unipipe

Compressed Air 16 Bar
Nitrogen
Compressed Air < 70Bar
Oil < 70Bar
Vacuum

Something different is in the Air

The Premium Aluminium Piping System

PRODUCT MANUAL

1300 99 55 26 airenergy.com.au

QUICK & EASY
Unipipe is precisely engineered to assemble quickly and easily, creating complex pipework with minimal tooling.

FLEXIBLE
Unipipe's broad range of pipe sizes and fittings offer one of the most convenient, flexible and dynamic piping solutions on the market, suitable for most compatible applications.

UNIVERSAL
Unipipe offers the widest product range for the conveyance of an extensive range of fluids, both gas and liquid. The Unipipe system is designed for: Compressed Air, Industrial Gases, Nitrogen, Vacuum, Oil -high pressure and high pressure Compressed Air.

WIDE PRESSURE RANGE
The Unipipe system is suitable for a very wide pressure range from -0.87 bar up to 70 bar.

BROAD TEMPERATURE CAPABILITIES
Unipipe offers a broad range of working temperature: From –20°C up to 100°C

EXTENSIVE PIPE DIAMETER CHOICES
Unipipe comes in a wide range of pipe sizes including;

20, 25, 32, 40, 50, 63, 90, 110, 160

TECHNICAL SPEC'S	AIR	NITROGEN	VACUUM	OIL HP	AIR HP
Max Working Pressure	16 bar	16 bar	-0.87 bar	30 - 40- 70 bar	30 - 40- 70 bar
Plant Testing Pressure 1 hour @ 20°C	24 bar	24 bar	24 bar	45 - 60- 105 bar	46 - 60- 105 bar
Quality Testing Pressure 1 hour @ 20°C	64 bar	64 bar	64 bar	120 - 160- 280 bar	120 - 160- 280 bar
Continuous Working Pressure	From -20°C up to 100°C				
Max Working Pressure	From -30°C up to 130°C				
Aluminium Pipe Mechanical Resistance	According to EN-755-2/2008 Standards				
Pipe Material	Aluminium alloy EN AW 6060 - T5 according to EN 755-2/2008				
Aluminium Fittings Material	Aluminium alloy EN AW 6061 T6				
O-Ring & Lip Gasket Material	NBR 65°/75° SHORE A			FPM 65/75 SHORE A	EPDM 65/75 SHORE A
Clamp Ring Material	AISI 304 Stainless Steel				
Production Tested %	1%	1%	1%	100%	100%

Due to the higher chlorine levels in Australian water supplies, we advise not to use aluminium Unipipe for water.

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THE UNIPIPE DIFFERENCE
Advanced engineering at the core of Unipipe produces a revolution in high pressure piping systems with rapid installation and exceptionally secure joints for safe transport of fluids, both gaseous and liquid.

Sizes 20mm—90mm
1. **Nut**
2. **Stainless Steel Clamp Ring**
3. **Identification Ring**
4. **NBR O-Ring Gasket**
5. **Fitting Body**

Sizes 110mm—160mm
1. **Stainless Steel Grip Ring**
2. **Half Clamp Locking Ring**
3. **Lip Seal**
4. **Identification Tab**
5. **Body**
6. **Bolts**

The precision machined nut and inside of the fittings with the unique patented dynamic gripping ring produce such a secure joint there is no way to separate the pipe from the fittings. The coloured plastic ring identifies the fluid and the working pressure for each fitting. This innovative fitting is compact and light making this system one of the most highly rated aluminium systems.

THE UNIPIPE DIFFERENCE

The Unipipe design produces a fitting with exceptionally secure joints that is superior to every other aluminium pipe system. The brilliant engineered design with quality material selection produces a system in which the actual pipes will burst before the fitting fails in a destructive test.

PONTILAB Laboratory Test Report. Destructive pressure test to Burst Point

Photo of test at 535 bar. Pipe bursts but no failure of the fittings.

Seal type	Temp °C	Bar	psi
FPM	-15	240.5	3,488
NBR	-30	243.2	3,527
FPM	+140	199	2,886
NBR	+100	202.9	2.943

Photo of test at minus 30°C with NBR seals. Pipe bursts at 243.2 bar pressure but no failure of the fittings.

Photo of test showing high pressure pipe split at 535 bar, but still no failure of the fittings. The high-pressure test pump had to be pushed beyond its limits to finally achieve a burst point on this 70 bar rated pipe.

Photo of test at +100°C with NBR seals. Pipe bursts at 202.9 bar pressure but no failure of the fittings.

The pipe length shown in the following 3 tables refers to an installation with a single mainline. In the case of a ring main installation, with pipes of the same diameter and length, the pressure losses will be reduced by 50% and will increase the stability of the whole system.

Key for tables on pages 7,8 & 9

Dn	External pipe diameter in mm
Δp	Pressure loss in bar
m/s	velocity in metre/sec
	velocity less than 6 litre/sec
	velocity from 6 to 10 litre/sec
	velocity from 10 to 15 litre/sec

PRESSURE LOSS CHART
Maximum Pressure Loss 0.3 bar –Fluid =Compressed Air @ 6 bar, 20°C

Flow		Pipe length in metres														
		25			50			100			200			500		
Nm³/h	Nl/min	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s
10	167	20	0.006	1.58	20	0.013	1.58	20	0.025	1.58	20	0.05	1.58	20	0.126	1.58
15	250	20	0.013	2.37	20	0.026	2.37	20	0.051	2.37	20	0.102	2.37	20	0.256	2.37
20	333	20	0.021	3.15	20	0.042	3.15	20	0.085	3.15	20	0.169	3.15	25	0.138	1.97
25	417	20	0.031	3.94	20	0.063	3.94	20	0.125	3.94	20	0.25	3.94	25	0.204	2.46
		25	0.01	2.46	25	0.02	2.46	25	0.041	2.46	25	0.081	2.46	32	0.058	1.46
30	500	20	0.043	4.73	20	0.086	4.73	20	0.172	4.73	25	0.112	2.95	25	0.28	2.95
50	833	20	0.105	7.83	20	0.21	7.88	25	0.137	4.91	25	0.274	4.91	32	0.198	2.92
		25	0.034	4.91	25	0.068	4.91	32	0.04	2.92	32	0.079	2.92	40	0.065	1.83
75	1250	20	0.214	11.83	25	0.139	7.37	25	0.278	7.37	32	0.161	4.37	40	0.133	2.74
		25	0.07	7.37	32	0.04	4.37	32	0.081	4.37	40	0.053	2.74	50	0.044	1.72
		32	0.02	4.37	40	0.013	2.74	40	0.027	2.74	50	0.018	1.72	63	0.015	1.09
100	1667	25	0.115	9.83	25	0.23	9.83	32	0.133	5.83	32	0.267	5.83	40	0.219	3.65
		32	0.033	5.83	32	0.067	5.83	40	0.044	3.65	40	0.088	3.65	50	0.073	2.29
150	2500	25	0.234	14.74	32	0.136	8.75	32	0.271	8.75	40	0.178	5.48	50	0.148	3.44
		32	0.068	8.75	40	0.045	5.48	40	0.089	5.48	50	0.059	3.44	63	0.05	2.17
200	3,333	32	0.112	11.66	32	0.224	11.66	40	0.148	7.3	40	0.295	7.3	50	0.244	4.59
		40	0.037	7.3	40	0.074	7.3	50	0.049	4.59	50	0.098	4.59	63	0.082	2.9
250	4,167	32	0.166	14.58	40	0.109	9.13	40	0.218	9.13	50	0.144	5.73	63	0.121	3.62
		40	0.055	9.13	50	0.036	5.73	50	0.072	5.73	63	0.048	3.62	90	0.022	1.76
300	5,000	40	0.075	10.96	40	0.15	10.96	40	0.3	10.96	50	0.199	6.88	63	0.167	4.34
		50	0.025	6.88	50	0.05	6.88	50	0.099	6.88	63	0.067	4.34	90	0.03	2.11
500	8,333	50	0.061	11.47	50	0.121	11.47	50	0.243	11.47	63	0.163	7.24	90	0.073	3.52
		63	0.02	7.24	63	0.041	7.24	63	0.082	7.24	90	0.029	3.52	110	0.028	2.36
750	12,500	63	0.041	10.86	63	0.083	10.86	63	0.066	10.86	90	0.06	5.28	90	0.149	5.28
		90	0.007	5.28	90	0.015	5.28	90	0.03	5.28	110	0.023	3.54	110	0.058	3.54
1000	16,667	63	0.069	14.48	63	0.137	14.48	63	0.274	14.48	90	0.099	7.04	90	0.247	7.04
		90	0.012	7.04	90	0.025	7.04	90	0.049	7.04	110	0.038	4.72	110	0.096	4.72
		110	0.005	4.72	110	0.01	4.72	110	0.019	4.72	140	0.012	2.91	140	0.03	2.91
1250	20,833	90	0.018	8.8	90	0.037	8.8	90	0.073	8.8	90	0.146	8.8	110	0.142	5.9
		110	0.007	5.9	110	0.014	5.9	110	0.028	5.9	110	0.057	5.9	140	0.045	3.64
1500	25,000	90	0.025	10.56	90	0.05	10.56	90	0.1	130.56	90	0.201	10.56	110	0.195	7.08
		110	0.01	7.08	110	0.019	7.08	110	0.039	7.08	110	0.078	7.08	140	0.062	4.37
		140	0.003	4.37	140	0.006	4.37	140	0.012	4.37	140	0.025	4.37	160	0.033	3.34
1750	29,167	90	0.033	12.32	90	0.066	12.32	90	0.132	12.32	90	0.263	12.32	110	0.255	8.27
		110	0.013	8.27	110	0.013	8.27	110	0.051	8.27	110	0.102	8.27	140	0.081	5.1
2000	33,333	90	0.042	14.08	90	0.083	14.08	90	0.166	14.05	110	0.129	9.45	140	0.102	5.83
		110	0.016	9.45	110	0.032	9.45	110	0.064	9.45	140	0.041	5.83	160	0.054	4.46
2500	41,667	110	0.024	11.81	110	0.048	11.81	110	0.095	11.81	110	0.191	11.81	140	0.151	7.29
3000	50,000	110	0.033	14.17	110	0.065	14.17	110	0.13	14.17	110	0.26	14.17	140	0.208	8.74
3500	58,333	160	0.007	7.8	160	0.014	7.8	160	0.029	7.8	160	0.058	7.8	160	0.144	7.8
4000	66,683	160	0.091	8.92	160	0.018	8.92	160	0.036	8.92	160	0.073	8.92	*	*	*
4500	75,000	160	0.011	10.03	160	0.022	10.03	160	0.045	10.03	160	0.089	10.03	*	*	*
5000	83,333	160	0.013	11.14	160	0.027	11.14	160	0.54	11.14	160	0.108	11.14	160	0.269	11.14
5500	91,667	160	0.016	12.26	160	0.032	12.26	160	0.064	12.26	160	0.128	12.26	*	*	*
6000	100,000	160	0.019	13.37	160	0.037	12.37	160	0.075	13.37	160	0.15	13.37	*	*	*

