DLM SERIES

Miniature Rail Thruster Slide | Features and Benefits | How To Order

Features:

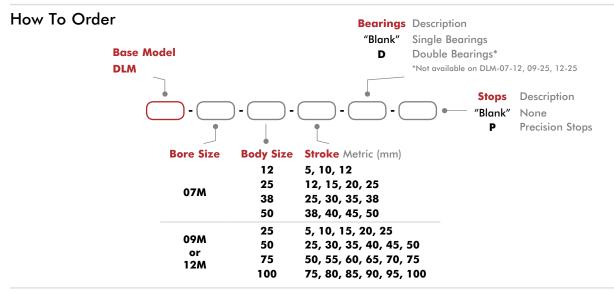
- Compact high reliability bearing design
- Excellent part position repeatability
- Double bearings -D for longer strokes, greater load and moment capacity
- Internal Delrin® extend and retract stops
 P for increased repeatability
- Sense up to 8 positions with 4 adjustable magneto resistive sensors
- Multiple tapped air ports on each side, rear and bottom of body
- Thru-body mounting and DIRECTCONNECT™ thru tapped and dowel mounting, on tool plate and body
- Viton® seals for operation in high temperature environments



(USB key shown for scale)

Applications:

- Precision applications
- Small parts handling



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
PNP Magneto Resistive Sensor Short Barrel (with Qk. Disc.)*	All Models	OHSP-017	1-4
NPN Magneto Resistive Sensor Short Barrel (with Qk. Disc.)*	All Models	OHSN-017	1-4
PNP Magneto Resistive Sensor 90° Barrel (with Qk. Disc.)*	All Models	OHSP-011	1-4
NPN Magneto Resistive Sensor 90° Barrel (with Qk. Disc.)*	All Models	OH\$N-011	1-4
Quick Disconnect 2 Meter Cable Length*	All Models	CABL-010	1-4
Quick Disconnect 5 Meter Cable Length*	All Models	CABL-013	1-4

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Adjustable Flow Control	All Models	VLFL-008	1-2
Seal Kits	See Datasheets		1

^{*}Sensor and cable sold separately.



DLM SERIES

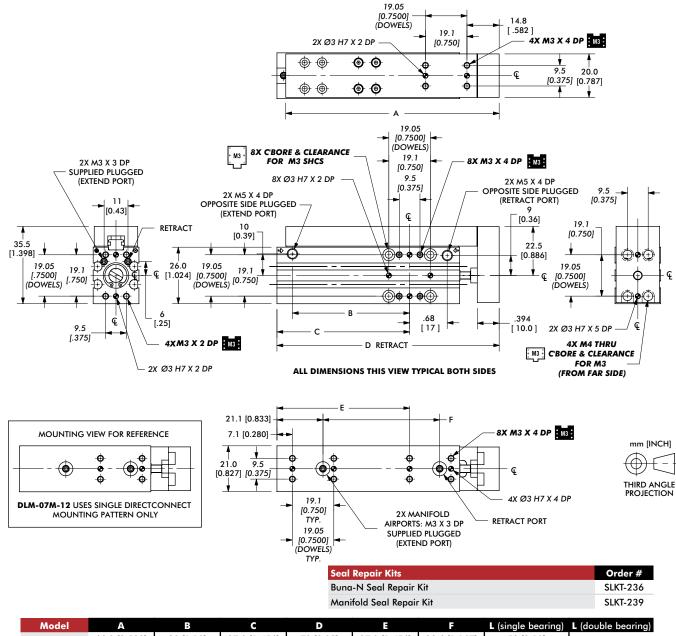
Miniature Rail Thruster Slide | Technical Specifications

