

Air Slides Performance Data



Last update: 2021-04-08

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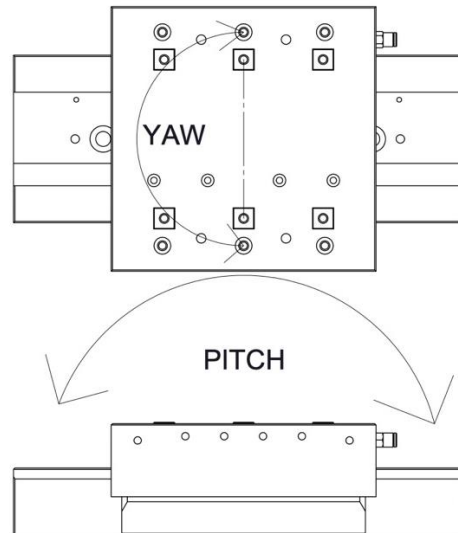
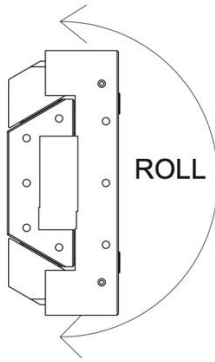
End-Supported Air Slides

Performance Data



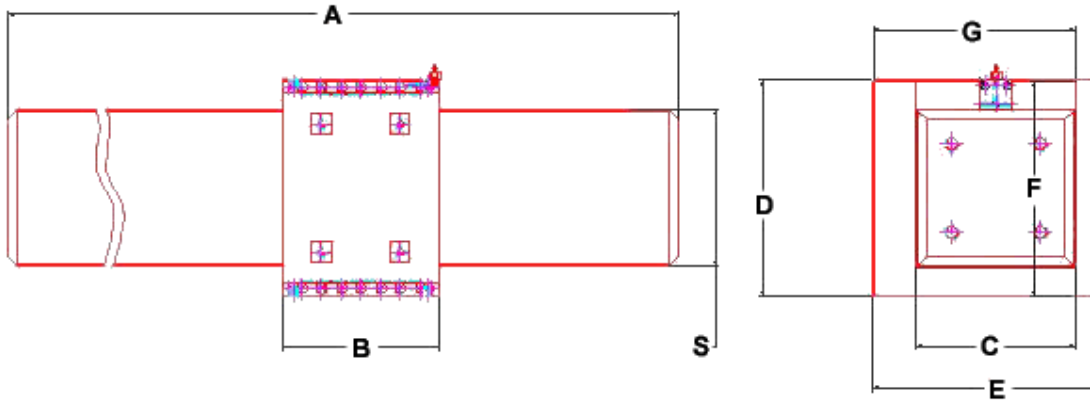
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Definition Yaw Pitch Roll



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Standard IBS Air Slide Assemblies



Part #	Stage Area in. (mm)	Stage Travel in. (mm)	Stage Length in. (mm) "B"	Stage Width in. (mm) "D"	Stage Height in. (mm) "E"	Guidebar Length in. (mm) "A"	Guidebar Width in. (mm) "S"	Guidebar Height in. (mm) "C"
S40-03050-025152	2 x 2.2 (51 x 57)	4 (102)	2 (51)	2.2 (57)	2.4 (60)	6 (152)	1.0 (25)	1.0 (25)
S40-03050-025356	2 x 2.2 (51 x 57)	12 (305)	2 (51)	2.2 (57)	2.4 (60)	14 (356)	1.0 (25)	1.0 (25)
S40-03075-038178	3 x 2.7 (76 x 70)	4 (102)	3 (76)	2.7 (70)	2.9 (73)	7 (178)	1.5 (38)	1.5 (38)
S40-03075-038381	3 x 2.7 (76 x 70)	12 (305)	3 (76)	2.7 (70)	2.9 (73)	15 (381)	1.5 (38)	1.5 (38)
S40-03125-050229	5 x 3.2 (127 x 82)	4 (102)	5 (127)	3.2 (82)	3.4 (86)	9 (229)	2.0 (51)	2.0 (51)
S40-03125-050432	5 x 3.2 (127 x 82)	12 (305)	5 (127)	3.2 (82)	3.4 (86)	17 (432)	2.0 (51)	2.0 (51)
S40-03100-100203	4 x 5.5 (102 x 140)	4 (102)	4 (102)	5.5 (140)	5.8 (146)	8 (203)	4.0 (102)	4.0 (102)
S40-03100-100406	4 x 5.5 (102 x 140)	12 (305)	4 (102)	5.5 (140)	5.8 (146)	16 (406)	4.0 (102)	4.0 (102)
S40-01200-125305	8 x 7.5 (200 x 190)	4 (102)	8 (200)	7.5 (190)	5.5 (140)	12 (305)	4.9 (125)	3.1 (80)
S40-01200-125508	8 x 7.5 (200 x 190)	12 (305)	8 (200)	7.5 (190)	5.5 (140)	20 (508)	4.9 (125)	3.1 (80)

