



2023 CATALOG



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ATLAS INDUSTRIAL™

GAS SPRINGS, DAMPERS & SHOCKS BY DMA

ATLAS INDUSTRIAL COVERS:



MEDICAL



LAWN / GARDEN



CONSTRUCTION



UTVS



RV & MARINE



HARDWARE



AGRICULTURE



FURNITURE

THE ATLAS INDUSTRIAL ADVANTAGES

- ✓ Specialist in Contract Manufacturing for Industrial Applications
- ✓ Product Design Engineering and Modeling Services
- ✓ 5 Business Day RFQ Turnaround
- ✓ Low Minimum Order Quantity
- ✓ Competitive Pricing
- ✓ Rapid Prototype Sample Availability
- ✓ Complete Laboratory to Meet Validation Requirements





ABOUT US

The **ATLAS INDUSTRIAL™** brand is the contract manufacturing arm of **DMA Industries, LLC** Lift Support segment, focusing on contract manufacturing of **Gas Springs, BlockLifts, and Dampers**. Included in **ATLAS INDUSTRIAL™** product line offerings are **Standard Gas Springs & Dampers** that Cross Reference to a wide variety of competitor parts. In addition to industrial lift supports, **DMA Industries, LLC** supplies a Full Line of Automotive Lift Supports under the **ATLAS LIFT™** brand.

DMA Industries, LLC was founded in 2008 and has rapidly grown to become a trusted supplier in the Automotive Marketplace. **DMA Industries, LLC's** growth is attributed to its proven ability to deliver **high-quality, cost-effective products** that address market and customer needs. **DMA Industries, LLC** is located in Loris, SC.

ATLAS INDUSTRIAL™ extensive capabilities include **Custom Designs** to fit Customer Application requirements, providing **Engineering Support** locally with **CAD Design**. **ATLAS INDUSTRIAL™**'s Offshore Partners have full testing capabilities in-house for **Gas Springs & Dampers**. All parts are **100% Tested** before shipping. Facilities are state of the art with **Automated Assembly** processes for high & low volume manufacturing. **ATLAS INDUSTRIAL™** is **ISO Certified**, currently supplying the **Construction, Medical, Hardware,** and other **Industrial Market** segments.

ATLAS INDUSTRIAL™ is built on **DMA Industries, LLC's** core value of providing the **Best Service** to our customers. **ATLAS INDUSTRIAL™** prides itself on a **5-Day RFQ Turnaround**. Our mission is to **Meet or Exceed** all Customer Expectations, with a dedication to **Quality, Service, and Delivery**.

Contact us today!

See how DMA Industries, LLC can provide the Lift Support you need!



GAS SPRINGS

A Gas Spring (*also known as Gas Struts, Gas Props, Lift Supports, etc*) acts as a lift that is charged with Nitrogen Gas to achieve the force required for the application. The Gas Spring stores energy by compressing the Nitrogen within the Gas Spring.

Gas Springs react similar to a Coil Spring, it will either move or resist movement in the application. Variations in Gas Spring Dampening rates are achieved by orifice size changes and adjustments to oil volume depending on the desired application. All Gas Springs will typically see a 1-2% loss of Force per year due to the Gas permeating through the seal material.

Temperature can also affect the performance of a Gas Spring, as higher temps will see an increase in Force while colder temps will see a decrease in Force.

ATLAS INDUSTRIAL™ offers various types of Gas Springs:

STANDARD GAS SPRINGS

This type of Gas Spring is meant to automatically extend and will hold an object in place. They are the most commonly used and often referred to as a **COMPRESSION GAS SPRING**. This type of Gas Spring is manufactured with an Industry Standard Lip Seal Design. Gas Springs are meant to be mounted shaft down so the seal will stay lubricated, extending the life of the part.