Thrust Force F @ 7 bar [100 psi] N	Specifications	Units	DLM-07M-12 DLM-07M-25 DLM-07M-38 DLM-07M-50				
Weight May	Thrust Force F @ 7 bar [100 psi]	N [lbs]	66 [15]				
Weight May	Max. Stroke	mm [in]	12 [0.50]				
Max. Poyload W kg [lbs] 0.45 [1.0] Max. Poyload W (-P option) kg [lbs] 0.23 [0.5] Cylinder Bore Ø mm [in] 0.11 [0.437] Temperature Range °C [°F] -35°~80° [-30°-180°] Actuation (per 25mm of travel) sec 0.07 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.008 [±0.003] Pressure Range bor [psi] DLM-09M-25 DLM-09M-50 DLM-09M-75 DLM-09M-75 Volve to Actuate Double Acting DLM-09M-25 DLM-09M-50 DLM-09M-75 DLM-09M-75 DLM-09M-100 Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Max. Stroke mm [in] 5 [0.19] Medicate May [1.08] 0.44 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Poyload W kg [lbs] 0.49 [1.08] 0.64 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Poyload W kg [lbs] 0.45 [1.0] 0.81 [1.78] 0.97 [2.13] Max. Poyload W (-P option) kg [lbs] 0.45 [1.0] 0.10 <td>Stroke Reduction (return)</td> <td>mm [in]</td> <td colspan="5"></td>	Stroke Reduction (return)	mm [in]					
Max. Payload W (-P option) kg [lbs] 0.23 [0.5] Cylinder Bore Ø mm [in] 0.11 [0.437] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.07 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bor [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-09M-25 DLM-09M-30 DLM-09M-75 DLM-09M-100 Thrust Force F @ 7 bor [100 psi] N [lbs] 138 N [31 lbs] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 10.49 [1.08] 0.44 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Payload W (-P option) kg [lbs] 0.49 [1.08] 0.45 [1.0] Cylinder Bore Ø mm [in] 10 [1.6430] Emperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bor [psi] N [lbs] 230 [51] Max. Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.00 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.00 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.00 [2.25] Max. Payload W (-P option) kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.00 [2.25]	Weight	kg [lbs]	0.13 [0.28]				
Cylinder Bore Ø	Max. Payload W	kg [lbs]	0.45 [1.0]				
Temperature Range	Max. Payload W (-P option)	kg [lbs]	0.23 [0.5]				
Actuation (per 25mm of travel) Linear Accuracy (per 25mm of travel) Mare fin	Cylinder Bore Ø	mm [in]	0.11 [0.437]				
Linear Accuracy (per 25mm of travel) mm in	Temperature Range	°C [°F]	-35°~80° [-30°~180°]				
Repeatability (-P option) mm [in]	Actuation (per 25mm of travel)	sec	0.07				
Pressure Range bor [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-09M-25 DLM-09M-50 DLM-09M-75 DLM-09M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 138 N [31 lbs] 100 [4.00] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] .5 [0.19] .0.41 [1.78] 0.97 [2.13] Weight kg [lbs] 0.49 [1.08] 0.64 [1.1] 0.81 [1.78] 0.97 [2.13] Max. Payload W (-P option) kg [lbs] 0.45 [1.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0] .0.90 [2.0]	Linear Accuracy (per 25mm of travel)	mm [in]	±0.005 [±0.0001]				
Valve to Actuate Double Acting	Repeatability (-P option)	mm [in]	±0.08 [±0.003]				
Specifications Units DLM-09M-25 DLM-09M-50 DLM-09M-75 DLM-09M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 138 N [31 lbs] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00]	Pressure Range	bar [psi]	1.4-7 [20-100]				
Thrust Force F @ 7 bar [100 psi] N [lbs] 138 N [31 lbs] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19]	Valve to Actuate Double Acting		4-way, 2-position				
Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.49 [1.08] 0.64 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Payload W kg [lbs] 0.45 [1.0] 0.97 [2.13] Max. Payload W (-P option) kg [lbs] 0.45 [1.0] 0.00 Cylinder Bore Ø mm [in] 16 [0.630] 0.00 Temperature Range °C [°F] -35°~80° [-30°~180°] 0.00 Actuation (per 25mm of travel) sec 0.10 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] 0.00 Repeatability (-P option) mm [in] ±0.005 [±0.0001] 0.00 Repeatability (-P option) mm [in] ±0.008 [±0.003] 0.00 Valve to Actuate Double Acting 1.4-7 [20-100] 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Specifications	Units	DLM-09M-25 DLM-09M-50 DLM-09M-75 DLM-09M-100				
Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [ibs] 0.49 [1.08] 0.64 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Payload W kg [ibs] 0.90 [2.0] 0.45 [1.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] <td>Thrust Force F @ 7 bar [100 psi]</td> <td>N [lbs]</td> <td>138 N [31 lbs]</td>	Thrust Force F @ 7 bar [100 psi]	N [lbs]	138 N [31 lbs]				
Weight kg [lbs] 0.49 [1.08] 0.64 [1.41] 0.81 [1.78] 0.97 [2.13] Max. Payload W kg [lbs] 0.90 [2.0] 0.90 [2.0] Max. Payload W (-P option) kg [lbs] 0.45 [1.0] Cylinder Bore Ø mm [in] 16 [0.630] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Your Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25]	Max. Stroke	mm [in]	25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00]				