PRESSURE LOSS CHART
Maximum pressure loss of 0.3 bar—fluid = Compressed Air at 8 bar, 20°C

Flow		Pipe length in metres														
		25			50			100			200			500		
Nm³/h	Nl/min	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s
10	167	20	0.005	1.23	20	0.011	1.23	20	0.022	1.23	20	0.043	1.23	20	0.108	1.23
15	250	20	0.011	1.64	20	0.022	1.84	20	0.044	1.84	20	0.088	1.84	20	0.22	1.84
20	333	20	0.018	2.45	20	0.036	2.45	20	0.073	2.45	20	0.146	2.45	25	0.118	1.53
25	417	20	0.027	3.07	20	0.054	3.07	20	0.108	3.07	20	0.215	3.07	25	0.175	1.91
30	500	20	0.037	3.68	20	0.074	3.68	25	0.148	3.68	20	0.296	3.68	25	0.241	2.29
50	833	20	0.09	6.13	20	0.181	6.13	25	0.118	3.82	25	0.235	3.82	32	0.17	2.27
		25	0.029	3.82	25	0.059	3.82	32	0.034	2.27	32	0.068	2.27	40	0.056	1.42
75	1250	20	0.184	9.2	25	0.012	5.74	25	0.239	5.74	32	0.139	3.4	40	0.114	2.13
		25	0.06	5.74	32	0.035	3.4	32	0.069	3.4	40	0.046	2.13	50	0.038	1.34
100	1667	25	0.099	7.65	25	0.198	7.85	32	0.115	4.54	32	0.229	4.54	40	0.189	2.84
		32	0.029	4.54	32	0.057	4.54	40	0.038	2.84	40	0.075	2.84	50	0.062	1.78
150	2500	25	0.02	11.47	32	0.116	6.81	32	0.233	6.81	40	0.153	4.26	50	0.127	2.68
		32	0.058	6.81	40	0.038	4.26	40	0.077	4.26	50	0.051	2.68	63	0.043	1.69
200	3,333	32	0.096	9.07	32	0.193	9.07	40	0.127	5.68	40	0.254	5.68	50	0.21	3.57
		40	0.032	5.68	40	0.063	5.68	50	0.042	3.57	50	0.084	3.57	63	0.07	2.25
250	4,167	32	0.142	11.34	40	0.094	7.1	40	0.188	7.1	50	0.124	4.46	63	0.104	2.82
		40	0.047	7.1	50	0.031	4.46	50	0.062	4.46	63	0.042	2.82	90	0.019	1.37
300	5,000	40	0.064	8.53	40	0.129	8.53	40	0.258	8.53	50	0.171	5.35	63	0.143	3.38
		50	0.021	5.35	50	0.043	5.35	50	0.085	5.35	63	0.057	3.38	90	0.026	1.64
500	8,333	50	0.052	8.92	50	0.104	8.92	50	0.209	8.92	63	0.14	5.63	90	0.063	2.74
		63	0.018	5.63	63	0.035	5.63	63	0.07	5.63	90	0.025	2.74	110	0.024	1.84
750	12,500	63	0.036	8.45	63	0.071	8.45	63	0.142	8.45	90	0.051	4.11	90	0.128	4.11
		90	0.006	4.11	90	0.013	4.11	90	0.026	4.11	110	0.02	2.76	110	0.05	2.76
1000	16,667	63	0.059	11.27	63	0.118	11.27	63	0.236	11.27	90	0.085	5.48	90	0.212	5.48
		90	0.011	5.48	90	0.021	5.48	90	0.042	5.48	110	0.033	3.68	110	0.082	3.68
1250	20,833	90	0.016	6.85	90	0.031	6.85	90	0.063	6.85	90	0.126	6.85	110	0.122	4.59
		110	0.006	4.59	110	0.012	4.59	110	0.024	4.59	110	0.046	0.59	140	0.039	2.83
1500	25,000	90	0.022	8.21	90	0.043	8.21	90	0.086	8.21	90	0.173	8.21	110	0.167	5.51
		110	0.008	5.51	110	0.017	5.51	110	0.034	5.51	110	0.067	5.51	140	0.053	3.4
1750	29,167	90	0.028	9.58	90	0.057	9.58	90	0.113	9.58	90	0.226	9.58	110	0.219	6.43
		110	0.011	6.43	110	0.022	6.43	110	0.044	6.43	110	0.088	6.43	140	0.07	3.97
2000	33,333	90	0.036	10.95	90	0.071	10.95	90	0.143	10.95	110	0.111	7.35	110	0.277	7.35
		110	0.014	7.35	110	0.028	7.35	110	0.055	7.35	140	0.035	4.54	140	0.088	4.54
2500	41,667	110	0.02	9.19	110	0.041	9.19	110	0.082	9.19	110	0.164	9.19	140	0.13	5.67
3000	50,000	110	0.028	11.03	110	0.056	11.03	110	0.113	11.03	110	0.225	11.03	140	0.179	6.8
3500	58,333	160	0.006	6.07	160	0.012	6.07	160	0.025	6.07	160	0.05	6.07	160	0.124	6.07
4000	66,667	160	0.008	6.94	160	0.016	6.94	160	0.031	6.94	160	0.063	6.94	160	0.157	6.94
4501	75,017	160	0.01	7.8	160	0.019	7.8	160	0.038	7.8	160	0.077	7.8	*	*	*
5000	83,333	160	0.012	8.67	160	0.023	8.67	160	0.046	8.67	160	0.093	8.67	160	0.231	8.67
5500	91,667	160	0.014	9.59	160	0.027	9.54	160	0.055	9.54	160	0.109	9.54	160	0.273	9.54
6000	100,000	160	0.016	10.41	160	0.032	10.41	160	0.063	10.41	160	0.127	10.41	*	*	*

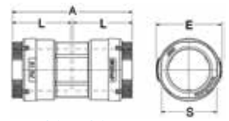
PRESSURE LOSS CHART
Maximum pressure loss of 0.3 bar—fluid = Compressed Air at 10 bar, 20°C

Flow		Pipe length in metres														
		25			50			100			200			500		
Nm³/h	Nl/min	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s	Dn	Δp	m/s
10	167	20	0.005	1	20	0.01	1	20	0.019	1	20	0.038	1	20	0.095	1
15	250	20	0.01	1.51	20	0.019	1.51	20	0.039	1.51	20	0.077	1.51	20	0.194	1.51
20	333	20	0.016	2.01	20	0.032	2.01	20	0.064	2.01	20	0.128	2.01	25	0.104	1.25
25	417	20	0.024	2.51	20	0.047	2.51	20	0.095	2.51	20	0.189	2.51	25	0.154	1.56
30	500	20	0.033	3.01	20	0.065	3.01	20	0.13	3.01	20	0.261	3.01	25	0.212	1.88
50	833	20	0.08	5.02	20	0.159	5.02	25	0.104	3.13	25	0.207	3.13	32	0.15	1.86
		25	0.026	3.13	25	0.052	3.13	32	0.03	1.86	32	0.06	1.86	40	0.049	1.16
75	1250	20	0.162	7.53	25	0.105	4.69	25	0.211	4.69	32	0.122	2.78	40	0.1	1.74
		25	0.053	4.69	32	0.03	2.78	32	0.061	2.78	40	0.041	1.74	50	0.033	1.1
100	1667	25	0.268	10.04	25	0.174	6.26	32	0.101	3.71	32	0.202	3.71	40	0.166	2.33
		32	0.087	6.26	32	0.05	3.71	40	0.033	2.33	40	0.066	2.33	50	0.055	1.46
150	2500	25	0.177	9.39	32	0.103	5.57	32	0.205	5.57	40	0.135	3.49	50	0.112	2.19
		32	0.061	5.57	40	0.034	3.49	40	0.068	3.49	50	0.045	2.19	63	0.038	1.38
200	3,333	25	0.293	12.52	32	0.17	7.43	40	0.112	4.65	40	0.022	4.65	50	0.185	2.92
		32	0.085	7.43	40	0.056	4.65	50	0.037	2.92	50	0.074	2.92	63	0.062	1.84
250	4,167	32	0.125	9.28	40	0.083	5.81	40	0.165	5.81	50	0.109	3.65	50	0.273	3.65
		40	0.041	5.81	50	0.027	3.65	50	0.055	3.65	63	0.037	2.31	63	0.092	2.31
300	5,000	32	0.172	11.14	40	0.114	6.98	40	0.227	6.98	50	0.15	4.38	63	0.126	2.77
		40	0.057	6.98	50	0.038	4.38	50	0.075	4.38	63	0.051	2.77	90	0.023	1.34
500	8,333	40	0.139	11.63	50	0.278	11.63	50	0.184	8.92	63	0.123	4.61	90	0.056	2.24
		50	0.046	7.3	63	0.092	7.3	63	0.062	4.61	90	0.022	2.24	110	0.022	1.5
750	12,500	50	0.093	10.95	63	0.187	8.45	63	0.125	6.92	63	0.251	6.92	90	0.113	3.36
		63	0.031	6.92	90	0.063	6.92	90	0.023	3.36	90	0.045	3.36	110	0.044	2.26
1000	16,667	50	0.155	11.27	63	0.104	9.22	63	0.207	9.22	90	0.075	4.48	90	0.187	4.48
		63	0.052	9.22	90	0.019	4.48	90	0.037	4.48	110	0.029	3.01	110	0.073	3.01
1250	20,833	63	0.077	11.53	63	0.153	11.53	63	0.055	5.6	90	0.111	5.6	90	0.276	5.6
		90	0.014	5.6	90	0.028	5.6	90	0.021	3.76	110	0.043	3.76	110	0.107	3.76
1500	25,000	63	0.105	13.83	63	0.211	13.83	90	0.076	6.72	90	0.152	6.72	110	0.147	4.51
		90	0.019	6.72	90	0.038	6.72	110	0.029	4.51	110	0.059	4.51	140	0.047	2.78
1750	29,167	90	0.025	7.84	90	0.05	7.84	90	0.1	7.84	90	0.199	7.84	110	0.193	5.26
		110	0.01	5.26	110	0.019	5.26	110	0.039	5.26	110	0.077	5.26	140	0.061	3.25
2000	33,333	90	0.031	8.96	90	0.063	8.96	90	0.126	8.96	90	0.252	8.96	110	0.244	6.02
		110	0.012	6.02	110	0.024	6.02	110	0.049	6.02	110	0.098	6.02	140	0.077	3.71
2500	41,667	90	0.046	11.2	90	0.93	11.2	90	0.186	11.2	110	0.144	7.52	140	0.114	4.64
		110	0.018	7.52	110	0.0326	7.52	110	0.072	7.52	140	0.046	4.64	160	0.061	3.55
3000	50,000	90	0.064	13.44	90	0.128	13.44	90	0.256	13.44	110	0.198	9.02	140	0.158	5.57
		110	0.025	9.02	110	0.05	9.02	110	0.099	9.02	140	0.063	5.57	160	0.083	4.26
3500	58,333	110	0.032	10.53	110	0.065	10.53	110	0.013	10.53	110	0.26	10.53	140	0.206	6.5
4000	66,667	110	0.041	12.03	110	0.082	12.03	110	0.164	12.03	140	0.104	7.42	140	0.261	7.42
		140	0.013	7.42	140	0.026	7.42	140	0.52	7.42	160	0.055	5.68	160	0.138	5.68
4500	75,000	110	0.05	13.53	110	0.101	13.53	110	0.202	13.53	140	0.128	8.35	160	0.169	6.39

