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Rolling Lobe Air Springs

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E-mail: sia@ys-air.com



» Test Report «

Report No. : B98AS297

Test Category : Non-Regulation

Test Item : PRESSURE TEST

Page : 2/2



Fig.1 Post(Hydraulic)

» Test Report «

Report No. : B98AS297

Test Category : Non-Regulation

Test Item : PRESSURE TEST

Page : 1/2

Product Identification Information :

Product : AIR SPRING

Model : YS-AIR A15350

Test Condition :

Environment Condition

Temperature : Normality

Humidity : Normality

Test Standard and Procedure :

- 1.The testing sample was applied 1226kPa of hydraulic pressure, after test, there is no leakage shown on the air spring.
- 2.The explosion pressure of air spring .(pressure rate note more than 10kgf/cm2 pre one minute)

Test Equipment :

- 1.Hydraulic Test Rig
- 2.Burst Test Rig

Test Result :

	Test Pressure	Test Result	Picture
Hydraulic Test	1226kpa	No leakage	Fig.1
Hydraulic Test	2371kpa	Damage	Fig.2

Note :

- 1.The final evaluation shall be confirmed by customer
- 2.The test date:2010/1/28



» Test Report «

Report No. : B98AS297

Test Category : Non-Regulation

Test Item : Pressure Test

Page : 1/2

Product Identification Information

Product : AIR SPRING

Model : YS-AIR A15350

Test Condition :

Lab. Temp. / Hum. : temp. : 21~24°C Hum. : :55~60%RH

Test Standard and Procedure :

Maintain the air spring in standard height, and apply the often used maximum pressure.

Excute 1,000,000 cycles durability test with 2 Hz and ± 2.5 mm stroke.

Test Equipment :

Fatigue test machine(Instron 8502)

Pressure gauge 100kgf/cm² (9E02-P6-1001 81591)

Test Result :

Test result is shown as the table :

Disp.(mm)	Frequency(Hz)	Cycles	Remarks
± 2.5	2	1,000,000	No breakage

Description of figures and tables :

Test setup is shown as Fig. 1.

Test result of load is shown as Fig.2 .

Test result of pressure is shown as Fig. 3.

Test result of disp. Is shown as Fig. 4.



Note

1.The ☐ or ☒ indicate the choose item. 2.Fatigue test date : 2010/01/15~01/26.

» Test Report «

Report No. : B98AS299

Test Category : Regulation Non-regulation

Test Item : Rubber Material Test

Page : 1/2

Product Identification Information

Product : AIR SPRING

Model : YS-AIR A15350

Test Condition :

Lab. Temp. / Hum. : temp. : 21~23°C Hum. : :55~60%RH

Test Standard and Procedure :

According to the test method as specified in section of CNS 7977 provided by the client.

The test method is summary as below:

Test specimen : Use eight No.3 specimens of dumb bells shape according to 3.2 section in CNS 3552 to execute tension test and oven aging test.

Tension test : according to the third section of CNS3552.

Oven aging test : according to the 6.3 section of CNS 3552. Using 70 $\pm$ 1°C to promote oven aging in 96 hours.Check the tension strength and elongation ratio after the test.

Test Equipment :

Rubber material machine (MTS Sintech 1/S)

Test Result :

1.Tension test result is shown as the table:

2.Oven aging test result is shown as the table:

Serial No.	Tension strength (MPa)	Elongation ratio (%)
1	12.08	1071.93
2	15.10	682.24
3	13.01	576.46
4	12.46	507.72

Serial No.	Tension strength (MPa)	Elongation ratio (%)
5	14.81	585.92
6	14.53	740.31
7	14.64	550.39
8	16.74	1281.01

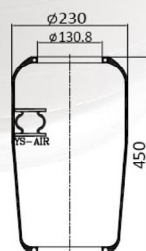
Description of figures and tables :

Test specimens is shown as Fig. 1. Oven aging test is shown as Fig. 2. Tension test is shown as Fig. 3.

Note

1.The ☐ or ☒ indicate the choose item. 2.Oven aging test date : 2010/01/22~01/26. 3.Tension test date : 2010/01/28.