Max. Payload W kg [lbs] 0.90 [2.0] Max. Payload W (-P option) kg [lbs] 0.45 [1.0] Cylinder Bore Ø mm [in] 16 [0.630] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-75 DLM-12M-75 DLM-12M-75 DLM-12M-75 DLM-12M	Stroke Reduction (return)	mm [in]	5 [0.19]				
Max. Payload W (-P option) kg [lbs] 0.45 [1.0] Cylinder Bore Ø mm [in] 16 [0.630] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.54 [1.18] 0.50 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] <th< td=""><td>Weight</td><td>kg [lbs]</td><td>0.49 [1.08]</td></th<>	Weight	kg [lbs]	0.49 [1.08]				
Cylinder Bore Ø mm [in] 16 [0.630] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00] 100 [4.00]	Max. Payload W	kg [lbs]	0.90 [2.0]				
Temperature Range °C [°F] .35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.10 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Max. Payload W (-P option)	kg [lbs]	0.45 [1.0]				
Actuation (per 25mm of travel) Linear Accuracy (per 25mm of travel) Repeatability (-P option) Repeatability (-P option) Mm [in] # 0.08 [±0.003] # 1.4-7 [20-100] Walve to Actuate Double Acting # 230 [51] Max. Stroke Mm [in] # 25 [1.00] # 230 [51] Max. Stroke Reduction (return) # 25 [1.00] # 25 [1.00] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] # 30 [51] #	Cylinder Bore Ø	mm [in]	16 [0.630]				
Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Temperature Range	°C [°F]	-35°~80° [-30°~180°]				
Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Actuation (per 25mm of travel)	sec	0.10				
Pressure Range bar [psi] 1.4-7 [20-100] Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.54 [1.18] 0.90 [2.0] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0] 0.90 [2.0	Linear Accuracy (per 25mm of travel)	mm [in]	±0.005 [±0.0001]				
Valve to Actuate Double Acting 4-way, 2-position Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.90 [2.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] 1.81 [4.0] <td>Repeatability (-P option)</td> <td>mm [in]</td> <td colspan="5">±0.08 [±0.003]</td>	Repeatability (-P option)	mm [in]	±0.08 [±0.003]				
Specifications Units DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100 Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] 5 [0.19] 1.82 [1.80] 1.02 [2.25] Weight kg [lbs] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 0.90 [2.0] 1.81 [4.0] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] 0.30~180° Temperature Range °C [°F] -35°~80° [-30°~180°] 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] ±0.08 [±0.003] Repeatability (-P option) mm [in] ±0.08 [±0.003] 1.4-7 [20-100]	Pressure Range	bar [psi]	1.4-7 [20-100]				
Thrust Force F @ 7 bar [100 psi] N [lbs] 230 [51] Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Valve to Actuate Double Acting		4-way, 2-position				
Max. Stroke mm [in] 25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00] Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 1.81 [4.0] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Specifications	Units	DLM-12M-25 DLM-12M-50 DLM-12M-75 DLM-12M-100				
Stroke Reduction (return) mm [in] 5 [0.19] Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 1.81 [4.0] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Thrust Force F @ 7 bar [100 psi]	N [lbs]	230 [51]				
Weight kg [lbs] 0.54 [1.18] 0.65 [1.43] 1.82 [1.80] 1.02 [2.25] Max. Payload W kg [lbs] 1.81 [4.0] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Max. Stroke	mm [in]	25 [1.00] 50 [2.00] 75 [3.00] 100 [4.00]				
Max. Payload W kg [lbs] 1.81 [4.0] Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Stroke Reduction (return)	mm [in]	5 [0.19]				
Max. Payload W (-P option) kg [lbs] 0.90 [2.0] Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Weight	kg [lbs]	0.54 [1.18]				
Cylinder Bore Ø mm [in] 22 [0.813] Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Max. Payload W	kg [lbs]	1.81 [4.0]				
Temperature Range °C [°F] -35°~80° [-30°~180°] Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Max. Payload W (-P option)	kg [lbs]	0.90 [2.0]				
Actuation (per 25mm of travel) sec 0.14 Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Cylinder Bore Ø	mm [in]	22 [0.813]				
Linear Accuracy (per 25mm of travel) mm [in] ±0.005 [±0.0001] Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Temperature Range	°C [°F]	-35°~80° [-30°~180°]				
Repeatability (-P option) mm [in] ±0.08 [±0.003] Pressure Range bar [psi] 1.4-7 [20-100]	Actuation (per 25mm of travel)	sec	0.14				
Pressure Range bar [psi] 1.4-7 [20-100]	Linear Accuracy (per 25mm of travel)	mm [in]	±0.005 [±0.0001]				
	Repeatability (-P option)	mm [in]	±0.08 [±0.003]				
Valve to Actuate Double Acting 4-way, 2-position	Pressure Range	bar [psi]	1.4-7 [20-100]				
	Valve to Actuate Double Acting		4-way, 2-position				