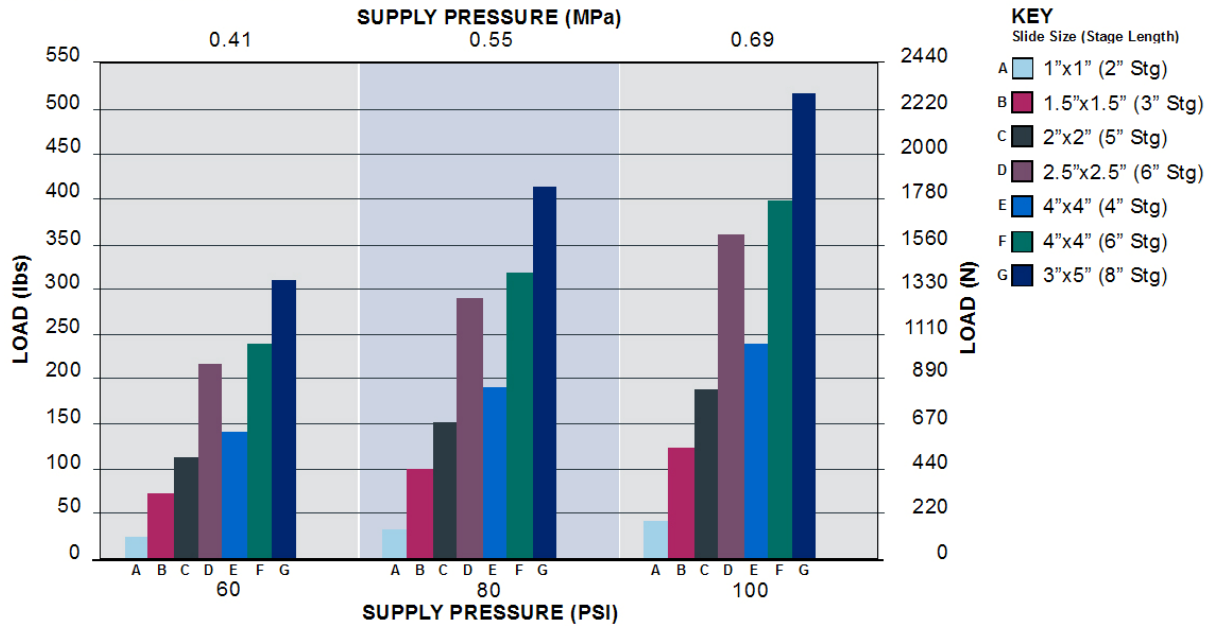
IBS end supported air slides provide a local straightness (in X and Z) of 250 nanometers (0.25 microns) per 25mm travel.

Maximum error (global): 2 microns per 1000mm travel

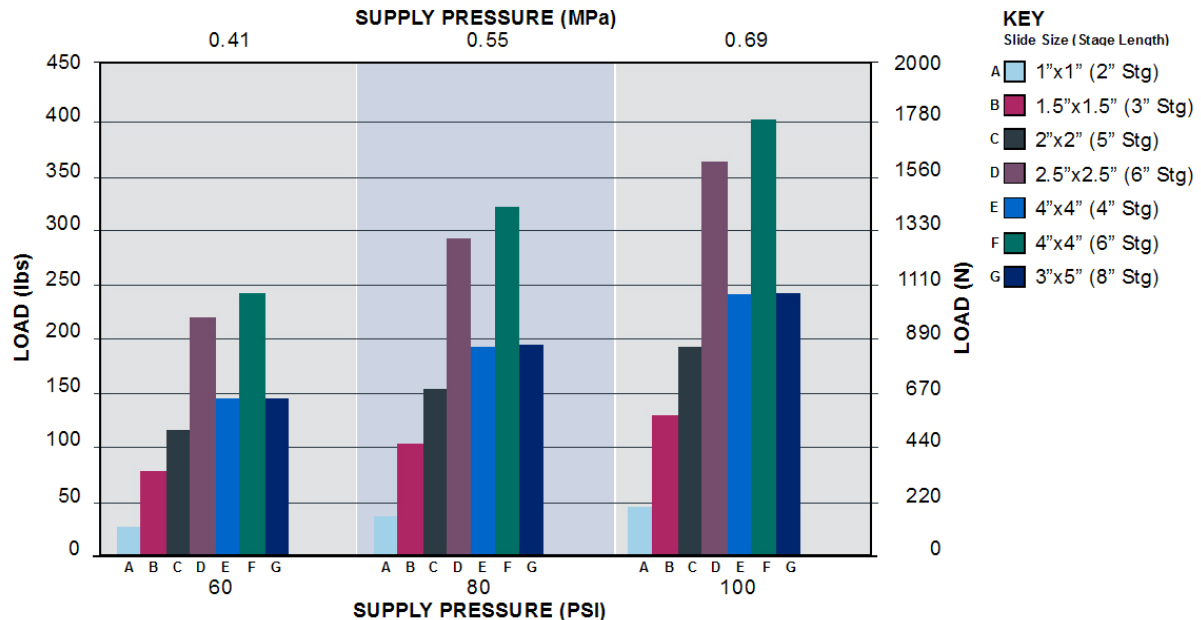
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End-Supported Air Slides - Performance Data

Maximum Load "Z"



