 | 124 | 37,8 | 42239 | 19134 |
| 2250 | | | | | | | | 4.4 | 112,8 | 0.33 | 8,4 | 4.5 | 6,7 | 6.4 | 163,6 | 116 | 35,4 | 46603 | 21111 |
| 2500 | | | | 4.5 | | 115,3 | 0.37 | 9,4 | 5.1 | 7,6 | 6.6 | 168,4 | 111 | 33,7 | 54008 | 24466 | | | |
| 2750 | 3.4 | | | 85,1 | 4.1 | 104,9 | 0.36 | 9,2 | 4.8 | 7,2 | 6.8 | 173,5 | 100 | 30,6 | 48114 | 21796 | | | |
| 3000 | | | | | 4.2 | 106,2 | 0.40 | 10,2 | 5.1 | 7,6 | 7.0 | 178,6 | 98 | 30,0 | 51541 | 23348 | | | |
| 3500 | | | | | 4.3 | 110,2 | 0.48 | 12,1 | 6.0 | 8,9 | 7.5 | 189,5 | 96 | 29,2 | 62783 | 28441 | | | |
| 6" | 6 5/8" | | | IJ | 500 | 5.5 | 139,7 | 5.8 | 146,1 | 0.10 | 2,6 | 2.8 | 4,2 | 7.2 | 183,6 | 571 | 174,1 | 23194 | 10507 |
| | | | | | 750 | | | 5.9 | 148,6 | 0.15 | 3,9 | 3.6 | 5,4 | 7.5 | 189,2 | 391 | 119,2 | 32760 | 14840 |
| | | 1000 | 6.0 | | 151,4 | | | 0.21 | 5,3 | 4.6 | 6,8 | 7.7 | 194,8 | 302 | 92,1 | 43473 | 19693 | | |
| | | 1250 | 6.1 | | 153,9 | | | 0.26 | 6,6 | 5.4 | 8,1 | 7.9 | 200,4 | 250 | 76,1 | 53386 | 24184 | | |
| | | 1500 | 6.2 | | 158,0 | | | 0.32 | 8,0 | 6.7 | 10,0 | 8.1 | 206,5 | 216 | 65,7 | 69589 | 31524 | | |
| | | 1750 | 6.3 | | 160,5 | | | 0.37 | 9,4 | 7.6 | 11,3 | 8.4 | 212,6 | 192 | 58,5 | 79930 | 36208 | | |
| | | 2000 | 6.4 | | 163,1 | | | 0.43 | 10,9 | 8.3 | 12,3 | 8.6 | 218,7 | 175 | 53,3 | 90436 | 40968 | | |

NOTE: Additional pressure classes are available on request.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