Rolling Lobe A Series

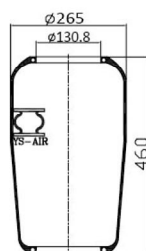


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: A13450

Assembly weight: (1.9Kg)
Loading capacity at pressure= 5 bar (17.0KN)
Loading capacity at max. pressure= 7.0 bar (24.0KN)
Loading capacity at min. pressure= 0.3 bar (1.1KN)

Manufacturer	Reference Number
CONTITECH	1885N1
FIRESTONE	1R2A 445 280 /W01 095 0429
CF GOMMA	1SC270-28 /92043
PHOENIX	1F 20 B
DUNLOP FR	D12507
GOODYEAR	9003
AIRTECH	31885

Manufacturer	OE Reference Number
IVECO	98.478.799
M.A.N	81.43601.0104
M.A.N	81.43601.0109
M.A.N	81.43601.0111
M.A.N	81.43601.0123
M.A.N	81.43601.0125
M.A.N	81.43601.0150
M.A.N	544008-020
M.A.N	643008-020

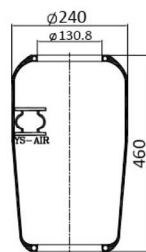


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: A13460-3

Assembly weight: (2.5Kg)
Loading capacity at pressure= 5 bar (25.0KN)
Loading capacity at max. pressure= 7.0 bar (35.0KN)
Loading capacity at min. pressure= 0.3 bar (1.4KN)

Manufacturer	Reference Number
CONTITECH	716N
FIRESTONE	1R2A 450 305 /W01 095 0145
CF GOMMA	1SC300-34 /92548
PHOENIX	1F 26 B-1
TAURUS	B 197 + BL 197
AIRTECH	3716

Manufacturer	OE Reference Number
M.A.N	81.43601.0039
M.A.N	81.43601.0040
VOLVO	1593842

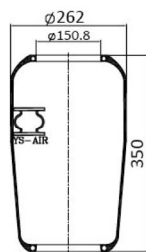


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: A13460

Assembly weight: (1.8Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.3 bar (1.2KN)

Manufacturer	Reference Number
CONTITECH	720N
FIRESTONE	1R2A 460 295 /W01 095 0195
CF GOMMA	1SC210-30 /88802
PHOENIX	1F 21
DUNLOP UK	PNP 301000100
DUNLOP FR	D12 504
GOODYEAR	9008
TAURUS	B 152
AIRTECH	3720

Manufacturer	OE Reference Number
BPW	02.2002.41.00
DENNIS	650292/8 + 650883/7
M.A.N	81.43601.003381.43601.0036
M.A.N	81.43601.0037
MERCEDES BENZ	387 328 01 01
NEOPLAN	100112300
VOLVO	1590136 + 1629193



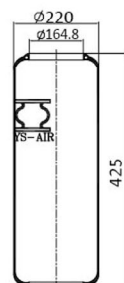
Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: A15350

Assembly weight: (1.8Kg)
Loading capacity at pressure= 5 bar (25.0KN)
Loading capacity at max. pressure= 7.0 bar (35.0KN)
Loading capacity at min. pressure= 0.3 bar (1.4KN)

Manufacturer	Reference Number
CONTITECH	715N
FIRESTONE	1R1C 335 310 /W01 095 0087
CF GOMMA	1SC310-16 /93518
PHOENIX	1F 25
DUNLOP UK	PNP 304890101
GOODYEAR	8015
TAURUS	B 144
AIRTECH	3715

Manufacturer	OE Reference Number
DAF	659561
IRIS BUS (R.V.I)	5000 819 517
IVECO	4456111 + 4763473
MAGIRUS-DEUTZ	4456111
M.A.N	81.43601.005981.43601.0060
M.A.N	81.43601.006181.43601.0075
M.A.N	81.43601.007881.43601.0081
M.A.N	81.43601.008381.43601.0090
M.A.N	81.43601.011381.43601.0115
M.A.N	81.43601.0117
MERCEDES BENZ	363 328 00 01
RENAULT V.I.	5000 819 517
VOLVO	6885533

Rolling Lobe B Series

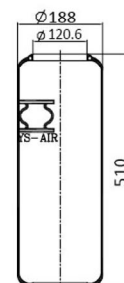


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B16425

Assembly weight: (1.8Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (4.0KN)

