

**Pressure at the meter 1.1 kPa - Pressure drop 0.075kPa
NATURAL GAS - flow through PEXAL pipes [MJ/h]**

Length of straight pipe in metres

OD [mm]	4	6	8	10	12	14	16	18	Correction metres per fitting
16	56	45	38	34	31	28	26	24	1.3
20	114	91	78	69	62	57	53	50	1.2
26	246	196	167	148	134	123	114	107	0.5
32	495	395	337	298	269	247	229	215	0.6
40	935	747	636	562	508	466	433	406	0.9
50	1779	1421	1211	1070	967	887	824	772	N/A
63	3478	2777	2366	2091	1889	1734	1610	1508	N/A
OD [mm]	20	22	25	28	30	35	40	45	Correction metres per fitting
16	23	22	20	19	18	17	16	15	1.3
20	47	44	41	39	37	34	32	30	1.2
26	101	95	89	83	80	74	68	64	0.5
32	203	192	179	168	162	148	138	129	0.6
40	383	363	338	317	305	280	260	244	0.9
50	728	690	643	604	581	533	495	464	N/A
63	1422	1349	1257	1180	1136	1042	968	907	N/A
OD [mm]	50	55	60	65	70	75	80	85	Correction metres per fitting
16	14	13	12	12	11	11	11	10	1.3
20	28	27	25	24	23	22	22	21	1.2
26	60	57	55	52	50	48	47	45	0.5
32	122	115	110	105	101	97	94	91	0.6
40	230	218	208	199	191	184	177	171	0.9
50	437	415	395	378	363	349	337	326	N/A
63	855	811	773	739	709	683	658	637	N/A
OD [mm]	90	95	100	120	140	160	180	200	Correction metres per fitting
16	10	10	9	9	8	7	7	6	1.3
20	20	20	19	17	16	15	14	13	1.2
26	44	42	41	37	34	32	30	28	0.5
32	88	85	83	75	69	64	60	56	0.6
40	166	161	156	141	130	120	113	106	0.9
50	316	306	298	269	247	229	215	202	N/A
63	617	599	582	526	483	448	420	396	N/A
OD [mm]	220	240	260	280	300	320	340	360	Correction metres per fitting
16	6	6	6	5	5	5	5	5	1.3
20	12	12	11	11	10	10	10	9	1.2
26	27	25	24	23	22	22	21	20	0.5
32	53	51	49	47	45	43	42	41	0.6
40	101	96	92	88	85	82	79	77	0.9
50	192	183	175	168	162	156	151	146	N/A
63	375	358	342	328	316	305	295	286	N/A

Pressure at the meter 1.25 kPa - Pressure drop 0.12 kPa
 NATURAL GAS - flow through PEXAL pipes [MJ/h]

Length of straight pipe in metres

OD [mm]	4	6	8	10	12	14	16	18	Correction metres per fitting
16	73	58	50	44	40	36	34	32	1.3
20	148	118	101	89	80	74	69	64	1.2
26	319	255	217	192	173	159	148	138	0.5
32	642	512	437	386	349	320	297	278	0.6
40	1212	968	825	729	659	604	561	526	0.9
50	2306	1841	1569	1386	1253	1150	1068	1000	N/A
63	4508	3599	3067	2710	2449	2248	2087	1955	N/A
OD [mm]	20	22	25	28	30	35	40	45	Correction metres per fitting
16	30	28	26	25	24	22	20	19	1.3
20	61	57	53	50	48	44	41	39	1.2
26	130	124	115	108	104	96	89	83	0.5
32	263	249	232	218	210	192	179	167	0.6
40	496	470	438	411	396	363	337	316	0.9
50	943	895	833	782	753	691	642	601	N/A
63	1844	1748	1629	1529	1472	1351	1254	1175	N/A
OD [mm]	50	55	60	65	70	75	80	85	Correction metres per fitting
16	18	17	16	15	15	14	14	13	1.3
20	36	35	33	31	30	29	28	27	1.2
26	78	74	71	68	65	63	60	58	0.5
32	158	150	143	136	131	126	122	118	0.6
40	298	283	269	258	247	238	230	222	0.9
50	567	538	512	490	470	453	437	422	N/A
63	1108	1051	1001	958	919	885	853	825	N/A
OD [mm]	90	95	100	120	140	160	180	200	Correction metres per fitting
16	13	13	12	11	10	9	9	8	1.3
20	26	25	25	22	21	19	18	17	1.2
26	57	55	53	48	44	41	38	36	0.5
32	114	110	107	97	89	83	77	73	0.6
40	215	209	203	183	168	156	146	138	0.9
50	409	397	386	349	320	297	278	262	N/A
63	799	776	754	681	625	581	544	513	N/A
OD [mm]	220	240	260	280	300	320	340	360	Correction metres per fitting
16	8	7	7	7	7	6	6	6	1.3
20	16	15	15	14	13	13	13	12	1.2
26	34	33	31	30	29	28	27	26	0.5
32	69	66	63	61	58	56	54	53	0.6
40	131	125	119	114	110	106	103	100	0.9
50	249	237	227	218	210	202	195	189	N/A
63	487	464	443	426	410	395	382	370	N/A