- ✓ **ATLAS INDUSTRIAL™** offers a Standard Line of Gas Springs that is comparable to other Gas Spring suppliers (*see table for information*).
- ✓ **ATLAS INDUSTRIAL™** also offers Gas Springs that are custom designed to meet the customer's requirements for their application.
- ✓ Gas Springs are usually Extension Damped **ONLY**, but can be manufactured as Compression Damped **ONLY** or as Dual Damped (*both directions*).
Contact us for any special requirements
- ✓ **ATLAS INDUSTRIAL™** Gas Springs are manufactured in various size combinations depending on the force requirements and extended length / stroke requirements.



SHAFT DIAMETER x BODY DIAMETER SIZES OFFERED

- 4 x 12 up to 178N [40#]; 6x15 up to 445N [100#]
8 x 18 up to 550N [125#]; 8x19 up to 667N [150#]
10 x 22 up to 1110N [250#]; or 14x28 up to 2500N [562#]
- Shaft: Black Nitride (*Chrome available upon request*)
- Body Finish: Black Paint, also available in white and other colors upon request.
- Available Force Range: 20N [4.5#] – 2500N [562#]
- Available Extended Length Range: 80mm [3.14"] – 1200mm [47.2"]

✓ Gas Springs can be purchased with various connector options:

- Plastic 10mm Ball Socket Connectors.
- Angled Plastic 10mm Ball Socket Connectors.
- Several Steel 10mm Ball Socket or 13mm Ball Socket Connector options.
- Zinc or Steel Blade (*threaded*) thru-hole style connectors; Steel Weld Blades.
- Clevis Style.
- Heim Joint Ball Swivel Style.
- Numerous other connector options upon request.
- **NO** connectors. In this case, the part would have either M6x1.0, M8x1.25 or M10x1.5 threads on both ends.

✓ We offer stick-on labels or printed on part with customer required information.

✓ Parts are shipped in plastic bags located within expendable packaging.

✓ Operating temps: -30°C to 80°C

✓ Parts will meet Standard Validation Testing as follows:

- 500 Cycles @ -30°C
- 14,000 Cycles @ 20°C
- 500 Cycles @ 80°C



STAINLESS STEEL GAS SPRINGS

- Stainless Steel Standard Gas Springs are most commonly used in Medical, Marine or Food Industry applications where high corrosion resistance or cleanliness is required.



TRACTION GAS SPRINGS

- A Gas Spring that reacts opposite of a Standard Gas Spring, this part will retract itself. These are mostly used in Garage Door applications, Machinery, etc.



ADJUSTABLE GAS SPRINGS

- Gas Springs that are charged to a certain Force. Part has a release valve to reduce the Force until desired Force is achieved. This type part is great for dialing in Forces for applications but cannot be recharged once the Force is reduced.



LOCKING GAS SPRING WITH SHROUDS

- This type of Gas Spring is a Standard Gas Spring that uses an outer Shroud to lock in place once fully extended. The Shroud is spring loaded and sits at angle. This allows the part to be easily maneuvered into the locked position. The part can be released simply by compressing the plastic cap on the Shroud.
- This type of Gas Springs is typically used on Toolbox Lids, Battery Compartment Covers, etc.



**If you have an application that requires a Gas Spring that is not listed above, please contact us for availability.*

BLOCKLIFTS / LOCKING GAS SPRINGS

- This type of Gas Spring can be locked at any position during it's operation. This can be achieved by depressing the Lock Pin inside of the Shaft that actuates a valve inside of the Gas Spring.



ATLAS INDUSTRIAL™ offers the following types of Blocklift/Locking Gas Springs:

FLEXIBLE

- Allows some movement of the Shaft when a load is applied in either direction. When the load is removed, the Shaft will return to the original position that it was locked in. This type part is meant to be mounted vertically, but can be designed to be mounted horizontal.

RIGID IN EXTENSION

- This type is designed to be Rigid in Locked Position when force is applied in Extension. The part can have some movement in Compression depending on Load applied.

