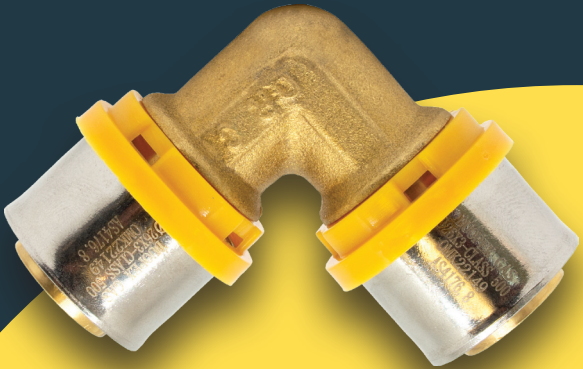


DuoPEX Gas Manual



The DuoPEX Gas pipe and fitting system is a revolutionary alternative for the professional plumber and gasfitter makes any job quicker and easier.

The DuoPEX Gas system is designed as a consumer system for gas installations in accordance with Australian Standard (Gas Installations) AS/NZS 5601.

All the limiting conditions and the requirements of AS/NZS 5601, particularly sections covering Materials and Components, Installing Consumer Piping, and Installing Appliances should be strictly adhered to.

Advantages of the DuoPEX Gas System

1. Form stability during installation, for an example in a curve
2. Low thermal conductivity level
3. Light weight during transport and installation
4. Thermal expansion is lower than that of other pipe
5. Lower pressure loss thanks to the smooth inner layer
6. Impermeability to gases in general

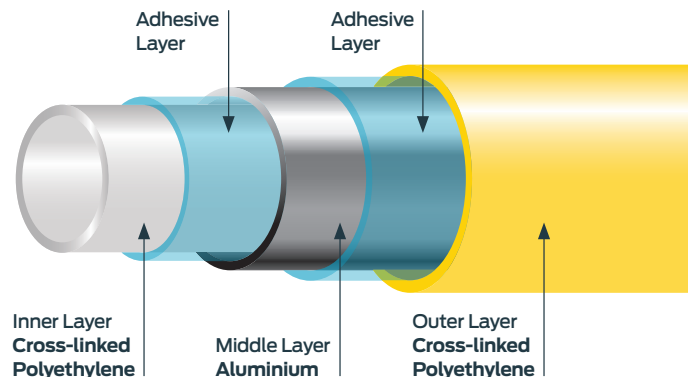


DuoPEX Gas pipe has been tested and certified in accordance with AS 4176.

DuoPEX Gas Pipe

DuoPEX Gas pipe is a multi-layer or composite pipe system. DuoPEX Gas pipe consists of:

1. An inner layer of cross-linked polyethylene (PEX)
2. An aluminium layer
3. An outer layer of cross-linked polyethylene (PEX)
4. Inner and outer adhesive layers



The system is designed to use the same battery tools and DuoPEX jaws that are used on the DuoPEX Water system 16mm to 63mm.

Installation should be carried out in accordance with accepted plumbing practices and instructions provided in this manual. However, the installer should also be aware of local authority codes and by-laws relevant to plumbing, which take precedence over these guidelines in any area where they vary.

Forming Stability

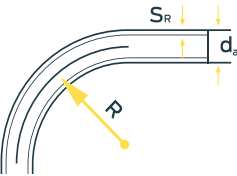
After bending, the DuoPEX Gas pipe will remain stable, due to the aluminium layer. In many cases, thanks to this characteristic, it is possible to prefabricate assemblies before delivery to the site.

Minimum Bending Radii

Bending can be made manually, however if tighter bends are required, bending tools may be used.

Nominal diameter (da x s)	Bending radius (R) without aid	Bending radius (R) with bending spring	Bending radius (R) with bending tool
16 x 2.0	5 x da	2.0 x da	
20 x 2.0	5 x da	3.0 x da	
26 x 3.0			3.6 x da
32 x 3.0			3.6 x da
40 x 3.5			4.0 x da
50 x 4.0			4.0 x da
63 x 4.5			4.5 x da

Note: All measurements in mm unless otherwise stated.



The bending process on DuoPEX Gas pipe must not result in either indentations or deformations on the inside of the pipe bend. Damage to the PEX layer of the DuoPEX Gas pipe may effect the integrity of the system.



Do not use pipes that have kinks, cuts, deep scratches, squashed ends, imperfections or have been in contact with contaminating substances. Such pipe should be cut out and replaced, as these conditions may affect the integrity of the system.