Manufacturer	Reference Number
CONTITECH	897N
FIRESTONE	1R1K 440 320
	W01 095 0239
	W01 095 0229
PHOENIX	2 E 23
	B 165
DUNLOP UK	PNP305210100
DUNLOP FR	PNP305210101
GOODYEAR	SP2192
	556 0 3 8028
CF GOMMA	1S 320 30
	88788

Manufacturer	OE Reference Number
DENNIS	656 289/2
SCANIA	411622
	411623
	402315

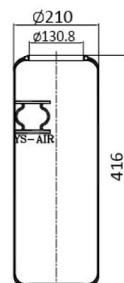


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B12510

Assembly weight: (1.7Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (8.0KN)

Manufacturer	Reference Number
CONTITECH	896N
FIRESTONE	1R1J 520 285 / W01 095 0245
PHOENIX	2E 18 A
DUNLOP UK	PNP 305140100
DUNLOP FR	SP2191
GOODYEAR	8040
TAURUS	B 166
AIRTECH	3896

Manufacturer	OE Reference Number
DENNIS	656300/2
SCANIA	411627

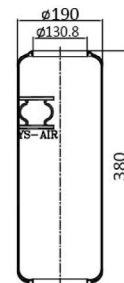


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B13416

Assembly weight: (1.7Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (4.0KN)

Manufacturer	Reference Number
CONTITECH	782 N
FIRESTONE	1R1A 415 285
	095.0197
GOODYEAR	556 0 3 8013
	8013

Manufacturer	OE Reference Number
MERCEDES BENZ	A382.327.7201
RENAULT	5 000 954 176



Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B13380

Assembly weight: (1.6Kg)
Loading capacity at pressure= 5 bar (19.0KN)
Loading capacity at max. pressure= 7.0 bar (26.0KN)
Loading capacity at min. pressure= 0.2 bar (3.8KN)

Manufacturer	Reference Number
CONTITECH	769 N
FIRESTONE	1R1A 380 260
	W01 095 0204
PHOENIX	1 E 18
TAURUS	B 156
DUNLOP UK	PNP305140100
DUNLOP FR	D10502
GOODYEAR	8053
CF GOMMA	1SC 340 30
	97326

Manufacturer	OE Reference Number
MENARINI	252933
RENAULT VI	5.000.805.284
VAN HOOL	624319-860

Rolling Lobe Air Springs

PERFECTION / INNOVATION / IMAGINATION

Rolling Lobe B Series

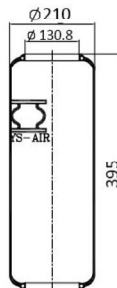


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B15390

Assembly weight: (1.7Kg)
Loading capacity at pressure= 5 bar (25.0KN)
Loading capacity at max. pressure= 7.0 bar (35.0KN)
Loading capacity at min. pressure= 1.3 bar (5.0KN)

Manufacturer	Reference Number
CONTITECH	661N
FIRESTONE	1R1C 390 310 / W01 095 0021
CF GOMMA	15310-28 / 91016
PHOENIX	1E 25
DUNLOP UK	PNP 304980101
DUNLOP FR	D12502
GOODYEAR	8018
TAURUS	BL 114
AIRTECH	3661

Manufacturer	OE Reference Number
BUSSING	831120144 / 546905134
DROGMOLLER	440320200002-00
EVOLUS (KS-ST)	47310120004 / 731042000
EVOLUS (KS-ST)	47310310004 / 771427000
EVOLUS (KS-ST)	4771440.000
GRANNING	15621
HANOMAG-HS	536 905 766 / 536 905 765
IRIS BUS (R.V.I.)	5001 829 866
IVECO	41822247 / 4746733
MAGIRUS-DEUTZ	41822247 / 2498667
MAN	90.83112.0144
NEOPLAN	100112250 / AA1001001
RENAULT	V. 5001 829 866
SCHMITZ	750208
VAN HOOB	624 319 690624 319 670
VOLVO	1137882 / 1137888 / 3159253

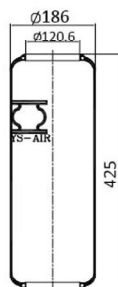


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B13395

Assembly weight: (1.5Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (4.0KN)