RIGID IN COMPRESSION

- This type is designed to be Rigid in Locked Position when force is applied in Compression. The parts can have some movement in Extension depending on Load applied. When Load is removed the Shaft will return to the Locked Position. This type of Gas Spring can be mounted vertically or horizontally.

(BlockLifts are commonly used in Hospital Beds, Medical Monitor Applications, Chairs, Tilt Steering Applications, Seat Applications, as well as many other applications.)



**If you have an application that requires a Gas Spring that is not listed above, please contact us for availability.*

DAMPERS

Dampers are different from Gas Springs because they are not charged with Nitrogen Gas and meant to lift or hold in place. A Damper is often referred to as a **"Speed Limiter"**, meaning that during a drop or movement, it will limit the speed of the object. The force of a Damper is created by Oil flowing through an Orifice within the part and by the velocity of the part. The force can also be increased simply with an Orifice size change or by increasing the Shaft / Body Diameter.

The key things to know when designing or choosing a Damper for the application is to know the Force required and at what velocity is required. Temperature can affect the performance of a Damper, as higher temps will see a reduction in Force while colder temps will see an increase in Force. This is due to the change in viscosity of the Oil with the temperature changes.

ATLAS INDUSTRIAL™ offers various types of Dampers:

CAVITATING DAMPERS

- A Damper that is filled with Oil and Air. The Shaft compresses the air an equal volume to allow movement. This type of Damper works best vertically with Shaft down. If mounted horizontally, this will result in Cavitation which in turn creates non-uniform Dampening. This type of Damper can be Dampened in Extension **ONLY**, Compression **ONLY** or Dampened in Both Directions. The force can be less in either direction as required by the application.



NON-CAVITATING DAMPERS

- A Damper that prevents the Oil and Air from mixing, allowing a smooth operation. This is accomplished in various ways either by using Air Bags, Foam or Floating Pistons. This type of Damper can be mounted Horizontally or Vertically and achieve the same performance. This type of Damper can be Dampened in Extension **ONLY**, Compression **ONLY** or Dampened in Both Directions. The force can be less in either direction as required by the application.



- ✓ **ATLAS INDUSTRIAL™** offers a Standard Line of Dampers that is comparable to other Damper Suppliers. A Standard Line of Dampers with the Ball Studs inserted is also offered.
- ✓ **ATLAS INDUSTRIAL™** offers Custom Dampers designed to meet the Application Requirements if a Standard will not work.
- ✓ **All** Dampers use Lip Seals.
- ✓ Dust Caps are Available for all Damper sizes.
- ✓ We offer Stainless Steel Dampers for Medical, Marine and Food Applications where corrosion resistance and cleanliness are vital.
- ✓ **ATLAS INDUSTRIAL™** Dampers are offered in Various Size combinations depending on the Force and Extended Length / Stroke requirements.

SHAFT DIAMETER x BODY DIAMETER SIZES OFFERED

- 6 x 15, 8 x 18, 8 x 22 or 8 x 24
 - Shaft: Black Nitride (*Chrome available upon request*)
 - Dampers are available in Black, White and other colors, contact us for more information.
- ✓ **Dampers can be purchased with various connector options:**
- Plastic 10mm Connectors
 - Several Steel Connector Options with 10mm Ball Socket Connectors
 - Zinc or Steel Blade Thru-Hole Style Connectors
 - Steel or Plastic Captive Ball Style
 - Numerous other Connector Options upon Request
 - NO Connector. In this case, the part would have M6x1.0 or M8x1.25 Threads on Both Ends.
- ✓ **We offer stick-on labels or printed on part with customer required information.**
- ✓ **Parts are shipped in plastic bags located within expendable packaging.**
- ✓ **Operating temps: -30°C to 80°C**

**If you have an application that requires a Damper that is not listed above, please contact us for availability.*



SHOCKS

DMA Industries, LLC has been a Shock & Suspension Manufacturer since 1985. Our specialized, Fully integrated factories currently manufacture Shocks for Industrial, Heavy Duty, Automotive and Racing Shocks, as well as Coil Springs and Steering Dampers. We currently have approx. 1.5M Square ft of manufacturing space that can produce 10,000 pcs/day. Our US based operations has approx. 1.5M Square ft for Warehousing, Supply Chain, Product Development and Quality Control. Our manufacturing facilities are monitored through annual Intertek Audits and are IATF 16949 Certified.