Air Energy reserve the right to make improvements. Details may change without prior notice.

Unipipe air 16 bar

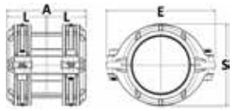
Part No.	Size Ømm	Wall Thick-ness mm	Length m	Weight kg
UATTO.020600	20	1.0	6	0.96
UATTO.025600	25	1.1	6	1.32
UATTO.032600	32	1.2	6	1.86
UATTO.040600	40	1.3	6	2.58
UATTO.050600	50	1.4	6	3.48
UATTO.063600	63	1.8	6	5.64
UATTO.090600	90	2.4	6	10.8
UATTO.110600	110	3.0	6	16.2
UATTO.160600	160	4.3	6	34.2



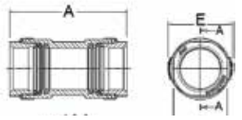
20—90

Coupling 16 bar

Part No.	Size Ømm	A	L	E	S	Weight g
UACCO.020020	20	70	35	37	29	72
UACCO.025025	25	75	37	42	36	96
UACCO.032032	32	94	46	51	43	174
UACCO.040040	40	117	57	63	53	338
UACCO.050050	50	138	68	78.5	66	554
UACCO.063063	63	173	83	95	82	990
UACCO.090090	90	190	93	132	118	1760
UACCO.110110	110	150	73	206	154	2175
UACCO.160160	160	272	133.5	266	221	7800

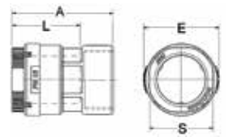


110 – 160



Slip Coupling 16 bar

Part No.	Size Ømm	A	E	S	Weight g
UACC1.020020	20	70	37	29	72
UACC1.025025	25	75	42	36	96
UACC1.032032	32	94	51	33	174
UACC1.040040	40	117	63	53	338
UACC1.050050	50	138	78.5	66	554
UACC1.063063	63	173	95	82	990
UACC1.090090	90	190	132	118	1760

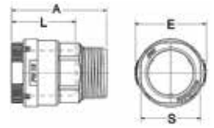


Female Adaptor 16 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UACFO.020015	20 x ½"	55	37	35	29	58
UACFO.025020	25 x ¾"	57	42	37	36	64
UACFO.032025	32 x 1"	69	51	46	43	116
UACFO.040032	40 x 1¼"	80	63	57	53	229
UACFO.050040	50 x 1½"	95	78	66	66	330
UACFO.063050	63 x 2"	120	95	83	82	652

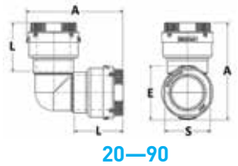
Male Adaptor 16 bar

Part No.	Size Ømm	A	E	S	L	Weight g
UACM0.020015	20 x ½"	49	37	29	35	41
UACM0.020020	20 x ¾"	51.5	37	29	35	41
UACM0.025015	25 x ½"	55	42	36	37	57
UACM0.025020	25 x ¾"	55	42	36	37	57
UACM0.025025	25 x 1"	60.5	42	36	37	57
UACM0.032025	32 x 1"	68	51	43	46	110
UACM0.032032	32 x 1¼"	70	51	43	46	110
UACM0.040032	40 x 1¼"	81	63	53	57	185
UACM0.040040	40 x 1½"	81	63	53	57	185
UACM0.050040	50 x 1½"	92	78.5	66	68	317
UACM0.050050	50 x 2"	95.5	78.5	66	68	317
UACM0.063050	63 x 2"	119	95	82	83	530
UACM0.063063	63 x 2½"	121	95	82	83	530
UACM0.090075	90 x 3"	130	132	118	93	1010

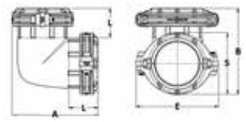


Elbow 16 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UACC9.020020	20	60	37	35	29	84
UACC9.025025	25	76	42	37	36	114
UACC9.032032	32	90	51	46	43	204
UACC9.040040	40	112	63	57	53	553
UACC9.050050	50	143	78.5	68	66	665
UACC9.063063	63	168	95	83	82	1,097
UACC9.090090	90	219	132	93	118	2.480
UACC9.110110	110	214	206	73	154	3,440
UACC9.160160	160	352	266	133.5	221	11,440



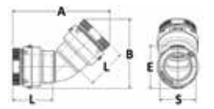
20—90



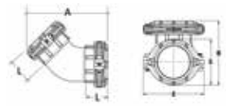
110—160

Elbow 45° 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UACC4.020020	20	85	59	37	35	29	90
UACC4.025025	25	95	68	42	37	36	110
UACC4.032032	32	119	84	51	46	43	205
UACC4.040040	40	141	101	63	57	53	340
UACC4.050050	50	171	124	78.5	68	66	625
UACC4.063063	63	207	150	95	83	82	1,060
UACC4.090090	90	New Sizes Coming					
UACC4.110110	110	New Sizes Coming					
UACC4.160160	160	New Sizes Coming					



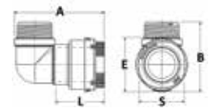
20—90

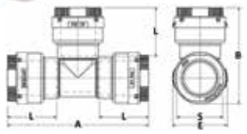


110—160

Male Elbow 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UACM9.020015	20 x ½"	62	48	37	35	29	51
UACM9.025015	25 x ½"	66	57	42	37	36	70
UACM9.025020	25 x ¾"	67	57	42	37	36	75
UACM9.032025	32 x 1"	87	70	51	46	43	140
UACM9.040032	40 x 1¼"	105	78	63	57	53	256
UACM9.040040	40 x 1½"	106	78	63	57	53	257
UACM9.040050	40 x 2"	107	78	63	57	53	258
UACM9.050040	50 x 1½"	126	95	78.5	66	66	420
UACM9.063050	63 x 2"	159	114	95	83	82	835

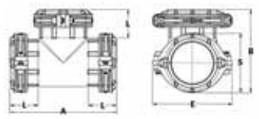




20—90

Tee 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UACCT.020020	20	101	68	37	35	29	121
UACCT.025025	25	111	75	42	37	36	162
UACCT.032032	32	136	93	51	46	43	292
UACCT.040040	40	162	110	63	57	53	473
UACCT.050050	50	206	141	78.5	68	66	925
UACCT.063063	63	230	160	95	83	82	1,386
UACCT.090090	90	306	217	132	93	118	3,380
UACCT.110110	110	277	214	206	73	154	4,540
UACCT.160160	160	484	352	265	133.5	221	16,650



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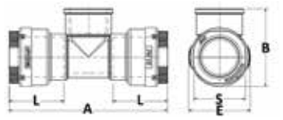
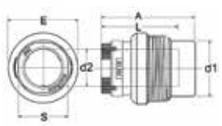


Female Tee 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UACFT.020015	20 x ½"x 20	101	48	37	35	29	95
UACFT.025020	25 x ¾"x 25	111	57	42	37	36	133
UACFT.032025	32 x 1"x 32	136	70	51	46	43	220
UACFT.040032	40 x 1¼"x 40	162	78	63	57	53	364
UACFT.050040	50 x 1½"x 50	206	95	78.5	66	66	703
UACFT.063050	63 x 2"x 63	230	114	95	83	82	1,135



Reducer fitting to pipe 16 bar

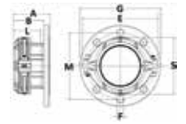
Part No.	Size fitting d1 Ømm	Size outlet d2 Ømm	A	E	L	S	Weight g
UASCO.025020	25	20	46	33	35	29	52
UASCO.032025	32	25	52.6	42	37	36	82
UASCO.040020	40	20	59.5	52	35	29	152
UASCO.040025	40	25	60.6	52	37	36	174
UASCO.040032	40	32	54.6	52	46	43	118.5
UASCO.050040	50	40	73	64.8	57	53	240
UASCO.063040	63	40	86.3	79.5	57	53	394
UASCO.063050	63	50	84	79.5	68	66	416
UASCO.090063	90	63	111.8	114	83	82	1150
UASCO.110090	110	90	117	123	93	118	1250
UASCO.160110	160	110					

unipipe air

Flange Adaptor 16 bar

Part No.	Size Ømm	A	B	E	F	G	M	L	S	Weight g
UACJF.090075	90 x 3"									
UACJF.110100	110 x4"	99	73	206	18	220	180	75	154	2,485
UACJF.160150	160 x 6"	184	171	221	23.5	283	240.5	133.5	221	7450

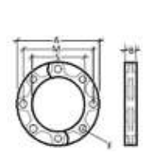
90, 160



110

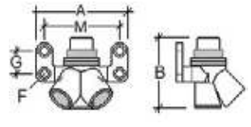
Fitting Flange 16 bar converts fittings eg Elbow or Tee to flanged connection

Part No.	Size Ømm	A	B	F	M	S
UAZJF.090075	DN80 - 3"					
UAZJF.110100	DN100 -4"	220	*	18	180	*
UAZJF.160150	DN160 - 6"	283	39	23.5	240.5	186



