

| TECHNICAL SAFETY BC FEE SCHEDULE: BOILERS and PRESSURE VESSELS | | | | | |
|--|------------------------------|------------------------------|---------------|-----|--|
| DESCRIPTION | Effective January 1, 2019 | Effective January 1, 2020 | UNITS | GST | |
| Contractor Licensing | | | | | |
| New Boiler Contractor Licence | \$ 425 | \$ 434 | per unit | No | |
| New Boiler Contractor Licence with Quality Control Program | \$ 958 | \$ 977 | per unit | No | |
| Boiler Contractor Licence (if renewed within one year after expiry). If renewed later than 1 year after expiry, then new boiler contractor Licence fee is charged. | \$ 176 | \$ 180 | per unit | No | |
| Audit or Re-audit / Interview to obtain or maintain contractors Licence. Interview is part of the contractor Licensing process. | Safety Services Rate | Safety Services Rate | per hour | No | |
| Testing Agency Certificate of Recognition (minimum of 5 hour charge) | Safety Services Rate | Safety Services Rate | per hour | Yes | |
| Testing Agency Certificate of Recognition renewal (1 hour charge) | Safety Services Rate | Safety Services Rate | per hour | Yes | |
| Qualified Worker Certification and Examination (Fees for examination will be assessed based on the examination written date and not the application date.) | | | | | |
| Exams / Papers | | | | | |
| Papers: Power Engineers, Boiler Operators, Refrigeration Operators. Evaluation fee applies before final Power Engineer exam. | \$ 146 | \$ 149 | per paper | Yes | |
| Ice Facility Operator | \$ 215 | \$ 219 | per paper | Yes | |
| Safety Awareness, Oil Well, Greenhouse. | \$ 146 | \$ 149 | per paper | Yes | |
| API / National Board Exam | \$ 361 | \$ 368 | per exam | Yes | |
| Evaluation Fee. Power Engineers, Boiler Operators, Refrigeration Operators, IFO and Safety Awareness. Evaluation fee applies before final Power Engineer exam. | \$ 102 | \$ 104 | one time fee | Yes | |
| Evaluation Fee. Power Engineers with Canadian education and international work experience, Evaluation fee applies before final Power Engineer exam. (Maximum 5.5 hours) | \$ 245 | \$ 250 | per hour | Yes | |
| Evaluation Fee. Power Engineers of international worker, Evaluation fee applies before final Power Engineer exam. | \$ 1,418 | \$ 1,446 | one time fee | Yes | |
| Power Engineer Renewal | Waived | \$ 100 | per unit | Yes | |
| Exam Rescheduling Fee. Charged when an exam is rebooked more than once. | \$ 52 | \$ 53 | per time | Yes | |
| Re-examination Fee | \$ 146 | \$ 149 | per paper | Yes | |
| Re-Examination Fee - Ice Facility Operator | \$ 215 | \$ 219 | per paper | Yes | |
| Exam Re-marking Fee | \$ 72 | \$ 73 | per exam | Yes | |
| Welder Fees | | | | | |
| Welder Certification | \$ 116 | \$ 118 | per procedure | Yes | |
| Certification | | | | | |
| Interim "A" Certificate of Qualification, initial and renewal. In force for 12 months or less. | \$ 288 | \$ 294 | per site | Yes | |
| Interim "B" Certificate of Qualification, initial and renewal. In force for 60 days or less (initial) or 30 days or less (renewal). | \$ 216 | \$ 220 | per site | Yes | |
| Granting of Certificate of Qualification | | | | | |
| (a) Power Engineers | | | | | |
| (i) 1st Class | \$ 432 | \$ 441 | per unit | Yes | |
| (ii) 2nd Class | \$ 361 | \$ 368 | per unit | Yes | |
| (iii) 3rd Class | \$ 253 | \$ 258 | per unit | Yes | |
| (iv) 4th Class | \$ 180 | \$ 184 | per unit | Yes | |
| (v) 5th Class | \$ 180 | \$ 184 | per unit | Yes | |
| (b) Boiler, Refrigeration and Oil Well Operator | \$ 159 | \$ 162 | per unit | Yes | |