ATLAS INDUSTRIAL™ offers various types of Shocks:

- **Shock Absorbers**

- *Twin Tube & Monotube Designs*



- **Coil Over Shocks**



- **Custom Design Shocks for Racing, RV's, etc.**

- *Adjustable Dampening Shocks*



- **HD Shock Absorbers**

- *Best in Class Commercial Vehicle Shocks that are Engineered for Extended Product Life & Reduced Downtime*



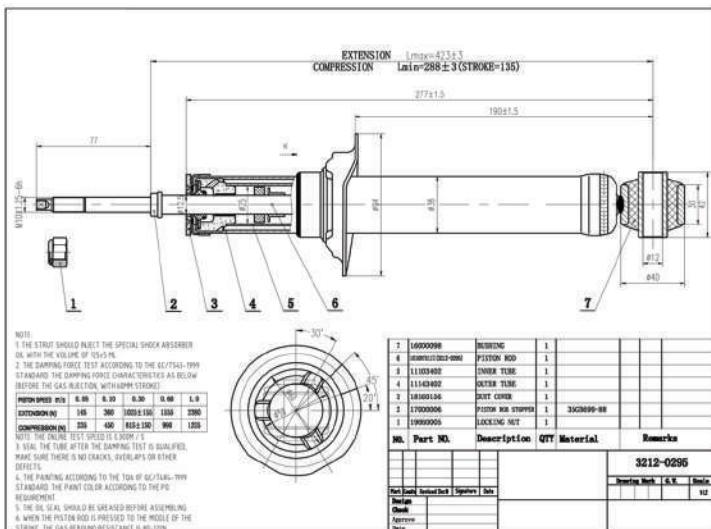
- **Mining & Industrial Shock Absorbers**

- *Manufactured with a Poly Bushing Option for Enhanced Durability*



ATLAS INDUSTRIAL™ Advantages:

- ✓ Full CAD Drawings & Data Per Customer Requirements
- ✓ Complete In-House Lab & Testing Facility
- ✓ Superior Compression & Rebound Valving Systems for Customized Dampening Capability
- ✓ In-House Bushing Manufacturing using a Proprietary Rubber Formulation that makes our Bushings Superior to the Competition
- ✓ Heavy Duty Robotic Welding with the Highest Breakpoint Rating in the Industry
- ✓ Custom Paint Color Capabilities
- ✓ Custom Packaging & Labeling Capabilities
- ✓ Full EDI Capabilities



CONNECTORS / HARDWARE

CONNECTOR / HARDWARE OPTIONS

- ✓ **ATLAS INDUSTRIAL™** offers "Standard" Connector Options for our Standard Line of Gas Springs and Dampers.
- ✓ **We also offer Numerous other Connector options:**
 - Clevis Style Connectors
 - Heim Joint Ball Swivel Style
 - Angled Plastic 10mm Ball Socket Connectors
 - Steel or Plastic Captive Ball Style
 - Weld Blades
 - Many other options



HARDWARE OPTIONS

- ✓ **ATLAS INDUSTRIAL™** offers offers the following Standard Ball Stud Options:
 - 10mm Ball with M8x1.25-6g Thread
 - 10mm Ball with 5/16-18 Thread
 - 13mm Ball with Various Thread Options