| AC 2 HPP Thread (Alternative Connection) ⁽¹⁾ | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------|--------|------------|----------------------|-------------------------|-------|------------------|-------|----------------|------|-------------|------|------------------------|-------|---------------------------|-------|---------------------|--------|-------|
| Pipe | Thread | Joint Type | Pressure Range (psi) | NOMINAL PIPE DIMENSIONS | | | | | | | | Minimum Bending Radius | | Short Term Tensile Rating | | | | |
| | | | | Inside Diameter | | Outside Diameter | | Wall Thickness | | Pipe Weight | | | | | | Connection Diameter | | |
| | | | | In | mm | In | mm | In | mm | Lbs/ft | kg/m | In | mm | Ft | m | Lbs | kgs | |
| 6" | 7" | IJ | 500 | 6.2 | 157,2 | 6.5 | 164,8 | 0.11 | 2,9 | 3.4 | 5,0 | 7.7 | 194,8 | 639 | 194,7 | 31370 | 14211 | |
| | | | 750 | | | 6.6 | 167,4 | 0.17 | 4,4 | 4.4 | 6,5 | 7.9 | 200,4 | 434 | 132,2 | 42157 | 19097 | |
| | | | 1000 | | | 6.8 | 171,5 | 0.23 | 5,9 | 5.8 | 8,7 | 8.1 | 206,5 | 331 | 101,0 | 59759 | 27071 | |
| | | | 1250 | 5.4 | 137,9 | 6.0 | 151,6 | 0.26 | 6,6 | 5.6 | 8,4 | 8.4 | 212,6 | 237 | 72,3 | 50767 | 22997 | |
| | | | 1500 | | | 6.1 | 155,7 | 0.31 | 8,0 | 7.1 | 10,5 | 8.6 | 218,9 | 201 | 61,4 | 66732 | 30230 | |
| | | | 1750 | | | 6.2 | 158,2 | 0.37 | 9,4 | 7.9 | 11,8 | 8.9 | 225,3 | 176 | 53,7 | 76925 | 34847 | |
| | | | 2000 | | | 6.3 | 160,8 | 0.43 | 10,8 | 8.8 | 13,1 | 9.1 | 231,9 | 157 | 47,9 | 87283 | 39539 | |
| | | 2250 | 6.4 | | | 163,6 | 0.48 | 12,3 | 9.7 | 14,4 | 9.4 | 239,0 | 143 | 43,5 | 98867 | 44787 | | |
| | | TC | 2500 | | | 6.5 | 166,1 | 0.54 | 13,7 | 10.5 | 15,7 | 9.7 | 246,1 | 131 | 40,0 | 109571 | 49636 | |
| | | | 3000 | | | 6.7 | 170,2 | 0.60 | 15,3 | 11.9 | 17,7 | 10.0 | 253,2 | 122 | 37,1 | 127041 | 57550 | |
| 8" | 9" | IJ | 500 | 8.0 | 203,2 | 8.2 | 208,8 | 0.15 | 3,7 | 5.4 | 8,0 | 9.9 | 251,2 | 825 | 251,5 | 29427 | 13331 | |
| | | | 750 | | | 8.4 | 212,9 | 0.22 | 5,6 | 7.4 | 11,0 | 10.2 | 258,8 | 560 | 170,8 | 51331 | 23253 | |
| | | | 1000 | 7.5 | 190,5 | 8.1 | 205,0 | 0.28 | 7,1 | 8.5 | 12,7 | 10.5 | 266,4 | 402 | 122,5 | 73188 | 33154 | |
| | | | 1250 | | | 8.2 | 209,0 | 0.35 | 9,0 | 10.3 | 15,4 | 10.8 | 274,3 | 328 | 99,9 | 94696 | 42897 | |
| | | | 1500 | | | 8.4 | 212,9 | 0.43 | 10,9 | 12.2 | 18,2 | 11.1 | 282,4 | 278 | 84,9 | 115242 | 52205 | |
| | | | 1750 | | | 8.5 | 216,9 | 0.50 | 12,8 | 14.1 | 21,0 | 11.5 | 290,8 | 243 | 74,2 | 137568 | 62318 | |
| | | | 9 1/4" | | | 2000 | 8.7 | 220,5 | 0.58 | 14,7 | 16.2 | 24,1 | 12.0 | 304,0 | 217 | 66,3 | 157449 | 71324 |
| | 2250 | | | | | 8.8 | 224,3 | 0.66 | 16,7 | 18.1 | 26,9 | 12.3 | 313,2 | 197 | 60,1 | 179109 | 81136 | |
| | 10" | | TC | | | 2500 | | | 9.0 | 228,9 | 0.74 | 18,7 | 20.9 | 31,1 | 13.7 | 348,7 | 181 | 55,3 |

NOTE: Additional pressure classes are available on request.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