Data Sheet

Dimension	16x2	20x2	26x3
Coefficient of Linear Thermal Expansion in mm/m x K	0.026	0.026	0.026
Thermal Conductivity in W/M x K	0.45	0.45	0.45
Water contents in l/m	0.113	0.201	0.314
Radius of curvature w/o aids mm	5 x d	5 x d	–
Radius of curvature w/ bending spring mm	2 x d	3 x d	–
Radius of curvature w/ bending tool mm	–	–	3.6 x d
Pipe roughness K mm	0.007	0.007	0.007
Coil Length	50 100	50 100	50
Coil Dimensions mm inside x outside x width	610 x 740 x 115 510 x 740 x 120	550 x 780 x 190	550 x 780 x 190
Weight per coil kg	5.5	15	15
Metres per length	5	5	5

Dimension	32x3	40x3.5	50x4	63x4.5
Coefficient of Linear Thermal Expansion in mm/m x K	0.026	0.026	0.026	0.026
Thermal Conductivity in W/M x K	0.45	0.45	0.45	0.45
Water contents in l/m	0.531	0.855	1.385	2.29
Radius of curvature w/o aids mm	–	–	–	–
Radius of curvature w/ bending spring mm	–	–	–	–
Radius of curvature w/ bending tool mm	3.6 x d	4.0 x d	4.0 x d	4.5 x d
Pipe roughness K mm	0.007	0.007	0.007	0.007
Coil Length	–	–	–	–
Coil Dimensions mm inside x outside x width	940 x 1200 x 150	–	–	–
Weight per coil kg	21			
Metres per length	5	5	5	5

Spacing of Supporting Devices

Pipe Dimension	Maximum Pipe Clip Clearance
16 x 2.0	1000
20 x 2.0	1250
26 x 3.0	1500
32 x 3.0	2000
40 x 3.5	2000
50 x 4.0	2500
63 x 4.5	2500

Note: All measurements in mm unless otherwise stated.
See also AS/NZS 5601. Synthetic clips must be used.

Thermal Changes in Length

Heating and cooling cause pipe length changes.

The coefficient of expansion of DuoPEX Gas composite pipes is 0.026 mm/m x K.

For further information on Linear Expansion Tables and other expansion bend examples contact your DuoPEX representative.

Example Temperature	
Differential ΔT	50 K
Pipe length L	5 m
Coefficient of expansion a	0.026 mm/m.K
Linear expansion ΔL	6.5 mm
ΔL	$= a \times L \times \Delta T$ $= 0.026 \text{ mm/m.K} \times 5 \text{ m} \times 50 \text{ K}$ $= 6.5 \text{ mm}$

Thermal conductivity = 0.45 W/M x K

Fire and Excessive Heat

- Keep DuoPEX Gas pipe a minimum of 500mm from sources of high heat, PEX such as heating appliances and flues from heating appliances
- Keep DuoPEX Gas pipe 1500mm from slow combustion type stoves and flues used to heat hot water or cooking (wet back type)
- Leave 300mm minimum space between DuoPEX Gas pipe and light fittings or other electrical fixtures
- DuoPEX Gas pipe should not be positioned within 150mm of gas or central heating vents or flues
- Where fire collars or the like are required, installers should contact the manufacturer of those products to ensure they have certification for MLP construction

UV Resistance

DuoPEX Gas pipes must be protected against direct sunlight or UV radiation. Consequently, DuoPEX Gas pipes must be covered during transport or storage if they have been removed from their original packaging. When DuoPEX Gas pipes are used in a protective sleeve, adequate UV protection is assured during the installation phase. Furthermore, jackets made from insulating material can undertake the function of UV protection with DuoPEX Gas pipes. See DuoPEX Gas product list in this manual for appropriate sleeving.



It is best practice to ensure that piping is installed out of direct sunlight – protected or not protected.

Chemical resistance

The chemical properties of polyethylene are significantly improved by cross-linking. Multi-layer pipe with cross-linked polyethylene has been approved for use in AS/NZS 5601. This includes Natural Gas and LPG. For specific gases other than these, please contact your DuoPEX representative.