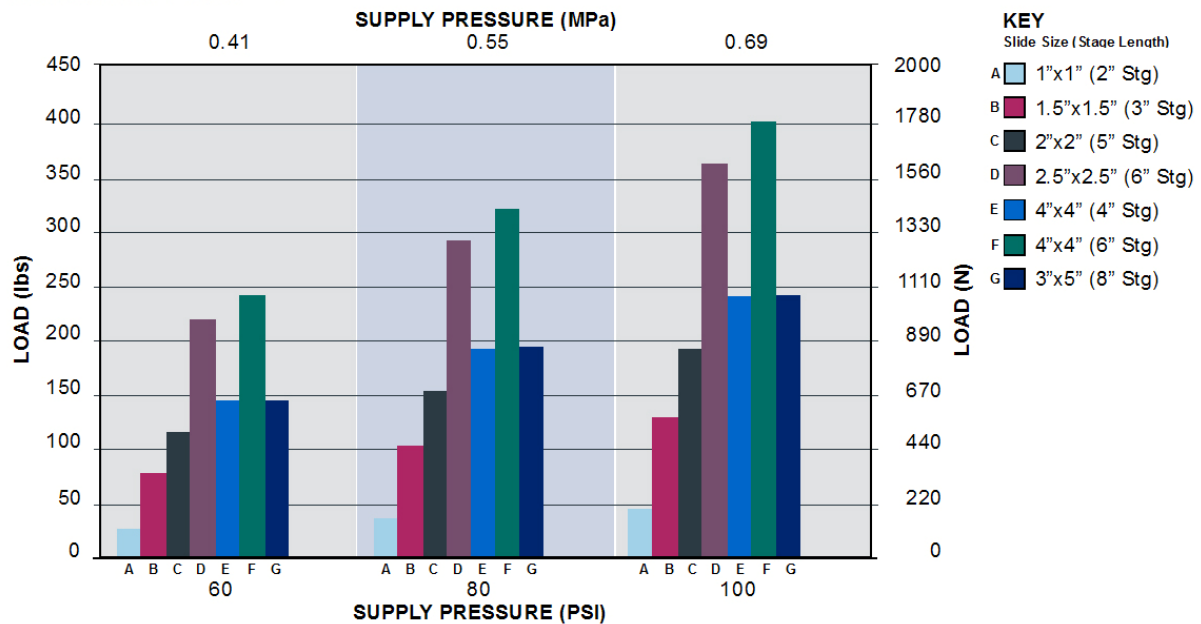
Maximum Load "Y"



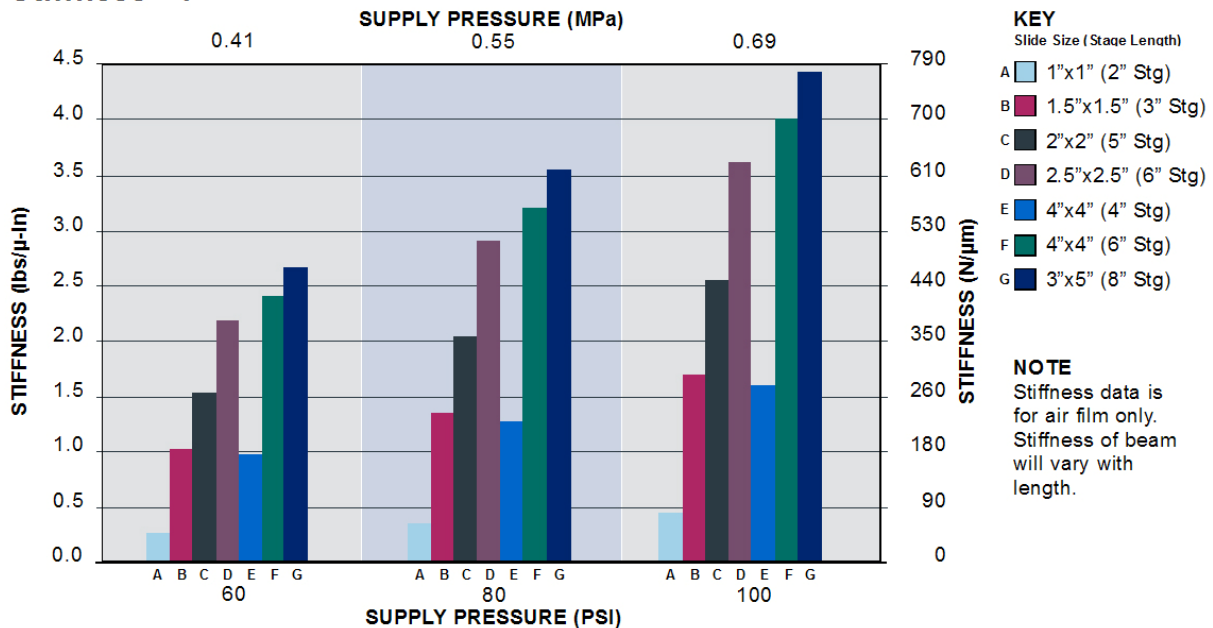
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End-Supported Air Slides - Performance Data

Maximum Load "Y"