| AC 2 HPP Thread (Alternative Connection) ⁽¹⁾ | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------|---------|------------|----------------------|-------------------------|-------|------------------|-------|----------------|------|-------------|------|---------------------|-------|------------------------|--------|------------------------|--------|
| Pipe | Thread | Joint Type | Pressure Range (psi) | NOMINAL PIPE DIMENSIONS | | | | | | | | | | Minimum Bending Radius | | Minimum Burst Pressure | |
| | | | | Inside Diameter | | Outside Diameter | | Wall Thickness | | Pipe Weight | | Connection Diameter | | | | | |
| | | | | In | mm | psi | psi | In | mm | Lbs/ft | kg/m | In | mm | Ft | m | Lbs | kgs |
| 10" | 11 1/2" | IJ | 500 | 10.5 | 267,2 | 11.0 | 278,4 | 0.19 | 4,9 | 9.0 | 13,4 | 12.6 | 320,5 | 1086 | 331,0 | 77941 | 35307 |
| | | | 750 | | | 11.2 | 283,5 | 0.29 | 7,4 | 12.6 | 18,7 | 13.0 | 330,2 | 737 | 224,8 | 114424 | 51834 |
| | 1000 | | 10.0 | 253,0 | 10.8 | 273,1 | 0.37 | 9,4 | 15.1 | 22,4 | 13.6 | 344,2 | 534 | 162,7 | 134923 | 61120 | |
| | 1250 | | | | 10.9 | 277,1 | 0.47 | 11,9 | 17.5 | 26,0 | 14.0 | 354,6 | 435 | 132,7 | 163503 | 74067 | |
| | 1500 | | | | 11.1 | 282,4 | 0.57 | 14,4 | 20.6 | 30,7 | 14.4 | 365,0 | 370 | 112,7 | 201654 | 91349 | |
| 12" | 13 1/4" | IJ | 500 | 11.8 | 299,0 | 12.2 | 309,1 | 0.22 | 5,5 | 11.8 | 17,5 | 14.3 | 363,5 | 1215 | 370,4 | 78970 | 35774 |
| | | | 750 | | | 12.4 | 314,5 | 0.33 | 8,4 | 15.7 | 23,4 | 14.7 | 374,4 | 825 | 251,6 | 121486 | 55033 |
| | | | 1000 | | | 12.6 | 319,5 | 0.44 | 11,2 | 19.8 | 29,5 | 15.2 | 385,6 | 631 | 192,3 | 162653 | 73682 |
| 14" | 16" | IJ | 500 | 13.8 | 350,5 | 14.3 | 363,5 | 0.25 | 6,4 | 16.3 | 24,3 | 17.4 | 441,7 | 1424 | 434,0 | 118225 | 53556 |
| | | | 800 | | | 14.7 | 372,1 | 0.41 | 10,3 | 21.6 | 32,2 | 18.0 | 457,5 | 910 | 277,4 | 199425 | 90340 |
| | | | 1000 | | | 14.9 | 377,7 | 0.51 | 13,0 | 26.3 | 39,1 | 18.4 | 468,4 | 739 | 225,2 | 252983 | 114601 |
| | | | 1500 | | | 15.4 | 390,7 | 0.78 | 19,8 | 36.9 | 54,9 | 19.6 | 496,8 | 512 | 156,0 | 380208 | 172234 |
| 16" | 17 1/2" | IJ | 500 | 15.3 | 388,6 | 15.9 | 403,1 | 0.28 | 7,1 | 17.9 | 26,7 | 19.0 | 482,3 | 1579 | 481,2 | 146518 | 66373 |
| | | | 800 | | | 16.2 | 412,5 | 0.45 | 11,5 | 27.6 | 41,1 | 19.7 | 499,6 | 1009 | 307,6 | 244494 | 110756 |
| | | | 1000 | | | 16.4 | 417,6 | 0.57 | 14,5 | 33.2 | 49,4 | 20.1 | 511,6 | 820 | 249,8 | 298395 | 135173 |

NOTE: Additional pressure classes are available on request.

⁽¹⁾ 95°C High Pressure Pipes are designed, manufactured, controlled and tested in accordance with API 15 HR requirements, for a 20 year life expectancy.

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

Joining System Information

| Pipe Size - Inches | Thread Size - Inches | Pin Upset O.D. | | Thread Length | | Make Up Length Loss | |
|--------------------------|----------------------|----------------|-------|---------------|------|---------------------|-------|
| | | In | mm | In | mm | In | mm |
| API 5B 8rd Thread | | | | | | | |
| 2 | 2 3/8 | 2.6 | 66,0 | 2.6 | 65,1 | 3.1 | 77,8 |
| 2,5 | 2 7/8 | 3.1 | 78,7 | 2.9 | 73,0 | 3.4 | 85,7 |
| 3 | 3 1/2 | 3.8 | 95,3 | 3.1 | 79,4 | 3.6 | 92,1 |
| 4 | 4 1/2 | 4.8 | 120,7 | 3.5 | 88,9 | 4.0 | 101,6 |
| 6 | 6 5/8 | 6.7 | 170,2 | 3.9 | 98,4 | 4.4 | 111,1 |

