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Overview

The Ezi Pex Gas™ system has been developed at the request of plumbers, gasfitters and builders who were seeking a high quality yet cost effective composite pipe system for use with natural or propane gas.

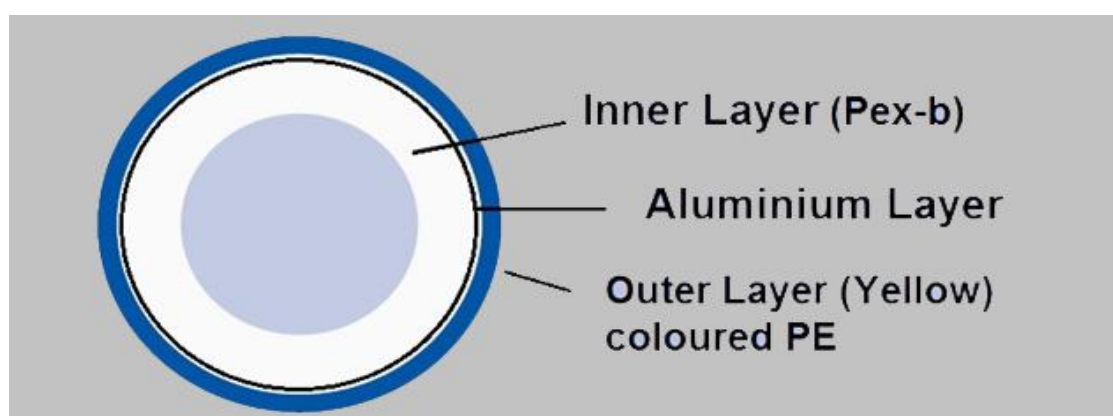
Ezi Pex Gas™ joins the other family (Ezi Pex Slide™, Ezi Pex Crimp™ & Ezi Pex Push™), providing a total solution for water and gas applications.

The Ezi Pex Gas™ system utilizes a premium quality Pe-X/Al/PE composite pipe and DZR brass fittings. This combination provides a flexible, lightweight and corrosion resistant system.

All installations should be carried out by an appropriately licensed tradesperson and in full accordance with the Ezi Pex Gas™ installation guidelines, the relevant Australian standards and any additional local authority requirements. When installed subject to the above conditions the Ezi Pex Gas™ system will provide years of trouble free service.

Pipe

Ezi Pex Gas™ pipe is a high quality composite pipe. It comprises of three separate layers bonded to form a lightweight, flexible and extremely resilient pipe. The inside layer is a plain Pex-b crosslinked Polyethylene, this is completely surrounded by a layer of Aluminium which inturn is encased with an outer layer of PE



Ezi Pex Gas™ pipe is available in the following sizes DN 16, DN 20, DN 25, and DN 32, supplied in either coil form or straight lengths. Ezi Pex Gas™ pipe sizes DN 40 and DN 50 are only available in straight lengths.

EZI PEX GAS™ Standard Supply Units

| Nom Size | Straight Lengths (m) | Coils (m) |
|----------|-------------------------|--------------|
| 16mm | 5 | 50 |
| 20mm | 5 | 50 |
| 25mm | 5 | 50 |
| 32mm | 5 | 25 |
| 40mm | 5 | NA |
| 50mm | 5 | NA |

EZI PEX GAS™ Pipe Dimensions

| Nom. Size | Mean OD (mm) | Mean ID (mm) |
|-----------|-----------------|-----------------|
| 16mm | 16.0 | 12.0 |
| 20mm | 20.0 | 16.0 |
| 25mm | 25.0 | 20.0 |
| 32mm | 32.0 | 26.0 |
| 40mm | 40.0 | 32.0 |
| 50mm | 50.0 | 41.0 |

The use of Ezi Pex Gas™ pipe provides users with many advantages over traditional piping materials.

Due to its smooth internal surface it provides very low levels of friction loss and in some cases can reduce the need to up-size pipe work.

The jointing methods are by way of a crimp operation so there is no requirement for solvents, solder, flux or other consumables.

Ezi Pex Gas™ pipe is manufactured and tested to comply with AS 4176

Fittings

Ezi Pex Gas™ fitting bodies are manufactured from DZR brass, whilst the crimp rings are of a high quality copper construction to provide exceptional resistance to corrosion. Ezi Pex Gas™ fittings are supplied with sleeve protection plugs to protect the integrity of the crimp ring during both shipping and storage. Systems without these plugs may be prone to problems caused by out-of-shape crimp rings. These sorts of problems can slow down the installation process considerably. Ezi Pex Gas™ fittings are manufactured with an overall barb and crimp ring length that is longer than many of its competitors. This adds to the integrity of each joint.

All Ezi Pex Gas™ fittings are manufactured and tested to fully comply with AS 4176.

Ezi Pex Gas™ Fittings Dimensions

| Nom Size | Mean Bore (mm) |
|----------|----------------|
| 16mm | 8.5 |
| 20mm | 11.0 |
| 25mm | 14.2 |
| 32mm | 20.0 |
| 40mm | 26.0 |
| 50mm | 34.5 |

Features and Benefits

Crimp Jointing Method

- Fast
- Secure
- Simple to use
- Less time on the job
- Less capital outlay on tooling
- Internal sealing method reduces leaks due to scratched pipe

Flame-free Assembly

- Increased safety
- No need for gas cylinders or Hot Works permits
- Reduced costs on welding consumables

Size Range DN15 – DN50

- Flexible - can result in decreased fittings use
- Fittings available for most tasks

Installation Considerations

Ezi Pex Gas™ should always be installed in compliance with AS 5601. Most installation requirements can be sourced from this document.