| Installations Permits | | | | | |
| Boiler Installation or Alteration Permit Permit fee does not include inspection. Inspection hours will be charged in addition. | Note 1: \$ 142 | \$ 145 | per unit | No | |
| Refrigeration Installation or Alteration Permit: - More than 125 kW prime mover nameplate capacity rating using Group A1, A2 or B1 refrigerant - More than 25 kW prime mover nameplate capacity rating using Group A3, B2 or B3 refrigerant Note 1: Permit fee does not include inspection. Inspection hours will be charged in addition. | \$ 142 | \$ 145 | per unit | No | |
| Refrigeration Installation or Alteration Permit: (Decal applicable for all refrigeration equipment conforming to CSA B52 section 5.2 within the following parameters) - Using Group A1, A2 or B1 refrigerant and having a capacity >5kW to not more than 125 kW prime mover nameplate rating, or - Using Group A3, B2 or B3 refrigerant and having a capacity >5kW to not more than 25 kW prime mover nameplate rating Note 1: The refrigeration contractor is to supply a declaration of installation that includes details of: - equipment type - certification standard - date and location of installation Note 2: A decal is to be applied to the unit Note 3: An assessment will be carried out to determine if an inspection is required *This became effective on April 15, 2013 | \$ 30 | \$ 31 | per unit | No | |
| Inspection Fees | Safety Services Rate | Safety Services Rate | per site | Yes | |
| Re-inspection Fees. Inspections for non-compliance purposes will be billed on an hourly basis. Please refer to the 'Hourly Rates' section. | Safety Services Rate | Safety Services Rate | per hour | Yes | |
| Operating Permits | | | | | |
| High Pressure Boilers, Low Pressure Boilers, Thermal Fluid Boilers | | | | | |
| (a) with a heating surface to 25 m2 inclusive | \$ 263 | \$ 268 | per permit | No | |
| (b) with a heating surface more than 25 m2 to 50 m2 inclusive | \$ 396 | \$ 404 | per permit | No | |
| (c) with a heating surface more than 50 m2 to 100 m2 inclusive | \$ 481 | \$ 491 | per permit | No | |
| (d) with a heating surface more than 100 m2 to 500 m2 inclusive | \$ 700 | \$ 714 | per permit | No | |
| (e) with a heating surface more than 500 to 1,000 m2 inclusive | \$ 1,358 | \$ 1,385 | per permit | No | |
| (f) with a heating surface more than 1,000 to 2,000 m2 inclusive | \$ 1,576 | \$ 1,608 | per permit | No | |
| Additional charge per 1,000 m2 of heating surface over 2,000 m2 rounded up to the nearest 1,000 m2 | \$ 525 | \$ 536 | per 1,000 m2 | No | |
| Hot Water Boilers | | | | | |
| (a) with a heating surface to 25 m2 inclusive | \$ 131 | \$ 134 | per permit | No | |
| (b) with a heating surface more than 25 m2 to 50 m2 inclusive | \$ 157 | \$ 160 | per permit | No | |
| (c) with a heating surface more than 50 m2 to 100 m2 inclusive | \$ 174 | \$ 177 | per permit | No | |
| (d) with a heating surface more than 100 m2 to 500 m2 inclusive | \$ 263 | \$ 268 | per permit | No | |
| (e) with a heating surface more than 500 m2 to 1,000 m2 inclusive | \$ 481 | \$ 491 | per permit | No | |
| (f) with a heating surface more than 1,000 m2 to 2,000 m2 inclusive | \$ 613 | \$ 625 | per permit | No | |
| Additional charge per 1,000 m2 of heating surface over 2,000 m2 rounded up to the nearest 1,000 m2 | \$ 218 | \$ 222 | per 1,000 m2 | No | |
| Digesters | | | | | |
| Shell volumetric measurement not more than 280 m3 | \$ 525 | \$ 536 | per permit | No | |
| Shell volumetric measurement more than 280 m3 | \$ 839 | \$ 856 | per permit | No | |

