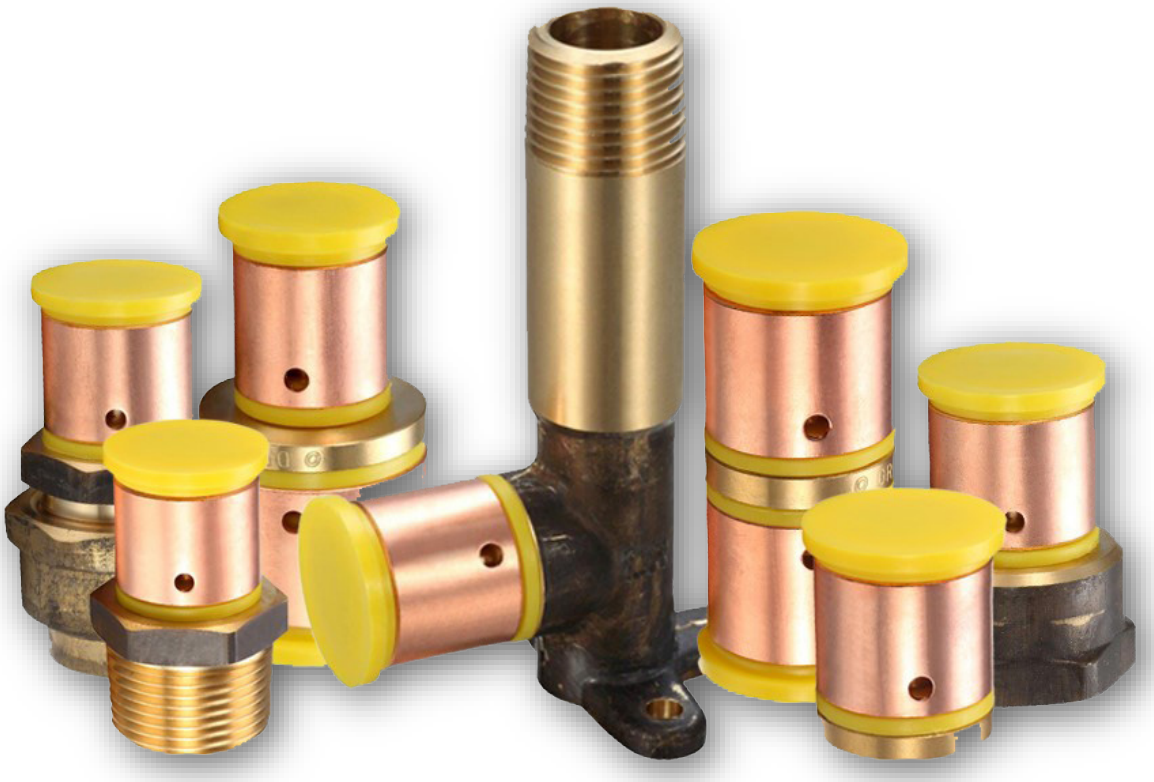
TECHNICAL MANUAL

EZIPEX GAS™

WATER & GAS SOLUTIONS



Making life EZI...for Gasfitters


EZI
PEX GAS™
WATER & GAS SOLUTIONS

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Making life EZI...for Gasfitters

Overview

The EZIPEX Gas™ system was 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.