Heat exposure

Ezi Pex Gas™ should not be installed in positions where it is likely to be exposed to naked flame. Installers should ensure that adequate clearances are maintained from heat sources such as burners, flues etc...

Installers should also ensure that all welding operations are completed and allowed to cool prior to assembling the Ezi Pex Gas™ joints

Thermal expansion

Ezi Pex Gas™ pipe has a thermal expansion rate of approx 0.25mm per meter of pipe per 10°C temperature change. This expansion or contraction should be taken into considered for any installation and the appropriate allowances in pipe layout or fixing positions made. Care should be taken not to pull the pipe tightly between fixed points during installation as the pipe may contract at a later time and apply excessive forces to the joints. This could result in joint failure.

Protection from physical damage

Due care should be taken to protect pipe and fittings from any physical damage both prior to, during and after installation. Possible causes of physical damage may include (but are not limited to) sharp edges or implements, machinery, rodents, excessive heat, radiation, mechanical forces, corrosive agents.

Where Ezi Pex Gas™ pipe penetrates timber or metal framework appropriate precautions should be taken to protect it from damage. Holes should be sized to allow for longitudinal movement, expansion and contraction of pipe whilst still securing the pipe adequately. Suitable grommets or sleeves should be used in metal frames to protect the pipe from abrasion.

The use of silicone sealant or other chemical adhesives is not recommended for these purposes.

Pipe Bending

Do not apply bending forces to joints which have already been completed. Finish all bending operations prior to crimping the fitting.

Due care should be taken during bending to ensure that the pipe is not damaged or kinked. If you do encounter a kinked or damaged section of pipe it should be cut out and replaced as a precaution.

Ezi Pex Gas™ pipe has limits as to the minimum radius that it may be bent to. For smaller sizes (16 & 20mm) it can be easily bent by hand, in which case the radius of the bend should be not less than 5 times the diameter of the pipe.

It is also possible to use many of the mechanical bending devices currently available in the market. In this case the minimum radius is as indicated on the below table.

Minimum Mechanical Bending Radius

| Nom Size | Min Mechanical Bending Radius (mm) |
|----------|------------------------------------|
| 16mm | 50 |
| 20mm | 60 |
| 25mm | 100 |
| 32mm | 130 |
| 40mm | 400 |
| 50mm | 500 |

Clipping

In accordance with AS 5601 fixing spacing should be observed for both horizontal and vertical pipe runs as outlined on the table below.

Clipping should be by way of a recognized fixing which complies with the requirements AS 5601. This excludes things such as bent over nails, tie wire, pierced metal strapping etc.

Clip Spacing Table

| Nom Size | Vertical or Horizontal Run Spacing (m) |
|----------|--|
| 16mm | 1.0 |
| 20mm | 1.25 |
| 25mm | 1.5 |
| 32mm | 2.0 |
| 40mm | 2.0 |
| 50mm | 2.5 |

For pipe work being suspended on rod hangers the minimum diameter of the rod hanger should be 9.5mm for all pipe sizes up to and including 50mm.

Appliance Connection

Ezi Pex Gas™ pipe is not to be used as an appliance connection in accordance with AS 5601 (restriction on appliance connections)

Underground

Pipe should be buried with a minimum cover of 450mm. Marker tape should be installed approx 150mm above the pipe.

Fittings being DZR brass should be able to be installed directly in the trench without any form of coating. Additional precautions should obviously be taken in areas where aggressive soil conditions are known to exist or where it may be a requirement of the local certifying authority.

When being buried beneath a building the pipe must be free of joints.

Chases, In-Slab, Under-floor

Where Ezi Pex Gas™ pipe is installed in chases or cast in slabs the installation must be in accordance with both AS 5601 and any other relevant building regulations or standards.

UV Exposure

It is recommended that the pipe be sleeved or wrapped to ensure that the installation satisfies the relevant authorities and or the local authorities' interpretation of the Australian Gas Installation standard. Refer to AS 5601 (protection against UV degradation).

Future Extension

It is good practice to allow for future extension of the consumers pipe work. This may be done by way of:

- a). An Equal Tee with a short piece of pipe fitted to the branch and terminated with a #3 Male adaptor and brass screwed cap.
- b). A #30 FI Tee terminated with a brass plug screwed into the threaded branch.

Connection to other materials

Ezi Pex Gas™ is suitable for connection to most existing pipe work systems by the use of our range of threaded adaptors. When connecting to other materials you should ensure that you use an approved gas sealant for all threaded fittings. It is also recommended to remove any remaining flux or other jointing compounds which could possibly compromise the integrity of the joint.

Caravans or Marine Craft

The Ezi Pex Gas™ system is not suitable for installation in caravans or marine craft, it's use in these situations may not comply with the relevant Australian standards.

Testing

All testing should be undertaken in accordance with AS 5601–Appendix E (pressure testing for gas installations) and in addition to any other local regulations or requirements.

During testing all joints should be checked for leaks, that they are assembled correctly and that the crimp operation has been completed properly.

Jointing Instructions

1. Cut pipe

Cut pipe to desired length. Cut should be square and free from any swarf or burrs.

Use REMS pipe cutter or similar blade type cutter. Do not use a hacksaw as this creates excessive swarf.