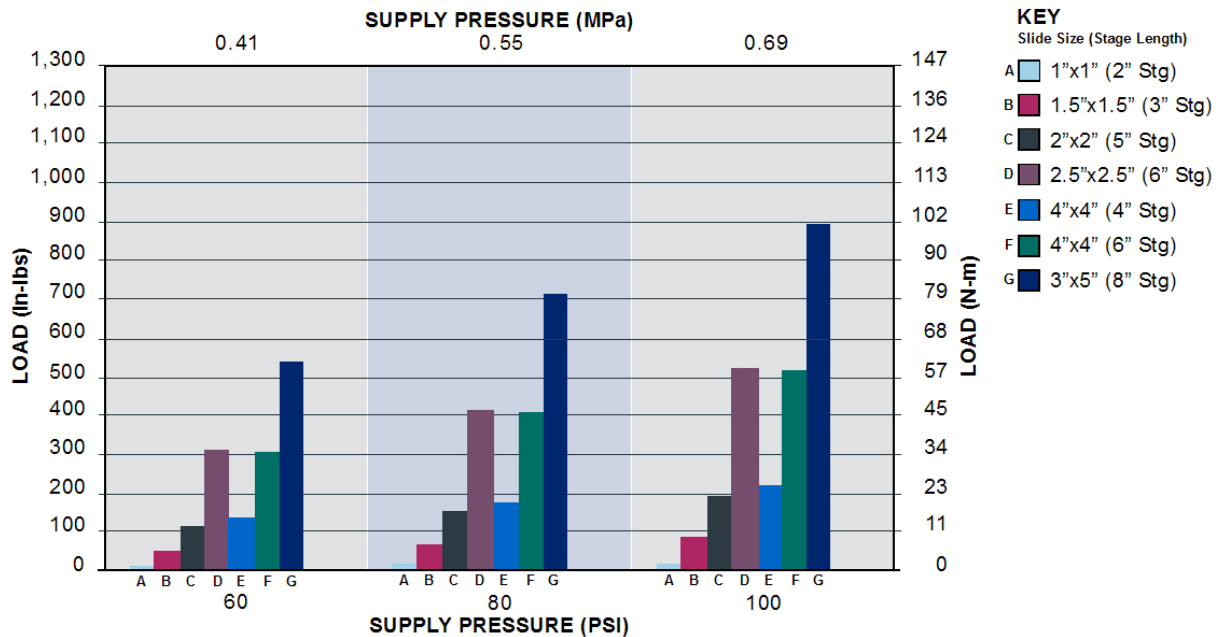
Stiffness "Y"



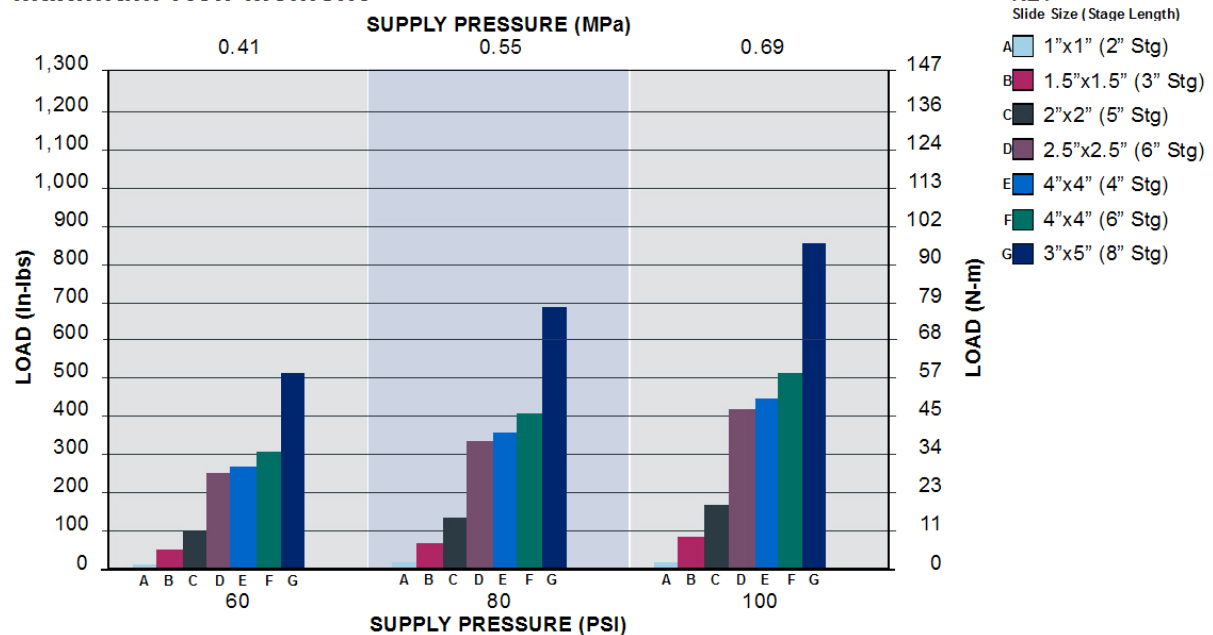
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End-Supported Air Slides - Performance Data