Wall Outlet 16 bar

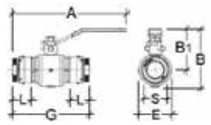
Part No.	Inlet Ømm spigot	Outlet G	No of out-lets	A	B	F	G	M	Weight g
UASFS.025015	25	½"	1	99	72	6	24	83	145
UASFD.025015	25	½"	2	99	72	6	24	83	161



1. I.D ring
2. Outlet
3. Purge Valve

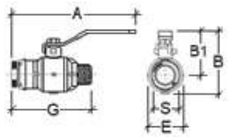
The versatile wall outlet (single or double) can be direct coupled with either of

- Coupling
- Elbow
- Tee (horizontal or vertical)
- Valve



Ball Valve pipe to pipe 16 bar

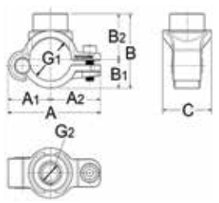
Part No.	Pipe - Pipe Ømm	A	B	B1	E	G	L	L
UACCV.020020	20	131	73	108	40	99	35	35
UACCV.025020	25 x 20	131	73	108	40	102	37	37
UACCV.025025	25	150	87	122	50	110.5	37	37
UACCV.032032	32	203	111	170	61	137	46	46
UACCV.040040	40	213	121	175	72	169	57	57
UACCV.050050	50	282	156	235	89	200	68	68
UACCV.063063	63	306	176	249	109	253.5	83	83



Ball Valve pipe to thread 16 bar

Part No.	Pipe Ømm - Thread	A	B	B1	E	G	L	S
UACMV.020015	20 x ½"	131	73	108	40	94	35	29
UACMV.025020	25 x ¾"	150	87	122	50	104.5	37	36
UACMV.032025	32 x 1"	203	111	170	61	132	46	43
UACMV.040032	40 x 1¼"	213	121	175	72	145.5	57	53
UACMV.050040	50 x 1½"	282	156	235	89	187.5	68	66
UACMV.063050	63 x 2"							

ACCESSORIES 40/16 BAR



Saddle Branch 40/16 bar

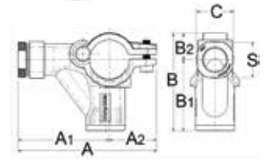
Part No.	Size Ømm	bar	A	A1	A2	B	B1	B2	C	Weight g
UCHF0.025015	25 x ½"	40	62	25	37	51	17.5	17.5	33	71
UCHF0.032015	32 x ½"	40	75	32	42.5	57.5	21.5	21.5	33	92
UCHF0.040015	40 x ½"	40	89.5	41	48.5	69.5	27	27	47	163
UCHF0.040020	40 x ¾"	40	89.5	41	48.5	69.5	27	27	47	152
UCHF0.050015	50 x ½"	40	102	46.5	55.5	84	32	32	47	217
UCHF0.050020	50 x ¾"	40	102	46.5	55.5	84	32	32	47	204
UCHF0.050025	50 x 1"	40	102	46.5	55.5	84	32	32	47	186
UCHF0.063015	63 x ½"	40	122	58	64	99	40	40	58	367
UCHF0.063020	63 x ¾"	40	122	58	64	99	40	40	58	356
UCHF0.063025	63 x 1"	40	122	58	64	99	40	40	58	335
UBHF0.090025	90 x 1"	40	159.5	71.5	88	130	53	53	66	512
UBHF0.090050	90 x 2"	40	159.5	71.5	88	130	53	53	66	605
UBHF0.110025	110 x 1"	30	179.5	81	98	150	65	65	66	570
UBHF0.110050	110 x 2"	30	179.5	81	98	150	65	65	66	645
UCHF0.110075	110 x 3"	16	179.5	81	98	150	65	65	66	
UAHF0.160050	160 x 2"	16	263	120.5	142.5	210.5	91.5	119	121	1927
UAHF0.160075	160 x 3"	16	263	120.5	142.5	227	91.5	135.5	122	2015

unipipe air

ACCESSORIES 70 BAR

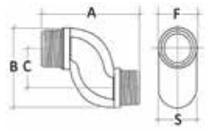
Branch 70 bar

Part No.	Size Ømm	A	A1	A2	B	B1	B2	C	S	Weight g
UCICO.025020	25 x 20	113	76.5	36.5	70	52.5	17.5	33	29	164
UCICO.032020	32 x 20	126	83.5	42.5	81	59.5	21.5	33	29	188
UCICO.040020	40 x 20	142	94	48	100	73	27	38	29	350
UCICO.040025	40 x 25	143	95	48	100	73	27	38	36	322
UCICO.050020	50 x 20	150	94.5	55.5	112	80.5	31.5	38.5	29	388
UCICO.050025	50 x 25	150	94.5	55.5	112.5	80.5	31.5	38.5	36	570
UCICO.063020	63 x 20	172	108	64	131.5	92	39.5	38	29	570
UCICO.063025	63 x 25	174	110	64	131.5	92	39.5	38	36	523



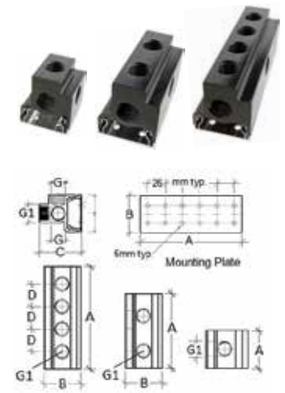
Manifold Nipple 70 bar

Part No.	G	A	B	C	F	S	Weight g
UCMMG.015015	½"X ½"	56	40	20	20	19	26.5



Wall Manifold 70 bar

Part No.	G	G1	Front ports	All Ports	A	B	C	D	Weight g
UCFFM.015015	½"	½"	1	4	50	56	63	*	200
UCFFN.015015	½"	½"	2	5	102	56	63	46	433
UCFFP.015015	½"	½"	4	7	154	56	63	32	650
UCFFM.020015	¾"	½"	1	4	50	56	63	*	200
UCFFN.015017	¾"	½"	2	5	102	56	63	46	433
UCFFP.015018	¾"	½"	4	7	154	56	63	32	650

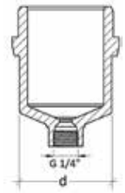


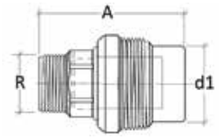
Threaded Plug 70 bar

Part No.	Plug Ømm	A	B	C	Weight g
UCMPO.020020	¾"	16	12	32	24
UCMPO.025025	1"	21	15	40	39

Purge Plug

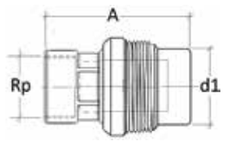
Part No.	Plug Ømm	Pressure bar
UASVO.020008	20	70
UASVO.025008	25	70
UASVO.032008	32	70
UASVO.040008	40	70
UASVO.050008	50	70
UASVO.063008	63	70
UASVO.090008	90	70
UASVO.110008	110	70
UASVO.160008	160	70





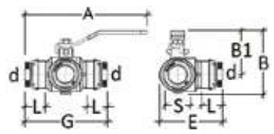
Fitting to Male Adaptor 70 bar

Part No.	Size Ømm	R	A	E	d1
UCSM0.020015	20	½"	NEW SIZES COMING	33	NEW SIZES COMING
UCSM0.025020	25	¾"		42	
UCSM0.032025	32	1"		52	
UCSM0.040032	40	1¼"		52	
UCSM0.050040	50	1½"		52	
UCSM0.063050	63	2"		64.8	
UCSM0.090075	90	3"		79.5	



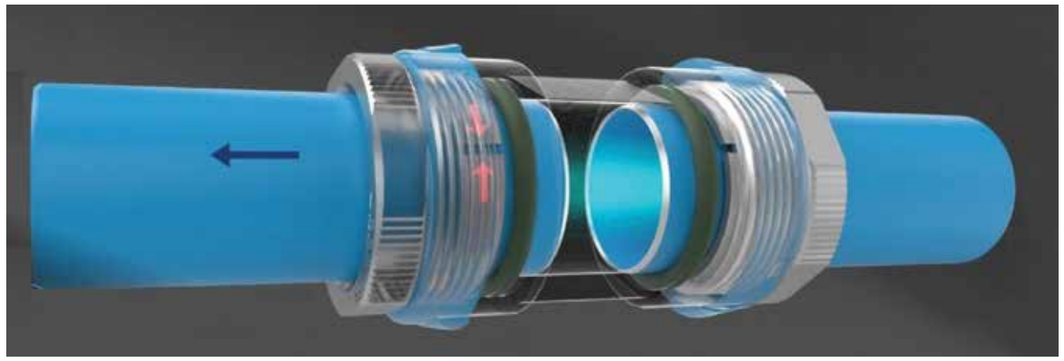
Fitting to Female Adaptor 70 bar

Part No.	Size Ømm	Rp	A	E	d1
UCSF0.020015	20	½"	NEW SIZES COMING	33	NEW SIZES COMING
UCSF0.025020	25	¾"		42	
UCSF0.032025	32	1"		52	
UCSF0.040032	40	1¼"		52	
UCSF0.050040	50	1½"		52	
UCSF0.063050	63	2"		64.8	
UCSF0.090075	90	3"		79.5	



3-way Ball Valve 16 bar T-port

Part No.	Size Ømm	A	B	B1	E	G	L
UACCB.020015	32 x 32 x 32	203	111	170	NEW SIZES COMING	137	46
UACCB.025020	40 x 40 x 40	213	121	175		169	57
UACCB.032025	50 x 50 x 50	282	156	235		200	68
UACCB.040032	63 x 63 x 63	306	176	249		253.5	83



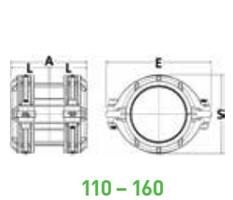
Nitrogen 16 bar

Part No.	Size Ømm	Wall Thick-ness mm	Length m	Weight kg
UWTT0.020600	20	1.0	6	0.96
UWTT0.025600	25	1.1	6	1.32
UWTT0.032600	32	1.2	6	1.86
UWTT0.040600	40	1.3	6	2.58
UWTT0.050600	50	1.4	6	3.48
UWTT0.063600	63	1.8	6	5.64
UWTT0.090600	90	2.4	6	10.8