| TECHNICAL SAFETY BC FEE SCHEDULE: BOILERS and PRESSURE VESSELS | | | | |
|---|--|---|------------------|-----|
| DESCRIPTION | Propose to be Effective January 1, 2019 | Propose to be Effective January 1, 2020 | UNITS | GST |
| Pressure Vessels | | | | |
| Regular Service | See Table B (Pressure Vessels Fee Table) | | per permit | No |
| Designated Service | See Table C (Pressure Vessels Fee Table) | | per permit | No |
| Special Service | See Table D (Pressure Vessels Fee Table) | | per permit | No |
| LPG Service | See Table E (Pressure Vessels Fee Table) | | per permit | No |
| Refrigeration Plants | | | | |
| More than 125 kW prime mover nameplate capacity rating using Group A1, A2 or B1 refrigerant | \$ 385 | \$ 393 | per permit | No |
| More than 25 kW prime mover nameplate capacity rating using Group A3, B2 or B3 refrigerant | \$ 385 | \$ 393 | per permit | No |
| Special Plant Registration Fees - Risk Assessed & General Supervision Plants | | | | |
| Registration of Special Plant (One time registration includes up to 5 hours documentation review, additional review charged at hourly rate) | \$ 980 | \$ 1,000 | per registration | No |
| Initial Safety Audit Inspection by a safety officer | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Biennial Safety Audit (inspected every 2 years) | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Biennial Renewal Certificate of Special Plant Registration (inspected every 2 years) | \$ 70 | \$ 71 | per certificate | Yes |
| Boiler / PV Additional Inspection on Request | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Re-inspection Fees. Assessed when an inspection of a previous non-compliance is performed. (minimum 1 hour) | | | | |
| Boilers | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Hot Water Boilers | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Digesters | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Pressure Vessels | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Refrigeration | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Manufacturing Shop Inspection, Audits, Design Revisions and Registered Design | | | | |
| Manufacturing Shops and Audit Hourly | Safety Services Rate | Safety Services Rate | per hour | Yes |
| ASME Welding Procedure Registration | \$ 212 | \$ 216 | per unit | Yes |
| Design Registration | | | | |
| Reciprocal Design Registration ¹ | \$ 303 | \$ 309 | per unit | Yes |
| Standard Design Registration ^{2,4,5} | \$ 633 | \$ 646 | per unit | Yes |
| Complex Design Registration ³ | \$ 1,161 | \$ 1,184 | per unit | Yes |
| Exceptional Design Registration ⁴ | \$ 3,417 | \$ 3,485 | per unit | Yes |
| Expedited Service A - initial review within 10 business days ⁵ | 2x applicable fee above | 2x applicable fee above | per unit | Yes |
| Expedited Service B - initial review within 5 business days ⁵ | 3.5x applicable fee above | 3.5x applicable fee above | per unit | Yes |
| Application Cancellation Fee ⁶ | \$ 409 | \$ 417 | per unit | Yes |
| Administrative Cancellation Fee ⁷ | \$ 118 | \$ 120 | per unit | Yes |
| Boiler Design Compliance Consultation Rate ⁸ | \$ 273 | \$ 278 | per hour | Yes |
| Design Registration | | | | |
| Notes: | | | | |
| 1: A design which has been previously registered by another Province in Canada and has a Canadian Registration Number (CRN). Both the design documentation and the proof of registration in another Province must be included with the application. | | | | |
| 2: Boiler, pressure vessel, pressure piping, pressure fitting designs whose application contents are consistent with the published guidance material and are not likely to require any substantial review effort to verify compliance. | | | | |
| 3: Applications may be reclassified by BCSA as "complex" following submission where there is a large scope of design review effort resulting from: - dependence upon application of engineering judgement rather than prescriptive design code clauses - unfamiliarity with applicable codes, standards, design practices or registration process - and/or significant communication exchanges are required due to the applicant's lack of responsiveness in responding to questions and issues which may arise during the registration process | | | | |
| 4: Applications may be reclassified by BCSA as "exceptional" following submission where, in addition to the factors considered for "complex", reviews as defined above, one or more of the following conditions - the design is novel - codes and standards are unique, unfamiliar or new to the Province of BC - very large scope of review requiring multiple days of dedicated effort | | | | |
| 5: Turn-Around Times - Standard Design Registration and Expedited Services BCSA works to an average turn-around time of 20 - 30 business days for the initial engineering review of standard design registrations, dependent on the volume of applications. Complete registration time is dependent upon the quality of the application and timeliness of the applicant's responses during the process. Two options for expedited service (A & B) are available dependent on the volume of applications and response times for the initial engineering review under each service are provided above. | | | | |
| 6: Applied to boiler, pressure vessel, pressure piping, pressure fitting designs in the event that an application is cancelled by the applicant or rejected by TECHNICAL SAFETY BC after engineering review has occurred. This fee is in lieu of any design registration fee. | | | | |
| 7: Applied to boiler, pressure vessel, pressure piping, pressure fitting design applications in the event that an application is cancelled by the applicant or rejected by TECHNICAL SAFETY BC prior to engineering review. This fee is in lieu of any design registration fee. | | | | |
| 8: This rate applies for optional services that are separate from and beyond the scope of the official design registration process; for example: clients who may be seeking input on compliance of a proposed boiler design prior to submitting a completed application for registration. | | | | |
| Miscellaneous | | | | |
| Custom Reports & Searches (per Technology) | Admin Hourly Rate | Admin Hourly Rate | per hour | Yes |
| Replacement / Duplicate Standard Certificate of Qualification or Wallet Card (each) | \$ 67 | \$ 68 | per unit | Yes |
| Application for each copy of a certificate of inspection | \$ 67 | \$ 68 | per unit | Yes |
| Application for variance from the Code | Safety Services Rate | Safety Services Rate | per hour | Yes |
| Hourly Rates | | | | |
| Administrative Rate | | | | |
| Normal working hours, Monday to Friday inclusive (except holidays), 8:00 a.m. to 4:30 p.m. | \$ 67 | \$ 68 | per hour | Yes |
| Overtime working hours Monday to Friday inclusive (except holidays), 4:30 p.m. to 8:00 a.m., per hour, charged at 1.5x Administrative rate | \$ 102 | \$ 104 | per hour | Yes |
| Saturdays, Sundays and Holiday working hours, per hour, charged at 2x Administrative rate | \$ 137 | \$ 140 | per hour | Yes |
| Safety Services Rate | | | | |
| Normal working hours, Monday to Friday inclusive (except holidays), 8:00 a.m. to 4:30 p.m. Plus expenses incurred where applicable. | \$ 176 | \$ 180 | per hour | Yes |
| Overtime working hours Monday to Friday inclusive (except holidays), 4:30 p.m. to 8:00 a.m., per hour, charged at 1.5x Safety Services rate | \$ 266 | \$ 271 | per hour | Yes |
| Saturdays, Sundays and Holiday working hours, per hour, charged at 2x Safety Services rate | \$ 355 | \$ 362 | per hour | Yes |
| Professional Services Rate | | | | |
| Normal working hours, Monday to Friday inclusive (except holidays), 8:00 a.m. to 4:30 p.m. Plus expenses incurred where applicable | \$ 250 | \$ 255 | per hour | Yes |
| Overtime working hours Monday to Friday inclusive (except holidays), 4:30 p.m. to 8:00 a.m., per hour, charged at 1.5x Professional Services rate | \$ 374 | \$ 381 | per hour | Yes |
| Saturdays, Sundays and Holiday working hours, per hour, charged at 2x Professional Services rate | \$ 499 | \$ 509 | per hour | Yes |
| Plus expenses incurred, where applicable | | | | |
| Late Payment Fees may be charged on overdue accounts | \$ 67 | \$ 68 | per unit | Yes |
| NSF Cheques A charge will be levied when cheques are returned "NSF" | \$ 41 | \$ 42 | per unit | Yes |