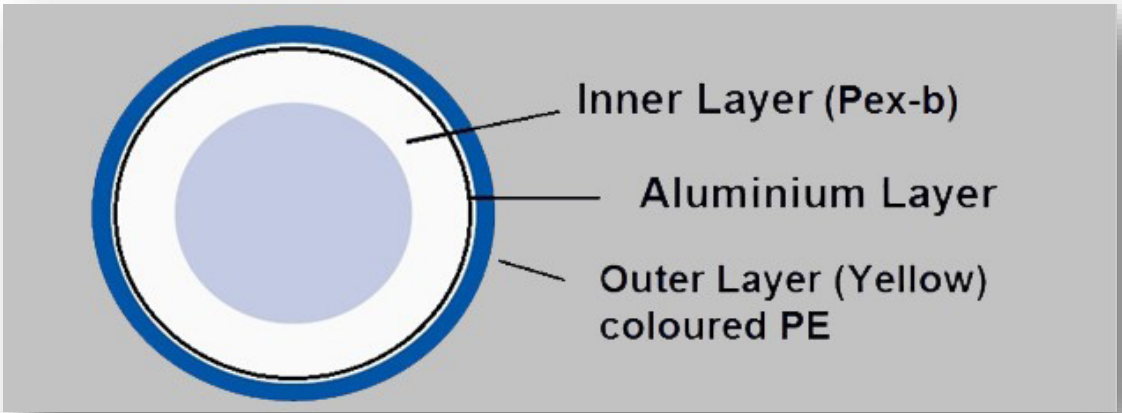
EZIPEX Gas™ joins EZIPEX Slide™ & EZIPEX Crimp™ to provide a total solution for all water and gas applications.

The EZIPEX Gas™ system uses a premium quality PE-AL-PEX 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 EZIPEX Gas™ installation guidelines, the relevant Australian standards and any additional local authority requirements. When installed subject to the above conditions the EZIPEX Gas™ system will provide years of trouble free service.

Pipe

EZIPEX Gas™ pipe is a high-quality composite pipe. It has three separate layers bonded to form a lightweight, flexible and extremely resilient pipe. The inside layer is a plain Pex-b crosslinked polyethylene (PEX). This is surrounded by a layer of aluminium (AL) which in turn is encased with an outer layer of yellow coloured polyethylene (PE).



EZIPEX 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. EZIPEX Gas™ pipe sizes DN 40 and DN 50 are only available in straight lengths.

EZIPEX GAS™ Standard Supply Units

Nom Size	Straight Lengths (m)	Coils (m)
16mm	5	50
20mm	5	50
20mm (in conduit)		50
25mm	5	50
32mm	5	25
40mm	5	
50mm	5	

EZIPEX 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 EZIPEX Gas™ pipe provides users with many advantages over traditional piping materials.

Due to its smooth internal surface, it produces 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.

EZIPEX Gas™ pipe is manufactured and certified to AS/NZS 4176.

Fittings

EZIPEX Gas™ fitting bodies are manufactured from DZR brass. The crimp rings are of a high-quality copper construction to provide exceptional resistance to corrosion. EZIPEX 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. EZIPEX 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.

EZIPEX Gas™ fittings are manufactured and certified to AS/NZS 4176.

EZIPEX 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

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

Heat exposure

EZIPEX 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 EZIPEX Gas™ joints.

Because the EZIPEX Gas™ pipe has a PE outer layer, its use is limited to applications with an ambient temperature of 60°C and below.

Thermal expansion

EZIPEX Gas™ pipe has a thermal expansion rate of approximately 1.5mm per meter of pipe per 10˚C in temperature. This expansion or contraction should be taken into consideration for all installations and the appropriate allowances made in pipe layout or fixing positions. 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, and corrosive agents.

Where EZIPEX 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.

Both during and after installation, the product should not be damaged by grouting or stress caused by concrete stress cracks or any other external force.

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.

EZIPEX Gas™ pipe has limits as to the minimum radius that it may be bent. 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 this case the minimum radius is as indicated on the following 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/NZS 5601, fixing spacing should be observed for both horizontal and vertical pipe runs as outlined in the table below.

Clipping should be by way of a recognised fixing which complies with the requirements AS/NZS 5601. This excludes things such as bent-over nails, tie wire, pierced metal strapping etc. It is recommended that EZIPEX Gas™ pipe is installed using a PEX Clip to ensure secure fastening of the pipe in a manner that will not exert stress on the fittings caused by thermal expansion and contraction of the pipe.

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

EZIPEX Gas™ pipe is not to be used as an appliance connection in accordance with AS/NZS 5601 (restriction on appliance connections).

Underground

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

Additional precautions, such as wrapping of joints, should be taken in areas where aggressive soil conditions are known to exist or where it may be a requirement of the local certifying authority. The use of “Blue Metal” or “Crusher Dust” as a backfill material is to be avoided. When being buried beneath a building, the pipe must be free of joints.

