

COMPRESSED AIR ENERGY SAVING SOLUTIONS

GENERAL CATALOG



WISE Air 4.0[®]

MEASUREMENT SOLUTIONS:

- Compressor Master Controllers
- Smart Flow Sensors
- Dew Point Sensors
- Power Meters
- Real Time Smart Monitoring Software



Leaks Pro[™]
Professional Leakage Management Solutions

LEAKAGE MANAGEMENT SOLUTIONS

- Dynamic Noise Discrimination Leak Detectors
- Leakage Management Softwares
- Dual Seal Push Fit Connectors
- High Resistant Polyurethane Tubes
- Variable Air Flow Gun



Systel[®]

COMPRESSED AIR MANAGEMENT SERVICES

- Audits & Measurements
- Leak Detections & Repairs
- Air Quality Testing
- Compressed Air Training
- Project Management
- Performance Validations of Compressors, Dryers & Filtration Systems

Asia Regional Office

Systel Business Centre, #12 Sri Venkatalakshmi Nagar
Singanallur, Coimbatore - 641005, India
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Europe Regional Office

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COMPRESSED AIR

A Gold Mine We Will Help You Dig



Being the fourth most important utility in numerous industries, how well you manage the consumption of compressed air can decide the fate of your business. This utility that makes several industries run happens to be among the costliest ones too. However, compressed air might not be as expensive as its mismanagement can make it. Many manufacturing industries around the world spend more than needed on compressed air only because they are using the inefficient equipment. On top of that, maintenance service providers can often deliver less desirable services that add to your costs in the long term.

This practice has become a trend and while most customers are knowledgeable about the use of compressed air and its equipment, they might not be aware of the certifying standards or minimum accepted performance level of various compressed air systems. Such lack of information tricks them into buying inefficient equipment and receiving service packages that only make matters worse. There had to be someone who would change things for customers and side with them. Hidhay did it.

Founder

Hiday is a compressed air specialist who has the in-depth knowledge of the compressed air industry. He founded the Systemel Group, and with his passion and dedication to the industry and his company, he has made it one of the best in Asia and Europe.

Experience of the Company

Founded in 2002, Systemel Group has been serving its customers for more than 17 years now. It all started in Coimbatore, India with a vision of bringing clarity, efficiency and improvement to the then conditions of the compressed air systems. During these years, the company has served a variety of industries from food processing and Iron & Steel to automotive and Textile. In short, we have made things better for our customers anywhere where compressed air serves crucially for their production and manufacturing processes.

We have also been proudly awarded ISO 9001-2008 for our quality process with UKAS Standards. Today, we serve Asia and Europe in the following regions and are expecting to be in more parts of the world with our group companies

- Systemel Technologies Europe ApS, Denmark
- Systemel Energy Solutions (India) Pvt. Ltd, India
- Systemel Engineering Controls, India



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Push-in Fittings:

The push-in fittings of the LC line are completely made of brass and they are suitable for quick connections in different industrial applications; they are robust, compact and guarantee high performances in time. All LC fittings are electro-less nickel plated.

-99 KPa -20C° - 70C° Max 18 bar



1-2 > **Body and Release Ring:**

Brass UNI EN 12164
CW614N – UNI EN 12165
CW617N Nickel Plated

3 > **Holding Ring:**
Acetal Resin (POM)

4 > **Gripping collet:**
Stainless steel AISI 301

5 > **Protection Ring:**
Acetal Resin (POM)

6 > **Seals:**
NBR

DATA SHEET

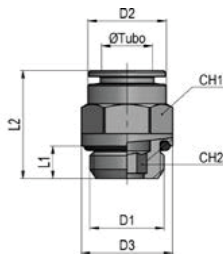
Recommended tubings:	PA11, PA12, PA6, Polyethylene PE, Polyurethane PU (98 Shore A).
Acceptable Tolerances on the tubings:	+/- 0,07 mm up to Ø 10 mm e +/- 0,1 mm from Ø 12 up to Ø 16 mm
Application fields:	Pneumatic circuits

Leakage Management

Dual Seal Push Fit Connectors

1. LC1810

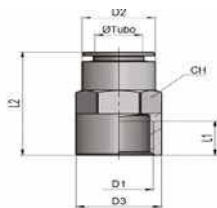
Male Connector



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	M5	9	8	4	19	4,6
4	M6	9	9	4,5	19,5	4,3
4	1/4	9	16	6,5	18,5	12
4	1/8	9	13	5	16,5	6
6	1/4	12	16	6,5	19,5	12,7
6	1/8	12	13,5	5	19,5	9
8	1/4	14	16	6,5	21,5	13,5
8	1/8	14	13	5	23,5	11,5
8	1/2	14	25	8,5	23	34,3
10	1/4	16	16	6,5	27,5	17,4
10	3/8	16	20	7	25	22,6
10	1/2	16	25	8,5	25,5	34,5
12	1/4	19	16	6,5	28,5	26,2
12	3/8	19	20	7	28,5	29
12	1/2	19	25	8,5	26,5	36,1
14	3/8	22	20	7	32	37,5
14	1/2	22	25	8,5	32	42,4