Coupling 16 bar

Part No.	Size Ømm	A	L	E	S	Weight g
UWCC0.020020	20	70	35	37	29	72
UWCC0.025025	25	75	37	42	36	96
UWCC0.032032	32	94	46	51	43	174
UWCC0.040040	40	117	57	63	53	338
UWCC0.050050	50	138	68	78.5	66	554
UWCC0.063063	63	173	83	95	82	990
UWCC0.090090	90	190	93	132	118	1760
UWCC0.110110	110	150	73	206	154	2175
UWCC0.160160	160	272	133.5	266	221	7800

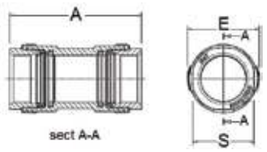
20—90



110 – 160

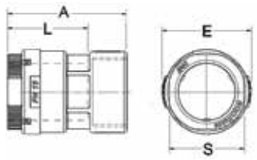
Slip Coupling 16 bar

Part No.	Size Ømm	A	E	S	Weight g
UWCC1.020020	20	70	37	29	72
UWCC1.025025	25	75	42	36	96
UWCC1.032032	32	94	51	33	174
UWCC1.040040	40	117	63	53	338
UWCC1.050050	50	138	78.5	66	554
UWCC1.063063	63	173	95	82	990
UWCC1.090090	90	190	132	118	1760



Female Adaptor 16 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UWCF0.020015	20 x ½"	55	37	35	29	58
UWCF0.025020	25 x ¾"	57	42	37	36	64
UWCF0.032025	32 x 1"	69	51	46	43	116
UWCF0.040032	40 x 1¼"	80	63	57	53	229
UWCF0.050040	50 x 1½"	95	78	66	66	330
UWCF0.063050	63 x 2"	120	95	83	82	652



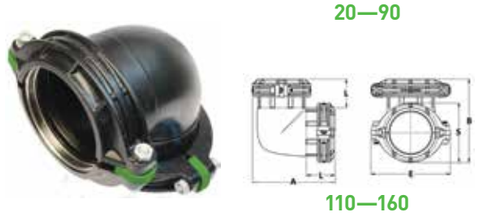
Air Energy reserve the right to make improvements. Details may change without prior notice.

Male Adaptor 16 bar

Part No.	Size Ømm	A	E	S	L	Weight g
UWCM0.020015	20 x ½"	49	37	29	35	41
UWCM0.020020	20 x ¾"	51.5	37	29	35	41
UWCM0.025020	25 x ¾"	55	42	36	37	57
UWCM0.025025	25 x 1"	60.5	42	36	37	57
UWCM0.032025	32 x 1"	68	51	43	46	110
UWCM0.032032	32 x 1¼"	70	51	43	46	110
UWCM0.040032	40 x 1¼"	81	63	53	57	185
UWCM0.040040	40 x 1½"	81	63	53	57	185
UWCM0.050040	50 x 1½"	92	78.5	66	68	317
UWCM0.050050	50 x 2"	95.5	78.5	66	68	317
UWCM0.063050	63 x 2"	119	95	82	83	530
UWCM0.063063	63 x 2½"	121	95	82	83	530
UWCM0.090075	90 x 3"	130	132	118	93	1010

Elbow 16 bar

20—90



110—160

Part No.	Size Ømm	A	E	L	S	Weight g
UWCC9.020020	20	60	37	35	29	84
UWCC9.025025	25	76	42	37	36	114
UWCC9.032032	32	90	51	46	43	204
UWCC9.040040	40	112	63	57	53	553
UWCC9.050050	50	143	78.5	68	66	665
UWCC9.063063	63	168	95	83	82	1,097
UWCC9.090090	90	219	132	93	118	2.480
UWCC9.110110	110	214	206	73	154	3,440
UWCC9.160160	160	352	266	133.5	221	11,440

Elbow 45° 16 bar

20—90

Part No.	Size Ømm	A	B	E	L	S	Weight g
UWCC4.020020	20	85	59	37	35	29	90
UWCC4.025025	25	95	68	42	37	36	110
UWCC4.032032	32	119	84	51	46	43	205
UWCC4.040040	40	141	101	63	57	53	340
UWCC4.050050	50	171	124	78.5	68	66	625
UWCC4.063063	63	207	150	95	83	82	1,060

Male Elbow 16 bar

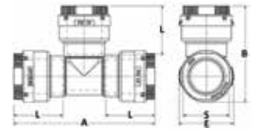
110—160

Part No.	Size Ømm	A	B	E	L	S	Weight g
UWCM9.020015	20 x ½"	62	48	37	35	29	51
UWCM9.025020	25 x ¾"	67	57	42	37	36	75
UWCM9.032025	32 x 1"	87	70	51	46	43	140
UWCM9.040032	40 x 1¼"	105	78	63	57	53	256
UWCM9.050040	50 x 1½"	126	95	78.5	66	66	420
UWCM9.063050	63 x 2"	159	114	95	83	82	835

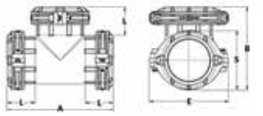
unipipe nitro

Tee 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UWCCT.020020	20	101	68	37	35	29	121
UWCCT.025025	25	111	75	42	37	36	162
UWCCT.032032	32	136	93	51	46	43	292
UWCCT.040040	40	162	110	63	57	53	473
UWCCT.050050	50	206	141	78.5	68	66	925
UWCCT.063063	63	230	160	95	83	82	1,386
UWCCT.090090	90	306	217	132	93	118	3,380
UWCCT.110110	110	277	214	206	73	154	4,540
UWCCT.160160	160	484	352	265	133.5	221	16,650



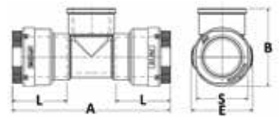
20—90



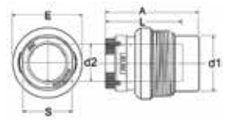
110—160

Female Tee 16 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UWCFT.020015	20 x ½"x 20	101	48	37	35	29	95
UWCFT.025020	25 x ¾"x 25	111	57	42	37	36	133
UWCFT.032025	32 x 1"x 32	136	70	51	46	43	220
UWCFT.040032	40 x 1¼"x 40	162	78	63	57	53	364
UWCFT.050040	50 x 1½"x 50	206	95	78.5	66	66	703
UWCFT.063050	63 x 2"x 63	230	114	95	83	82	1,135



Reducer fitting to pipe 16 bar



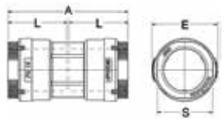
Part No.	Size fitting d1 Ømm	Size outlet d2 Ømm	A	E	L	S	Weight g
UWSC0.025020	25	20	46	33	35	29	52
UWSC0.032025	32	25	52.6	42	37	36	82
UWSC0.040020	40	20	59.5	52	35	29	152
UWSC0.040025	40	25	60.6	52	37	36	174
UWSC0.040032	40	32	54.6	52	46	43	118.5
UWSC0.050040	50	40	73	64.8	57	53	240
UWSC0.063040	63	40	86.3	79.5	57	53	394
UWSC0.063050	63	50	84	79.5	68	66	416
UWSC0.090063	90	63	111.8	114	83	82	1150
UWSC0.110090	110	90	117	123	93	118	1250
UWSC0.160090	160	110					

unipipe airHP

Unipipe air HP <70 bar

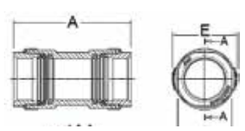
Part No.	Size Ømm	Wall Thick-ness mm	Pressure rating bar	Length m	Weight kg
UCTT0.020400	20	2.0	70	4	0.96
UCTT0.025400	25	2.5	70	4	1.32
UCTT0.032400	32	3.0	70	4	1.86
UCTT0.040400	40	4.0	70	4	2.58
UCTT0.050400	50	5.0	70	4	3.48
UCTT0.063400	63	6.0	70	4	5.64

Coupling 70 bar



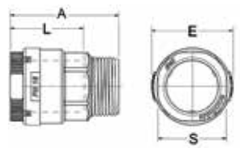
Part No.	Size Ømm	bar	A	L	E	S	Weight g
UCCC0.020020	20	70	70	35	37	29	72
UCCC0.025025	25	70	75	37	42	36	96
UCCC0.032032	32	70	94	46	51	43	174
UCCC0.040040	40	70	117	57	63	53	338
UCCC0.050050	50	70	138	68	78.5	66	554
UCCC0.063063	63	70	173	83	95	82	990

Slip Coupling 70 bar



Part No.	Size Ømm	A	E	S	Weight g
UCCC1.020020	20	70	37	29	72
UCCC1.025025	25	75	42	36	96
UCCC1.032032	32	94	51	33	174
UCCC1.040040	40	117	63	53	338
UCCC1.050050	50	138	78.5	66	554
UCCC1.063063	63	173	95	82	990

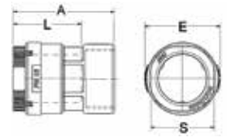
Male Adaptor 70 bar



Part No.	Size Ømm	A	E	S	L	Weight g
UACMO.020015	20 x ½"	49	37	29	35	41
UACMO.020020	20 x ¾"	51.5	37	29	35	41
UACMO.025020	25 x ¾"	55	42	36	37	57
UACMO.025025	25 x 1"	60.5	42	36	37	57
UACMO.032025	32 x 1"	68	51	43	46	110
UACMO.032032	32 x 1¼"	70	51	43	46	110
UACMO.040032	40 x 1¼"	81	63	53	57	185
UACMO.040040	40 x 1½"	81	63	53	57	185
UACMO.050040	50 x 1½"	92	78.5	66	68	317
UACMO.050050	50 x 2"	95.5	78.5	66	68	317
UACMO.063050	63 x 2"	119	95	82	83	530
UACMO.063063	63 x 2½"	121	95	82	83	530

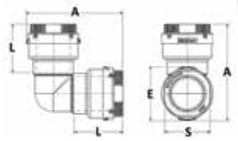
Female Adaptor 70 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UCCF0.020015	20 x ½"	55	37	35	29	58
UCCF0.025020	25 x ¾"	57	42	37	36	64
UCCF0.032025	32 x 1"	69	51	46	43	116
UCCF0.040032	40 x 1¼"	80	63	57	53	229
UCCF0.050040	50 x 1½"	95	78	66	66	330
UCCF0.063050	63 x 2"	120	95	83	82	652



Elbow 70 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UCCC9.020020	20	60	37	35	29	84
UCCC9.025025	25	76	42	37	36	114
UCCC9.032032	32	90	51	46	43	204
UCCC9.040040	40	112	63	57	53	553
UCCC9.050050	50	143	78.5	68	66	665
UCCC9.063063	63	168	95	83	82	1,097