Chases, In-Slab, Under-floor

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

UV Exposure

All EZIPEX Gas™ pipe must be protected against exposure to UV radiation once installed. Any exposed pipework is to be sleeved, wrapped or protected by some other means to ensure that the installation satisfies the relevant authorities and/ or the local authorities’ interpretation of the Australian Gas Installation standard. Refer to AS/NZS 5601 (protection against UV degradation).

Future Extension

It is a requirement of AZ/NZS 5601 to allow for future extension of the consumer’s 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, or

b). A #30 FI tee terminated with a brass plug screwed into the threaded branch.

Connection to other materials

EZIPEX 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 EZIPEX Gas™ system is not suitable for installation in caravans or marine craft. Its use in these situations may not comply with the relevant Australian standards.

Testing

All testing should be undertaken in accordance with AS/NZS 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.

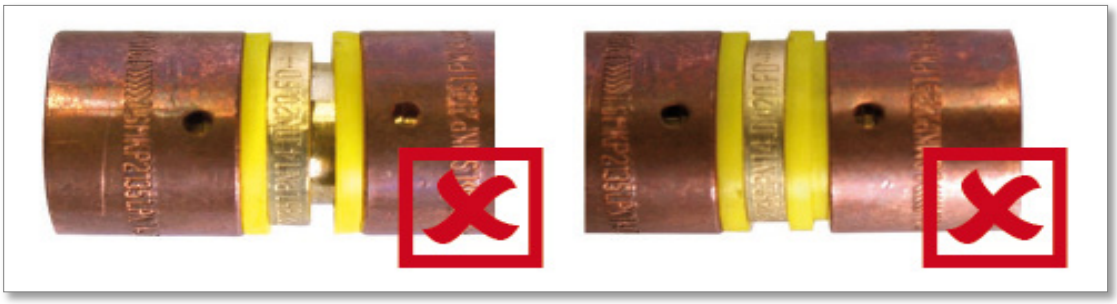
2. Round Pipe

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 holes 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.

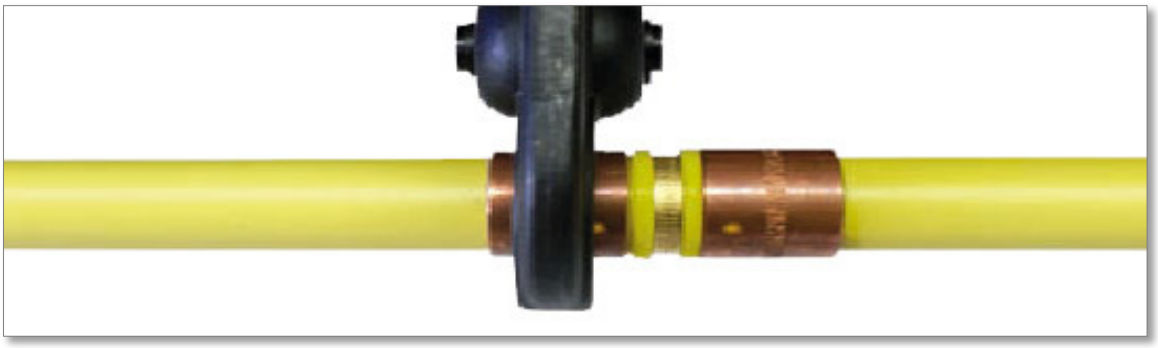
5. Crimp tool Positioning

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.

