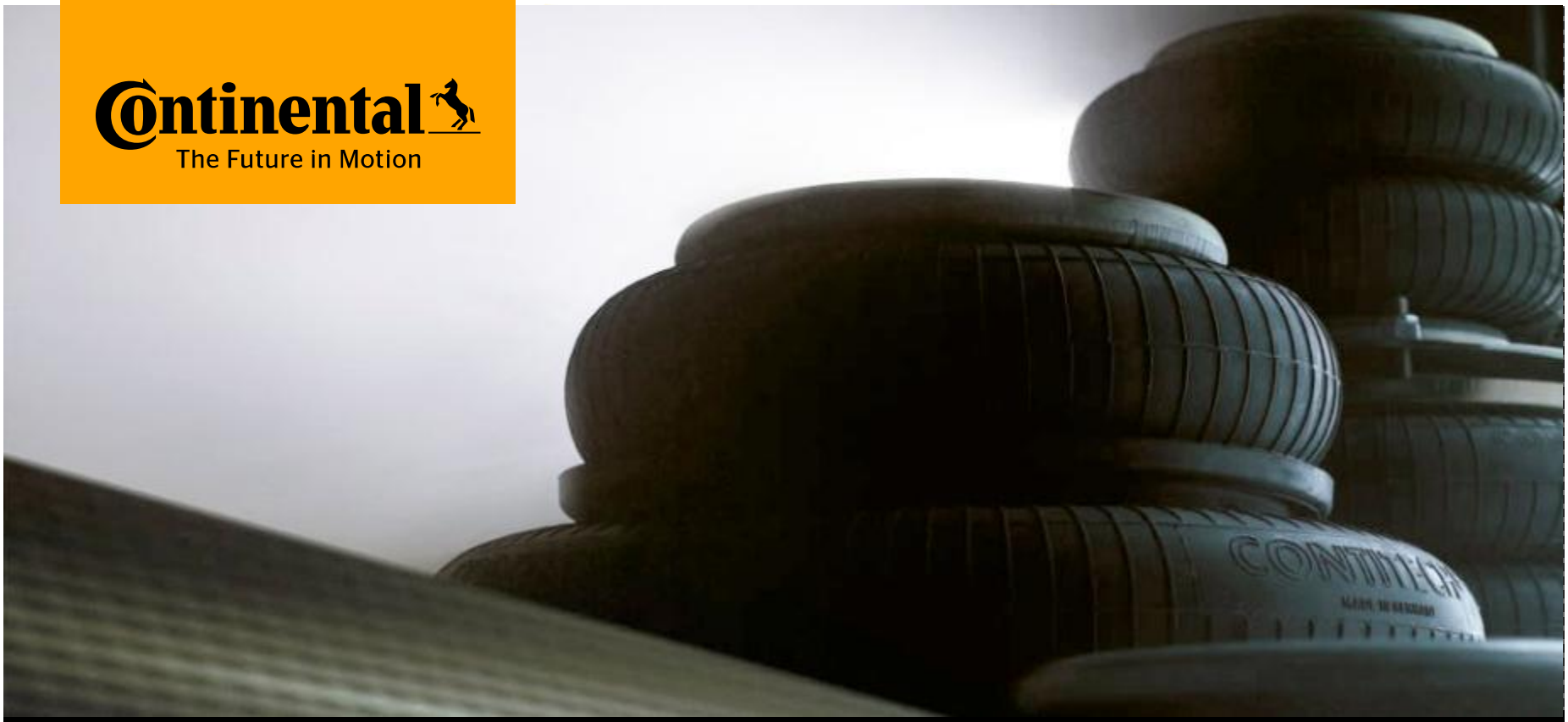
Continental
The Future in Motion



Continental Advanced Dynamics Solutions

Overview of Nomenclature for Infinity Engineered Products, Enidine and Firestone

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Firestone Air Spring Part Numbering System

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Firestone, uses two methods for their part numbering system: Assembly Order Number (AON) or Style Number.

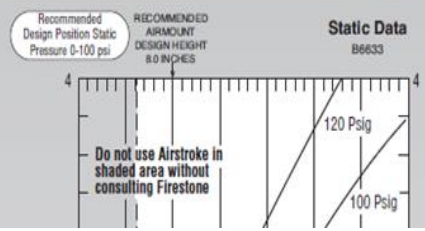
- Assembly Order Number format:
  - W01-358-XXXX, ‘358’ indicates Imperial threads
  - W01-M58-XXXX, M58 indicates Metric threads
  - W01-R58-XXXX R58 indicates a Ring assembly
  - W02-358-XXXX