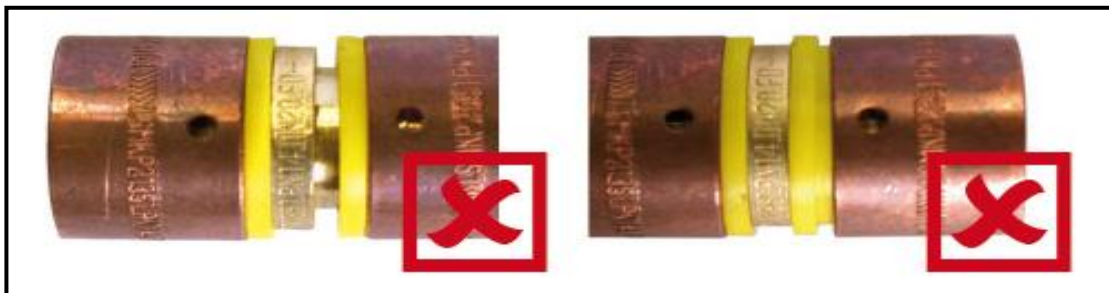
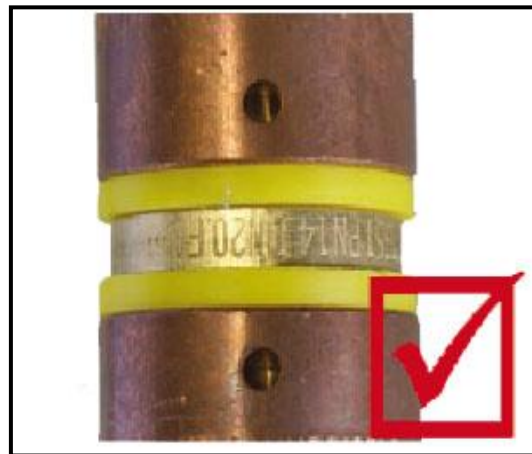
2. Round Pipe

Insert rounding tool into cut pipe to correct any flattening that may have occurred during cutting.



3. Check fitting assembly

Ensure that the copper crimp ring and plastic ring retainer are assembled correctly onto the fitting. Both can be pushed on by hand if they have moved away from the fitting shoulder. Witness hole should be located toward the inwards end of each barb.



4. Insert Pipe

Slide pipe onto fitting until it reaches the depth stop. Pipe should be fully visible through the witness holes on the crimp ring



5. Crimp tool Positioning

Position crimping tool evenly over the copper crimp ring. You should leave a similar distance between the outside of the jaw and the end of the crimp ring at both ends. Crimp tool should be placed at 90° to the pipework.



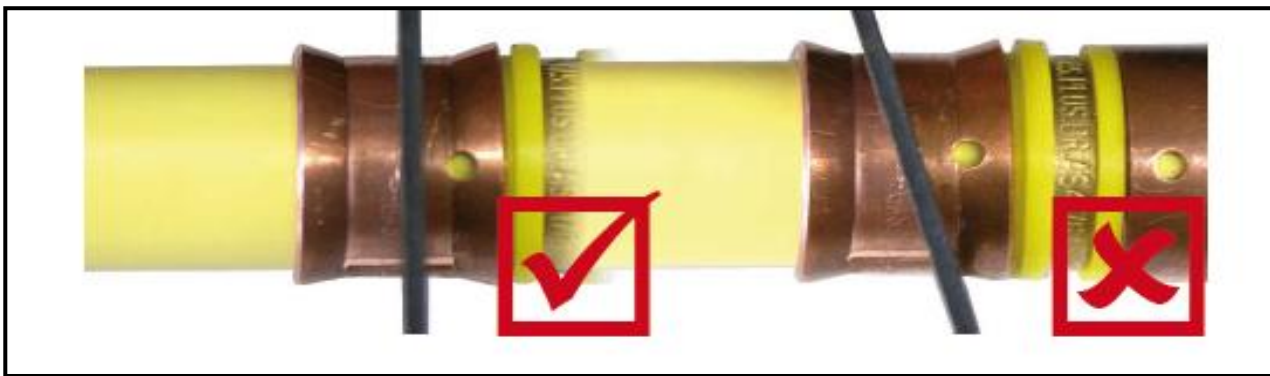
6. Crimp

Fully close jaws of the crimping tool to compress the copper crimp ring. Do not compress the plastic ring retainer.



7. Check Crimp Ring

Finally and most importantly, check the crimp ring dimension by placing the crimp gauge over the centre of the indented ring on the crimp sleeve. On a correctly crimped fitting the crimp gauge should pass freely over the crimp ring at this point



8. Pressure Test

At completion, carry out pressure testing as required per AS 5601 – Appendix E (pressure testing for gas installations) and or any requirements specified by local authorities.

Pipe Sizing Calculations

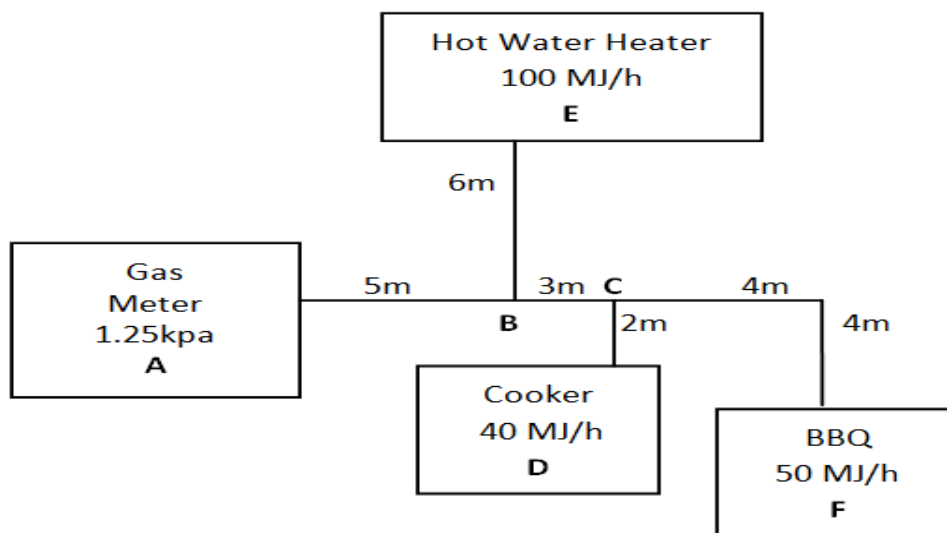
The pipe sizing process is extremely important in ensuring that the installed system performs to the expectation of the end user. In the past some installations have adopted a “near enough is good enough” approach to pipe sizing. This has in many cases resulted in substandard installations where appliances have been “starved” of gas and therefore have not functioned properly. Failure to incorrectly size systems could ultimately lead to voiding of manufactures warranty