- DuoPEX Gas pipes are resistant to the following media:
- Concrete, plaster, mortar and cement
 - Disinfectants and cleaning agents according to DVGW worksheet W 291 and DIN 2000
 - All natural potable water constituents
 - Corrosion – protection agents according to DIN 1988 Part 4

DuoPEX Gas pipes must be protected against:

- Direct contact with bitumen or bitumen strips
- Greases, solvents and oils
- Contaminated areas as defined by AS/NZS 5601 and AS/NZS 3500

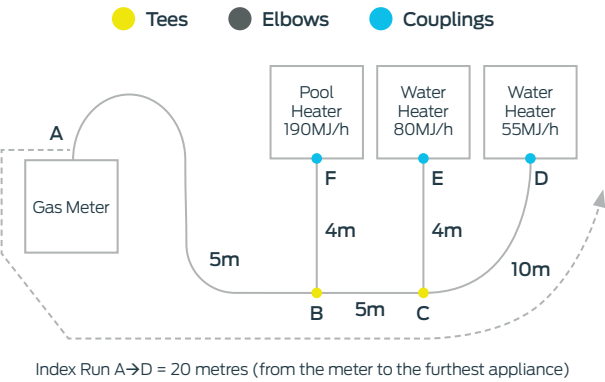
If the DuoPEX Gas system is used in areas where, for example, aggressive gases, permanently acting moistures or building materials containing chlorine are to be encountered, the fittings must be protected using suitable jacketing.

It is also best practice to protect fittings with suitable jacketing when in contact with screed, concrete, mortar, plaster or burial in contaminated soil.

Pipe Sizing

The following example is for natural gas using:

- Supply Pressure 2.75kPa
- Pressure Drop 0.75kPa



Pipe Section	A→D	A→B	B→C	C→D	C→E	B→F*
Pipe Length	20	5	5	10	4	4
Gas Flow MJ/h	325	190 + 80 + 55 = 325	80 + 55 = 135	55	80	190
Fitting Correction	0.8 + 1.5 + 1.7 = 4m					
Corrected Index Run	24m	24m	24m	24m	24m	24m
Nominal Pipe Size Corrected		32mm	20mm	16mm	20mm	26mm*
Nominal Pipe Size Uncorrected		26mm	20mm	16mm	16mm	20mm

* In keeping with gasfitting best practice, this run has been upsized.

LPG

Pressure Drop 0.25kPa (Pressure Supply 2.75kPa)

Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	285	621	1139	2321	4434	8887	16877
4	192	418	766	1562	2984	5981	11358
6	152	332	608	1239	2367	4744	9009
8	129	281	516	1051	2008	4025	7643
10	113	248	454	925	1768	3543	6729
12	102	223	409	834	1593	3192	6062
14	94	204	375	764	1458	2923	5551
16	87	189	347	707	1351	2709	5143
18	81	177	325	662	1264	2532	4809
20	76	167	306	623	1190	2385	4529
25	67	147	269	548	1047	2099	3986
30	61	132	242	494	943	1891	3591
35	55	121	222	452	864	1732	3289
40	51	112	206	419	801	1605	3047
45	48	105	192	392	749	1500	2849
50	45	99	181	369	705	1413	2683
55	43	94	171	349	667	1338	2540
60	41	89	163	332	635	1273	2417
65	39	85	156	318	607	1216	2309
70	37	81	149	304	581	1165	2213
75	36	78	144	293	559	1120	2128
80	35	76	138	282	539	1080	2051
85	33	73	134	272	520	1043	1981
90	32	71	129	264	504	1010	1917
95	31	68	125	256	488	979	1859
100	30	66	122	248	474	951	1805
120	27	60	110	224	428	857	1626
140	25	55	101	205	391	785	1490
160	23	51	93	190	363	727	1380
180	22	48	87	177	339	679	1290
200	20	45	82	167	319	640	1215
250	18	39	72	147	281	563	1069
300	16	35	65	133	253	508	964
Correction + mt for fitting	1.7	1.5	0.8	0.7	N/A	N/A	N/A

LPG

Pressure Drop 10kPa (Pressure Supply 70kPa)							
Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	2411	5263	9644	19003	36297	72255	133400
4	1622	3542	6490	12788	24426	48625	89772
6	1287	2809	5148	10144	19375	38569	71207
8	1092	2383	4368	8606	16437	32722	60412
10	961	2098	3845	7576	14470	28805	53180
12	866	1891	3464	6826	13038	25955	47918
14	793	1731	3172	6251	11939	23766	43878
16	735	1604	2939	5791	11062	22020	40654
18	687	1500	2748	5414	10342	20587	38008
20	647	1412	2587	5098	9737	19384	35787
25	569	1243	2278	4488	8572	17063	31503
30	513	1120	2052	4044	7724	15375	28386
35	470	1025	1879	3703	7072	14079	25993
40	435	950	1741	3431	6553	13045	24083
45	407	888	1628	3207	6126	12195	22516
50	383	836	1533	3020	5768	11483	21200
55	363	792	1451	2860	5463	10874	20076
60	345	754	1381	2721	5198	10347	19102
65	330	720	1319	2600	4965	9884	18248
70	316	690	1265	2492	4759	9474	17492
75	304	663	1216	2396	4576	9108	16816
80	293	639	1172	2309	4410	8779	16207
85	283	618	1132	2230	4260	8480	15656
90	274	598	1095	2159	4123	8207	15153
95	265	580	1062	2093	3997	7958	14691
100	258	563	1031	2032	3882	7728	14267
120	232	507	929	1831	3498	6963	12855
140	213	464	851	1677	3203	6376	11771
160	197	430	788	1554	2967	5907	10906
180	184	402	737	1453	2774	5523	10196
200	174	379	694	1368	2612	5200	9601
250	153	333	611	1204	2300	4578	8452
300	138	300	551	1085	2072	4125	7615
Correction + mt for fitting	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Natural Gas