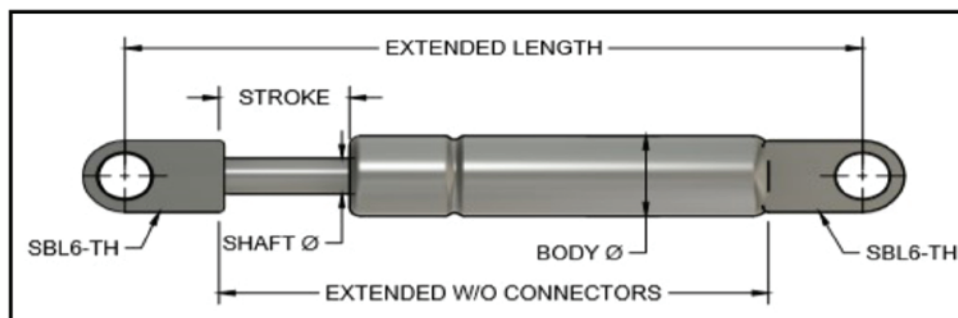
**Please contact us for any Connector / Hardware options not mentioned above or shown in Table.*

STANDARD GAS SPRINGS

ALL PARTS HAVE LIP SEALS & BLACK NITRIDE SHAFT (CHROME AVAILABLE UPON REQUEST)											
			PS PLASTIC 10mm BS M6 or M8 THD	PC PLASTIC 10mm BS M6 THD	SB or ZB STEEL or ZINC THRU HOLE M6 or M8 THD	SC STEEL 10mm BS M6 or M8 THD	ST STEEL 10mm BS M6 or M8 THD	ST8 STEEL 13mm BS M8 THD	TH6 M6 THD ONLY	TH8 M8 THD ONLY	P1 VALUE RANGE
ATLAS INDUSTRIAL P/N	ØSHAFT X ØBODY (mm)	STROKE (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	P1, Lbs
AG15-200	6 x 15	2.00	7.50	7.50	7.50	7.50	7.74	N/A	6.08	N/A	10 - 100
AG15-300	6 x 15	3.00	10.00	10.00	10.00	10.00	10.24	N/A	8.58	N/A	10 - 100
AG15-315	6 x 15	3.15	9.60	9.60	9.60	9.60	9.84	N/A	8.18	N/A	10 - 100
AG15-350	6 x 15	3.50	12.00	12.00	12.00	12.00	12.24	N/A	10.58	N/A	10 - 100
AG15-400	6 x 15	4.00	11.00	11.00	11.00	11.00	11.24	N/A	9.58	N/A	10 - 100
AG15-500	6 x 15	5.00	14.50	14.50	14.50	14.50	14.74	N/A	13.08	N/A	10 - 100
AG15-550	6 x 15	5.50	15.00	15.00	15.00	15.00	15.24	N/A	13.58	N/A	10 - 100
AG15-618	6 x 15	6.18	17.19	17.19	17.19	17.19	17.43	N/A	15.77	N/A	10 - 100
AG15-675	6 x 15	6.75	17.00	17.00	17.00	17.00	17.24	N/A	15.58	N/A	10 - 100
AG15-725	6 x 15	7.25	18.50	18.50	18.50	18.50	18.74	N/A	17.08	N/A	10 - 100
AG15-775	6 x 15	7.75	19.19	19.19	19.19	19.19	19.43	N/A	17.77	N/A	10 - 100
AG15-800	6 x 15	8.00	19.68	19.68	19.68	19.68	19.92	N/A	18.26	N/A	10 - 100
AG15-812	6 x 15	8.12	20.00	20.00	20.00	20.00	20.24	N/A	18.58	N/A	10 - 100
AG18-200	8 x 18 or 8 x 19	2.00	7.10	7.10	7.10	7.10	7.34	8.04	5.68	N/A	15 - 150
AG18-280	8 x 18 or 8 x 19	2.80	9.00	9.00	9.00	9.00	9.60	9.94	7.58	N/A	15 - 150
AG18-325	8 x 18 or 8 x 19	3.25	9.60	9.60	9.60	9.60	11.00	10.54	8.18	N/A	15 - 150
AG18-350	8 x 18 or 8 x 19	3.50	11.90	11.90	11.90	11.90	11.90	12.84	10.48	N/A	15 - 150
AG18-400	8 x 18 or 8 x 19	4.00	12.21	12.21	12.21	12.21	12.37	13.15	10.79	N/A	15 - 150
