

33 52 Hydrocarbon Transmission and Distribution

33 52 16 – Gas Hydrocarbon Piping

| 33 52 16.26 High Density Polyethylene Piping | | Crew | Daily Output | Labor-Hours | Unit | Material | 2022 Bare Costs | | Total | Total Incl O&P |
|--|--|------|--------------|-------------|------|----------|-----------------|-----------|--------|----------------|
| | | B-20 | 12 | 2 | Ea. | | Labor | Equipment | | |
| 4270 | 2" x 1-1/4" diameters | | 12 | 2 | | 10.65 | 101 | | 111.65 | 163 |
| 4275 | 3" x 2" diameters | | 12 | 2 | | 14.70 | 101 | | 115.70 | 167 |
| 4280 | 4" x 2" diameters | | 9 | 2.667 | | 35 | 135 | | 170 | 241 |
| 4285 | 4" x 3" diameters | | 9 | 2.667 | | 32 | 135 | | 167 | 238 |
| 4305 | Couplings, 1/2" CTS diameter | | 15 | 1.600 | | 2.42 | 81 | | 83.42 | 124 |
| 4310 | 1/2" diameter | | 14.25 | 1.684 | | 2.42 | 85.50 | | 87.92 | 131 |
| 4315 | 3/4" diameter | | 14.25 | 1.684 | | 1.91 | 85.50 | | 87.41 | 130 |
| 4320 | 1" diameter | | 13.50 | 1.778 | | 1.89 | 90 | | 91.89 | 137 |
| 4325 | 1-1/4" diameter | | 13.50 | 1.778 | | 2.76 | 90 | | 92.76 | 138 |
| 4330 | 1-1/2" diameter | | 12.75 | 1.882 | | 3.01 | 95.50 | | 98.51 | 146 |
| 4335 | 2" diameter | | 12 | 2 | | 3.12 | 101 | | 104.12 | 154 |
| 4340 | 3" diameter | | 12 | 2 | | 14.20 | 101 | | 115.20 | 167 |
| 4345 | 4" diameter | | 9 | 2.667 | | 27 | 135 | | 162 | 232 |
| 4405 | Elbows, 90°, 1/2" CTS diameter | | 15 | 1.600 | | 4.16 | 81 | | 85.16 | 126 |
| 4410 | 1/2" diameter | | 14.25 | 1.684 | | 4.20 | 85.50 | | 89.70 | 133 |
| 4415 | 3/4" diameter | | 14.25 | 1.684 | | 3.45 | 85.50 | | 88.95 | 132 |
| 4420 | 1" diameter | | 13.50 | 1.778 | | 4.17 | 90 | | 94.17 | 140 |
| 4425 | 1-1/4" diameter | | 13.50 | 1.778 | | 5.75 | 90 | | 95.75 | 141 |
| 4430 | 1-1/2" diameter | | 12.75 | 1.882 | | 8.35 | 95.50 | | 103.85 | 152 |
| 4435 | 2" diameter | | 12 | 2 | | 8.50 | 101 | | 109.50 | 160 |
| 4440 | 3" diameter | | 12 | 2 | | 31 | 101 | | 132 | 185 |
| 4445 | 4" diameter | | 9 | 2.667 | | 124 | 135 | | 259 | 340 |
| 4450 | 45°, 3/4" diameter | | 14.25 | 1.684 | | 8.45 | 85.50 | | 93.95 | 137 |
| 4455 | 1" diameter | | 13.50 | 1.778 | | 9.50 | 90 | | 99.50 | 145 |
| 4460 | 1-1/4" diameter | | 13.50 | 1.778 | | 8 | 90 | | 98 | 144 |
| 4465 | 1-1/2" diameter | | 12.75 | 1.882 | | 12.50 | 95.50 | | 108 | 157 |
| 4470 | 2" diameter | | 12 | 2 | | 9.30 | 101 | | 110.30 | 161 |
| 4475 | 3" diameter | | 12 | 2 | | 51 | 101 | | 152 | 207 |
| 4480 | 4" diameter | | 9 | 2.667 | | 66.50 | 135 | | 201.50 | 276 |
| 4505 | Tees, 1/2" CTS diameter | | 10 | 2.400 | | 3.59 | 122 | | 125.59 | 186 |
| 4510 | 1/2" diameter | | 9.50 | 2.526 | | 3.56 | 128 | | 131.56 | 195 |
| 4515 | 3/4" diameter | | 9.50 | 2.526 | | 3.55 | 128 | | 131.55 | 195 |
| 4520 | 1" diameter | | 9 | 2.667 | | 4.38 | 135 | | 139.38 | 207 |
| 4525 | 1-1/4" diameter | | 9 | 2.667 | | 6.10 | 135 | | 141.10 | 209 |
| 4530 | 1-1/2" diameter | | 8.50 | 2.824 | | 10.50 | 143 | | 153.50 | 226 |
| 4535 | 2" diameter | | 8 | 3 | | 11.25 | 152 | | 163.25 | 239 |
| 4540 | 3" diameter | | 8 | 3 | | 46.50 | 152 | | 198.50 | 278 |
| 4545 | 4" diameter | | 6 | 4 | | 90 | 203 | | 293 | 405 |
| 4600 | Tapping tees, type II, 3/4" punch, socket fusion outlets | | | | | | | | | |
| 4601 | Saddle countour x outlet diameter, IPS unless noted CTS | | | | | | | | | |
| 4602 | 1-1/4" x 1/2" CTS outlet | B-20 | 17 | 1.412 | Ea. | 13.90 | 71.50 | | 85.40 | 122 |
| 4604 | 1-1/4" x 1/2" outlet | | 17 | 1.412 | | 13.90 | 71.50 | | 85.40 | 122 |
| 4606 | 1-1/4" x 3/4" outlet | | 17 | 1.412 | | 13.90 | 71.50 | | 85.40 | 122 |
| 4608 | 1-1/4" x 1" outlet | | 17 | 1.412 | | 16.20 | 71.50 | | 87.70 | 125 |
| 4610 | 1-1/4" x 1-1/4" outlet | | 16 | 1.500 | | 29 | 76 | | 105 | 146 |
| 4612 | 1-1/2" x 1/2" CTS outlet | | 16 | 1.500 | | 13.90 | 76 | | 89.90 | 129 |
| 4614 | 1-1/2" x 1/2" outlet | | 16 | 1.500 | | 13.90 | 76 | | 89.90 | 129 |
| 4616 | 1-1/2" x 3/4" outlet | | 16 | 1.500 | | 13.90 | 76 | | 89.90 | 129 |
| 4618 | 1-1/2" x 1" outlet | | 16 | 1.500 | | 16.20 | 76 | | 92.20 | 132 |
| 4620 | 1-1/2" x 1-1/4" outlet | | 15 | 1.600 | | 29 | 81 | | 110 | 153 |
| 4622 | 2" x 1/2" CTS outlet | | 12 | 2 | | 13.90 | 101 | | 114.90 | 166 |
| 4624 | 2" x 1/2" outlet | | 12 | 2 | | 13.90 | 101 | | 114.90 | 166 |
| 4626 | 2" x 3/4" outlet | | 12 | 2 | | 13.90 | 101 | | 114.90 | 166 |