Pressure Drop 0.075kPa (Meter Pressure 1.1kPa)							
Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	90	196	359	731	1397	2687	5316
4	60	132	241	492	940	1809	3577
6	48	104	191	390	745	1435	2838
8	41	89	162	331	632	1217	2407
10	36	78	143	292	557	1071	2119
12	32	70	129	263	502	965	1910
14	30	64	118	240	459	884	1749
16	27	60	109	223	426	819	1620
18	26	56	102	208	398	766	1515
20	24	53	96	196	375	721	1426
25	21	46	85	173	330	635	1256
30	19	42	76	156	297	572	1131
35	17	38	70	143	272	524	1036
40	16	35	65	132	252	485	960
45	15	33	61	123	236	454	897
50	14	31	57	116	222	427	845
55	13	29	54	110	210	405	800
60	13	28	51	105	200	385	761
65	12	27	49	100	191	368	727
70	12	26	47	96	183	352	697
75	11	25	45	92	176	339	670
80	11	24	44	89	170	327	646
85	11	23	42	86	164	315	624
90	10	22	41	83	159	305	604
95	10	22	40	81	154	296	585
100	10	21	38	78	149	287	569
120	9	19	35	71	135	259	513
140	8	17	32	65	123	237	469
160	7	16	29	60	114	220	435
180	7	15	27	56	107	205	406
200	6	14	26	53	101	193	383
250	6	12	23	46	88	170	337
300	5	11	20	42	80	154	304
Correction + mt for fitting	1.2	1.1	0.6	0.5	N/A	N/A	N/A

Natural Gas

Pressure Drop 0.75kPa (Meter Pressure 2.75kPa)							
Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	322	702	1287	2624	5011	9643	19075
4	217	473	866	1766	3372	6490	12837
6	172	375	687	1400	2675	5147	10182
8	146	318	583	1188	2269	4367	8639
10	128	280	513	1046	1998	3844	7604
12	116	252	462	942	1800	3464	6852
14	106	231	423	863	1648	3172	6274
16	98	214	392	800	1527	2939	5813
18	92	200	367	748	1428	2748	5435
20	86	188	345	704	1344	2587	5117
25	76	166	304	620	1184	2278	4505
30	68	149	274	558	1066	2052	4059
35	63	137	251	511	976	1879	3717
40	58	127	232	474	905	1741	3444
45	54	119	217	443	846	1628	3220
50	51	112	205	417	796	1533	3032
55	48	106	194	395	754	1451	2871
60	46	101	184	376	718	1381	2732
65	44	96	176	359	686	1319	2610
70	42	92	169	344	657	1265	2501
75	41	89	162	331	632	1216	2405
80	39	85	156	319	609	1172	2318
85	38	82	151	308	588	1132	2239
90	37	80	146	298	569	1095	2167
95	35	77	142	289	552	1062	2101
100	34	75	138	281	536	1031	2040
120	31	68	124	253	483	929	1838
140	28	62	114	232	442	851	1683
160	26	57	105	215	410	788	1560
180	25	54	98	201	383	737	1458
200	23	51	93	189	361	694	1373
250	20	45	82	166	318	611	1209
300	18	40	74	150	286	550	1089
Correction + mt for fitting	1.7	1.5	0.8	0.7	N/A	N/A	N/A