Maximum Pitch Moment



Maximum Roll Moment



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Dovetail Air Slides

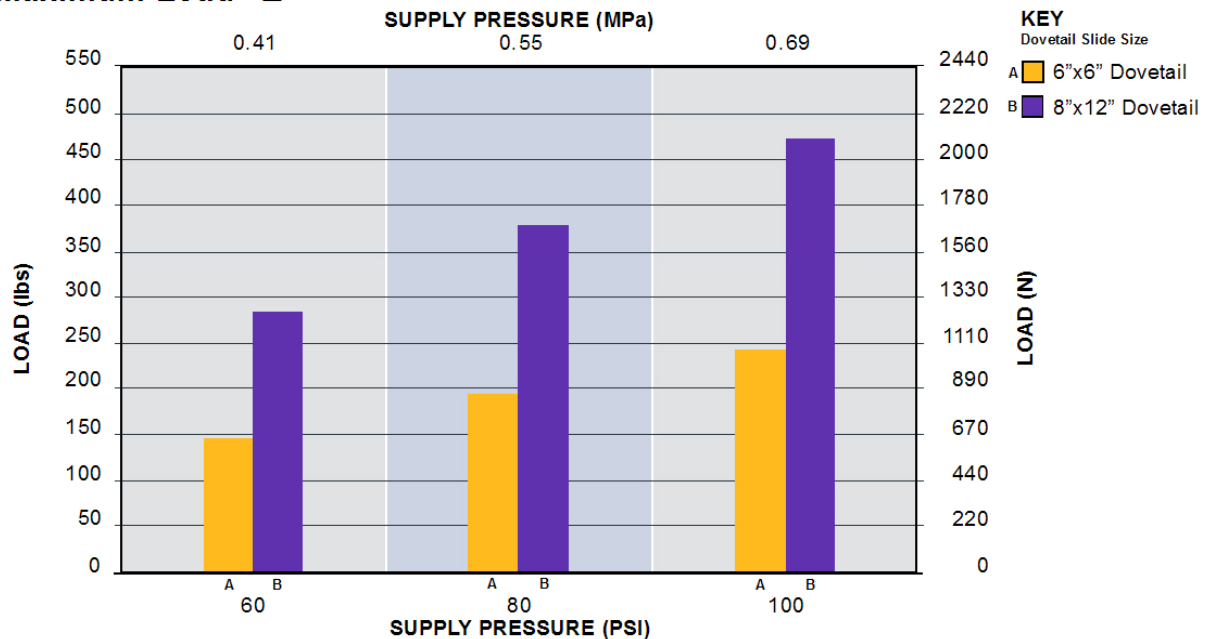
Performance Data



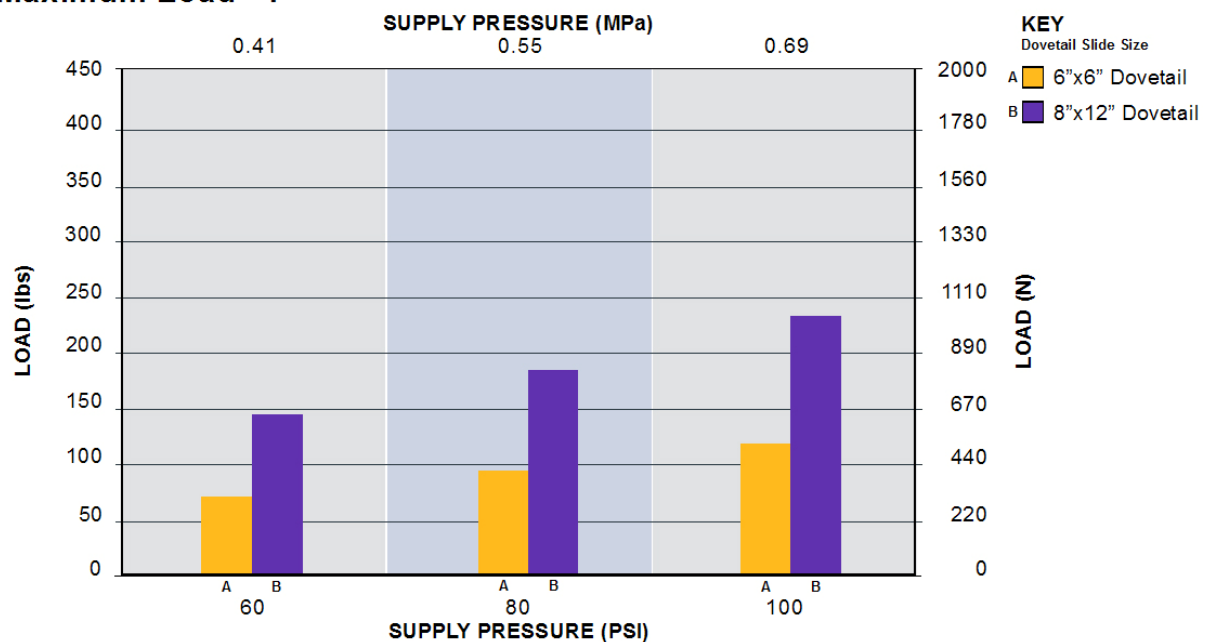
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Dovetail Air Slides - Performance Data

Maximum Load "Z"