2. LC-1811

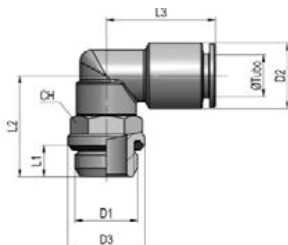
Female Connector



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	1/8	9	13	7,5	23,5	10
6	1/8	12	14	7,5	26	15,1
6	1/4	12	16	11	30	18,5
8	1/8	14	13	7,5	26	17,5
8	1/4	14	16	11	30	20,2
8	3/8	14	20	12	31	25,9
10	1/4	16	16	11	32	24,4
10	1/2	16	25	13,5	36,5	45

3. LC-1812

Male Elbow



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3	M5	7	10	4	14	7,1
4	M5	9	10	4	14	8,8
4	M6	9	10	4,5	14,5	8,7
6	M5	12	10	4	14	11,9
6	M6	12	10	4,5	14,5	12
6	1/8	12	14,5	5	18	18,5
6	1/4	12	16	6,5	21,5	21,8
8	1/8	14	14,5	5	18	22
8	1/4	14	16	6,5	21,5	25,3
8	3/8	14	20	7	25,5	37,7
8	1/2	14	25	8,5	27,5	41
10	1/4	16	16	6,5	22	34
10	3/8	16	20	7	25,5	39,5
10	1/2	16	25	8,5	27,5	43,2
12	1/4	19	16	6,5	25,5	58,5
12	3/8	19	20	7	26	57
12	1/2	19	25	8,5	30,5	65,1
14	3/8	22	20	7	26	61,6
14	1/2	22	25	8,5	30,5	69,9
16	1/2	24	25	8,5	33	
16	3/4	24	32	9,5	35	

Ordering example:

For male elbow 16mm tube \varnothing and 1/2" threadsize ordering code is

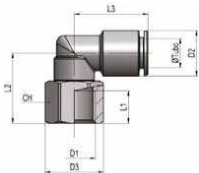
LC-1812-16-1/2

Leakage Management

Dual Seal Push Fit Connectors

4. LC1813

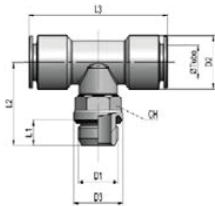
Female Elbow



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	1/8	9	14,5	7,5	17,5	17,3
6	1/8	12	14,5	7,5	17,5	19,7
6	1/4	12	18	11	21,5	25,4
8	1/8	14	14,5	7,5	17,5	23,1
8	1/4	14	18	11	21,5	29,1
10	1/4	16	18	11	23	16
10	3/8	16	22,5	12	25	43,5

5. LC1814

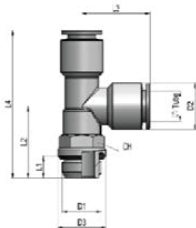
Male Branch Tee



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	1/8	9	14,5	5	18	20,2
4	1/4	9	16	6,5	21,5	23,9
6	1/8	12	14,5	5	18	25,2
6	1/4	12	16	6,5	21,5	29,1
8	1/8	14	14,5	5	18	30,7
8	1/4	14	16	6,5	21,5	33,6
8	3/8	14	20	7	25,5	46,4
10	1/4	16	16	6,5	22	44,4
10	3/8	16	20	7	25,5	49,7
12	3/8	19	20	7	26	75,3
12	1/2	19	25	8,5	30,5	82

6. LC1815

Male Run Tee



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	1/8	9	14,5	5	18	20,5
4	1/4	9	16	6,5	21,5	24
6	1/8	12	14,5	5	18	26
6	1/4	12	16	6,5	21,5	29,5
8	1/8	14	14,5	5	18	30
8	1/4	14	16	6,5	21,5	33,5
10	1/4	16	16	6,5	22	44
10	3/8	16	20	7	25,5	49
12	3/8	19	20	7	26	73
12	1/2	19	25	8,5	30,5	77

7. LC1817

Single Banjo Bolt



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
	M5			4	16	2,5
	1/8			5	23	14
	1/4			6,5	26,5	27
	3/8			7	30	43
	1/2			8,5	35,5	80,5

8. LC1818

Double Banjo Bolt



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
	1/8			5	39,5	19,5
	1/4			6,5	45	38,5
	3/8			7	51,5	63,5
	1/2			8,5	61	117

9. LC1819

Self Locking Fittings



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
6*4	1/8	16		40	32	27,15
8*6	1/4	16		40	33	37,18

