



TECHNICAL BULLETIN

TRAILER AIR SPRING PRESSURE TO LOAD

LIT NO: 97117-307

DATE: Feb 2026

REVISION: D

INTRODUCTION

This bulletin is design to provide general pressure to load relationships for the range of Hendrickson trailer suspensions available in Australia and New Zealand. These load-pressure relationship charts assume a nominal unsprung mass, which may vary depending on axle and suspension options. Actual load and pressure should always be confirmed on a calibrated weighbridge for the initial suspension of a specific design.

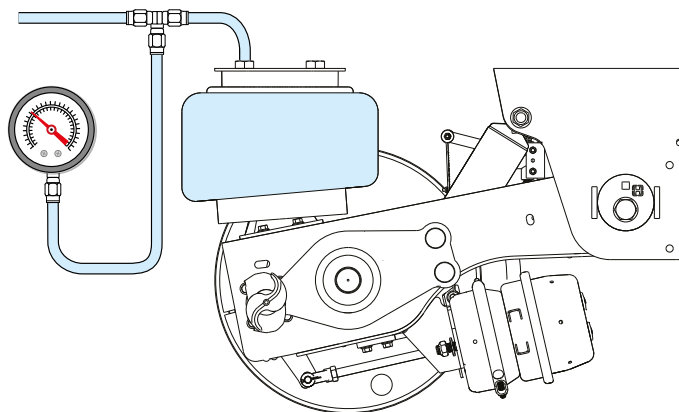


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IDENTIFICATION

The air spring pressure to load charts are defined by the Hendrickson suspension model and air spring part number.



Figure 1: Suspension Assembly Plate

This can be determined* by verifying the first 5 characters of the assembly number on the plate which is usually fitted to the inboard side of the right-hand trailing arm. The example in Figure 1 would be "HW25T" (Top mount 25K INTRAAX). Further identification details may be obtained by referring to Hendrickson Trailer Suspension Identification manual, [97117-151](#).

Variations

There are a few cases where the assembly number does not always line up with the corresponding air spring:

- HW25L or HN23L low ride ZMD INTRAAX which uses air spring C-33161 - Refer "[C-33161 ZMD Air Springs – AAL & AANL](#)" on page 4.
- HW25T top mount 25K INTRAAX using 30K air spring S-25873 – Refer "[C-25873 Air Springs – AAT](#)" on page 4.
- A deviation was applied to change the air springs in production at Hendrickson – check air spring part numbers on vehicle.

If you are unsure, it is always a good idea to confirm the actual air spring part numbers on the vehicle.

LIFT AXLE CONTROL VALVES

If installing, calibrating or repairing Hendrickson Lift Axle Control Valves, refer to the Hendrickson LACV technical bulletin, [97117-187](#).

CALCULATING LOAD WITH AIR SPRING PRESSURE

Trailer weight scales can be installed and calibrated according to the scale manufacturer's instructions. The load versus pressure charts in this bulletin may be used as a ready reference. However, to ensure accurate readings, it is recommended that the pressure scale be calibrated using weight scales. The following is an outline of the steps necessary. Use whichever units of weight and pressure are most useful to your application.