Natural Gas

Pressure Drop 1.5kPa (Meter Pressure 2.75kPa)							
Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	531	1160	2125	4332	8274	14330	27716
4	357	780	1430	2915	5568	9643	18652
6	284	619	1134	2312	4417	7649	14795
8	241	525	962	1962	3747	6490	12552
10	212	462	847	1727	3298	5713	11049
12	191	417	763	1556	2972	5147	9956
14	175	381	699	1425	2722	4713	9116
16	162	353	648	1320	2522	4367	8447
18	151	330	606	1234	2357	4083	7897
20	143	311	570	1162	2220	3844	7435
25	125	274	502	1023	1954	3384	6545
30	113	247	452	922	1761	3049	5898
35	104	226	414	844	1612	2792	5400
40	96	209	384	782	1494	2587	5004
45	90	196	359	731	1397	2419	4678
50	84	184	338	688	1315	2277	4405
55	80	175	320	652	1245	2157	4171
60	76	166	304	620	1185	2052	3969
65	73	159	291	593	1132	1960	3791
70	70	152	279	568	1085	1879	3635
75	67	146	268	546	1043	1806	3494
80	65	141	258	526	1005	1741	3367
85	62	136	249	508	971	1682	3253
90	60	132	241	492	940	1628	3148
95	59	128	234	477	911	1578	3052
100	57	124	227	463	885	1533	2964
120	51	112	205	417	797	1381	2671
140	47	102	188	382	730	1264	2446
160	43	95	174	354	676	1172	2266
180	41	89	162	331	632	1095	2119
200	38	83	153	312	596	1032	1995
250	34	73	135	274	524	908	1756
300	30	66	121	247	472	818	1582
Correction + mt for fitting	1.7	1.5	0.8	0.7	N/A	N/A	N/A

Natural Gas

Pressure Drop 1.5kPa (Meter Pressure 5-10kPa)							
Straight Pipe Length (m)	Nominal Size (mm)						
	16	20	26	32	40	50	63
2	487	1062	1947	3968	7406	14087	27865
4	327	715	1310	2670	4984	9480	18752
6	260	567	1039	2118	3953	7519	14874
8	220	481	882	1797	3354	6379	12619
10	194	423	776	1582	2953	5616	11108
12	175	382	699	1425	2660	5060	10009
14	160	349	640	1305	2436	4633	9165
16	148	324	593	1209	2257	4293	8492
18	139	303	555	1130	2110	4014	7939
20	131	285	522	1064	1987	3779	7475
25	115	251	460	937	1749	3327	6580
30	104	226	414	844	1576	2997	5929
35	95	207	379	773	1443	2745	5429
40	88	192	351	716	1337	2543	5031
45	82	179	329	670	1250	2378	4703
50	77	169	309	631	1177	2239	4428
55	73	160	293	597	1115	2120	4194
60	70	152	279	568	1061	2017	3990
65	67	145	266	543	1013	1927	3812
70	64	139	255	520	971	1847	3654
75	61	134	245	500	934	1776	3513
80	59	129	237	482	900	1711	3385
85	57	125	228	466	869	1653	3270
90	55	121	221	451	841	1600	3165
95	54	117	214	437	816	1551	3069
100	52	114	208	424	792	1507	2980
120	47	102	188	382	714	1357	2685
140	43	94	172	350	654	1243	2459
160	40	87	159	324	606	1152	2278
180	37	81	149	303	566	1077	2130
200	35	76	140	286	533	1014	2005
250	31	67	123	251	469	892	1765
300	28	61	111	227	423	804	1591
Correction + mt for fitting	1.7	1.5	0.8	0.7	N/A	N/A	N/A

DuoPEX Gas Fittings

DuoPEX Gas fittings are manufactured from dezincification resistance (DR) brass with a stainless steel crimp ring and joined to the pipe using a precision and specific crimping tool.

To increase joint performance all DuoPEX Gas crimp fittings are characterised by a plastic holding ring which has three important functions:

- 1. As a locating ring that matches the DuoPEX Gas jaws for a perfect crimp position
- 2. It allows the installer to visually check when the pipe is correctly fitted on the fitting
- 3. The fitting has a yellow plastic holding ring to identify the fitting is for gas installations only



Female BSP Tee

For the complete range of products see pages 18 to 24



The DuoPEX Gas fittings and DuoPEX Water fittings have different O-Ring compositions that are specific to their purpose.