Pressure at the meter 2.50 kPa - Pressure drop 0.25 kPa
 NATURAL GAS - flow through PEXAL pipes [MJ/h]

Length of straight pipe in metres

OD [mm]	4	6	8	10	12	14	16	18	Correction metres per fitting
16	110	88	75	66	60	55	51	48	1.7
20	224	179	153	135	122	112	104	97	1.4
26	483	385	328	290	262	241	223	209	0.8
32	972	776	661	584	528	484	450	421	0.6
40	1835	1465	1249	1103	997	915	849	796	N/A
50	3491	2787	2375	2098	1896	1740	1616	1514	N/A
63	6823	5447	4642	4101	3706	3402	3159	2959	N/A
OD [mm]	20	22	25	28	30	35	40	45	Correction metres per fitting
16	45	43	40	37	36	33	31	29	1.7
20	92	87	81	76	73	67	62	58	1.4
26	197	187	174	164	158	145	134	126	0.8
32	397	377	351	330	317	291	270	253	0.6
40	750	712	663	623	599	550	511	478	N/A
50	1428	1354	1261	1184	1140	1046	971	910	N/A
63	2790	2647	2465	2315	2228	2045	1899	1778	N/A
OD [mm]	50	55	60	65	70	75	80	85	Correction metres per fitting
16	27	26	25	23	23	22	21	20	1.7
20	55	52	50	48	46	44	42	41	1.4
26	119	113	107	103	98	95	91	88	0.8
32	239	227	216	206	198	191	184	178	0.6
40	451	428	408	390	374	360	347	336	N/A
50	858	814	775	742	712	685	661	639	N/A
63	1677	1591	1516	1450	1391	1339	1292	1249	N/A
OD [mm]	90	95	100	120	140	160	180	200	Correction metres per fitting
16	20	19	18	17	15	14	13	13	1.7
20	40	39	37	34	31	29	27	26	1.4
26	86	83	81	73	67	62	58	55	0.8
32	172	167	163	147	135	125	117	111	0.6
40	325	316	307	277	255	236	221	209	N/A
50	619	601	584	528	484	450	421	397	N/A
63	1210	1174	1141	1031	947	879	823	776	N/A
OD [mm]	220	240	260	280	300	320	340	360	Correction metres per fitting
16	12	11	11	10	10	10	9	9	1.7
20	24	23	22	21	20	20	19	18	1.4
26	52	50	47	46	44	42	41	40	0.8
32	105	100	96	92	88	85	82	80	0.6
40	198	189	180	173	167	161	156	151	N/A
50	377	359	343	330	317	306	296	287	N/A
63	736	702	671	644	620	598	578	560	N/A

Pressure at the meter 5.00 kPa - Pressure drop 0.75 kPa
 NATURAL GAS - flow through PEXAL pipes [MJ/h]