| Pressure Vessels Fee Tables January 1, 2017 | | | | | | | |
|--|--------|--------------------|-------|--------|--------|--------|------|
| Table B | | Regular Service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 43 | 71 | 107 | 143 | 179 | 213 |
| | 1-2M | 66 | 94 | 130 | 166 | 202 | 236 |
| | 2-3M | 84 | 112 | 148 | 184 | 220 | 254 |
| | 3-4M | 107 | 135 | 171 | 207 | 243 | 277 |
| | 4-5M | 125 | 153 | 189 | 225 | 261 | 295 |
| | >5M | 148 | 176 | 212 | 248 | 284 | 318 |
| Table C | | Designated service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 86 | 143 | 213 | 284 | 355 | 425 |
| | 1-2M | 128 | 185 | 255 | 326 | 397 | 467 |
| | 2-3M | 168 | 225 | 295 | 366 | 437 | 507 |
| | 3-4M | 210 | 267 | 337 | 408 | 479 | 549 |
| | 4-5M | 251 | 308 | 378 | 449 | 520 | 590 |
| | >5M | 294 | 351 | 421 | 492 | 563 | 633 |
| Table D | | Special service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 132 | 213 | 319 | 425 | 532 | 639 |
| | 1-2M | 197 | 278 | 384 | 490 | 597 | 704 |
| | 2-3M | 255 | 336 | 442 | 548 | 655 | 762 |
| | 3-4M | 320 | 401 | 507 | 613 | 720 | 827 |
| | 4-5M | 380 | 461 | 567 | 673 | 780 | 887 |
| | >5M | 444 | 525 | 631 | 737 | 844 | 951 |
| Table E | | LPG Service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 28 | 42 | 66 | 84 | 108 | 129 |
| | 1-2M | 39 | 53 | 77 | 95 | 119 | 140 |
| | 2-3M | 55 | 69 | 93 | 111 | 135 | 156 |
| | 3-4M | 66 | 80 | 104 | 122 | 146 | 167 |
| | 4-5M | 76 | 90 | 114 | 132 | 156 | 177 |
| | >5M | 91 | 105 | 129 | 147 | 171 | 192 |