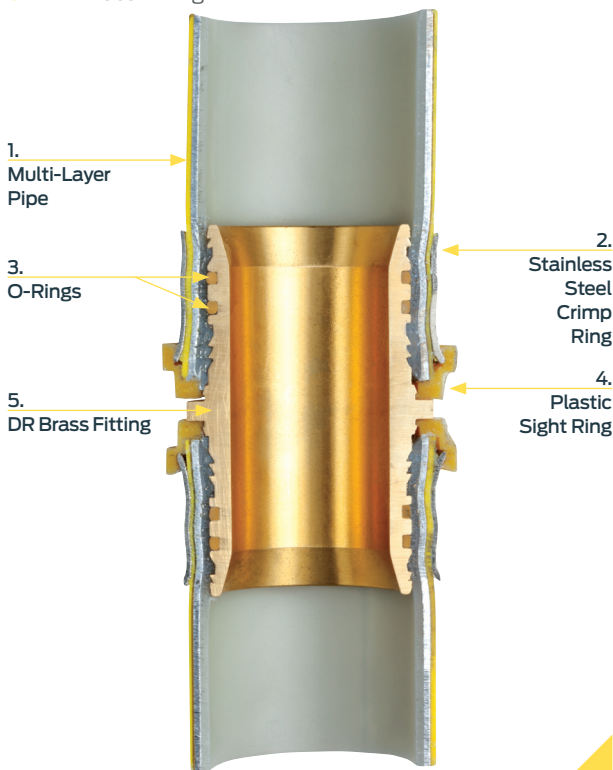
The yellow holding ring indicates O-Rings for gas and the blue holding rings indicates O-Rings for water. Use the correct fitting for each application. This must be strictly adhered to.

DuoPEX Gas fittings are available for DuoPEX Gas in sizes ranging from 16mm to 63mm.

DuoPEX Gas crimp fittings are classified as a permanent joint in accordance with AS/NZS 5601.

Pipe and fittings are joined and sealed thanks to the stainless steel crimp ring mechanical deformation (2). This deformation is achieved by using the special DuoPEX Gas jaws.

1. Multi-Layer Pipe
2. Stainless Steel Crimp Ring
3. O-Rings
4. Plastic Sight Ring
5. DR Brass Fitting



The Plastic Sight Ring aids in locating the jaws in the correct crimp position and features a witness hole to check the pipe has been fully inserted in the fitting.

Making A Joint

It is most important that the tool manual supplied with the tool is read in its entirety and the user becomes familiar with the maintenance, precautions and the proper use of this tool.

The following describes, in general terms, the jointing procedures but should not be regarded as a substitute for reading and applying the detailed instructions contained in the tool manual.

1. Ensure that the battery is fully charged and attach it to the tool.
2. Select the jaw size to suit the fitting to be crimped. The jaws must be examined in terms of possible damage or dirt in the compression area.



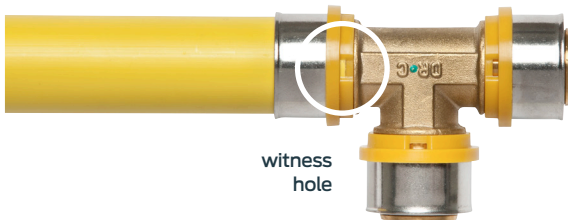
3. To change the jaw, push the pin in, turn pin to unlock and slide the jaw out.
4. Insert the jaws and line up the holes in the tool with the hole in the jaw.
5. Push the pin through the hole in the jaw and turn pin to lock.



6. Cut the pipe to the required length with the recommended multi-layer pipe cutters.



7. Insert the approved calibrating/deburring tool into the pipe, and then alternately turn in a clockwise and in a counter-clockwise direction. Ensure that a consistent, smooth chamfer is formed on the end of the pipe.



8. Insert the pipe into the fitting and under the stainless steel ring. Push the pipe until it is visible in the slots of the plastic sight ring (witness hole). This ensures you have pushed the pipe home.



9. By squeezing the back of the jaw, the jaws will open. If you look at the machined profile on the inside of the jaws you will note a slot on each side of the profile.



10. With the jaws open, place the fitting inside the jaws so that the raised section of the plastic sight ring fits into the slot in the jaws. Release the jaws so they fit snugly over the fitting, ensuring that the raised section of the plastic sight ring is still located in the slots in the jaw.



11. Press the switch mechanism until the joint is completed and the piston has retracted back into the body of the tool.



12. Press the back end of the jaws and remove the completed joint.

UV Conduit and Sleeving

UV Conduit for 16mm	GPM401605GSL
UV Conduit for 20mm	GPM412005GSL
UV Conduit for 26mm	GPM422605GSL
Black Lay Flat UV Sleeving for 32mm*	GPM433205UVLG
Black Lay Flat UV Sleeving for 40mm*	GPM444005UVLG
Black Lay Flat UV Sleeving for 50mm*	GPM455005UVLG
Black Lay Flat UV Sleeving for 63mm*	GPM466305UVLG



*Lay Flat UV Sleeving is available in 32mm to 63mm. This sleeving has a maximum UV life of 4 years and should be replaced prior to that time. It is best practice to ensure that piping is installed out of direct sunlight – protected or not protected.