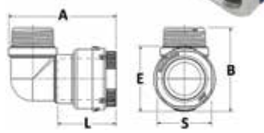


Elbow 45° 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UCCC4.020020	20	85	59	37	35	29	90
UCCC4.025025	25	95	68	42	37	36	110
UCCC4.032032	32	119	84	51	46	43	205
UCCC4.040040	40	141	101	63	57	53	340
UCCC4.050050	50	171	124	78.5	68	66	625
UCCC4.063063	63	207	150	95	83	82	1,060

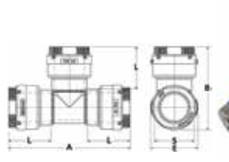
Male Elbow 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UCCM9.020015	20 x ½"	62	48	37	35	29	51
UCCM9.025020	25 x ¾"	67	57	42	37	36	75
UCCM9.032025	32 x 1"	87	70	51	46	43	140
UCCM9.040032	40 x 1¼"	105	78	63	57	53	256
UCCM9.050040	50 x 1½"	126	95	78.5	66	66	420
UCCM9.063050	63 x 2"	159	114	95	83	82	835



Tee 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UCCCT.020020	20	101	68	37	35	29	121
UCCCT.025025	25	111	75	42	37	36	162
UCCCT.032032	32	136	93	51	46	43	292
UCCCT.040040	40	162	110	63	57	53	473
UCCCT.050050	50	206	141	78.5	68	66	925
UCCCT.063063	63	230	160	95	83	82	1,386



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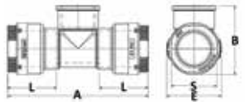
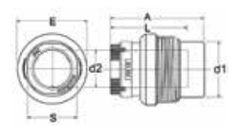


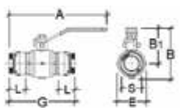
Female Tee 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UCCFT.020015	20 x ½"x 20	101	48	37	35	29	95
UCCFT.025020	25 x ¾"x 25	111	57	42	37	36	133
UCCFT.032025	32 x 1"x 32	136	70	51	46	43	220
UCCFT.040032	40 x 1¼"x 40	162	78	63	57	53	364
UCCFT.050040	50 x 1½"x 50	206	95	78.5	66	66	703
UCCFT.063050	63 x 2"x 63	230	114	95	83	82	1,135



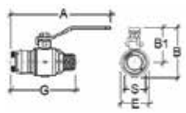
Reducer fitting to pipe 70 bar

Part No.	Size fitting d1 Ømm	Size outlet d2 Ømm	A	E	L	S	Weight g
UCSC0.025020	25	20	46	33	35	29	52
UCSC0.032025	32	25	52.6	42	37	36	82
UCSC0.040020	40	20	59.5	52	35	29	152
UCSC0.040025	40	25	60.6	52	37	36	174
UCSC0.040032	40	32	54.6	52	46	43	118.5
UCSC0.050040	50	40	73	64.8	57	53	240
UCSC0.063040	63	40	86.3	79.5	57	53	394
UCSC0.063050	63	50	84	79.5	68	66	416



Ball Valve pipe to pipe 40 bar

Part No.	Size Ømm	A	B	B1	E	G	L	S
UCCCV.020020	20	131	73	108	40	99	35	29
UCCCV.025020	25 x 20	131	73	108	40	102	37	36
UCCCV.025025	25	150	87	122	50	110.5	37	36
UCCCV.032032	32	203	111	170	61	137	46	43
UCCCV.040040	40	213	121	175	72	169	57	53
UCCCV.050050	50	282	156	235	89	200	68	66
UCCCV.063063	63	306	176	249	109	253.5	83	82



Ball Valve pipe to male thread 40 bar

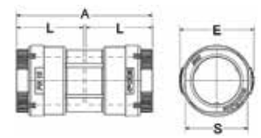
Part No.	Size Ømm	A	B	B1	E	G	L	S
UCCCV.020020	20	131	73	108	40	99	35	29
UCCCV.025020	25 x 20	131	73	108	40	102	37	36
UCCCV.025025	25	150	87	122	50	110.5	37	36
UCCCV.032032	32	203	111	170	61	137	46	43
UCCCV.040040	40	213	121	175	72	169	57	53
UCCCV.050050	50	282	156	235	89	200	68	66
UCCCV.063063	63	306	176	249	109	253.5	83	82

Unipipe Oil HP <70 bar

Part No.	Size Ømm	Wall Thick-ness mm	Pressure rating bar	Length m	Weight kg
UOTT0.020400	20		70	4	0.96
UOTT0.025400	25		70	4	1.32

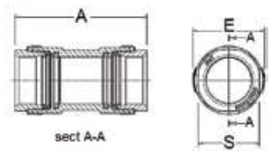
Coupling 70 bar

Part No.	Size Ømm	A	L	E	S	Weight g
UOCC0.020020	20	70	35	37	29	72
UOCC0.025025	25	75	37	42	36	96



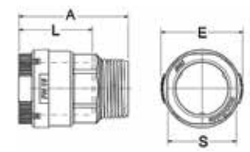
Slip Coupling 70 bar

Part No.	Size Ømm	A	E	S	Weight g
UOCC1.020020	20	70	37	29	72
UOCC1.025025	25	75	42	36	96



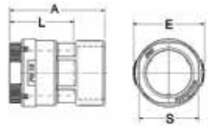
Male Adaptor 70 bar

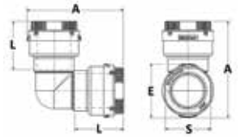
Part No.	Size Ømm	A	E	L	S	Weight g
UOCM0.020015	20 x ½"	49	37	29	35	41
UOCM0.020020	20 x ¾"	51.5	37	29	35	41
UOCM0.025020	25 x ¾"	55	42	36	37	57
UOCM0.025025	25 x 1"	60.5	42	36	37	57



Female Adaptor 70 bar

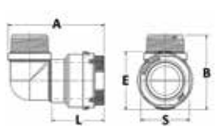
Part No.	Size Ømm	A	E	L	S	Weight g
UOCF0.020015	20 x ½"	55	37	35	29	58
UOCF0.025020	25 x ¾"	57	42	37	36	64
UOCF0.032025	32 x 1"	69	51	46	43	116



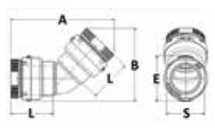
Elbow 70 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UOCC9.020020	20	60	37	35	29	84
UOCC9.025025	25	76	42	37	36	114

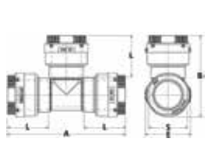
Male Elbow 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UOCM9.020015	20 x ½"	62	48	37	35	29	51
UOCM9.025020	25 x ¾"	67	57	42	37	36	75

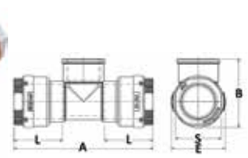
Elbow 45° 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UOCC4.020020	20	85	59	37	35	29	90
UOCC4.025025	25	95	68	42	37	36	110

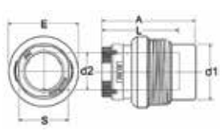
Tee 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UOCCT.020020	20	101	68	37	35	29	121
UOCCT.025025	25	111	75	42	37	36	162

Female Tee 70 bar

Part No.	Size Ømm	A	B	E	L	S	Weight g
UOCFT.020015	20 x ½"x 20	101	48	37	35	29	95
UOCFT.025020	25 x ¾"x 25	111	57	42	37	36	133

Reducer fitting to pipe 70 bar

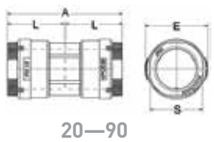
Part No.	Size fitting d1 Ømm	Size outlet d2 Ømm	A	E	L	S	Weight g
UOSC0.025020	25	20	46	33	35	29	52

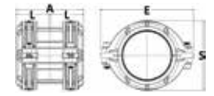
Unipipe Vacuum -0.87 bar

Part No.	Size Ømm	Wall Thick-ness mm	Length m	Weight kg
UVTT0.020600	20	1.0	6	0.96
UVTT0.025600	25	1.1	6	1.32
UVTT0.032600	32	1.2	6	1.86
UVTT0.040600	40	1.3	6	2.58
UVTT0.050600	50	1.4	6	3.48
UVTT0.063600	63	1.8	6	5.64
UVTT0.090600	90	2.4	6	10.8
UVTT0.110600	110	3.0	6	16.2
UVTT0.160600	160	4.3	6	34.2

Coupling -0.87 bar

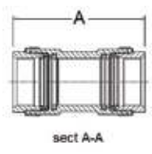
Part No.	Size Ømm	A	L	E	S	Weight g
UVCC0.020020	20	70	35	37	29	72
UVCC0.025025	25	75	37	42	36	96
UVCC0.032032	32	94	46	51	43	174
UVCC0.040040	40	117	57	63	53	338
UVCC0.050050	50	138	68	78.5	66	554
UVCC0.063063	63	173	83	95	82	990
UVCC0.090090	90	190	93	132	118	1760
UVCC0.110110	110	150	73	206	154	2175
UVCC0.160160	160	272	133.5	266	221	7800





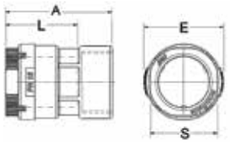
Slip Coupling -0.87 bar

Part No.	Size Ømm	A	E	S	Weight g
UVCC1.020020	20	70	37	29	72
UVCC1.025025	25	75	42	36	96
UVCC1.032032	32	94	51	33	174
UVCC1.040040	40	117	63	53	338
UVCC1.050050	50	138	78.5	66	554
UVCC1.063063	63	173	95	82	990
UVCC1.090090	90	190	132	118	1760

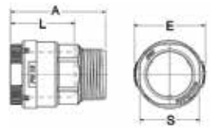


Female Adaptor -0.87 bar

Part No.	Size Ømm	A	E	L	S	Weight g
UVCF0.020015	20 x ½"	55	37	35	29	58
UVCF0.025020	25 x ¾"	57	42	37	36	64
UVCF0.032025	32 x 1"	69	51	46	43	116
UVCF0.040032	40 x 1¼"	80	63	57	53	229
UVCF0.050040	50 x 1½"	95	78	66	66	330
UVCF0.063050	63 x 2"	120	95	83	82	652