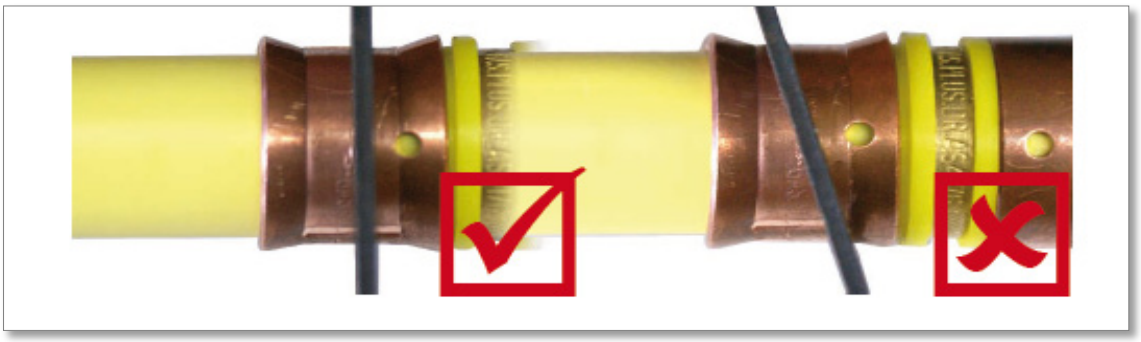
6. Crimp

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/NZS 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 sub-standard installations where appliances have been “starved” of gas and therefore have not functioned properly. Failure to correctly size systems could ultimately lead to voiding of the manufacturer’s warranty.

Information required to complete the 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.

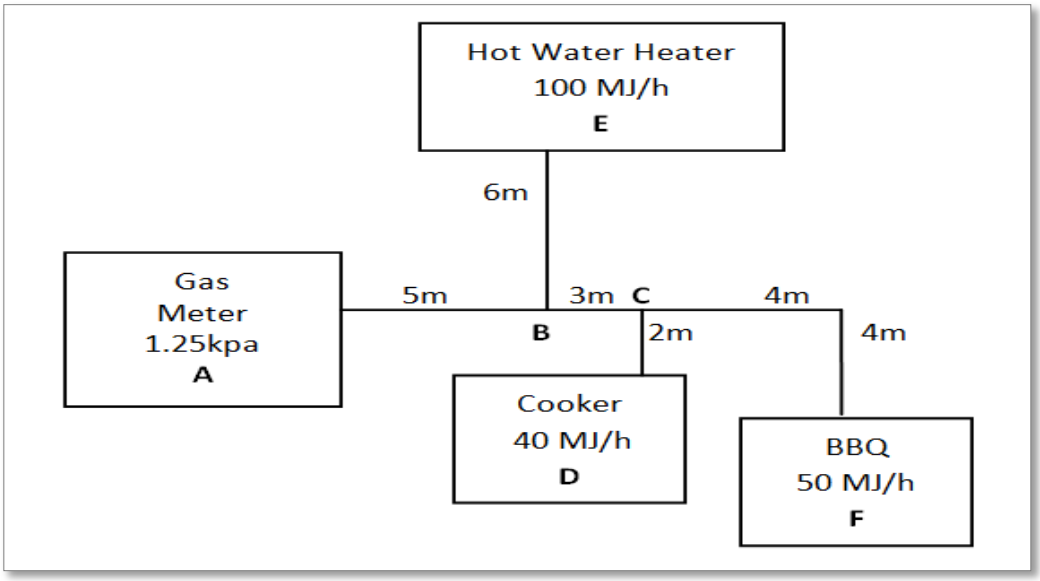
Method

1. Sketch the proposed piping layout including positions of all appliances.

a) Record all pipe lengths on the 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 = 5m + 3m + 4m + 4m = 16m

3. Add an allowance for the 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 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

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

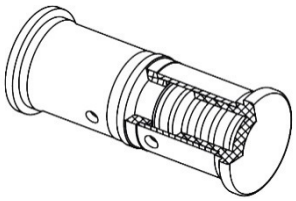
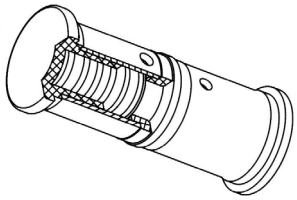
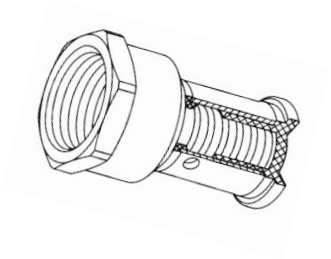
LPG at 70 kPa with a 10 kPa pressure drop

	Pipe Run Length (m)								
Nom Size	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

	Pipe Run Length (m)								
Nom Size	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

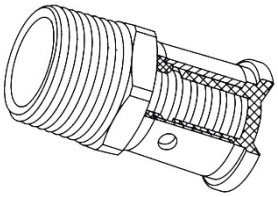
Further information regarding pipe sizing methods is available in AS/NZS 5601, the Australian Standard for Gas Installations.