Empty and Loaded Pressures

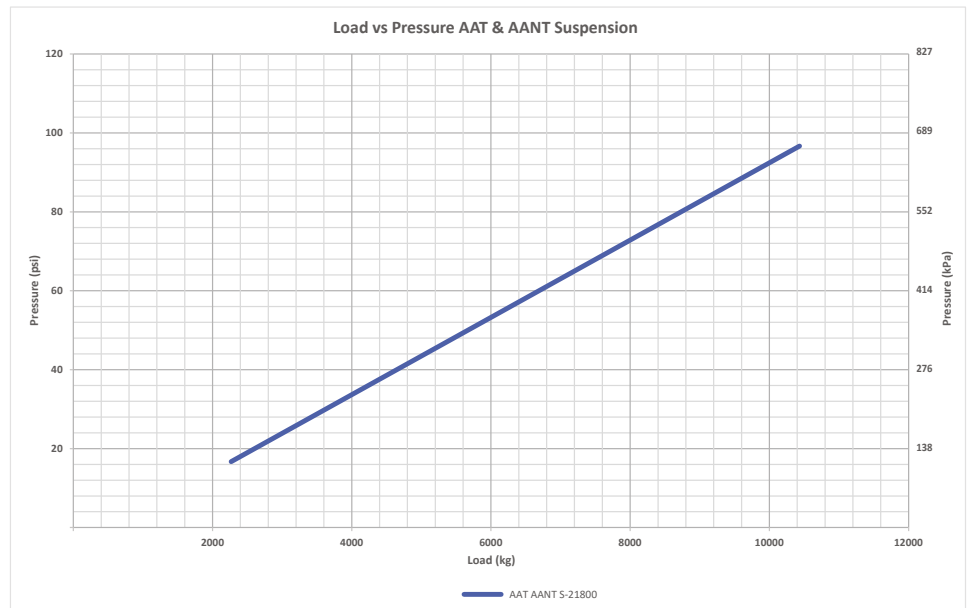
1. Place trailer axle group on the weight scales.
2. Measure and note both the air pressure in the axle group air springs and the weight.
3. Add load to trailer until it is fully loaded, depending on suspension and trailer capacity.
4. Verify the weight and note air pressure in the axle group air springs.



HW23T OR HN23T ASSEMBLY NUMBER

S-21800 & S-26773 Air Springs – AAT & AANT

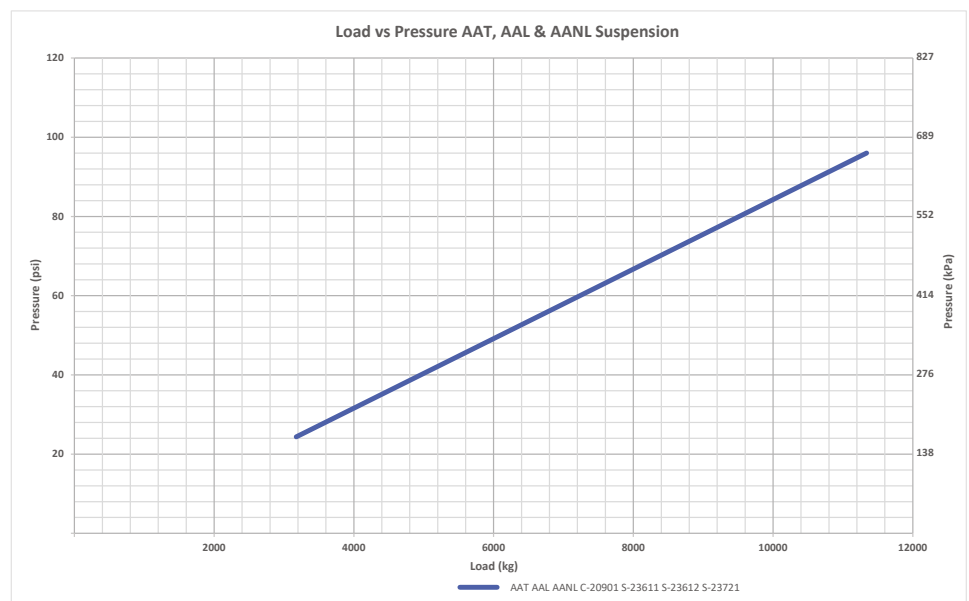
Load Per Axle		Pressure [1]	
lbs	kg	psi	kPa
5000	2268	16	110
7000	3175	25	172
7165	3250	27	187
9000	4082	34	234
9553	4333	37	257
11000	4990	43	296
13000	5897	52	359
14330	6500	58	402
15000	6804	61	421
17000	7711	71	490
19000	8618	80	552
21000	9525	88	607
23000	10433	95	655