AG18-500	8 x 18 or 8 x 19	5.00	15.25	15.25	15.25	15.25	15.25	16.19	13.83	N/A	15 - 150
AG18-525	8 x 18 or 8 x 19	5.25	14.50	14.50	14.50	14.50	14.74	15.44	13.08	N/A	15 - 150
AG18-550	8 x 18 or 8 x 19	5.50	15.27	15.27	15.27	15.27	15.27	16.21	13.85	N/A	15 - 150
AG18-575	8 x 18 or 8 x 19	5.75	16.00	16.00	16.00	16.00	16.00	16.94	14.58	N/A	15 - 150
AG18-600	8 x 18 or 8 x 19	6.00	17.00	17.00	17.00	17.00	17.00	17.94	15.58	N/A	15 - 150
AG18-630	8 x 18 or 8 x 19	6.30	17.13	17.13	17.13	17.13	17.13	18.07	15.71	N/A	15 - 150
AG18-650	8 x 18 or 8 x 19	6.50	21.22	21.22	21.22	21.22	21.22	22.16	19.80	N/A	15 - 150
AG18-700	8 x 18 or 8 x 19	7.00	19.63	19.63	19.63	19.63	19.63	20.57	18.21	N/A	15 - 150
AG18-725	8 x 18 or 8 x 19	7.25	18.50	18.50	18.50	18.50	18.50	19.44	17.08	N/A	15 - 150
AG18-800	8 x 18 or 8 x 19	8.00	20.00	20.00	20.00	20.00	20.00	20.94	18.58	N/A	15 - 150
AG18-825	8 x 18 or 8 x 19	8.25	21.50	21.50	21.50	21.50	21.50	22.44	20.08	N/A	15 - 150
AG18-850	8 x 18 or 8 x 19	8.50	23.03	23.03	23.03	23.03	23.03	23.97	21.61	N/A	15 - 150
AG18-1000	8 x 18 or 8 x 19	10.00	24.40	24.40	24.40	24.40	25.00	25.34	22.98	N/A	15 - 150
AG18-1050	8 x 18 or 8 x 19	10.50	26.32	26.32	26.32	26.32	26.32	27.26	24.90	N/A	15 - 150
AG22-575	10 x 22	5.75	19.00	19.00	19.00	19.00	19.00	19.00	17.58	16.64	50 - 250
AG22-650	10 x 22	6.50	21.22	21.22	21.22	21.22	21.22	21.22	19.80	18.86	50 - 250
AG22-775	10 x 22	7.75	20.16	20.16	20.16	20.16	20.16	20.16	18.74	18.14	50 - 250
AG22-850	10 x 22	8.50	23.03	23.03	23.03	23.03	23.03	23.03	21.61	20.67	50 - 250
AG22-1000	10 x 22	10.00	27.80	27.80	27.80	27.80	27.80	27.80	26.38	25.44	50 - 250
AG22-1024	10 x 22	10.24	25.75	25.75	25.75	25.75	25.75	25.75	24.33	23.96	50 - 250
AG22-1050	10 x 22	10.50	26.32	26.32	26.32	26.32	26.32	26.32	24.90	24.64	50 - 250
AG22-1150	10 x 22	11.50	28.00	28.00	28.00	28.00	28.00	28.00	26.58	26.14	50 - 250
AG22-1200	10 x 22	12.00	29.50	29.50	29.50	29.50	29.50	29.50	28.08	27.14	50 - 250
AGS2-1500	10 x 22	15.00	35.30	35.30	35.30	35.30	35.30	35.30	33.88	33.14	50 - 250