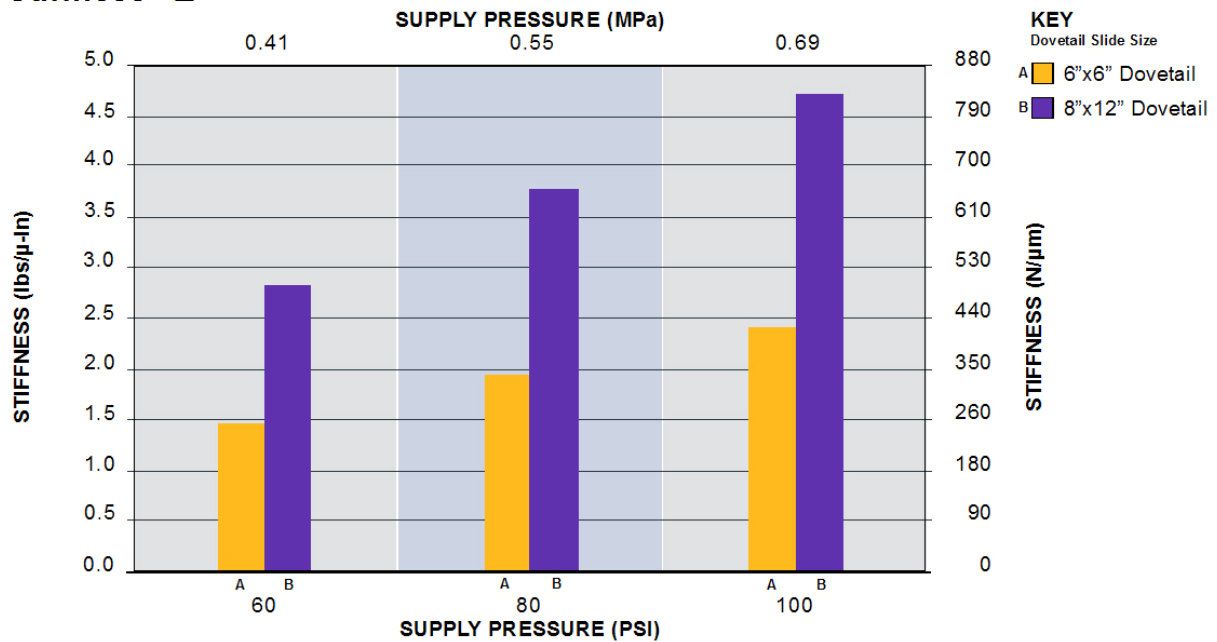
Maximum Load "Y"



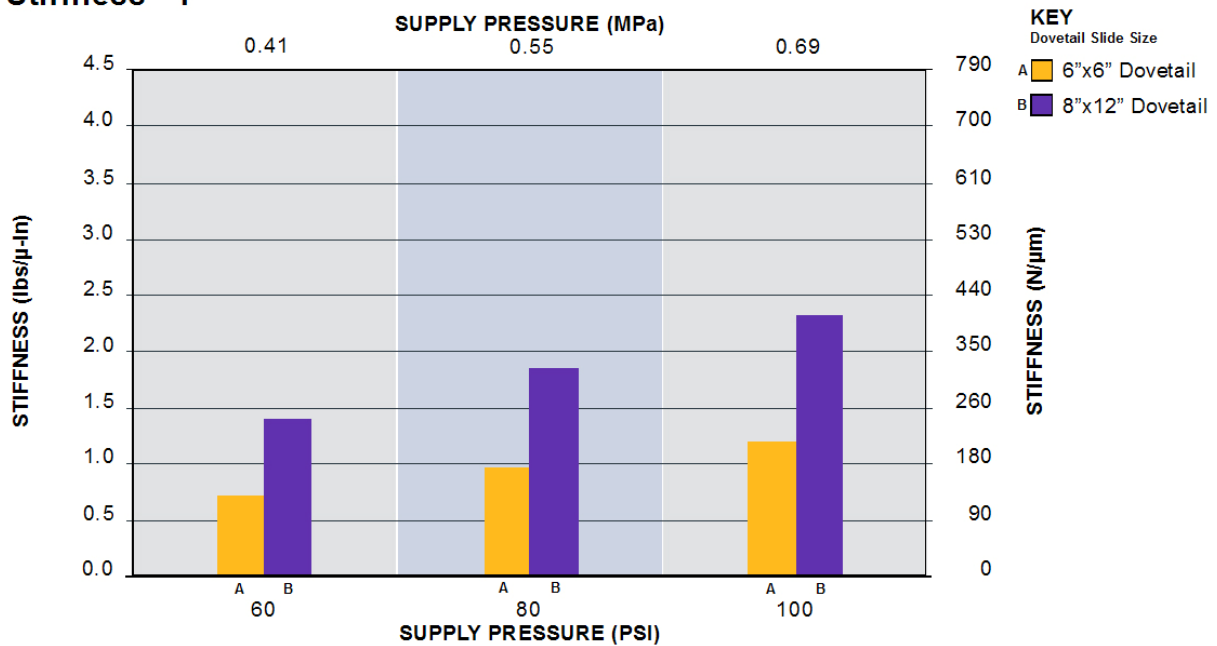
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Dovetail Air Slides - Performance Data