- ‘Style Number / ‘Type Designation’ / ‘Type’ format:
  - The style number is molded into the bellows during the curing (or vulcanization) process. Examples would be 16, 22, 313,
    - First digit of 1, 2 or 3 refers to number of convolutions
    - Digit after inch dimension is number of convolutions
  - Sleeve-type examples: 2M2A, 1M1A-0, 2M1A
  - Rolling Lobe examples: 1T12E-3, 1T15M-4, 1T19L-11
  - Style Number only calls out the bellow, and does not represent the complete assembly

An example of this from their catalogue is as follows:

AIRSTROKE ACTUATORS AIRMOUNT Firestone 26

	Description	Assembly Order No.
Style 26 Two Ply Bellows	Blind nuts, 1/4 NPT	W01-358-7325
	Blind nuts, 3/4 NPT	W01-358-7327
	Countersunk steel bead rings, 1¾ bolts, nuts, washers	W01-358-7333
	Rubber bellows only	W01-358-0142
Assembly weight ..... 5.3 lbs.		
Force to collapse to minimum height (@ 0 PSIG)..... 23 lbs.		



FS Style Number

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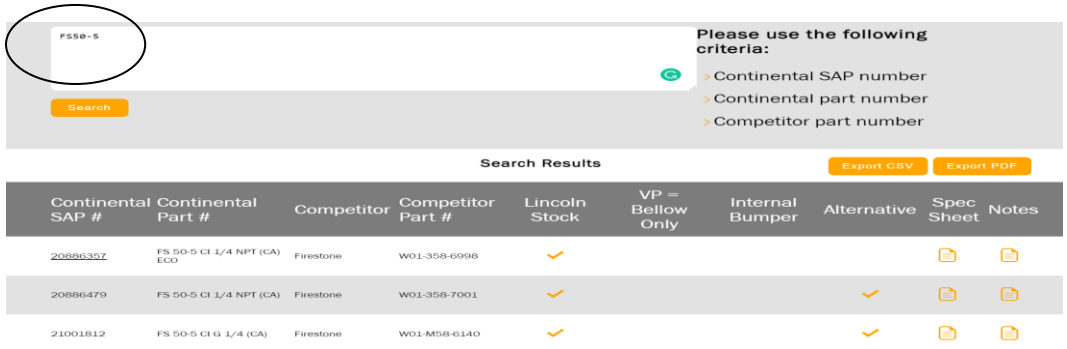
- Currently this website only pulls by the Firestone AON (Assembly Order Number). However, the next slide lists FS style numbers and which Continental bellow crosses to each FS style number.
- From there you can pull the Continental options by using the Continental bellow number.
- Multiple options will populate. Customer will need to assist to determine which spec they need/use.
- Example – Firestone Style Number 16 crosses to a Continental FS 50-5 bellow, FS 50-5 populated multiple options listing which FS spec it crosses to in the Competitor tab

Firestone Style Number (Only Offers Bellow Info Not Complete Air Spring)	Conti Cross - Bellow Only
16	FS 50-5
25	FD 70-13
110	FS 100-10
115	FS 200-10
119	FS 960-12



FS Style Numbers to Continental Bellow Numbers

Firestone Style Number	Continental Bellow Cross
16	FS 50-5
19	FS 330-11
20	FD 200-19
21	FD 530-22
22	FD 330-22
25	FD 70-13
26	FD 120-20
28	FD 960-22
29	FD 1710-25
38	FT 330-29
110	FS 100-10
113	FS 530-11
115	FS 200-10
116	FS 120-20
119	FS 960-12
126	FS 1710-12
131	FS 70-7

Firestone Style Number	Continental Bellow Cross
200	FD 2380-24
201	FD 960-22
203	FD 1330-25
207	FD 1710-25
210	FD 330-22 HP
211	FD 2870-30
215	FD 2870-30 (HP)
218	FD 1330-25 (HP)
224	FD 110-15
312	FT 960-34
313	FT 530-32
314	FT 960-34 (HP)
319	FT 2870-45
320	FT 1710-38
321	FT 2870-45 (HP)
323	FT 1330-35
324	FT 1330-35 (HP)
333	FT 530-35
352	FT 430-32

Firestone Style Number	Continental Bellow Cross
113-1	FS 530-14
148-1	FS 5450-16 (HP)
19-75	FS 330-14
1M1A-0	SK 37-6
1M1A-1	SK 37-8
2M2A	SK 19-4