PART NUMBERING EXAMPLE: AG18-500-100SB

AG	STANDARD GAS SPRING W/ LIP SEAL & NITRIDE SHAFT
18	8 x 18 or 8 x 19 GAS SPRING DESIGN
500	STROKE OF PART = 5.00 INCHES
100	P1 OUTPUT FORCE OF PART = 100 LBS
SB	CONNECTOR TYPE = STEEL BLADE W/ THRU-HOLE

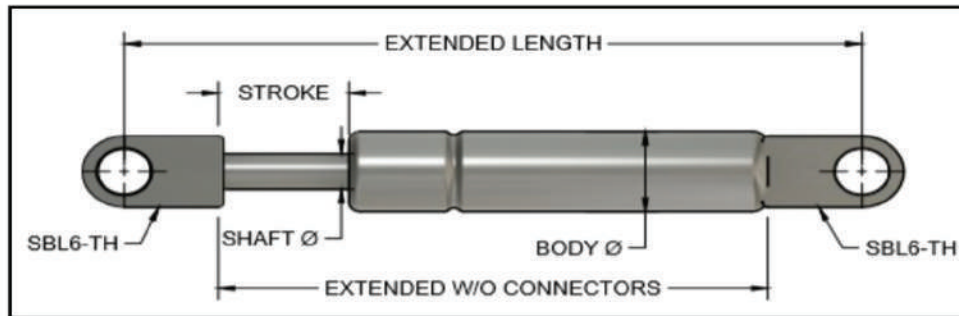


STANDARD DAMPERS

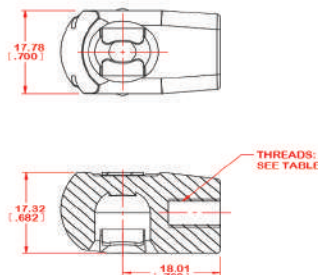
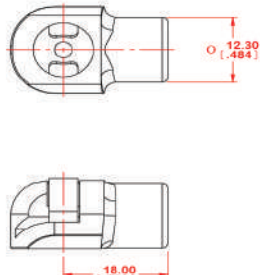
ALL PARTS HAVE LIP SEALS & BLACK NITRIDE SHAFT (CHROME AVAILABLE UPON REQUEST)									DAMPENING VALUE
			<i>PS</i> PLASTIC 10mm BS M6 THD	<i>PC</i> PLASTIC 10mm BS M6 THD	<i>SB or ZB</i> STEEL or ZINC THRU HOLE M6 THD	<i>SC</i> STEEL 10mm BS M6 THD	<i>ST</i> STEEL 10mm BS M6 THD	<i>TH6</i> M6 THD <i>ONLY</i>	RATE
ATLAS INDUSTRIAL P/N	ØSHAFT X ØBODY (mm)	STROKE (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	EXTENDED LENGTH (In)	LIGHT MEDIUM HEAVY
AD15x-200x	6 x 15	2.00	7.89	7.89	7.89	7.89	7.89	6.47	L, M or H
AD15x-300x	6 x 15	3.00	10.02	10.02	10.02	10.02	10.02	8.60	L, M or H
AD15x-400x	6 x 15	4.00	12.50	12.50	12.50	12.50	12.50	11.08	L, M or H
AD15x-500x	6 x 15	5.00	15.02	15.02	15.02	15.02	15.02	13.60	L, M or H
AD18x-200x	8 x 18	2.00	7.89	7.89	7.89	7.89	7.89	6.47	L, M or H
AD18x-300x	8 x 18	3.00	10.02	10.02	10.02	10.02	10.02	8.60	L, M or H
AD18x-400x	8 x 18	4.00	12.50	12.50	12.50	12.50	12.50	11.08	L, M or H
AD18x-500x	8 x 18	5.00	15.02	15.02	15.02	15.02	15.02	13.60	L, M or H
AD22x-400x	8 x 22	4.00	12.24	12.24	12.24	12.24	12.24	10.83	L, M or H
AD22x-500x	8 x 22	5.00	14.49	14.49	14.49	14.49	14.49	13.07	L, M or H
AD22x-600x	8 x 22	6.00	17.01	17.01	17.01	17.01	17.01	15.59	L, M or H
AD22x-700x	8 x 22	7.00	19.65	19.65	19.65	19.65	19.65	18.23	L, M or H