| Pressure Vessels Fee Tables February 1, 2018 | | | | | | | |
|---|--------|--------------------|-------|--------|--------|--------|------|
| Table B | | Regular Service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 44 | 72 | 109 | 146 | 183 | 217 |
| | 1-2M | 67 | 95 | 132 | 169 | 206 | 240 |
| | 2-3M | 86 | 114 | 151 | 188 | 225 | 259 |
| | 3-4M | 109 | 137 | 174 | 211 | 248 | 282 |
| | 4-5M | 128 | 156 | 193 | 230 | 267 | 301 |
| | >5M | 151 | 179 | 216 | 253 | 290 | 324 |
| Table C | | Designated service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 88 | 146 | 217 | 290 | 362 | 434 |
| | 1-2M | 131 | 189 | 260 | 333 | 405 | 477 |
| | 2-3M | 172 | 230 | 301 | 374 | 446 | 518 |
| | 3-4M | 214 | 272 | 343 | 416 | 488 | 560 |

**TECHNICAL SAFETY BC
FEE SCHEDULE: BOILERS and PRESSURE VESSELS**

| | | | | | | | |
|--|------|-----|-----|-----|-----|-----|-----|
| | 4-5M | 256 | 314 | 385 | 458 | 530 | 602 |
| | >5M | 300 | 358 | 429 | 502 | 574 | 646 |

Table D Special service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 135 | 217 | 325 | 434 | 543 | 652 |
| | 2-3M | | 201 | 283 | 391 | 500 | 609 | 718 |
| | 3-4M | | 260 | 342 | 450 | 559 | 668 | 777 |
| | 4-5M | | 327 | 409 | 517 | 626 | 735 | 844 |
| | >5M | | 388 | 470 | 578 | 687 | 796 | 905 |
| | | | 453 | 535 | 643 | 752 | 861 | 970 |

Table E LPG Service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 29 | 43 | 68 | 87 | 111 | 133 |
| | 2-3M | | 40 | 54 | 79 | 98 | 122 | 144 |
| | 3-4M | | 57 | 71 | 96 | 115 | 139 | 161 |
| | 4-5M | | 68 | 82 | 107 | 126 | 150 | 172 |
| | >5M | | 78 | 92 | 117 | 136 | 160 | 182 |
| | | | 93 | 107 | 132 | 151 | 175 | 197 |

**Pressure Vessels Fee Tables
January 1, 2019**

Table B Regular Service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 45 | 73 | 111 | 149 | 187 | 221 |
| | 2-3M | | 68 | 96 | 134 | 172 | 210 | 244 |
| | 3-4M | | 88 | 116 | 154 | 192 | 230 | 264 |
| | 4-5M | | 111 | 139 | 177 | 215 | 253 | 287 |
| | >5M | | 131 | 159 | 197 | 235 | 273 | 307 |
| | | | 154 | 182 | 220 | 258 | 296 | 330 |