Stiffness "Z"



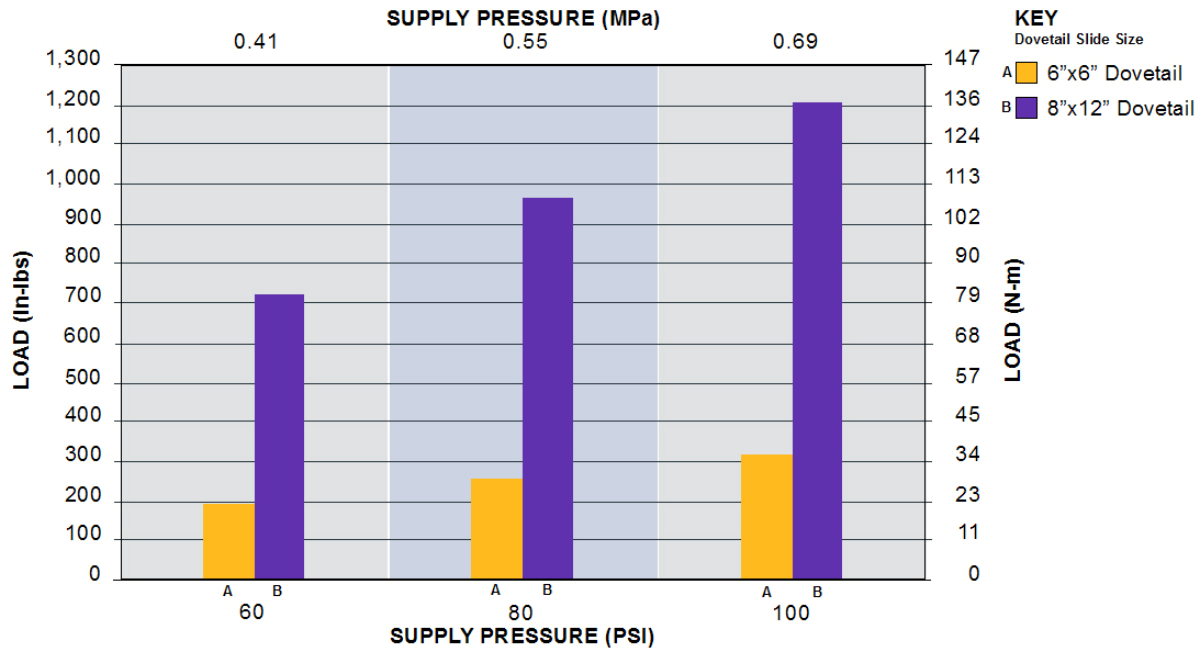
Stiffness "Y"



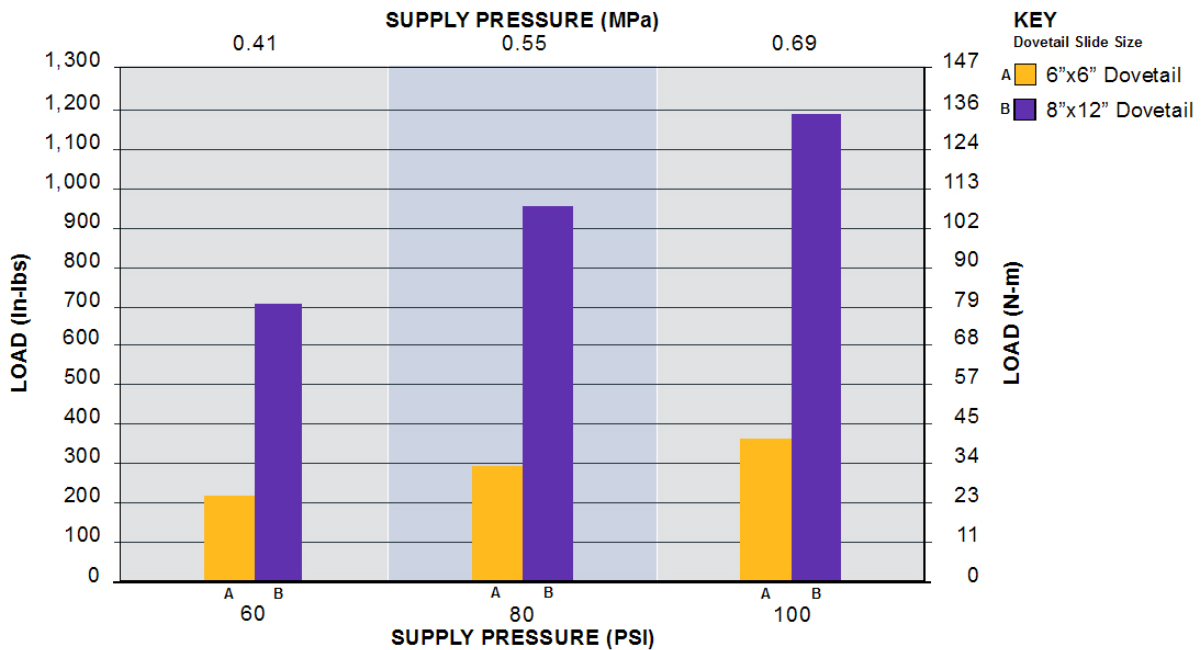
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Dovetail Air Slides - Performance Data