HW25T, HW25L OR HN23L ASSEMBLY NUMBER

C-20901, S-23611, S-23612, S-23721 & S-39401 Air Springs – AAT, AANT, AAL & AANL

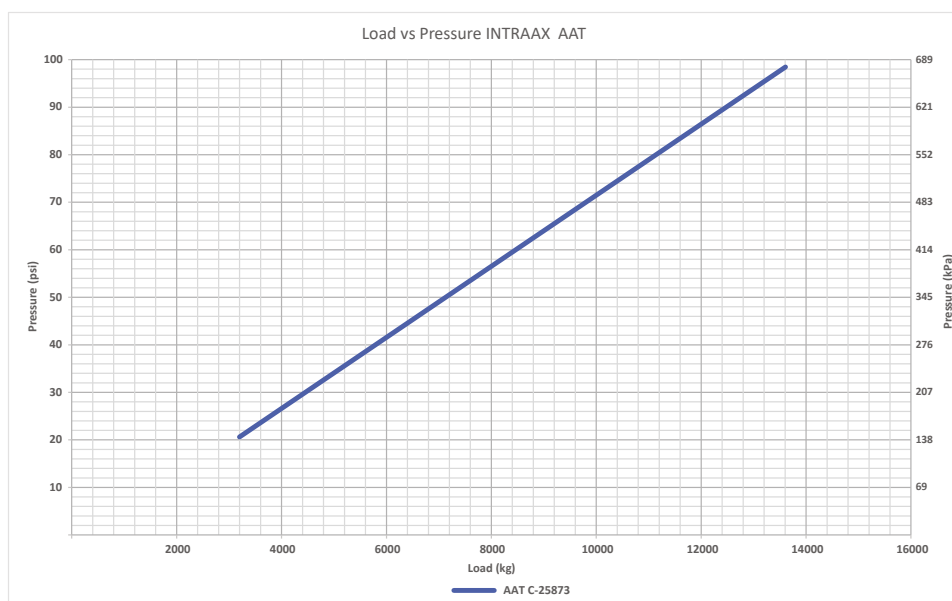
Load Per Axle		Pressure [1]	
lbs	kg	psi	kPa
7000	3175	24	165
7165	3250	25	176
9000	4082	32	221
9553	4333	35	240
11000	4990	40	276
13000	5897	48	331
14330	6500	53	369
15000	6804	56	386
17000	7711	65	448
19000	8618	72	496
21000	9525	80	552
23000	10433	88	607
25000	11340	96	662



HW25T ASSEMBLY NUMBER

C-25873 Air Springs – AAT

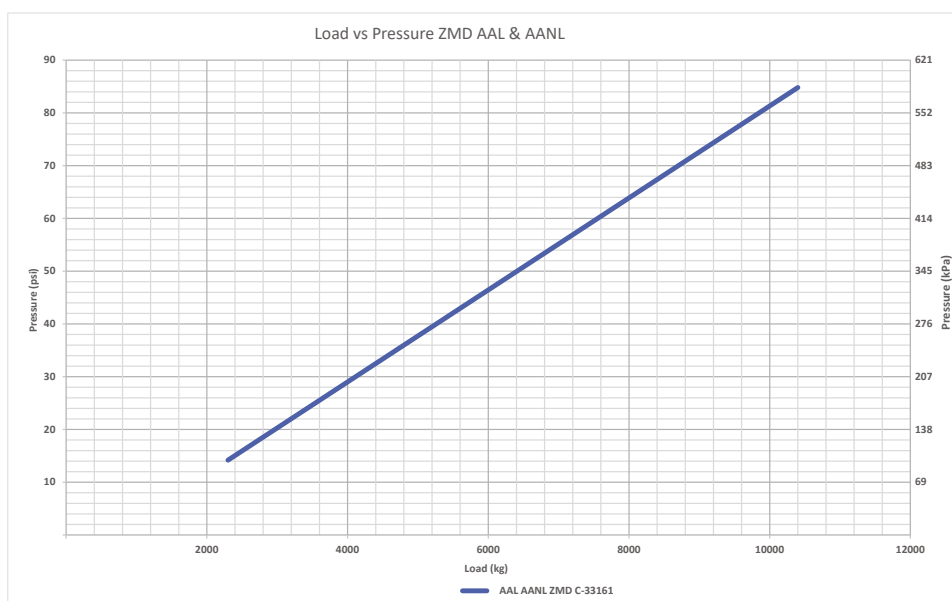
Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
9553	4333	29	203
10000	4536	30	207
12000	5443	37	255
14000	6350	44	303
14330	6500	45	311
16000	7257	51	352
18000	8165	58	400
20000	9072	64	441
22000	9979	71	490
24000	10886	78	538
26000	11793	85	586
28000	12701	92	634
30000	13608	99	683