EZIPEX Gas ™ Fittings

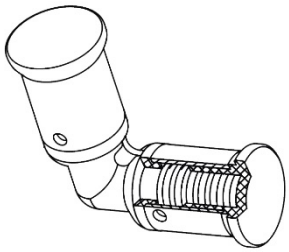
PRODUCT DESCRIPTION	SIZE	PART #
#1 STRAIGHT COUPLING	DN16	435096
	DN20	435097
	DN25	435098
	DN32	435099
	DN40	435100
	DN50	435101
#1R REDUCING COUPLING	DN20 X DN16	435102
	DN25 X DN16	435103
	DN25 X DN20	435104
	DN32 X DN20	4351041
	DN32 X DN25	435105
	DN40 X DN20	4351001
	DN40 X DN25	4351002
	DN40 X DN32	4351003
	DN50 X DN25	4351011
	DN50 X DN32	4351012
	DN50 X DN40	4351013
#2 CONNECTOR	DN16 X 15BSPF	435149
	DN16 X 20BSPF	435144
	DN20 X 15BSPF	435150
	DN20 X 20BSPF	435151
	DN25 X 20BSPF	435301
	DN25 X 25BSPF	435305
	DN32 X 25BSPF	435306

EZIPEX Gas ™ Fittings

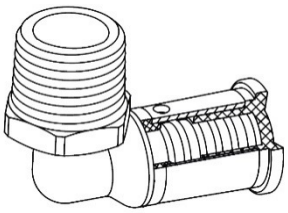
PRODUCT DESCRIPTION	SIZE	PART #
#3 CONNECTOR	DN16 X 15BSPM	435154
	DN16 X 20BSPM	435152
	DN20 X 15BSPM	435155
	DN20 X 20BSPM	435156
	DN25 X 15BSPM	435157
	DN25 X 20BSPM	435158
	DN25 X 25BSPM	435159
	DN32 X 25BSPM	435161
	DN32 X 32BSPM	4351611
	DN40 X 32BSPM	4351622
	DN40 X 40BSPM	4351623
	DN50 X 40BSPM	4351618
	DN50 X 50BSPM	4351624



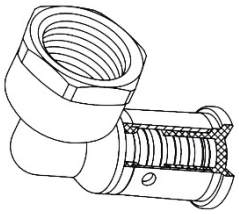
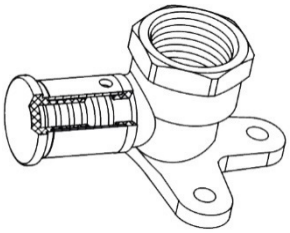
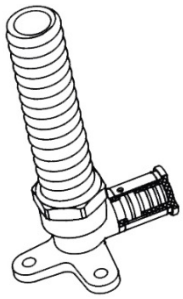
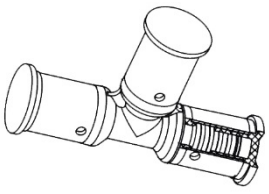
#12 ELBOW	DN16	435108
	DN20	435109
	DN25	435110
	DN32	435111
	DN40	435112
	DN50	435113



#13 ELBOW	DN16 X 15BSPM	435163
	DN20 X 15BSPM	435164
	DN20 X 20BSPM	435165
	DN25 X 20BSPM	435166
	DN25 X 25BSPM	435167
	DN32 X 25BSPM	4351672
	DN40 X 25BSPM	4351674
	DN50 X 25BSPM	4351675