CONNECTIONS - All products are produced integral joint unless indicated (TC) Threaded and Coupled. All 2 3/8" – 4 1/2" 8rd API threads conform to API 5B Table 14, 16th Edition; 6 5/8" 8rd API thread conform to API 5B Table 7, 16th Edition.

| AC 2 HPP Thread (Alternative Connection) | | | | | | | |
|-------------------------------------------------|--------|------|-------|------|-------|------|-------|
| 6 | 7 | 7.1 | 179,1 | 4.0 | 101,6 | 5.2 | 133,1 |
| 8 | 9 | 9.1 | 229,9 | 4.5 | 114,3 | 6.0 | 152,4 |
| | 9 1/4 | 9.2 | 233,9 | 7.0 | 177,5 | 8.4 | 214,2 |
| | 10 | 10.4 | 262,9 | 6.9 | 174,9 | 8.1 | 206,8 |
| 10 | 11 1/2 | 11.7 | 297,2 | 5.9 | 151,0 | 6.6 | 166,9 |
| | 11 5/8 | 12.0 | 303,5 | 8.5 | 215,9 | 9.5 | 241,3 |
| 12 | 13 1/4 | 13.2 | 335,3 | 6.6 | 168,0 | 7.6 | 193,4 |
| 14 | 16 | 16.2 | 410,2 | 10.0 | 254,0 | 11.1 | 282,6 |
| 16 | 17 1/2 | 17.7 | 450,0 | 9.5 | 241,3 | 10.5 | 266,7 |

CONNECTIONS - All products are produced integral joint unless indicated (TC) Threaded and Coupled. REPSA Fast Thread (RFT) 2 TPI Alternative Connection (AC).

Performance Ratings

| ASTM D 2992-B | Performance Ratings | |
|------------------------------------------------------|---------------------|--------|
| | PSI | (MPa) |
| 20 Year Life, LTHS (Long term hydrostatic stress) | 25204 | 173,77 |
| 20 Year Life, LCL (Lower Confidence Limit) | 20919 | 144,23 |

REPSA - Anhydride Line Pipe High Pressure Standard Design 95°C (203°F) Data Sheet

Pipe Capacity

| Size Pipe | Inside Diameter | | Capacity | |
|-------------------------------------------------|-----------------|-------|----------------|---------|
| | in | mm | Bbls/1,000 ft. | (m3/km) |
| API 8rd Thread | | | | |
| 2 3/8 | 1.9 | 47,8 | 3.9 | 2,0 |
| 2 7/8 | 2.5 | 63,5 | 6.1 | 3,2 |
| | 2.2 | 56,6 | 4.8 | 2,5 |
| 3 1/2 | 3.4 | 85,1 | 10.9 | 5,7 |
| | 3.0 | 76,2 | 8.7 | 4,6 |
| | 2.7 | 68,1 | 7.0 | 3,6 |
| 4 1/2 | 4.0 | 101,6 | 15.5 | 8,1 |
| | 3.8 | 95,3 | 13.7 | 7,1 |
| | 3.4 | 85,1 | 10.9 | 5,7 |
| 6 5/8 | 5.5 | 139,7 | 29.4 | 15,3 |
| | 5.4 | 137,9 | 28.6 | 14,9 |
| AC 2 HPP Thread (Alternative Connection) | | | | |
| 7 | 6.2 | 157,2 | 37.2 | 19,4 |
| | 5.4 | 137,9 | 28.6 | 14,9 |
| 9 | 8.0 | 203,2 | 62.2 | 32,4 |
| | 7.5 | 190,5 | 54.6 | 28,5 |
| 9 1/4 | 7.5 | 190,5 | 54.6 | 28,5 |
| 10 | | | | |
| 11 1/2 | 10.5 | 267,2 | 107.5 | 56,1 |
| 11 5/8 | 10.0 | 253,0 | 96.4 | 50,3 |
| 13 1/4 | 11.8 | 299,0 | 134.6 | 70,2 |
| 16 | 13.8 | 350,5 | 185.0 | 96,5 |
| 17 1/2 | 15.3 | 388,6 | 227.4 | 118,6 |