Information required to complete pipe sizing exercise:

- a).** Gas Type Natural or LPG
- b).** Gas Consumption for each appliance (Mj/h)
- c).** Pressure available at the start of the consumer piping (meter pressure)
- d).** Allowable pressure drop. (Difference between meter pressure and minimum inlet pressure required by the appliance).
- e).** Proposed layout for the pipe work in question.

Method

1. Sketch the proposed piping layout including positions of all appliances.
 - a). Record all pipe lengths on sketch and the gas consumption of each appliance
 - b). Allocate a letter to each branch on the diagram commencing at the meter with letter "A"
 - c). Allocate a letter to each appliance position on the diagram



Reference the above diagram for subsequent steps.

2. Determine the main run.

This is the length of piping from the meter to the furthest appliance. This critical measurement will be used throughout the sizing process. (Example: Main run for this diagram = $5\text{m} + 3\text{m} + 4\text{m} + 4\text{m} = 16\text{m}$)

3. Add an allowance for number of fittings used on the main line. For each Tee, Elbow, Connector, Coupling on the main line add the equivalent of 2m pipe length to your Main Run Length.
(Example: 16m + 5 fittings @ 2m = 26m Total)
4. Select the pipe sizing table that corresponds with the gas type, supply pressure and allowable pressure drop required. (Example: Use the table which is for natural gas 1.25kpa Meter Pressure with 0.12kpa Pressure drop – this will allow available pressure of 1.13kpa at the appliance)
5. Prepare a simple chart to assist in calculating the pipe sizing for each section of piping. For Gas Flow column you record all flows that need to run through that section of pipe. Nom Pipe Size column is then filled by working from the table

| Pipe Section | Calculated Length (Main Run Length) + (Fitting Qty x 2) | Gas Flow (mj/h) | Nom Pipe Size |
|--------------|---|---------------------|---------------|
| A - B | 26 | 50 + 100 + 40 = 190 | 32mm |
| B - C | 26 | 50 + 40 = 90 | 25mm |
| C - D | 26 | 40 | 20mm |
| B - E | 26 | 100 | 25mm |
| C - F | 26 | 50 | 20mm |

6. Nom Pipe Size column is then filled by working from the pipe sizing table
 - a). Select the Main Run Length from the figures shown under the "Pipe Run length" column. (always round up where applicable in the case of our example round up to 30)
 - b). Section A – B has a total flow rate of 190 mj/h. Follow the 30m column down until you reach the 190 figure (or the next larger if your exact figure is not shown)
 - c). Read across the table to the indicated "Nominal Size" (Example: 30m @ 210mj/h = 32mm Pipe Size – next size down (25mm) will only handle 121mj/h).
 - d). Insert this pipe size into your chart against the section for pipe section A – B.
 - e). Calculate the pipe size of remaining sections by using the mj/h required to that point and the Main Run Length - not the pipe length for individual sections.
(Example: Run B - C you would use figures of 90mj/h @ 26m which returns a result of 25mm Pipe Size)

The above methods make generous allowances for pipe sizing, this has been done intentionally to allow for the possibility of appliance upgrades in the future.

Natural Gas at 1.1 kPa with a 0.075 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|-----|-----|-----|-----|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 92 | 69 | 59 | 52 | 45 | 41 | 35 | 31 | 27 |
| 20 | 203 | 136 | 107 | 95 | 90 | 88 | 82 | 77 | 72 |
| 25 | 375 | 251 | 198 | 167 | 147 | 132 | 129 | 127 | 125 |
| 32 | 767 | 516 | 408 | 360 | 303 | 273 | 249 | 230 | 215 |
| 40 | 1347 | 908 | 720 | 610 | 536 | 483 | 441 | 408 | 381 |
| 50 | 2630 | 1779 | 1413 | 1199 | 1056 | 951 | 870 | 806 | 753 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 24 | 20 | 16 | 14 | 12 | 11 | 10 | 9 | 8 |
| 20 | 67 | 62 | 52 | 44 | 39 | 34 | 31 | 28 | 26 |
| 25 | 124 | 111 | 101 | 95 | 89 | 82 | 76 | 69 | 63 |
| 32 | 202 | 178 | 161 | 146 | 134 | 124 | 116 | 110 | 106 |
| 40 | 358 | 315 | 283 | 258 | 238 | 222 | 209 | 199 | 189 |
| 50 | 708 | 622 | 560 | 512 | 473 | 473 | 415 | 393 | 373 |