Firestone Marsh Mellow Part Numbering System

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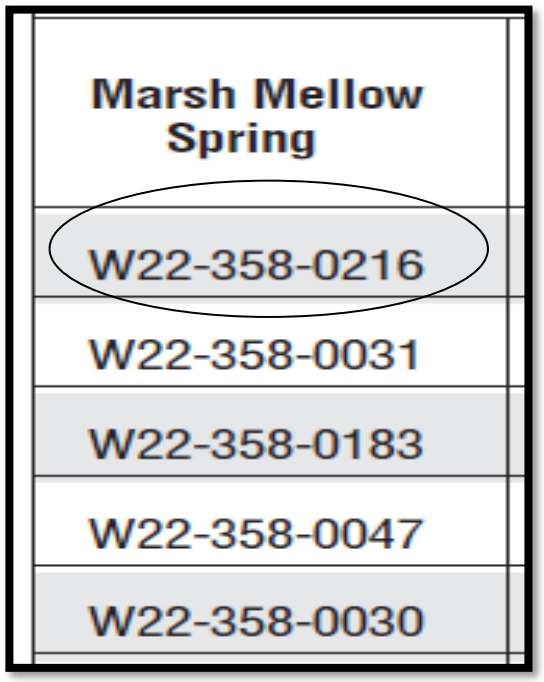
FS Nomenclature for Marsh Mellow

Part Number

The part number of the Marsh Mellow spring is shown at the top of the data sheet. The part number will start with W22-358-_ _ _ _. The last four digits are specific for each Marsh Mellow spring.

Examples



Goodyear - Infinity Engineered Products Part Numbering System

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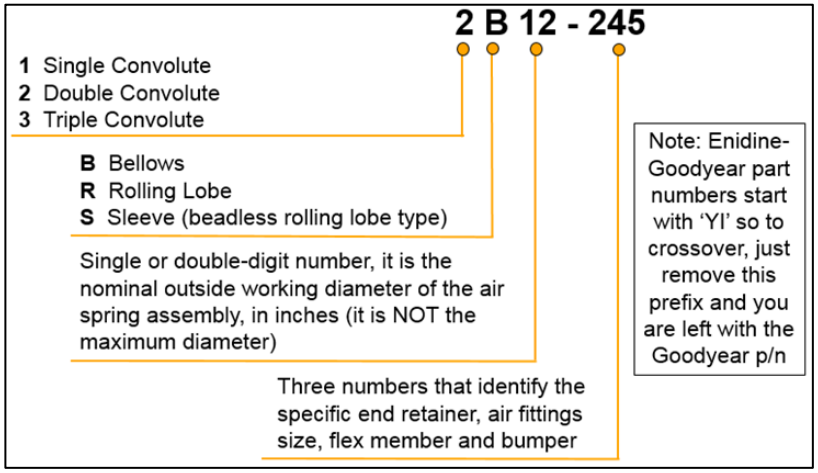
The following figure below shows the “Assembly Number” format for the Goodyear-branded, Infinity Engineered Products Air Springs. Since ITT-Enidine is the Master Distributor for Infinity Engineered Products, their assembly number is similar but with a YI or YM at the beginning.

Liked Firestone, Infinity Engineered Products molds a bellow part number which they call a Flex-Member Number on the bellow. Again, this part number only references the bellow used and not the complete assembly.

Currently this website only populates crosses when using the complete Infinity Engineered Product or Enidine assembly number.



Goodyear Lay-Lined & ITT-Enidine Assembly Number Format

Alternative
If there’s a check mark in the alternative column

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Crosses that are not exact drop ins are listed with a check mark in the Alternative column. Additional details are listed in the Comments column.

Those listed as an alternative - We suggest providing your customer with the Continental air spring spec sheet for further review.

If Unable to Find a Part Number?

If unable to find a part number and or the machinery has been modified and new air springs are needed, then the best option is to provide selection factors.

Next two slides cover information that our engineers will need to know about the application to make an expert recommendation. Depending on how the air springs will be used, will depend on which information is needed filled out. Air Springs can be used as actuators to transit a load or force or used as vibration isolators.

Once the needed information is compiled, please contact customer service -

- 800-235-4632
- Email: airsprings@contitech.us

Selection Factors
Air Actuator for Automation

Requirements for sizing:

- Weight to be lifted, force required (lbs.)
- Desired stroke (in.)
- Number of air actuators (n)
- Minimum installation height, H_{min} (in.)
- Permissible installation diameter (in.)
- Air pressure (psi)
- Return force (lbs.)
- Temperature (ºF)
- Inlet port size (G or NPT)
- Chemical presence (MSDS)
- Lateral offset (in.)
- Angular motion (º)

Selection Factors

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Requirements for Calculations – Vibration Control

Requirements for sizing:

- Load or total weight, F (lbs.)
- Exciting frequency, f (Hz), or
- Rate of revolutions, U or rpm (1/min)
- Desired degree of isolation, η (%)
- Number of air actuators (n)
- Operating height, H_{min} (in.)
- Permissible installation diameter, D (in.)
- Air pressure, p_{op} (psi)
- Inlet port size (G or NPT)
- Chemical compatibility (MSDS)