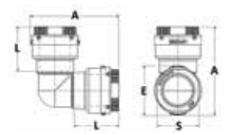


Male Adaptor -0.87 bar

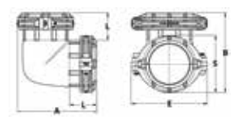


Part No.	Size Ømm	A	E	S	L	Weight g
UVCM0.020015	20 x ½"	49	37	29	35	41
UVCM0.020020	20 x ¾"	51.5	37	29	35	41
UVCM0.025020	25 x ¾"	55	42	36	37	57
UVCM0.025025	25 x 1"	60.5	42	36	37	57
UVCM0.032025	32 x 1"	68	51	43	46	110
UVCM0.032032	32 x 1¼"	70	51	43	46	110
UVCM0.040032	40 x 1¼"	81	63	53	57	185
UVCM0.040040	40 x 1½"	81	63	53	57	185
UVCM0.050040	50 x 1½"	92	78.5	66	68	317
UVCM0.050050	50 x 2"	95.5	78.5	66	68	317
UVCM0.063050	63 x 2"	119	95	82	83	530
UVCM0.063063	63 x 2½"	121	95	82	83	530
UVCM0.090075	90 x 3"	130	132	118	93	1010

Elbow -0.87 bar



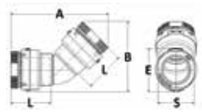
20—90



110—160

Part No.	Size Ømm	A	E	L	S	Weight g
UVCC9.020020	20	60	37	35	29	84
UVCC9.025025	25	76	42	37	36	114
UVCC9.032032	32	90	51	46	43	204
UVCC9.040040	40	112	63	57	53	553
UVCC9.050050	50	143	78.5	68	66	665
UVCC9.063063	63	168	95	83	82	1,097
UVCC9.090090	90	219	132	93	118	2.480
UVCC9.110110	110	214	206	73	154	3,440
UVCC9.160160	160	352	266	133.5	221	11,440

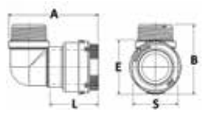
Elbow 45° -0.87 bar



20—90

Part No.	Size Ømm	A	B	E	L	S	Weight g
UVCC4.020020	20	85	59	37	35	29	90
UVCC4.025025	25	95	68	42	37	36	110
UVCC4.032032	32	119	84	51	46	43	205
UVCC4.040040	40	141	101	63	57	53	340
UVCC4.050050	50	171	124	78.5	68	66	625
UVCC4.063063	63	207	150	95	83	82	1,060

Male Elbow -0.87 bar



110—160

Part No.	Size Ømm	A	B	E	L	S	Weight g
UVCM9.020015	20 x ½"	62	48	37	35	29	51
UVCM9.025020	25 x ¾"	67	57	42	37	36	75
UVCM9.032025	32 x 1"	87	70	51	46	43	140
UVCM9.040032	40 x 1¼"	105	78	63	57	53	256
UVCM9.050040	50 x 1½"	126	95	78.5	66	66	420
UVCM9.063050	63 x 2"	159	114	95	83	82	835

Tee -0.87 bar

20—90

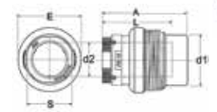
110—160

Part No.	Size Ømm	A	B	E	L	S	Weight g
UVCCT.020020	20	101	68	37	35	29	121
UVCCT.025025	25	111	75	42	37	36	162
UVCCT.032032	32	136	93	51	46	43	292
UVCCT.040040	40	162	110	63	57	53	473
UVCCT.050050	50	206	141	78.5	68	66	925
UVCCT.063063	63	230	160	95	83	82	1,386
UVCCT.090090	90	306	217	132	93	118	3,380
UVCCT.110110	110	277	214	206	73	154	4,540
UVCCT.160160	160	484	352	265	133.5	221	16,650

Female Tee -0.87 bar

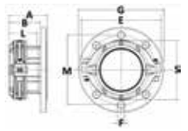
Part No.	Size Ømm	A	B	E	L	S	Weight g
UVCFT.020015	20 x ½"x 20	101	48	37	35	29	95
UVCFT.025020	25 x ¾"x 25	111	57	42	37	36	133
UVCFT.032025	32 x 1"x 32	136	70	51	46	43	220
UVCFT.040032	40 x 1¼"x 40	162	78	63	57	53	364
UVCFT.050040	50 x 1½"x 50	206	95	78.5	66	66	703
UVCFT.063050	63 x 2"x 63	230	114	95	83	82	1,135

Reducer fitting to pipe -0.87 bar



Part No.	Size fitting d1 Ømm	Size outlet d2 Ømm	A	E	L	S	Weight g
UVSC0.025020	25	20	46	33	35	29	52
UVSC0.032025	32	25	52.6	42	37	36	82
UVSC0.040020	40	20	59.5	52	35	29	152
UVSC0.040025	40	25	60.6	52	37	36	174
UVSC0.040032	40	32	54.6	52	46	43	118.5
UVSC0.050040	50	40	73	64.8	57	53	240
UVSC0.063040	63	40	86.3	79.5	57	53	394
UVSC0.063050	63	50	84	79.5	68	66	416
UVSC0.090063	90	63	111.8	114	83	82	1150
UVSC0.110090	110	90	117	123	93	118	1250
UVSC0.160090	160	110	NEW SIZES COMING				

Flange Adaptor -0.87 bar



Part No.	Size Ømm	A	B	E	F	G	M	L	S	Weight g
UVCJF.090075	90 x 3"	NEW SIZES COMING								
UVCJF.110100	110 x4"	99	73	206	18	220	180	75	154	2,485
UVCJF.160150	160 x 6"	184	171	221	23.5	283	240.5	133.5	221	7450

Air Energy reserve the right to make improvements. Details may change without prior notice.

TF015035

TF015076

TG015035

TG015076

PIPE CUTTERS

Part No.	size mm	Description
TF015035	15 - 35	Rotary pipe cutter Cu/ Al /SS, built in deburrer
TF015076	15 - 76	Rotary pipe cutter Cu/ Al /SS, built in deburrer
TGO15035		Replacement wheel suits TF01535
TGO15076		Replacement wheel suits TF015076
PEC170E	15 - 170	Powerful, lightweight and handy PipeCut 170E can be used for cutting both metal and plastic pipes. Because of its adjustable speed and steady torque feature it is ideal for cutting aluminium or stainless steel.The gripper arms adjust to the pipe diameter and keep the cut square to the pipe.

PEC170E

TT015168

TR015054

TS-TR - fitted

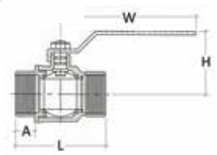
TIU160

CHAMFER TOOLS & DEPTH GAUGE

Part No.	size mm	Description
TT015168	15 - 168	Pipe deburrer with 2 spare blades in handle
TR054	15 - 54	Multi reamer inside and outside. Hand operated or with adaptor can be used with cordless drill
TS-TR		Power tool adaptor for TR054
TU160	20 -160	Depth gauge for marking correct insertion depth

BRASS BALL VALVE NICKEL PLATED

Part No.	Size Ømm	Iches size	A	H	L	W	Pressure rating kPa	Weight kg
BV06	6	¼"	12	35	50	85	4000	0.16
BV10	10	⅜"	16	35	50	85	4000	0.14
BV15	15	½"	16.5	39	60	95	4000	0.2
BV20	20	¾"	18	43	67	115	3000	0.3
BV25	25	1"	19.5	60	76	115	3000	0.43
BV32	32	1¼"	23	63	93	125	2500	0.73
BV40	40	1½"	23	77	101	180	2500	1.12
BV50	50	2"	27	89	122	180	2500	1.72
BV65	65	2½"	30	112	151	257	2000	3.84
BV80	80	3"	37	120	174	301	2000	5.39



PIPE CLIPS

Part No.	size mm	Unipipe preferred	Description
CL20	18-22	20	Non corroding PP Pipe clip with ratchet closure
CL25	25-28	25	Non corroding PP Pipe clip with ratchet closure
CL32	31-35	32	Non corroding PP Pipe clip with ratchet closure
CL40	39-44	40	Non corroding PP Pipe clip with ratchet closure
CL50	48-53	50	Non corroding PP Pipe clip with ratchet closure
CL63	63	63	Heavy duty non corroding PP Pipe Clip
HZIP.000022	20 - 25	20, 25	Insulated Zinc Bolted Clip Head M10
HZIP.000035	32 - 35	32	Insulated Zinc Bolted Clip Head M10
HZIP.000042	40 - 42	40	Insulated Zinc Bolted Clip Head M10
HZIP.000054	50 - 56	50	Insulated Zinc Bolted Clip Head M10
HZIP.000063	63 - 67	63	Insulated Zinc Bolted Clip Head M10
HZIP.000089	83 - 91	90	Insulated Zinc Bolted Clip Head M10
HZIP.000108	108 - 114	110	Insulated Zinc Bolted Clip Head M10
HZIP.000144	140 - 144	139	Insulated Zinc Bolted Clip Head M10
HZIP.000169	165 - 169	160	Insulated Zinc Bolted Clip Head M10
HSCMP 10	M10		Mounting plate female
HSCSP 10	M10		Mounting plate male
HSROD10	10mm x 3m	TGO15076	Allthread zinc plated

CL20-50

CL63

HZIP..

HSCMP10

HSCSP10

HSROD10

KOVA CLAMPS HAVE TOO MANY OPTIONS TO BE INCLUDED IN THIS CATALOGUE. OPTIONS AVAILABLE INCLUDE:

- Kova rail mounting,
- Universal strut mounting
- Welded base
- Bolted base
- Stackable

Metal parts can be

- Zinc galvanised
- Stainless steel

Ask for the KOVA Clamp catalogue or speak to our Customer Service.