Natural Gas at 1.25 kPa with a 0.12 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|-----|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 121 | 81 | 69 | 65 | 61 | 57 | 53 | 49 | 43 |
| 20 | 267 | 179 | 141 | 119 | 104 | 102 | 99 | 97 | 95 |
| 25 | 491 | 330 | 261 | 221 | 194 | 174 | 159 | 147 | 137 |
| 32 | 1002 | 676 | 535 | 454 | 399 | 359 | 328 | 303 | 283 |
| 40 | 1757 | 1188 | 943 | 800 | 704 | 634 | 580 | 537 | 501 |
| 50 | 3424 | 2322 | 1847 | 1569 | 1382 | 1245 | 1140 | 1056 | 987 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 39 | 31 | 26 | 22 | 20 | 17 | 16 | 14 | 13 |
| 20 | 90 | 80 | 74 | 69 | 62 | 55 | 50 | 45 | 41 |
| 25 | 129 | 123 | 121 | 119 | 111 | 105 | 99 | 94 | 87 |
| 32 | 266 | 234 | 210 | 194 | 182 | 170 | 160 | 152 | 146 |
| 40 | 472 | 414 | 373 | 340 | 315 | 294 | 276 | 261 | 248 |
| 50 | 930 | 817 | 736 | 673 | 623 | 582 | 547 | 517 | 492 |

Natural Gas at 2.75 kPa with a 0.25 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 187 | 125 | 99 | 83 | 71 | 66 | 64 | 60 | 56 |
| 20 | 410 | 276 | 218 | 185 | 162 | 146 | 133 | 123 | 115 |
| 25 | 752 | 507 | 402 | 341 | 299 | 269 | 246 | 228 | 210 |
| 32 | 1527 | 1034 | 821 | 697 | 614 | 553 | 506 | 468 | 438 |
| 40 | 2670 | 1812 | 1442 | 1225 | 1080 | 973 | 891 | 826 | 772 |
| 50 | 5189 | 3531 | 2815 | 2395 | 2112 | 1906 | 1746 | 1619 | 1514 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|-----|-----|-----|-----|-----|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 53 | 49 | 47 | 45 | 41 | 37 | 33 | 30 | 28 |
| 20 | 108 | 104 | 100 | 96 | 92 | 87 | 83 | 79 | 70 |
| 25 | 197 | 176 | 158 | 144 | 130 | 115 | 102 | 97 | 92 |
| 32 | 412 | 362 | 325 | 295 | 275 | 257 | 241 | 228 | 217 |
| 40 | 727 | 639 | 575 | 526 | 487 | 455 | 428 | 405 | 385 |
| 50 | 1426 | 1256 | 1132 | 1036 | 960 | 897 | 844 | 799 | 760 |

Natural Gas at 2.75 kPa with a 0.75 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 350 | 236 | 187 | 158 | 139 | 125 | 114 | 106 | 99 |
| 20 | 762 | 516 | 410 | 348 | 306 | 276 | 252 | 234 | 218 |
| 25 | 1390 | 944 | 752 | 639 | 563 | 507 | 464 | 430 | 402 |
| 32 | 2811 | 1915 | 1527 | 1299 | 1146 | 1034 | 947 | 878 | 821 |
| 40 | 4897 | 3343 | 2670 | 2274 | 2007 | 1812 | 1662 | 1541 | 1442 |
| 50 | 9478 | 6488 | 5189 | 4425 | 3909 | 3531 | 3240 | 3007 | 2815 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 93 | 81 | 73 | 66 | 60 | 56 | 53 | 51 | 50 |
| 20 | 199 | 180 | 162 | 148 | 137 | 128 | 120 | 113 | 108 |
| 25 | 378 | 333 | 299 | 274 | 253 | 237 | 223 | 211 | 200 |
| 32 | 774 | 681 | 614 | 562 | 520 | 486 | 458 | 433 | 412 |
| 40 | 1359 | 1197 | 1080 | 989 | 916 | 857 | 807 | 764 | 727 |
| 50 | 2654 | 2341 | 2112 | 1936 | 1795 | 1679 | 1582 | 1499 | 1426 |

Natural Gas at 2.75 kPa with a 1.5kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 516 | 350 | 278 | 236 | 208 | 187 | 171 | 158 | 148 |
| 20 | 1120 | 762 | 607 | 516 | 455 | 410 | 376 | 348 | 325 |
| 25 | 2038 | 1390 | 1109 | 944 | 833 | 752 | 689 | 639 | 597 |
| 32 | 4109 | 2811 | 2247 | 1915 | 1691 | 1527 | 1401 | 1299 | 1216 |
| 40 | 7143 | 4897 | 3919 | 3343 | 2954 | 2670 | 2450 | 2274 | 2129 |
| 50 | 13794 | 9478 | 7597 | 6488 | 5738 | 5189 | 4765 | 4425 | 4145 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 139 | 122 | 110 | 100 | 93 | 87 | 81 | 77 | 67 |
| 20 | 306 | 269 | 242 | 222 | 205 | 192 | 180 | 171 | 162 |
| 25 | 563 | 495 | 446 | 409 | 378 | 354 | 333 | 315 | 299 |
| 32 | 1146 | 1010 | 911 | 835 | 774 | 723 | 681 | 645 | 614 |
| 40 | 2007 | 1771 | 1598 | 1465 | 1359 | 1271 | 1197 | 1134 | 1080 |
| 50 | 3909 | 3452 | 3118 | 2860 | 2654 | 2484 | 2341 | 2218 | 2112 |