DLM-07M



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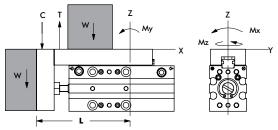


	Model	Α	В	С	D	E	F	L (single bearing)	L (double bearing)
DL	M-07M-12	66.0 [2.599]	30 [1.18]	37.0 [1.456]	78 [3.08]	37.0 [1.456]	29.6 [1.167]	53 [2.10]	
DL	M-07M-25	98.0 [3.859]	54 [2.12]	61.0 [2.401]	102 [4.02]	60.9 [2.401]	53.6 [2.112]	61 [2.39]	73 [2.87]
DL	M-07M-38	111.0 [4.370]	67 [2.63]	74.0 [2.913]	115 [4.53]	74.0 [2.913]	66.6 [2.624]	74 [2.90]	86 [3.38]
DL	M-07M-50	123.0 [4.843]	79 [3.10]	86.0 [3.385]	127 [5.00]	86.0 [3.385]	78.6 [3.096]	86 [3.37]	98 [3.86]
Dim	ensions in mm	n [in]							

Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-07	Static
Maximum Tensile T	490 N [110 lbs]
Maximum Compressive C	490 N [110 lbs]
Maximum Moment M _X	5.1 Nm [45 in-lbs]
Maximum Moment My	3.2 Nm [28 in-lbs]
Maximum Payload W	3.2 Nm [28 in-lbs]
Distance to Bearing Centerline	L (see chart above)