Manufacturer	Reference Number
CONTITECH	644N
FIRESTONE	1R1A 390 295 / W01 095 0118
CF GOMMA	15285-24 / 92574
PHOENIX	1E 21
DUNLOP UK	PNP 301470101
DUNLOP FR	D11501
GOODYEAR	8017
TAURUS	BL 121 · B121
AIRTECH	3644

Manufacturer	OE Reference Number
BPW	02.2002.44.00
BUSSING	536905265
DAF	689677
EVOLUS (DC)	000 327 014 01 · 307328 00 01
EVOLUS (KS-ST)	47711430004771170000
EVOLUS (KS-ST)	4771.441.000
GRANNING	15622
HANOMAG-HS	546 905 134
IRIS BUS	(R.V.I.)
MAGIRUS-DEUTZ	536905265
M.A.N	81.43601.0017
MENARINI	199196
MERCEDES BENZ	000 327 01 01

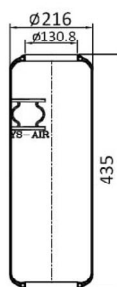


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B12425

Assembly weight: (1.5Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (8.0KN)

Manufacturer	Reference Number
CONTITECH	927N
FIRESTONE	1R1J 415 285 / W01 095 0244
PHOENIX	2E 18 B
DUNLOP UK	PNP 300080100
GOODYEAR	8037
TAURUS	B 179
AIRTECH	3927

Manufacturer	OE Reference Number
DENNIS	611896/12
LEYLAND	AAU2542
VOLVO	3116354



Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: B13435

Assembly weight: (1.8Kg)
Loading capacity at pressure= 5 bar (21.0KN)
Loading capacity at max. pressure= 7.0 bar (29.5KN)
Loading capacity at min. pressure= 0.2 bar (4.0KN)

Manufacturer	Reference Number
CONTITECH	945N
FIRESTONE	1R1A 460 290
W01 095 0063	
CF GOMMA	15 285 25
97555	
PHOENIX	1 E 21 C
DUNLOP UK	PNP 301000101
DUNLOP FR	D11 502
GOODYEAR	9014
TAURUS	K 152

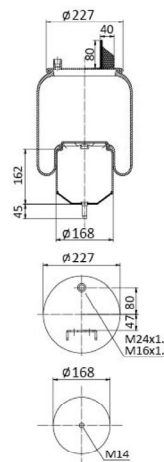
Manufacturer	OE Reference Number
IVECO	471.6989
MENARINI	178741
SCANIA BUSSAR	
(South America)	523229

PERFECTION / INNOVATION / IMAGINATION

Rolling Lobe Air Springs

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Rolling Lobe D Series



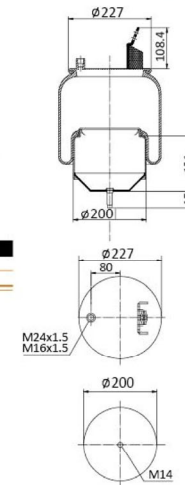
Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: D22428

Assembly weight: (6.1Kg)
Loading capacity at pressure= 5 bar (15.3KN)
Loading capacity at max. pressure= 7.0 bar (22KN)
Loading capacity at min. pressure= 0.5 bar (2.9KN)
Min. Connection H:245mm
Max. Connection H:475mm

Manufacturer	Reference Number
CONTITECH	6608N P01
AIRTECH	36416 K

OE Reference Number
VOLVO 1076416
VOLVO 3171693
VOLVO 20374510
VOLVO 20456152
VOLVO 20531985
VOLVO 20582215

Rolling Lobe E Series



Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: E22390

Assembly weight: (7.2Kg)
Loading capacity at pressure= 5 bar (19KN)
Loading capacity at max. pressure= 7.0 bar (27KN)
Loading capacity at min. pressure= 0.5 bar (2.9KN)
Min. Connection H:245mm
Max. Connection H:420mm

Manufacturer	Reference Number
CONTITECH	6605N P01
AIRTECH	37803 K

OE Reference Number
VOLVO 3171692
VOLVO 20427800
VOLVO 20427803
VOLVO 20456150
VOLVO 20531984
VOLVO 20582206

Quick check

CONTITECH	YS-AIR
1885N1	A13450
6605N P01	E22390
6608N P01	D22428
644N	B13395
661N	B15390
715N	A15350
716N	A13460-3
720N	A13460
782N	B13416
796N	B13380
881MB	F31532
896N	B12510
897N	B16425
927N	B12425
940MB	F25423
941MB	F25523
945N	B13435