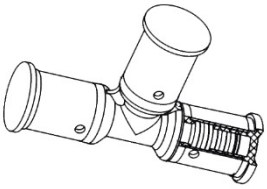


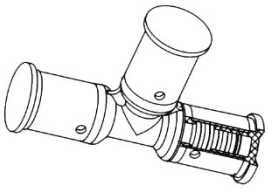
EZIPEX Gas ™ Fittings

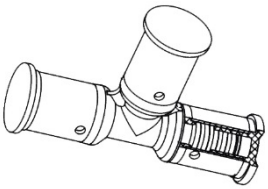
PRODUCT DESCRIPTION	SIZE	PART #
#14 ELBOW	DN16 X 15BSPF	435169
	DN20 X 15BSPF	435170
	DN20 X 20BSPF	435171
	DN25 X 20BSPF	4351711
	DN32 X 25BSPF	4351712
	DN32 X 20BSPF	4351714
#15BP ELBOW	DN16 X 15BSPF	435178
	DN20 X 15BSPF	4351770
	DN20 X 20BSPF	435177
#19BP ELBOW	DN16 X 15BSPM X 65mm Long	435179
	DN16 X 15BSPM X 90mm Long	435176
	DN16 X 15BSPM X 150mm Long	435175
	DN16 X 15BSPM X 200mm Long	435174
	DN20 X 15BSPM X 95mm Long	435173
	DN20 X 15BSPM X 200mm Long	4353022
	DN20 X 20BSPM X 95mm Long	435302
	DN20 X 20BSPM X 200mm Long	4353021
	DN32 X 25BSPM X 250mm Long	4353023B
#24 TEE EQUAL	DN16	435114
	DN20	435115
	DN25	435116
	DN32	435117
	DN40	435118
	DN50	435119

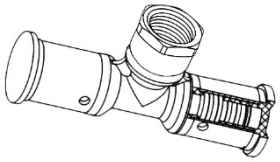
EZIPEX Gas ™ Fittings

PRODUCT DESCRIPTION	SIZE	PART #
#25 TEE RED. BRANCH	DN20 X DN20 X DN16	435120
	DN25 X DN25 X DN20	435122
	DN32 X DN32 X DN20	4351222
	DN32 X DN32 X DN25	435123
	DN40 X DN40 X DN25	4351224
	DN40 X DN40 X DN32	4351225
	DN50 X DN50 X DN32	4351226
	DN50 X DN50 X DN40	4351227
#26 TEE RED. END	DN20 X DN16 X DN20	435126
	DN25 X DN20 X DN25	435128
	DN32 X DN25 X DN32	4351283
	DN40 X DN32 X DN40	435129
	DN50 X DN40 X DN50	4351295
	DN50 X DN32 X DN50	4351296
#27 TEE RED. END & BRANCH	DN20 X DN16 X DN16	435132
	DN25 X DN20 X DN20	435136
	DN32 X DN25 X DN25	435137
	DN40 X DN32 X DN32	4351228
	DN50 X DN40 X DN40	4351375
#30 TEE FI CENTRE	DN20 X DN20 X 20BSPF	435140
	DN25 X DN25 X 25BSPF	435141
	DN32 X DN32 X 32BSPF	435142

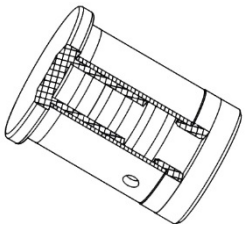
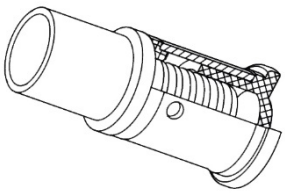
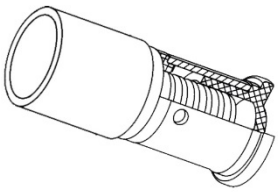
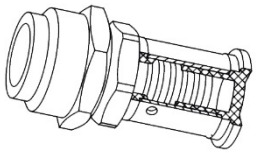