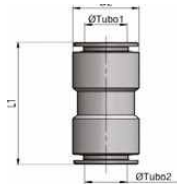
Ordering example: For male run tee 4mm tube Ø and 1/8" threadsize ordering code is **LC-1815-4-1/8**

Leakage Management

Dual Seal Push Fit Connectors

10. LC1821

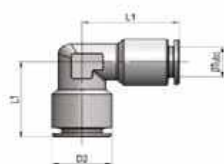
Straight Union



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3		7		22		2,7
4		9		28		6,8
6		12		33,5		15
8		14		34		18
10		16		38,5		22,5
12		19		41		36,6
14		22		47		47,4
16		24		47		

11. LC1822

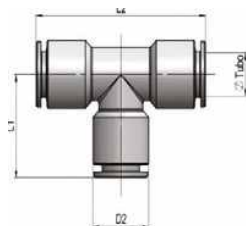
Straight Elbow



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3		7		12		4,5
4		9		17,5		9
6		12		20,5		16,5
8		14		22,5		22
10		16		25		29,5
12		19		26,5		48,5
14		22		31,5		58
16		24		36,5		

12. LC1823

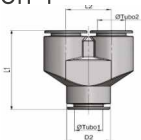
Union Tee



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3		7		12	24	5,6
4		9		17,5	35	12,5
6		12		20	40	22,5
8		14		21	42	28,4
10		16		24,5	49	39,2
12		19		26	52	61,3
14		22		30,5	61	77,1
16		24		36,5	73	

13. LC1824

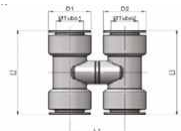
Union Y



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4		9		29,5	9,5	13,5
6		12		36	12,5	32
8		14		37,5	14,5	42,5
10		16		44,5	16,5	62,7
12		19		49	19,5	95,8

14. LC1825

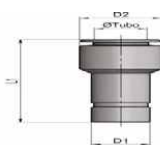
Union H



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4		9		18	39	31
6		12		18	44	41
8		14		18	45	50

15. LC1826

Reducer



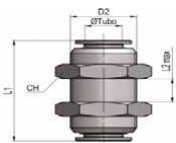
TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3		7		27		2,5
4		9		33,5		7
6		12		36,5		22,2
8		14		37,5		25
10		16		42		20
12		19		43		24
14		24		49,5		

Leakage Management

Dual Seal Push Fit Connectors

16. LC1827

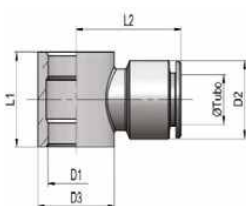
Bulkhead



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
3		10*1		21,5	8	14,5
4		12*1		28	11	23,5
6		14*1		34	16	33
8		16*1		34	17	39,5
10		18*1		39	19	51,5
12		20*1		41	20	60

17. LC1828

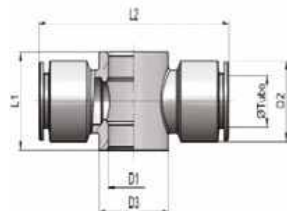
Single Banjo Ring



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	M5	9	10	10	18,5	7,7
4	1/8	9	14	15	20,5	13,5
6	M5	12	10	10	21,5	10,9
6	1/8	12	14	15	22,5	15,5
6	1/4	12	18	17	24	21,6
8	1/8	14	14	15	23,5	16,7
8	1/4	14	18	17	24,5	22,8
8	3/8	14	22	20	26,5	32,7
10	1/4	16	18	17	27	27,2
10	3/8	16	22	20	29	39,5
12	3/8	19	22	20	29,5	38,8
12	1/2	19	27	24	31,5	56,9

18. LC1829

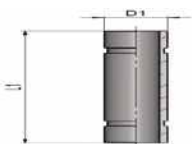
Double Banjo Ring



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	M5	9	10	10	37	10,9
4	1/8	9	14	15	41	18
6	1/8	12	14	15	45	23
6	1/4	12	18	17	48	28,7
8	1/8	14	14	15	47	23,3
8	1/4	14	18	17	49	29,7
8	3/8	14	22	20	53	42,5
10	1/4	16	18	17	54	37,9
10	3/8	16	22	20	58	44,5
12	3/8	19	22	20	59	51,3
12	1/2	19	27	24	63	67,2

19. LC1830

Stem Connector



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4				35		2,8
6				40		5,5
8				42		7,5
10				50		11
12				53		14
14				54		18,5

20. LC1820

Flow Control Valve



TUBE	THREAD	D2	D3	L1	L2	WEIGHT
4	1/8	3		27		2,5
4	1/4	3		27		2,5
6	1/8	5		50		14
6	1/4	5		50		14
8	1/8	7		67		43
8	1/4	7		67		43

Ordering example: For double banjo ring 8mm Ø tube and 1/4" thread ordering code is **LC-1829-8-1/4**