Length of straight pipe in metres

OD [mm]	4	6	8	10	12	14	16	18	Correction metres per fitting
16	206	164	140	124	112	103	95	89	2.4
20	418	334	284	251	227	208	194	181	1.2
26	901	719	613	541	489	449	417	390	1.0
32	1813	1447	1233	1090	985	904	839	786	0.5
40	3423	2733	2329	2058	1859	1707	1585	1484	N/A
50	6512	5199	4431	3914	3537	3247	3015	2824	N/A
63	12729	10162	8661	7651	6914	6346	5893	5519	N/A
OD [mm]	20	22	25	28	30	35	40	45	Correction metres per fitting
16	84	80	74	70	67	62	57	54	2.4
20	171	162	151	142	137	125	116	109	1.2
26	368	349	325	305	294	270	251	235	1.0
32	741	703	655	615	592	543	504	472	0.5
40	1400	1328	1237	1161	1118	1026	953	892	N/A
50	2663	2526	2353	2209	2126	1952	1812	1697	N/A
63	5206	4937	4599	4318	4156	3815	3542	3318	N/A
OD [mm]	50	55	60	65	70	75	80	85	Correction metres per fitting
16	51	48	46	44	42	40	39	38	2.4
20	103	97	93	89	85	82	79	77	1.2
26	221	210	200	191	184	177	170	165	1.0
32	446	423	403	385	370	356	343	332	0.5
40	841	798	760	727	698	672	648	627	N/A
50	1601	1518	1447	1384	1328	1278	1233	1192	N/A
63	3129	2968	2828	2705	2595	2498	2410	2330	N/A
OD [mm]	90	95	100	120	140	160	180	200	Correction metres per fitting
16	37	35	34	31	29	27	25	23	2.4
20	74	72	70	63	58	54	50	48	1.2
26	160	155	151	136	125	116	109	102	1.0
32	321	312	303	274	251	234	219	206	0.5
40	607	589	573	517	475	441	413	390	N/A
50	1155	1121	1089	984	903	839	786	741	N/A
63	2257	2190	2129	1924	1766	1640	1536	1449	N/A
OD [mm]	220	240	260	280	300	320	340	360	Correction metres per fitting
16	22	21	20	19	19	18	17	17	2.4
20	45	43	41	39	38	37	35	34	1.2
26	97	93	89	85	82	79	76	74	1.0
32	196	186	178	171	165	159	154	149	0.5
40	369	352	337	323	311	300	290	281	N/A
50	703	670	641	615	592	571	552	535	N/A
63	1374	1309	1252	1202	1156	1116	1079	1045	N/A

Pressure at the meter 10.00 kPa - Pressure drop 1.50 kPa
 NATURAL GAS - flow through PEXAL pipes [MJ/h]

Length of straight pipe in metres

OD [mm]	4	6	8	10	12	14	16	18	Correction metres per fitting
16	310	248	211	187	169	155	144	135	2.9
20	630	503	429	379	342	314	292	273	1.4
26	1358	1084	924	816	737	677	629	589	1.1
32	2733	2182	1860	1643	1485	1363	1265	1185	0.9
40	5161	4120	3512	3102	2804	2573	2389	2238	N/A
50	9819	7839	6681	5902	5333	4896	4546	4258	N/A
63	19192	15321	13058	11536	10424	9569	8885	8322	N/A
OD [mm]	20	22	25	28	30	35	40	45	Correction metres per fitting
16	127	120	112	105	101	93	86	81	2.9
20	258	245	228	214	206	189	175	164	1.4
26	555	527	491	461	443	407	378	354	1.1
32	1118	1060	987	927	892	819	761	712	0.9
40	2111	2002	1865	1751	1685	1547	1436	1345	N/A
50	4016	3809	3547	3331	3206	2943	2732	2559	N/A
63	7849	7444	6934	6511	6266	5752	5340	5002	N/A
OD [mm]	50	55	60	65	70	75	80	85	Correction metres per fitting
16	76	72	69	66	63	61	59	57	2.9
20	155	147	140	134	129	124	119	115	1.4
26	334	317	302	288	277	266	257	249	1.1
32	672	637	607	581	557	536	517	500	0.9
40	1269	1203	1147	1097	1052	1013	977	945	N/A
50	2414	2289	2181	2086	2002	1927	1859	1797	N/A
63	4718	4474	4263	4078	3913	3766	3633	3513	N/A
OD [mm]	90	95	100	120	140	160	180	200	Correction metres per fitting
16	55	53	52	47	43	40	37	35	2.9
20	112	108	105	95	87	81	76	72	1.4
26	241	234	227	205	188	175	164	155	1.1
32	485	470	457	413	379	352	330	311	0.9
40	915	888	863	780	716	665	623	587	N/A
50	1741	1690	1642	1484	1362	1265	1185	1117	N/A
63	3403	3303	3210	2901	2663	2472	2316	2184	N/A
OD [mm]	220	240	260	280	300	320	340	360	Correction metres per fitting
16	34	32	31	29	28	27	26	25	2.9
20	68	65	62	60	57	55	53	52	1.4
26	147	140	134	128	123	119	115	111	1.1
32	295	281	269	258	248	240	232	224	0.9
40	557	531	508	487	469	452	437	424	N/A
50	1060	1010	966	927	892	861	832	806	N/A
63	2071	1974	1888	1812	1743	1682	1626	1576	N/A