Maximum Pitch Moment



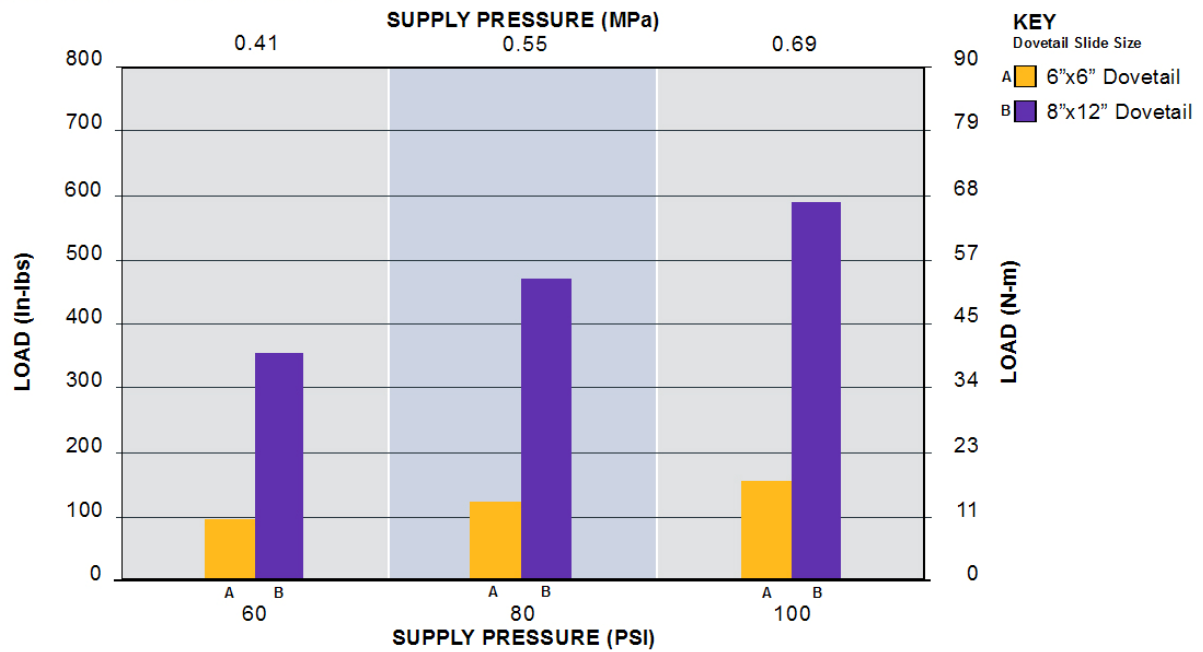
Maximum Roll Moment



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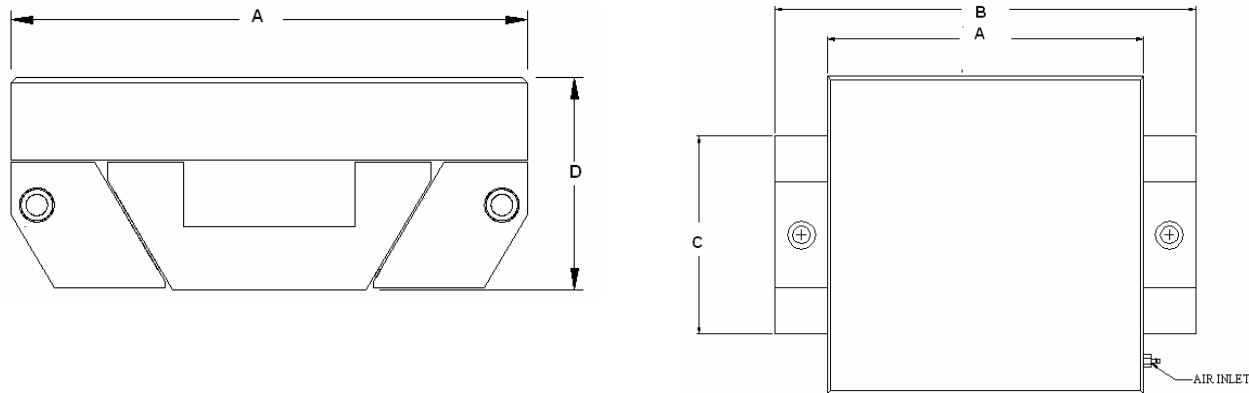
Dovetail Air Slides - Performance Data

Maximum Yaw Moment



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Dovetail Air Slides



Part #	A Stage Area mm	Stage Travel mm	A Stage Length mm	A Stage Width mm	D Stage Height mm	B Guidebar Length mm	C Guidebar Width mm	Guidebar Height mm	Total Weight kg
S40-06150-095254	152x152	102	152	152	64	254	95	38	3.47
S40-06150-095457	152x152	305	152	152	64	457	95	38	4.55
S40-06300-145406	203x305	102	305	203	76	406	145	38	9.59
S40-06300-145610	203x305	305	305	203	76	610	145	38	11.38

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