Natural Gas at 4.0 kPa with a 1.5kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 520 | 352 | 280 | 238 | 209 | 188 | 172 | 159 | 149 |
| 20 | 1128 | 767 | 611 | 520 | 458 | 413 | 378 | 350 | 328 |
| 25 | 2052 | 1399 | 1117 | 951 | 839 | 757 | 693 | 640 | 595 |
| 32 | 4136 | 2829 | 2261 | 1928 | 1702 | 1537 | 1410 | 1308 | 1224 |
| 40 | 7189 | 4929 | 3945 | 3365 | 2974 | 2688 | 2466 | 2289 | 2143 |
| 50 | 13883 | 9540 | 7646 | 6530 | 5776 | 5223 | 4796 | 4454 | 4172 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 140 | 123 | 111 | 101 | 93 | 87 | 82 | 77 | 70 |
| 20 | 308 | 271 | 244 | 223 | 207 | 193 | 182 | 172 | 163 |
| 25 | 556 | 499 | 449 | 411 | 381 | 356 | 335 | 317 | 302 |
| 32 | 1154 | 1017 | 917 | 840 | 779 | 728 | 686 | 649 | 618 |
| 40 | 2021 | 1783 | 1609 | 1475 | 1368 | 1280 | 1206 | 1142 | 1087 |
| 50 | 3935 | 3475 | 3138 | 2879 | 2671 | 2500 | 2357 | 2233 | 2126 |

LPG at 2.75 kPa with a 0.25 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 277 | 186 | 147 | 124 | 109 | 95 | 86 | 80 | 75 |
| 20 | 605 | 408 | 323 | 274 | 241 | 216 | 198 | 183 | 170 |
| 25 | 1107 | 749 | 594 | 504 | 444 | 399 | 365 | 338 | 316 |
| 32 | 2245 | 1523 | 1212 | 1030 | 907 | 817 | 748 | 693 | 643 |
| 40 | 4407 | 3001 | 2393 | 2036 | 1796 | 1620 | 1485 | 1377 | 1287 |
| 50 | 8546 | 5835 | 4660 | 3969 | 3504 | 3164 | 2901 | 2691 | 2518 |

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|------|------|------|------|------|------|------|------|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 71 | 64 | 61 | 58 | 64 | 58 | 58 | 53 | 49 |
| 20 | 160 | 141 | 126 | 113 | 102 | 93 | 86 | 81 | 77 |
| 25 | 297 | 261 | 234 | 214 | 198 | 185 | 174 | 164 | 156 |
| 32 | 610 | 536 | 483 | 441 | 408 | 381 | 359 | 339 | 322 |
| 40 | 1213 | 1068 | 962 | 881 | 816 | 762 | 717 | 679 | 646 |
| 50 | 2373 | 2092 | 1886 | 1728 | 1601 | 1497 | 1410 | 1335 | 1270 |

LPG at 70 kPa with a 10 kPa pressure drop

| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 16 | 2775 | 1917 | 1540 | 1318 | 1310 | 1056 | 970 | 902 | 845 |
| 20 | 5947 | 4119 | 3316 | 2841 | 2518 | 2281 | 2097 | 1950 | 1828 |
| 25 | 10723 | 7442 | 5998 | 5143 | 4562 | 4135 | 3805 | 3539 | 3319 |
| 32 | 21410 | 14888 | 12017 | 10313 | 9155 | 8304 | 7644 | 7114 | 6676 |
| 40 | 36960 | 25740 | 20795 | 17859 | 15863 | 14395 | 13257 | 12342 | 11587 |
| 50 | 70825 | 49402 | 39953 | 34341 | 30523 | 27712 | 25534 | 23782 | 22334 |

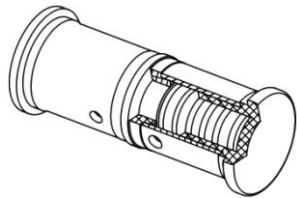
| Nom Size | Pipe Run Length (m) | | | | | | | | |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 16 | 797 | 704 | 636 | 584 | 542 | 507 | 478 | 453 | 431 |
| 20 | 1726 | 1527 | 1381 | 1268 | 1178 | 1103 | 1040 | 986 | 940 |
| 25 | 3134 | 2775 | 2511 | 2308 | 2144 | 2009 | 1896 | 1798 | 1714 |
| 32 | 6307 | 5589 | 5061 | 4654 | 4326 | 4056 | 3828 | 3633 | 3463 |
| 40 | 10949 | 9708 | 8797 | 8092 | 7526 | 7059 | 6665 | 6326 | 6033 |
| 50 | 21111 | 18733 | 16985 | 15631 | 14544 | 13646 | 12889 | 12240 | 11674 |

Further information regarding pipe sizing methods is available in AS 5601 the Australian Standard for Gas Installations.

Ezi Pex Gas™ Fittings

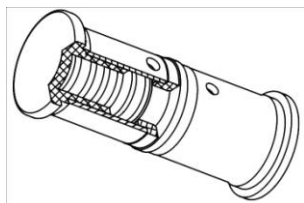
| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

#1 STRAIGHT COUPLING



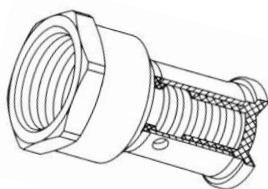
| | |
|------|--------|
| DN16 | 435096 |
| DN20 | 435097 |
| DN25 | 435098 |
| DN32 | 435099 |
| DN40 | 435100 |
| DN50 | 435101 |