Pipe Straight

16mm x 5m	GPM401605
20mm x 5m	GPM412005
26mm x 5m	GPM422605
32mm x 5m	GPM433205
40mm x 5m	GPM444005
50mm x 5m	GPM455005
63mm x 5m	GPM466305



Pipe Coils

16mm x 50m	GPM401650
20mm x 50m	GPM412050
26mm x 50m	GPM422650
32mm x 50m	GPM433250



Couplings

16mm	GPM011616
20mm	GPM012020
26mm	GPM012626
32mm	GPM013232
40mm	GPM014040
50mm	GPM015050
63mm	GPM016363
20mm x 16mm	GPM022016
26mm x 16mm	GPM022616
26mm x 20mm	GPM022620
32mm x 20mm	GPM023220
32mm x 26mm	GPM023226
40mm x 26mm	GPM024026
40mm x 32mm	GPM024032
50mm x 32mm	GPM025032
50mm x 40mm	GPM025040
63mm x 40mm	GPM026340
63mm x 50mm	GPM026350



Elbows

16mm	GPM051616
20mm	GPM052020
26mm	GPM052626
32mm	GPM053232
40mm	GPM054040
50mm	GPM055050
63mm	GPM056363



Threaded BSP Elbows (Male)

16mm x 1/2"	GPM051615MI
20mm x 1/2"	GPM052015MI
20mm x 3/4"	GPM052020MI
26mm x 3/4"	GPM052620MI
26mm x 1"	GPM052625MI
32mm x 1"	GPM053225MI
40mm x 1 1/4"	GPM054032MI
50mm x 1 1/2"	GPM055040MI
63mm x 2"	GPM056350MI



45° Elbows

26mm x 26mm	GPM05452626
32mm x 32mm	GPM05453232
40mm x 40mm	GPM05454040
50mm x 50mm	GPM05455050
63mm x 63mm	GPM05456363



Product List

Fittings

Tees

16mm	GPM03161616
20mm	GPM03202020
26mm	GPM03262626
32mm	GPM03323232
40mm	GPM03404040
50mm	GPM03505050
63mm	GPM03636363
20mm x 16mm x 16mm	GPM04201616
16mm x 16mm x 20mm	GPM04161620
20mm x 20mm x 16mm	GPM04202016
20mm x 16mm x 20mm	GPM04201620
26mm x 20mm x 16mm	GPM04262016
26mm x 26mm x 16mm	GPM04262616
20mm x 20mm x 26mm	GPM04202026
26mm x 20mm x 20mm	GPM04262020
26mm x 20mm x 26mm	GPM04262026
26mm x 26mm x 20mm	GPM04262620
32mm x 32mm x 20mm	GPM04323220
32mm x 26mm x 26mm	GPM04322626
32mm x 26mm x 32mm	GPM04322632
32mm x 32mm x 26mm	GPM04323226
40mm x 40mm x 32mm	GPM04404032
40mm x 32mm x 32mm	GPM04403232
40mm x 32mm x 40mm	GPM04403240
50mm x 50mm x 20mm	GPM04505020
50mm x 50mm x 26mm	GPM04505026
50mm x 50mm x 32mm	GPM04505032
50mm x 50mm x 40mm	GPM04505040
63mm x 63mm x 32mm	GPM04636332
63mm x 63mm x 40mm	GPM04636340
63mm x 63mm x 50mm	GPM04636350



Threaded fittings are not for heat related re-fabrication. Do not braze onto threads. Use approved pastes/jointing compounds.

Threaded BSP Tees (Male)

16mm x 16mm x 1/2"	GPM04161615MI
20mm x 20mm x 1/2"	GPM04202015MI
20mm x 20mm x 3/4"	GPM04202020MI
26mm x 26mm x 3/4"	GPM04262620MI
32mm x 32mm x 1"	GPM04323225MI



Product List

Fittings

Threaded BSP Tees (Female)

16mm x 16mm x 1/2"	GPM04161615FI
20mm x 20mm x 1/2"	GPM04202015FI
20mm x 20mm x 3/4"	GPM04202020FI
32mm x 32mm x 1"	GPM04323225FI
40mm x 40mm x 1"	GPM04404025FI
50mm x 50mm x 3/4"	GPM04505020FI
50mm x 50mm x 1"	GPM04505025FI
63mm x 63mm x 1"	GPM04636325FI
26mm x 26mm x 3/4"	GPM04262620FI
40mm x 40mm x 1 1/4"	GPM04404032FI



Threaded BSP Elbows (Female)

16mm x 1/2"	GPM051615FI
20mm x 1/2"	GPM052015FI
20mm x 3/4"	GPM052020FI
26mm x 3/4"	GPM052620FI
32mm x 1"	GPM053225FI
40mm x 1 1/4"	GPM054032FI
50mm x 1 1/2"	GPM055040FI