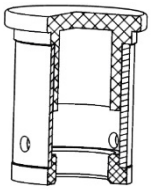


EZIPEX Gas ™ Fittings

PRODUCT DESCRIPTION	SIZE	PART #
#61 STOPPER 	DN16	435204
	DN20	435205
	DN25	435206
	DN32	435207
	DN40	435208
	DN50	435209
CONNECTING BARB x CU SPIGOT 	DN16 X 15CU	435145
	DN20 X 15CU	4351452
	DN20 X 20CU	435146
	DN25 X 20CU	4351462
	DN25 X 25CU	435147
	DN32 X 32CU	435148
CONNECTING BARB x CU SOCKET 	DN16 X 15CU	435215
	DN20 X 15CU	435225
	DN20 X 20CU	435216
	DN25 X 20CU	435226
	DN25 X 25CU	435217
	DN32 X 25CU	435227
	DN32 X 32CU	435218
	DN40 X 40CU	435228
	DN50 X 50CU	435229
FLARED COPPER COMPRESSION UNION 	DN16 X 15FL	435094
	DN20 X 20FL	435095
	DN25 X 25FL	4350951
	DN32 X 32FL	4350952
	DN40 X 40FL	4350953
	DN50 X 50FL	4350954

EZIPEX Gas ™ Fittings

PRODUCT DESCRIPTION	SIZE	PART #
CRIMP RING ASSY ONLY	DN16	435090R
	DN20	435091R
	DN25	435092R
	DN32	435093R
	DN40	4350931R
	DN50	4350932R



EZIPEX Gas Tools

Rems Mini Press ACC- For EZIPEX 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 EZIPEX ™ systems.

Rems Power Press ACC- For EZIPEX 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 EZIPEX ™ systems

Manual Crimp Tool - For EZIPEX Gas™ sizes
DN16 to DN32
EZIPEX Gas™ & EZIPEX Crimp Water™ share the same size and profile tongs/crimping tools – substantially reducing your tooling outlay

For alternative tools, see your local* EZIPEX *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.

Notes

Notes

EZIPEX™ WARRANTY

EZIPEX GAS™
WATER & GAS SOLUTIONS

25 Year Warranty

This product is supplied with a 25-year warranty against any manufacturing defects. The period of the Warranty commences on the date of sale and ends on the anniversary of the date of sale. Any defective product will be repaired or replaced free of charge.

Warranty Conditions

- Installation must have been carried out by a licensed plumber and gasfitter.
- Failure is due to a fault in the manufacture of the product.
- Installation of the product has been in accordance with the installation instructions as per the current (at time of installation) EZIPEX™ Technical Manual.
- Installation must be in full accordance with the relevant local and National Plumbing codes and appropriate Australian Standards (AS/NZS 5601).
- The system in which the product is installed must not be operated at temperatures and or pressures that exceed the printed rating on the appropriate specification sheet.
- This warranty does not extend to failure or defect caused by normal wear and tear, mechanical overload, paint, adhesives, abrasion, corrosion or over pressurization.
- No liability will be accepted for loss of profits, loss of revenue, loss of use, loss of contracts, loss of production or any other consequential loss or damage.

Claim Procedure

- This Warranty is offered by the manufacturers of the EZIPEX™ pipe and fittings and the Plumbing Plus Merchant (**Merchant**) from whom you purchased the product. The Merchant involved should be notified of any potential claim immediately. Proof of purchase is required to validate the warranty period and if this is not available, the warranty period shall default to the date of manufacture for each product. The product needs to be inspected by an authorized representative of the manufacturer within 30 days of the alleged product failure.
- To be entitled to claim under this Warranty, you must send a Warranty Claim Form to the Merchant.
- Should product be returned, a sufficient length of pipe must be supplied so that all the pipe markings are visible. Should a fitting be returned, it must be supplied with the pipe still attached with sufficient length of pipe to show the markings.
- If the Merchant needs to return the goods to the manufacturer for assessment or repair, the Merchant will arrange delivery and bear the associated costs.
- The manufacturer and the Merchant also reserve the right to engage a nominated outside agent to assess any faulty product before honouring any warranty claim.
- Once a reasonable pre-approved amount is confirmed in writing by the manufacturer, repairs can begin.
- Any repairs or replacement undertaken without the manufacturer's or the Merchant's approval will not be covered by this Warranty.

Exclusions

Plumbing Plus BKL Pty. Ltd. is not a party to this Warranty Agreement.

Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law (**ACL**). For instance, you may be entitled to a replacement or refund or entitled to have the goods repaired or replaced if they are defective.

WaterMark™

Making life EZI... for Gasfitters

EZIPEX GAS™

WATER & GAS SOLUTIONS

TECHNICAL MANUAL