#1R REDUCING COUPLING



| | |
|---------|---------|
| DN20-16 | 435102 |
| DN25-16 | 435103 |
| DN25-20 | 435104 |
| DN32-20 | 4351041 |
| DN32-25 | 435105 |
| DN40-20 | 4351001 |
| DN40-25 | 4351002 |
| DN40-32 | 4351003 |
| DN50-25 | 4351011 |
| DN50-32 | 4351012 |
| DN50-40 | 4351013 |

#2 CONNECTOR

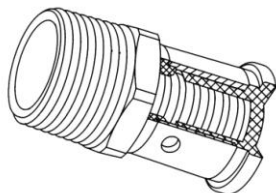


| | |
|-------------|--------|
| DN16X1/2''F | 435149 |
| DN16X3/4''F | 435144 |
| DN20X1/2''F | 435150 |
| DN20X3/4''F | 435151 |
| DN25X3/4''F | 435301 |
| DN25X1''F | 435305 |
| DN32X1''F | 435306 |

Ezi Pex Gas™ Fittings

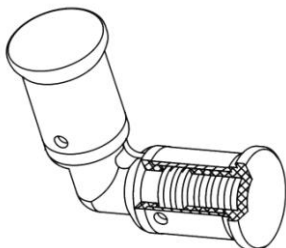
| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

#3 CONNECTOR



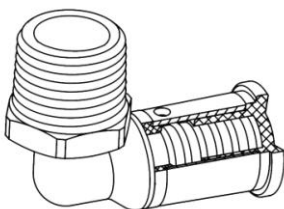
| | |
|---------------|---------|
| DN16X1/2''M | 435154 |
| DN16X3/4''M | 435152 |
| DN20X1/2''M | 435155 |
| DN20X3/4''M | 435156 |
| DN25X1/2''M | 435157 |
| DN25X3/4''M | 435158 |
| DN25X1''M | 435159 |
| DN32X1''M | 435161 |
| DN32X1 1/4''M | 4351611 |
| DN40X1 1/4''M | 4351622 |
| DN40X1 1/2''M | 4351623 |
| DN50X1 1/2''M | 4351618 |
| DN50X2''M | 4351624 |

#12 ELBOW



| | |
|------|--------|
| DN16 | 435108 |
| DN20 | 435109 |
| DN25 | 435110 |
| DN32 | 435111 |
| DN40 | 435112 |
| DN50 | 435113 |

#13 ELBOW

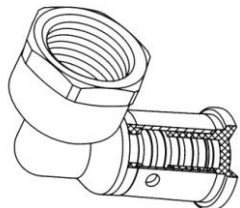


| | |
|-------------|---------|
| DN16X1/2''M | 435163 |
| DN20X1/2''M | 435164 |
| DN20X3/4''M | 435165 |
| DN25X3/4''M | 435166 |
| DN25X1''M | 435167 |
| DN32X1''M | 4351672 |
| DN40X1''M | 4351674 |
| DN50X1''M | 4351675 |

Ezi Pex Gas™ Fittings

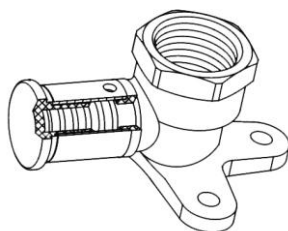
| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

#14 ELBOW



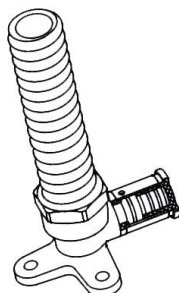
| | |
|-------------|---------|
| DN16X1/2" F | 435169 |
| DN20X1/2" F | 435170 |
| DN20X3/4" F | 435171 |
| DN25X3/4" F | 4351711 |
| DN32X1" F | 4351712 |
| DN32X3/4" F | 4351714 |

#15BP ELBOW



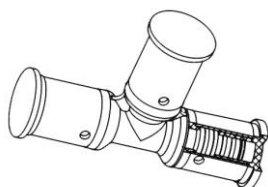
| | |
|-------------|---------|
| DN16X1/2" F | 435178 |
| DN20X1/2" F | 4351770 |
| DN20X3/4" F | 435177 |

#19BP ELBOW



| | |
|--------------------------|---------|
| DN16X1/2" M - 65mm Long | 435179 |
| DN16X1/2" M - 90mm Long | 435176 |
| DN16X1/2" M - 200mm Long | 435174 |
| DN20X1/2" M - 95mm Long | 435173 |
| DN20X1/2" M - 200mm Long | 4353022 |
| DN20x3/4" M - 95mm Long | 435302 |

#24 TEE EQUAL

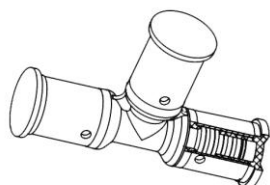


| | |
|------|--------|
| DN16 | 435114 |
| DN20 | 435115 |
| DN25 | 435116 |
| DN32 | 435117 |
| DN40 | 435118 |
| DN50 | 435119 |

Ezi Pex Gas™ Fittings

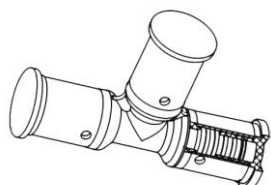
| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

#25 TEE RED. BRANCH



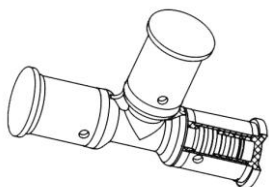
| | |
|------------|---------|
| DN20X20X16 | 435120 |
| DN25X25X16 | 4353021 |
| DN25X25X20 | 435122 |
| DN32X32X20 | 4351222 |
| DN32X32X25 | 435123 |
| DN40X40X25 | 4351224 |
| DN40X40X32 | 4351225 |
| DN50X50X32 | 4351226 |
| DN50X50X40 | 4351227 |