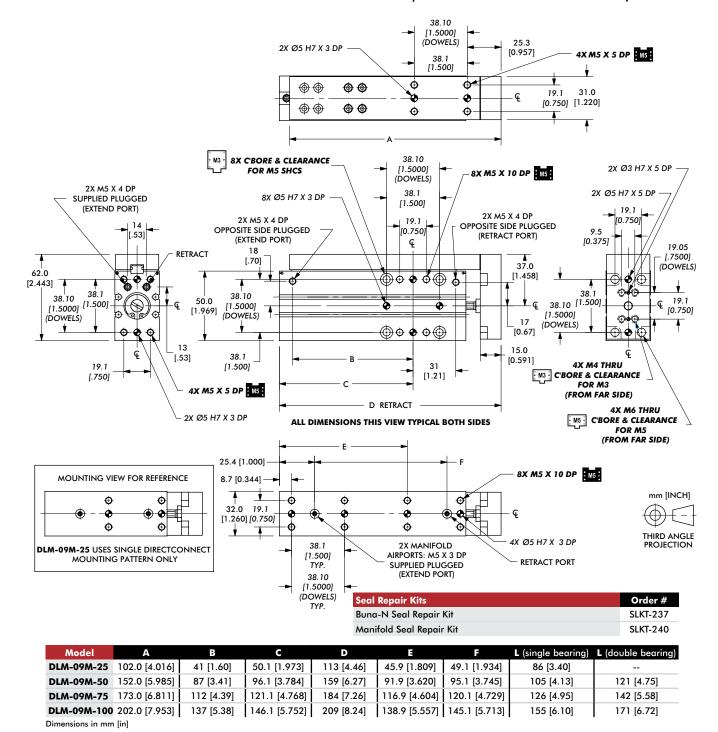


Flow Controls are recommended for all applications





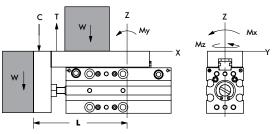
Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-09	Static
Maximum Tensile T	735 N [165 lbs]
Maximum Compressive C	735 N [165 lbs]
Maximum Moment M _X	9.6 Nm [84 in-lbs]
Maximum Moment My	6.4 Nm [56 in-lbs]
Maximum Payload W	6.4 Nm [56 in-lbs]
Distance to Bearing Centerline	L (see chart above)



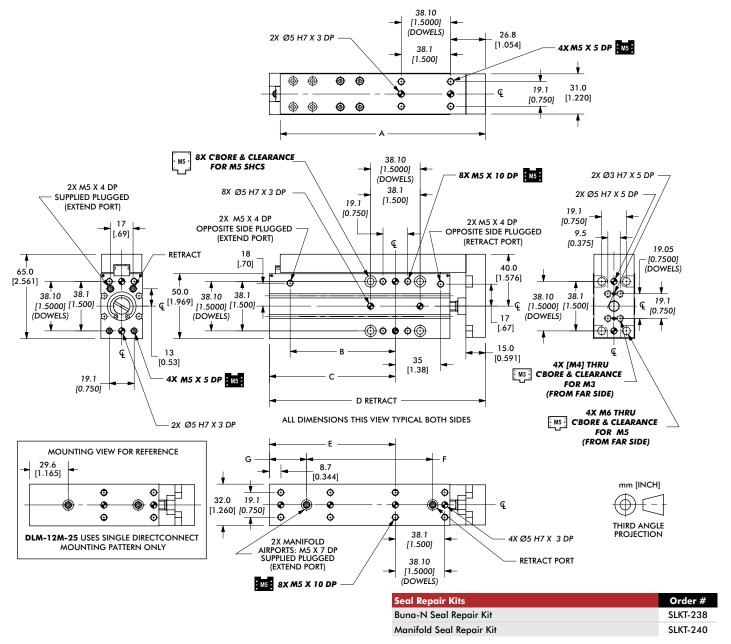
Flow Controls are recommended for all applications



DLM-12M



Miniature Rail Thruster Slide | Dimensions and Technical Specifications



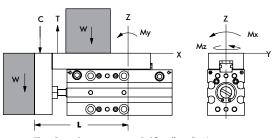
Model	Α	В	С	D	E	F	G	L (single bearing)	L (double bearing)
DLM-12M-25	105.0 [4.134]	41 [1.62]	56.9 [2.242]	126 [4.97]	56.9 [2.242]	53.5 [2.108]	29.6 [1.165]	88 [3.45]	
DLM-12M-50	158.0 [6.221]	81 [3.19]	96.9 [3.816]	166 [6.55]	96.9 [3.816]	97.1 [3.824]		104 [4.10]	122 [4.82]
DLM-12M-75	186.0 [7.323]	108 [4.25]	123.9 [4.879]	193 [7.61]	123.9 [4.879]	124.1 [4.887]	28.6 [1.125]	132 [5.21]	150 [5.92]
DLM-12M-100	208.0 [8.189]	133 [5.24]	148.9 [5.864]	218 [8.60]	148.9 [5.864]	149.1 [5.872]		154 [6.07]	172 [6.79]

Dimensions in mm [in]

Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-12M	Static
Maximum Tensile T	1214 N [273 lbs]
Maximum Compressive C	1214 N [273 lbs]
Maximum Moment M _X	20.6 Nm [182 in-lbs]
Maximum Moment My	11.8 Nm [104 in-lbs]
Maximum Payload W	11.8 Nm [104 in-lbs]
Distance to Bearing Centerline	(see chart above)



Flow Controls are recommended for all applications