Table C Designated service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 90 | 149 | 221 | 296 | 369 | 443 |
| | 2-3M | | 134 | 193 | 265 | 340 | 413 | 487 |
| | 3-4M | | 176 | 235 | 307 | 382 | 455 | 529 |
| | 4-5M | | 219 | 278 | 350 | 425 | 498 | 572 |
| | >5M | | 261 | 320 | 392 | 467 | 540 | 614 |
| | | | 306 | 365 | 437 | 512 | 585 | 659 |

Table D Special service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 138 | 221 | 332 | 443 | 554 | 665 |
| | 2-3M | | 205 | 288 | 399 | 510 | 621 | 732 |
| | 3-4M | | 266 | 349 | 460 | 571 | 682 | 793 |
| | 4-5M | | 334 | 417 | 528 | 639 | 750 | 861 |
| | >5M | | 396 | 479 | 590 | 701 | 812 | 923 |
| | | | 462 | 545 | 656 | 767 | 878 | 989 |

Table E LPG Service

| | | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
|----------|------|--------|-----|-------|--------|--------|--------|------|
| Diameter | <1M | | | | | | | |
| | 1-2M | | 30 | 44 | 70 | 90 | 114 | 137 |
| | 2-3M | | 41 | 55 | 81 | 101 | 125 | 148 |
| | 3-4M | | 59 | 73 | 99 | 119 | 143 | 166 |
| | 4-5M | | 70 | 84 | 110 | 130 | 154 | 177 |
| | >5M | | 80 | 94 | 120 | 140 | 164 | 187 |
| | | | 95 | 109 | 135 | 155 | 179 | 202 |

| Pressure Vessels Fee Tables January 1, 2020 | | | | | | | |
|--|--------|--------------------|-------|--------|--------|--------|------|
| Table B | | Regular Service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 46 | 74 | 113 | 152 | 191 | 225 |
| | 1-2M | 69 | 97 | 136 | 175 | 214 | 248 |
| | 2-3M | 90 | 118 | 157 | 196 | 235 | 269 |
| | 3-4M | 113 | 141 | 180 | 219 | 258 | 292 |
| | 4-5M | 134 | 162 | 201 | 240 | 279 | 313 |
| | >5M | 157 | 185 | 224 | 263 | 302 | 336 |
| Table C | | Designated service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 92 | 152 | 225 | 302 | 376 | 452 |
| | 1-2M | 137 | 197 | 270 | 347 | 421 | 497 |
| | 2-3M | 180 | 240 | 313 | 390 | 464 | 540 |
| | 3-4M | 224 | 284 | 357 | 434 | 508 | 584 |
| | 4-5M | 266 | 326 | 399 | 476 | 550 | 626 |
| | >5M | 312 | 372 | 445 | 522 | 596 | 672 |
| Table D | | Special service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 141 | 225 | 339 | 452 | 565 | 678 |
| | 1-2M | 209 | 293 | 407 | 520 | 633 | 746 |
| | 2-3M | 272 | 356 | 470 | 583 | 696 | 809 |
| | 3-4M | 341 | 425 | 539 | 652 | 765 | 878 |
| | 4-5M | 404 | 488 | 602 | 715 | 828 | 941 |
| | >5M | 471 | 555 | 669 | 782 | 895 | 1008 |
| Table E | | LPG Service | | | | | |
| | Length | <5M | 5-10M | 10-15M | 15-20M | 20-25M | >25M |
| Diameter | <1M | 31 | 45 | 72 | 93 | 117 | 141 |
| | 1-2M | 42 | 56 | 83 | 104 | 128 | 152 |
| | 2-3M | 61 | 75 | 102 | 123 | 147 | 171 |
| | 3-4M | 72 | 86 | 113 | 134 | 158 | 182 |
| | 4-5M | 82 | 96 | 123 | 144 | 168 | 192 |
| | >5M | 97 | 111 | 138 | 159 | 183 | 207 |