#26 TEE RED. END



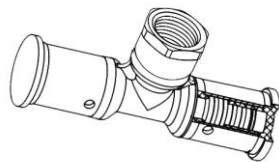
| | |
|------------|---------|
| DN20X16X20 | 435126 |
| DN25X20X25 | 435128 |
| DN32X25X32 | 4351283 |
| DN40X32X40 | 435129 |
| DN50X40X50 | 4351295 |
| DN50X32X50 | 4351296 |

#27 TEE RED. END & BRANCH



| | |
|------------|---------|
| DN20X16X16 | 435132 |
| DN25X20X20 | 435136 |
| DN32X25X25 | 435137 |
| DN40X32X32 | 4351228 |
| DN50X40X40 | 4351375 |

#30 TEE FI CENTRE

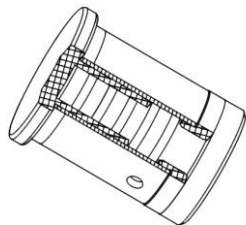


| | |
|------------------|--------|
| DN20X20X/4''F | 435140 |
| DN25X25X1''F | 435141 |
| DN32X32X1 1/4''F | 435142 |

Ezi Pex Gas™ Fittings

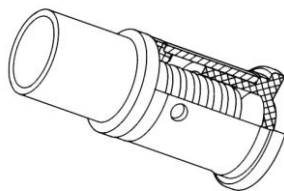
| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

#61 STOPPER



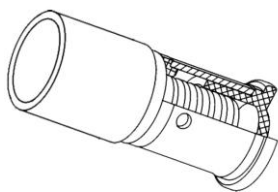
| | |
|------|--------|
| DN16 | 435204 |
| DN20 | 435205 |
| DN25 | 435206 |
| DN32 | 435207 |
| DN40 | 435208 |
| DN50 | 435209 |

CONNECTING BARB x CU SPIGOT



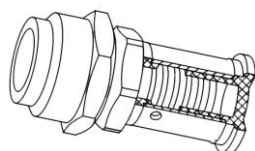
| | |
|-----------|---------|
| DN16 | 435145 |
| DN20X1/2" | 4351452 |
| DN20 | 435146 |
| DN25X3/4" | 4351462 |
| DN25 | 435147 |
| DN32 | 435148 |

CONNECTING BARB x CU SOCKET



| | |
|-------------|--------|
| DN16 | 435215 |
| DN20 | 435216 |
| DN25 | 435217 |
| DN32 | 435218 |
| DN20X1/2" | 435225 |
| DN25X3/4" | 435226 |
| DN32X1" | 435227 |
| DN40X1 1/2" | 435228 |
| DN50X2" | 435229 |

FLARED COPPER COMPRESSION UNION

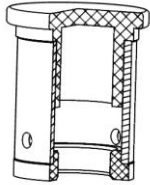


| | |
|-------------|---------|
| DN16X1/2" | 435094 |
| DN20X3/4" | 435095 |
| DN25X1" | 4350951 |
| DN32X1 1/4" | 4350952 |
| DN40X1 1/2" | 4350953 |
| DN50X2" | 4350954 |

Ezi Pex Gas™ Fittings

| PRODUCT DESCRIPTION | SIZE | PART # |
|---------------------|------|--------|
|---------------------|------|--------|

CRIMP RING ASSY ONLY



| | |
|------|---------|
| DN16 | 435090 |
| DN20 | 435091 |
| DN25 | 435092 |
| DN32 | 435093 |
| DN40 | 4350931 |
| DN50 | 4350932 |

Ezi Pex Gas Tools



REMS Mini Press ACC- For Ezi Pex Gas™ sizes DN16 to DN50

Super light, super small, super handy. With automatic circuit control. Secure crimping in seconds. Automatic locking of pressing tongs. Assortment of REMS pressing tongs for all Ezi Pex™ systems.



REMS Power Press ACC- For Ezi Pex Gas™ sizes DN16 to DN50

Compact, robust, job site-proven. Small in size, slender Design, Works anywhere, free-hand, overhead, in confined areas. Ideal Weight distribution for single handed operation. Automatic locking of pressing tongs. Assortment of REMS pressing tongs for all Ezi Pex™ systems



Manual Crimp Tool - For Ezi Pex Gas™ sizes DN16 to DN32

For alternative tools, see your local Ezi Pex Gas™ distributor...or visit www.ezipex.com.au

Disclaimer

Information provided in this publication is intended to be of a general nature only and is provided as a guide. Installation requirements may vary across different product applications or in different jurisdictions. Information provided does not in any way override that contained in the relevant Australian Standards for either product or installation practices



25 YEAR WARRANTY

The **Ezi Pex Gas™** system carries a 25 year warranty against defects in materials or manufacturing of fittings produced under the **Ezi Pex Gas™** name. This warranty is restricted by the following clauses:

- i. Installation must have been carried out by a licensed plumber / gas fitter.
- ii. Installation must be carried out in full accordance with the **Ezi Pex Gas™** installation instructions and pipe sizing guidelines.
- iii. Installation must be in full accordance with Gas installation code AS 5601, and any relevant local and national plumbing codes and standards.

The Plumbing Plus merchant from whom your purchase **Ezi Pex Gas™** product supports the warranty on this product and as such may request suitable information or evidence from the installer to support any warranty claim. The manufacturer concerned also reserves the right to engage a nominated outside agent of its own choice to assess any faulty product before honouring any warranty claim.

“Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.”

Making life EZI... for Plumbers