HW25L OR HN23L ASSEMBLY NUMBER

C-33161 ZMD Air Springs – AAL & AANL

Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
5071	2300	14	97
7055	3200	22	152
9039	4100	30	207
11023	5000	38	262
13007	5900	46	317
14330	6500	51	349
14991	6800	53	365
16976	7700	61	421
18960	8600	69	476
20944	9500	77	531
22928	10400	85	586

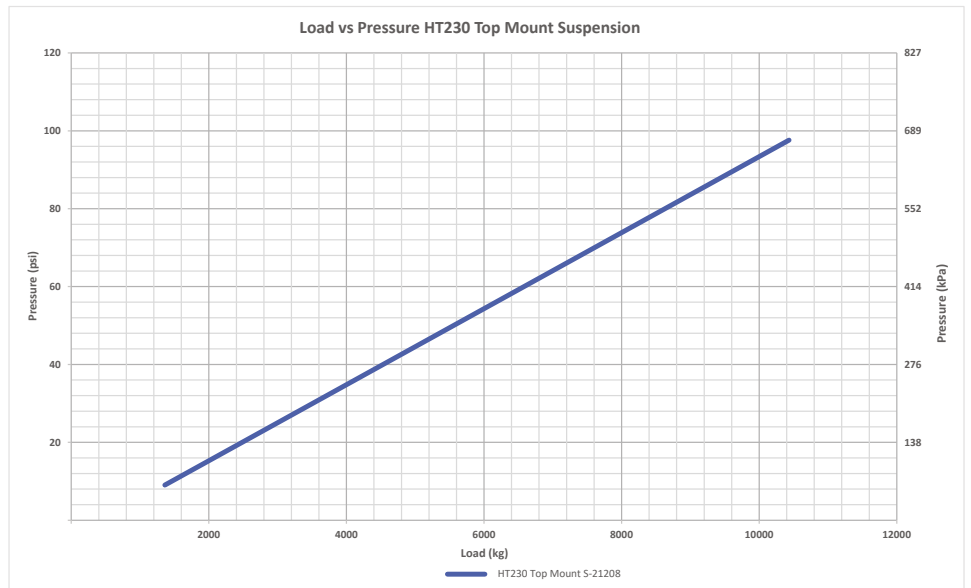




HS23T ASSEMBLY NUMBER OR HT230TA SUSPENSION

S-21208 Air Spring – HT230TA Top Mount

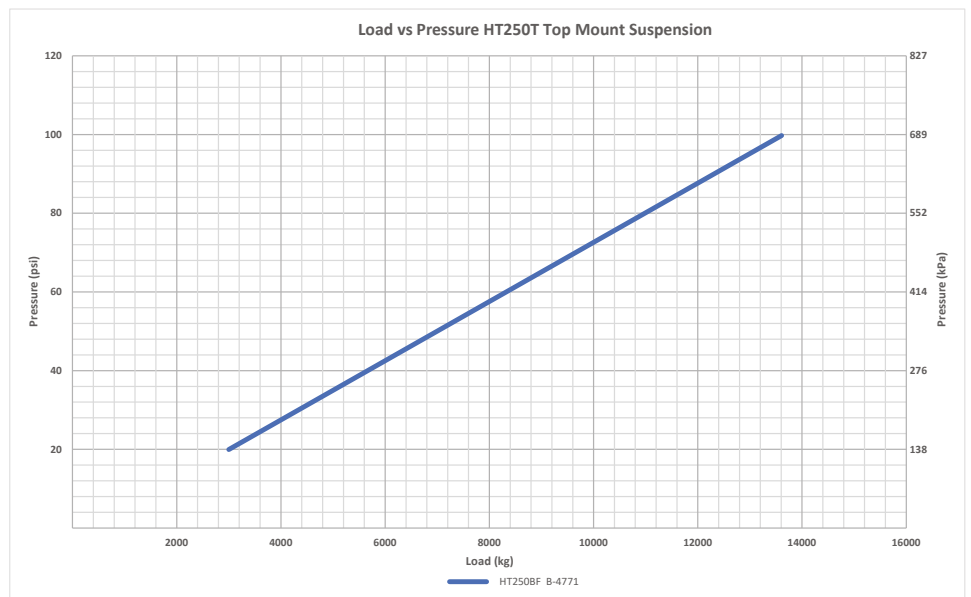
Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
3000	1361	10	69
5000	2268	18	124
7000	3175	26	179
7165	3250	28	192
9000	4082	35	241
9553	4333	38	262
11000	4990	44	303
13000	5897	53	365
14330	6500	60	414
15000	6804	62	427
17000	7711	71	490
19000	8618	80	552
21000	9525	89	614
23000	10433	98	676