AIR TECH	YS-AIR
36416K	D22428
37803K	E22390
110002/3644	B13395
110022/3661	B15390
110102/3716	A13460-3
110122/3720	A13460
110202/3896	B12510
110262/3927	B12425
110402/31885	A13450
110702/3715	A15350
120222/3881P	F31532
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Rolling Lobe Air Springs

PERFECTION / INNOVATION / IMAGINATION

» Rolling Lobe F Series

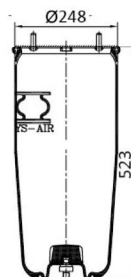


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: F25423

Assembly weight: (4.7Kg)
Loading capacity at pressure= 5 bar (20.5KN)
Loading capacity at max. pressure= 7.0 bar (28.5KN)
Loading capacity at min. pressure= 0.5 bar (2.4KN)

Manufacturer	Reference Number
CONTITECH	940MB
FIRESTONE	1T17D 4.3 / W01 M58 8613
CF GOMMA	1TC300-30 / 205536
PHOENIX	1DK 21K
DUNLOP FR	D11U31
GOODYEAR	1R11-703
TAURUS	KR 732-01
AIRTECH	3940 P

Manufacturer	OE Reference Number
BPW	BPW 30K
BPW	05.429.40.91.0

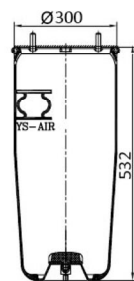


Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: F25523

Assembly weight: (5.2Kg)
Loading capacity at pressure= 5 bar (20.5KN)
Loading capacity at max. pressure= 7.0 bar (28.5KN)
Loading capacity at min. pressure= 0.5 bar (2.4KN)

Manufacturer	Reference Number
CONTITECH	941MB
FIRESTONE	1T17D 8.3 / W01 M58 8620
CF GOMMA	1TC300-36 / 204466
PHOENIX	1DK 21
DUNLOP FR	D11U30
GOODYEAR	1R11-700
TAURUS	KR 730-01
AIRTECH	3941 P

Manufacturer	OE Reference Number
BPW	BPW 30
BPW	05.429.40.03.0



Brand Name: YS-AIR
Place of Origin: Taiwan
Product Number: F31532

Assembly weight: (7.3Kg)
Loading capacity at pressure= 5 bar (27.3KN)
Loading capacity at max. pressure= 7.0 bar (38.3KN)
Loading capacity at min. pressure= 0.5 bar (2.9KN)

Manufacturer	Reference Number
CONTITECH	881MB
FIRESTONE	1T66F-10.8 / W01 M58 8978
CF GOMMA	1TC360-45 / 204530
PHOENIX	1DK 32
DUNLOP FR	D14U36
GOODYEAR	1R14-708
TAURUS	KR 836-01 / UR 836-01T
AIRTECH	3881 P

Manufacturer	OE Reference Number
BPW	BPW 36
BPW	05.429.40.01.0

■ All original data used in this catalog is for reference purpose only.

Harmony Rubber Industry Co., Ltd.

PERFECTION / INNOVATION / IMAGINATION

Company Profile

PERFECTION / INNOVATION / IMAGINATION

Harmony Rubber Industry Co., Ltd. (YS-AIR) was founded in 1985, specializing in the field of manufacturing anti-vibration isolators for industrial applications initially. YS-AIR nowadays is the largest manufacturers in the Taiwan market and has expanded but not limited to the HVAC(Heating, Ventilating, and Air Conditioning) systems market, the compressor manufacturing industry and the semiconductor industry °

In 2007, we increased our product line into the automobile industry. Harmony Rubber Industry provides many superior products at reasonable prices, such as Diverse Portable Air Jacks manufacturing, Refurbished BENZ S220 suspension, a series of Air Springs For Light Truck Suspension and various Sleeve air springs. we also manufacture a range of Rolling Lobe air springs for heavy trucks and buses.

To meet customized requirements from diverse overseas customers, raise the value of the company, and provide a full-line of products and value-added services are our main goals. Hence, constant improvements and development concepts and superior service is not only our motto but Harmony Rubber's promise to you. With many thanks for letting us earn your business.



PERFECTION
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