T1000


T1000GBS


T2000


T2000GBS


T3300GB


T5500GB

Universal Strut

Part No.	Description	Width mm	Height mm	Length	Gauge mm	Finish	Load Kg @ 250mm	Load Kg @ 500mm	Load Kg @ 750mm	Load Kg @ 1500mm	Load Kg @ 3000mm
T1000GB	standard	41	41	6m	2.5	Galvabond	1308	654	436	218	109
T1000HDGB	standard	41	41	6m	2.5	Hot Dip Galvanised	1308	654	436	218	109
T1000SS	standard	41	41	6m	2.5	Stainless Steel	1308	654	436	218	109
T1000GBS	standard, slotted	41	41	6m	2.5	Galvabond					
T2000GB	light weight, ribbed	41	41	6m	1.6	Galvabond	945	471	314	157	78
T2000HDGB	light weight, ribbed	41	41	6m	1.6	Hot Dip Galvanised	945	471	314	157	78
T2000GBS	light weight, ribbed, slotted	41	41	6m	1.6	Galvabond					
T3300GB	low profile	41	21	6m	2.5	Galvabond	945	471	314	157	78
T3300GBS	low profile, slotted	41	21	6m	2.5	Galvabond					
T3300HDGB	low profile	41	21	6m	2.5	Hot Dip Galvanised	945	471	314	157	78
T4000GB	low profile ribbed	41	21	6m	1.6	Galvabond	350	175	116	58	30

Kova Rails

Part No.	Description	Width mm	Height mm	Length	Thickness mm
KZL-R.011	Kova rail low profile	28	11	2m	2
KZL-R.014	Kova rail medium profile	28	14	2m	2
KZL-R.030	Kova rail high profile	28	30	2m	2

Angle

Part No.	Description	Width mm	Height mm	Length	Finish
HSEA3030-3	Slotted Angle 3mm	30	30	3m	Galvabond

STRUT NUTS

Part No.	Description	Finish
TSSN06	M6 Strut nut	Galvanised
TSSN06L	M6 Strut nut w long spring	Galvanised
TSSN8	M8 Strut nut	Galvanised
TSSN8L	M8 Strut nut w long spring	Galvanised
TSSN10	M10 Strut nut	Galvanised
TSSN10S	M10 Strut nut w spring	Galvanised
TSSN10L	M10 Strut nut w long spring	Galvanised
TSSN10SS	M10 Strut nut stainless steel	316 SS
TSSN12	M12 Strut nut	Galvanised
TSSN12L	M12 Srut nut w long spring	Galanised
TSSN12SS	M12 Strut nut stainless steel	316SS
TSTN10	T-nut—strut nut fitted with M10 thread	Zinc plated
T2050	Threaded rod clamp M10 clamps on side of allthread with M10 stud	Zinc plated
KZL-N.M06	Kova Rail nuts Light series, plus Twin body group 1, M6	Zinc
KSL-N.M06	Kova Rail nuts Light series, plus Twin body group 1, M6	Stainless Steel
KZT-N.M08	Kova Rail nuts Twin series body group 2,3, 4 & 5, M8	Zinc
KZH-N.M12	Kova Rail nuts Heavy series body group 4, M12	Zinc
KSN	Strut nut suits Kova clamps to universal strut 6mmØ bsp	Galvanised
HS2U	Beam clamp spring steel >16mm suits 10mm allthread/6mm bolt	zinc plated
HSPH10	Heavy duty purlin clip for 10mm allthread	zinc plated
HSTKN10	Beam clamp cast steel >16mm suits 10mm allthread	zinc plated

CANTILEVER ARMS

Part No.	Description	Load Kg
TCA150	Cantilever arms 150mm	516
TCA200	Cantilever arms 200mm	350
TCA300	Cantilever arms 300mm	258
TCA350	Cantilever arms 350mm	220
TCA450	Cantilever arms 450mm	178
TCA500	Cantilever arms 500mm	150
TCA650	Cantilever arms 650mm	129
TCA750	Cantilever arms 750mm	103
TCA900	Cantilever arms 900mm	86


TSN10


TSSN10S


TSSN10L


TSTN10


T2050


KZL-N-M06


KZH-N.M12


HS2U


KSL-U-.06


HSPH10


HSTKN10


TCA

Install Fitting Flange, suits Coupler, Elbow or Tee, 110 or 160mm

Typical application of Fitting Flange converting an Elbow and a Tee to Flanged connection.

Remove the bolts, clamp ring halves and the Grip Ring leaving the end of the fitting ready for the Fitting Flange.

Fit the 2 Fitting Flange halves behind the face of the body, ready to install where needed.

Install Reducer in fitting suits Coupler, Elbow or Tee, 25 –90mm

Unscrew the nut and remove the grip ring and identification collar.

Insert and tighten the reducer in the desired position.

Install Reducer in fitting suits Coupler, Elbow or Tee 110-160mm

Remove the bolts, clamp ring halves and the Grip Ring leaving the end of the fitting ready for the Reducer. Discard the grip ring.

Insert the Reducer in the desired position, reassemble the clamp halves and tighten the bolts and nuts at a torque value of 15N/m.

Install Purge Plug in fitting, suits Coupler Elbow or Tee 25—90mm

Unscrew the nut and remove the grip ring. Discard the grip ring.

Insert the Purge Plug

Tighten the nut

1. Clamp half
2. Fixed seal
3. Branch body
4. Clamp bolt
5. Plug
6. Grip ring
7. Identification collar
8. Nut

1. Verify the section of pipe where the branch is to be installed is free from scratches or dents.

Completely unscrew the clamp bolt.

Separate the clamp half by sliding it sideways from the body.

2. Position the main branch body in its correct position, making sure the seal is correctly located.

Slide the clamp half back into the fitting, lining up the screw holes.

Adjust branch to its final position and tighten the bolt.

3. Unscrew the plug.

4. Drill hole in pipe using a hole saw matched for a clearance fit on the diam-eter of the inner hole.

Carefully deburr edges of hole and remove all swarf.

5. Replace plug and tighten.

Insert Branch line following standard procedures on p38.

1. Completely remove the bolt.

Slide the clamp half to one side until it is free.

Check the seal is in place in the Saddle branch body.

2. Place the Saddle branch body in its approximate position.

Slide the clamp half into the body.

Check final position then insert bolt and tighten.

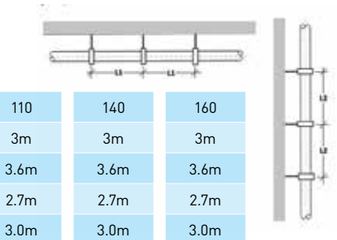
3. Drill hole in pipe using a hole saw matched for a clearance fit on the diameter of the inner hole.

Carefully deburr edges of hole and remove all swarf.

Typical application for Saddle Branch

1. Saddle branch body
2. Saddle clamp half
3. Gasket seal
4. Washer
5. Socket head Bolt

Clip Spacing



Pipe diameter	20	25	32	40	50	63	90	110	140	160
Horizontal spacing Air/Gas	1.5m	2.0m	2.0m	2.4m	2.7m	2.7m	3m	3m	3m	3m
Vertical spacing Air/Gas	1.8m	2.4m	2.4m	3m	3m	3.6m	3.6m	3.6m	3.6m	3.6m
Horizontal spacing Fluid	1.2m	1.8m	1.8m	2.0m	2.4m	2.4m	2.7m	2.7m	2.7m	2.7m
Vertical spacing Fluid	1.8m	2.0m	2.4m	2.7m	2.7m	3.0m	3.0m	3.0m	3.0m	3.0m

Unipipe Assembly Instructions 20mmØ to 90mmØ

1. CUTTING: Cut the pipe using burr-free approved cutters.
Do not use oxyacetylene or abrasive cut off wheels.
Pipes must be cut at right angles to their axis, using a pipe cutter or fine-tooth saw, allowing for the depth of insertion into the fitting.

2. DEBURRING: All pipe cuts must be carefully deburred, both inside and outside, using a manual or electric deburring tool. Any cutting residue (swarf) must be removed to avoid damage to the O-ring when the pipe is inserted into the fitting, avoiding possible leaks.

3. WITNESS MARK INSERTION DEPTH: To ensure a correctly inserted joint, the pipe must be marked with a fine-point felt -tip pen to show the insertion depth in the fitting, or by measurement using the table below. Use of the marking gauge is recommended.

Insertion depth

Pipe diameter	20	25	32	40	50	63	90
Distance from end	35	38	48	59	68	84	63

4. LOOSEN NUT: Loosen nut until the black end of the fitting body is no longer visible through the inspection ports. Check all components are correctly positioned inside the fitting.

5. LUBRICATION: For lubrication if required, use water, soapy water, silicone spray or a lubricant that is compatible with the intended use. This will assist inserting the pipe through the seal ring.

Do not use silicone spray if intended use is for powder coating, spray painting or breathing air.

6. INSERT and TIGHTEN: Insert the pipe up to the witness mark, ensuring the axis of the pipe and the fitting are straight. Check witness mark
Tighten the nut by hand until the black end of the fitting body is visible in the inspection ports. At this point water tightness and axial clamping are ensured.

Unipipe Assembly Instructions 110mmØ to 160mmØ

1. CUTTING: Cut the pipe using burr-free approved cutters. Do not use oxy-acetylene or abrasive cut off wheels. Pipes must be cut at right angles to their axis, using a pipe cutter or fine-tooth saw, allowing for the depth of insertion into the fitting.

2. DEBURRING: All pipe cuts must be carefully deburred, both inside and outside, using a manual or electric deburring tool. Any cutting residue (swarf) must be removed to preclude damage to the O-ring when the pipe is inserted into the fitting, avoiding possible leaks.

3. WITNESS MARK INSERTION DEPTH: To ensure a correctly inserted joint, the pipe must be marked with a fine-point felt -tip pen to show the insertion depth in the fitting, or by measurement using the table below. We recommend to used the Depth gauge.

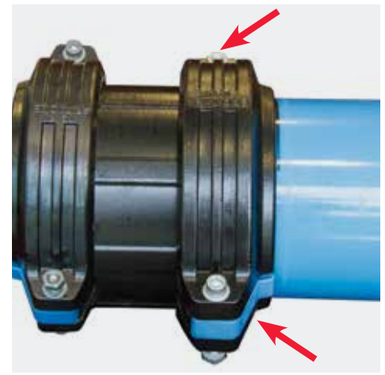
Insertion depth

Pipe diameter	110	160
Distance from end	73	134

4. LOOSEN NUT: Loosen the nuts of the relevant clamp halves.

5. LUBRICATION: Lubrication if required, use water, soapy water, silicone spray or a lubricant that is compatible with the intended use, will assist inserting the pipe through the seal ring.

Do not use silicone spray if intended use is for powder coating, spray painting or breathing air.



6. INSERT and TIGHTEN: Insert the pipe into the fitting up to the witness mark, ensuring the axis of the pipe and the fitting are straight.
Check witness mark
Tighten the bolts with a spanner to a torque value of 15 N/m.

Pipework Solutions

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Warranty:

Whilst we give a warranty against defects in manufacture or materials, it remains the responsibility of the user to ensure that fittings and related products are suitable for their application. The installation must be carried out by a competent person in accordance with enclosed recommendations, complying with recognised codes of practice and relevant Australian Standards, and be properly maintained. Refer to our Terms & Conditions.

The company has a policy of continuous improvement, research and development hence reserve the right to amend without notice the specifications and design of all products.

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