HT250BF OR HS250T TOP MOUNT SUSPENSION

B-4771 & 98734-101 Air Springs – HT250BF & HS250T Top Mount

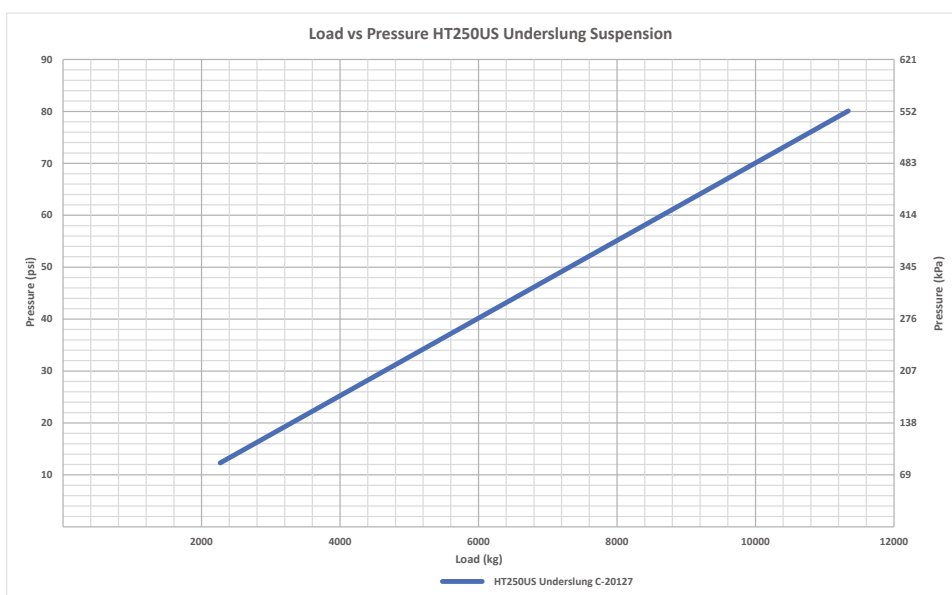
Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
7165	3250	22	153
9553	4333	30	204
10000	4536	31	214
12000	5443	38	262
14000	6350	45	310
14330	6500	46	317
16000	7257	52	359
18000	8165	59	407
20000	9072	66	455
22000	9979	72	496
24000	10886	79	545
26000	11793	86	593
28000	12701	93	641



HT250US SUSPENSION

C-20127 Air Springs – HT250US

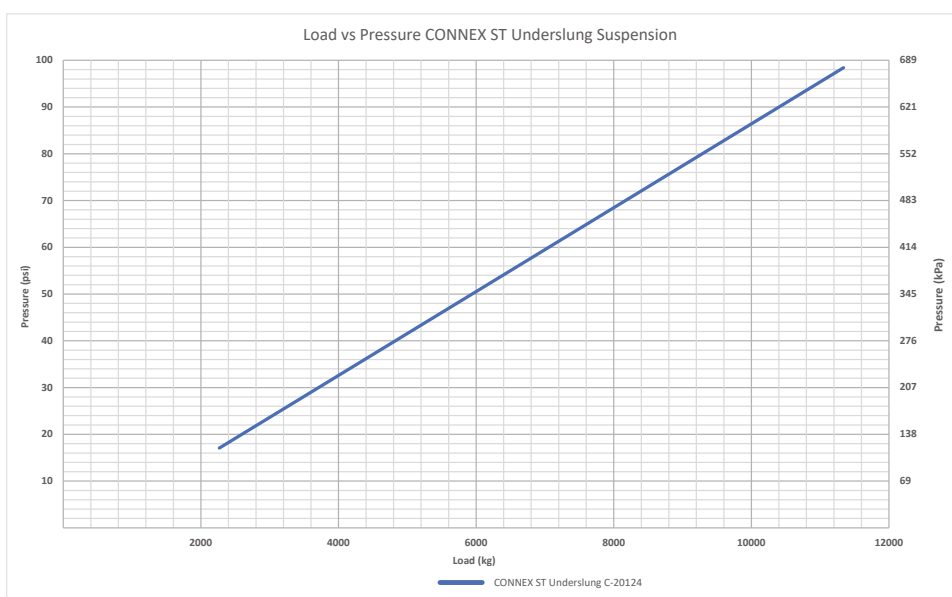
Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
5000	2268	12	83
7165	3250	19	134
9000	4082	26	179
9553	4333	28	190
11000	4990	32	221
13000	5897	39	269
14330	6500	44	303
17000	7711	53	365
19000	8618	60	414
21000	9525	66	455
23000	10433	74	510
25000	11340	80	552