Lugged Elbows (Male)

16mm x 1/2" (73)	GPM061615S73
16mm x 1/2" (88)	GPM061615L88
20mm x 1/2" (90)	GPM06201590
20mm x 3/4" (200)	GPM062020200



Lugged Elbows (Female)

16mm x 1/2"	GPM071615FI
20mm x 1/2"	GPM072015FI
20mm x 20mm	GPM072020FI
26mm x 20mm	GPM072620FI
26mm x 1"	GPM072625FI



Lugged Elbows (Female) Two Way

16mm x 1/2"	GPM07161615FI
20mm x 1/2"	GPM07202015FI



Product List

Fittings

Brazing Tails

16mm x 1/2" Male	GPM0816M
20mm x 3/4" Male	GPM0820M
26mm x 1" Male	GPM0826M
16mm x 1/2" Female	GPM0816F
20mm x 3/4" Female	GPM0820F
26mm x 1" Female	GPM0826F
32mm x 1 1/4" Female	GPM0832F
40mm x 1 1/2" Female	GPM0840F
50mm x 2" Female	GPM0850F

For NZ Copper

16mm x 1/2" FNZ	GPM0816FNZ
20mm x 3/4" FNZ	GPM0820FNZ
26mm x 1" FNZ	GPM0825FNZ

Threaded BSP Adaptors (Male)

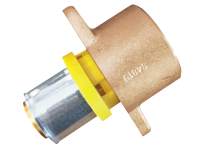
16mm x 1/2"	GPM091615
16mm x 3/4"	GPM091620
20mm x 1/2"	GPM092015
20mm x 3/4"	GPM092020
26mm x 3/4"	GPM092620
26mm x 1"	GPM092625
32mm x 1"	GPM093225
32mm x 1 1/4"	GPM093232
40mm x 1 1/4"	GPM094032
50mm x 1 1/2"	GPM095040
63mm x 2"	GPM096350

Threaded BSP Adaptors (Female)

16mm x 1/2"	GPM101615
20mm x 1/2"	GPM102015
20mm x 3/4"	GPM102020
26mm x 3/4"	GPM102620
26mm x 1"	GPM102625
32mm x 1"	GPM103225
32mm x 1 1/4"	GPM103232
40mm x 1 1/4"	GPM104032
50mm x 1 1/2"	GPM105040
16mm x 1/2"	GPM101615WB
20mm x 3/4"	GPM102020WB



O-Rings and Stainless Steel Sleeve must be applied after soldering and quenching. Ensure that O-Rings are correctly located on the fitting.



Product List

Fittings

Compression Adaptors

16mm	GPM131615
20mm	GPM132020
26mm	GPM132625

End Caps

16mm	GPM1416
20mm	GPM1420
26mm	GPM1426
32mm	GPM1432
40mm	GPM1440

Loose Nut Connector Elbows (Male)

26mm x 1"	GPM19262590MI
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Loose Nut Connector Straight (Female)

16mm x 1/2"	GPM191615FI
20mm x 1/2"	GPM192015FI

Gas Barrel Union Coupling

20mm	GPM202020
26mm	GPM202626
32mm	GPM203232
40mm	GPM204040

DuoPEX Gas to B-Press Adaptors

16mm x 1/2"	GPM281615
20mm x 1/2"	GPM282015
20mm x 3/4"	GPM282020
26mm x 3/4"	GPM282620
26mm x 1"	GPM282625
32mm x 1"	GPM283225
40mm x 1 1/4"	GPM284032
50mm x 1 1/2"	GPM285040



Gas Barrel Union Couplings meet the requirements of AS/NZS 5601 for reversion



Gas Ball Valves

20mm	GPM602020
26mm	GPM602626



Gas Meter Tags

10 Pack with zip ties GPM30



DuoPEX Jaws for Mini Tool

16mm Jaw	GPMSBM16AUS
20mm Jaw	GPMSBM20AUS
26mm Jaw	GPMSBM26AUS
32mm Jaw	GPMSBM32AUS



Spare Battery for Mini Tool

9.6V Replacement Battery GPMMKPBAUS



Calibrator

16mm – 40mm GPM7498x1640DP





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duopex.com.au

For operating parameters outside those stated in the manual, please contact Customer Service.

Contents of this brochure are subject to change, please visit our website for the most up-to-date product information.

AU-DPG-MN0176R3



AS 4176
WMKA 21044
WMKA 21069



**Australian
Standard**
SMKP 25517



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