HS25L ASSEMBLY NUMBER

C-20124 Air Springs – CONNEX ST Underslung

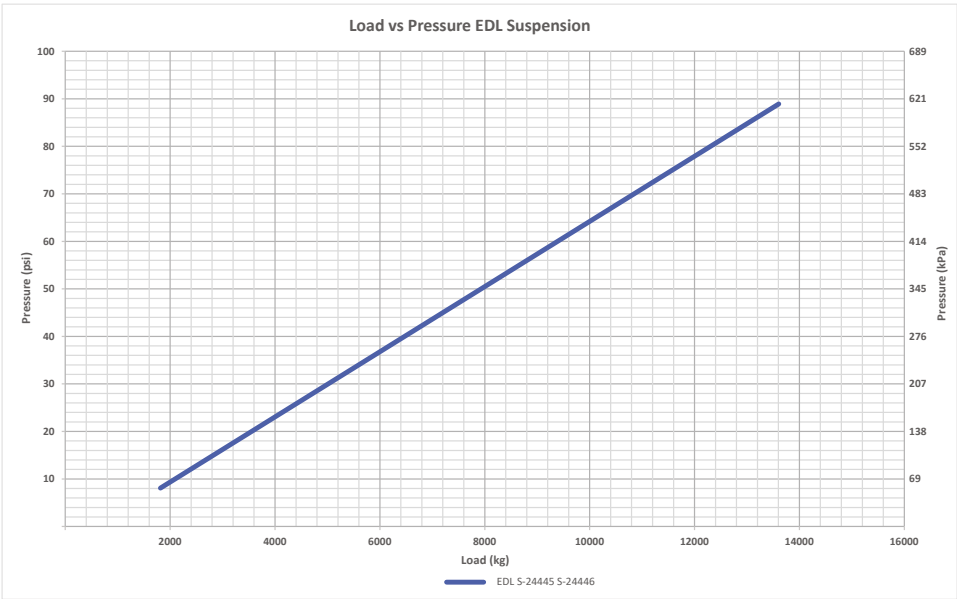
Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
5000	2268	17	117
7165	3250	25	169
9000	4082	34	234
9553	4333	36	249
11000	4990	42	290
13000	5897	50	345
14330	6500	55	382
17000	7711	66	455
19000	8618	74	510
21000	9525	82	565
23000	10433	90	621
25000	11340	98	676





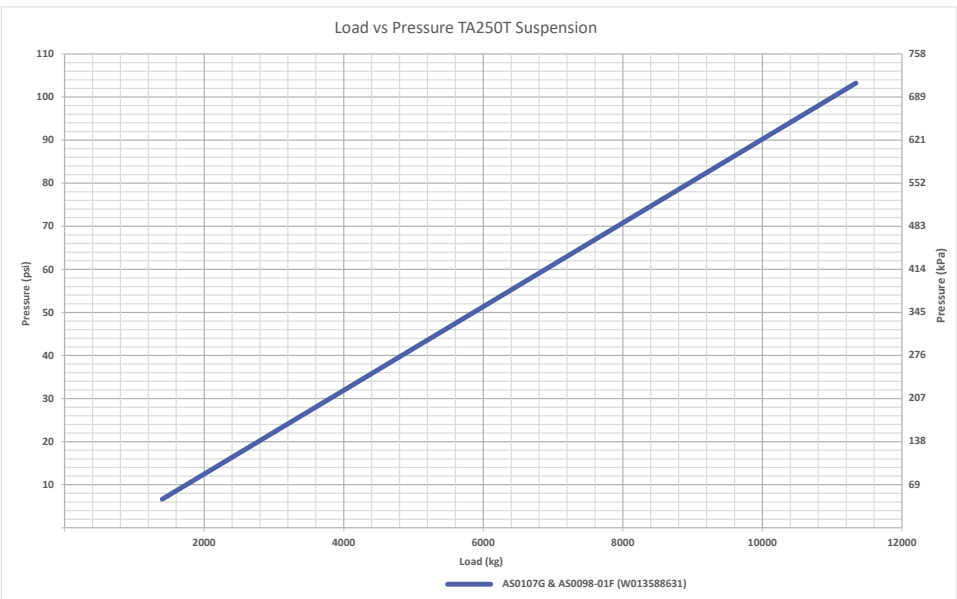
HW30T OR HW30L ASSEMBLY NUMBER
S-24445 & S-24446 Air Springs – EDL300

Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
6000	2722	14	97
7165	3250	18	124
9553	4333	26	178
12000	5443	33	228
14330	6500	40	278
16000	7257	45	310
18000	8165	52	359
20000	9072	58	400
22000	9979	64	441
24000	10886	70	483
26000	11793	76	524
28000	12701	83	572
30000	13608	89	614



TA11T REYCO GRANNING & TA250T W&C SUSPENSION
AS0107G & AS0098-01F (W013588631) Air Springs – RG TA11T & W&C TA250T

Load Per Axle		Pressure ^[1]	
lbs	kg	psi	kPa
5071	2300	15	103
9921	4500	37	255
14991	6800	59	407
17417	7900	70	483
19842	9100	81	558
22487	10200	92	634
24912	11300	103	710

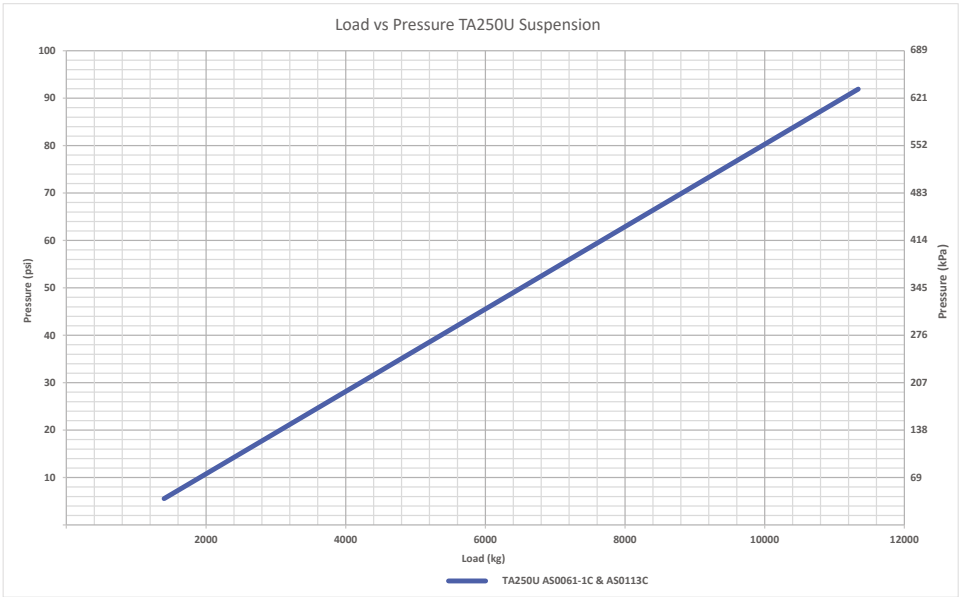




TA11U REYCO GRANNING & TA250U W&C SUSPENSION

AS0061-1C & AS0113C Air Springs – RG TA11U & W&C TA250U

Load Per Axle		Pressure [1]	
lbs	kg	psi	kPa
5071	2300	13	90
9921	4500	33	228
14991	6800	52	359
17417	7900	62	427
19842	9100	72	496
22487	10206	82	565
24912	11300	92	634



REVISIONS TABLE

DATE	REV	PAGE	DESCRIPTION
Nov-2024	B	3	Add S-26773 air spring.
May-2025	C	7, 8	Add Reyco Granning suspension references.
Feb-2026	D	3, 5	Add S-39401 air spring. Add HSDS suspension.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.
All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.
Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.

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