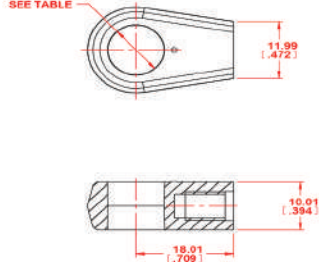
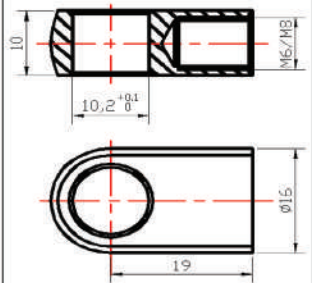
PART NUMBERING EXAMPLE: AD15E-200M-SB

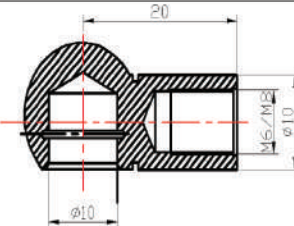
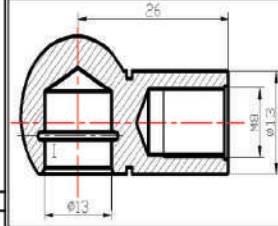
AD	STANDARD DAMPER
15	6x15 DESIGN
E	EXTENSION DAMPED ONLY
200	2.00" STROKE
M	MEDIUM DAMPED
SB	STEEL BLADE CONNECTOR

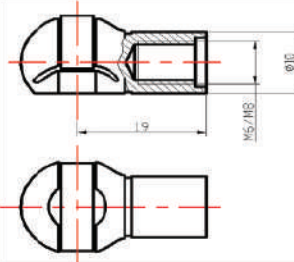
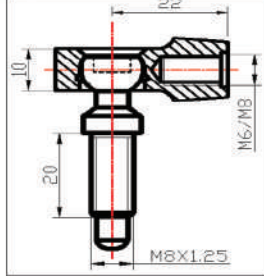


STANDARD CONNECTORS

PC6 or PC8			PC6				
	PLASTIC 10mm BALL SOCKET CONNECTOR			PLASTIC 10mm BALL SOCKET CONNECTOR			
	ATLAS IND P/N	THREADS		BALL SOCKET	ATLAS IND P/N	THREADS	BALL SOCKET
PS6	M6	10mm PLASTIC	PC6	M6	10mm PLASTIC		
PS8	M8	10mm PLASTIC					

ZB			SB6 or SB8				
	ZINC BLADE "THRU-HOLE" CONNECTOR			STEEL BLADE "THRU-HOLE" CONNECTOR			
	ATLAS IND P/N	THREADS		HOLE SIZE	ATLAS IND P/N	THREADS	HOLE SIZE
ZB	M6	VARIOUS	SB6 or SB8	M6	VARIOUS		
			SB8	M8	VARIOUS		

ST6 or ST8			STL8-13				
	SECURITY RING REQUIRED STEEL 10mm BALL SOCKET CONNECTOR			***SECURITY RING REQUIRED*** STEEL 13mm BALL SOCKET CONNECTOR			
	ATLAS IND P/N	THREADS		BALL SOCKET	SECURITY RING P/N	ATLAS IND P/N	THREADS
ST6	M6	10mm STEEL	YES	ST8-13	M8	13mm STEEL	YES
ST8	M8	10mm STEEL	YES				

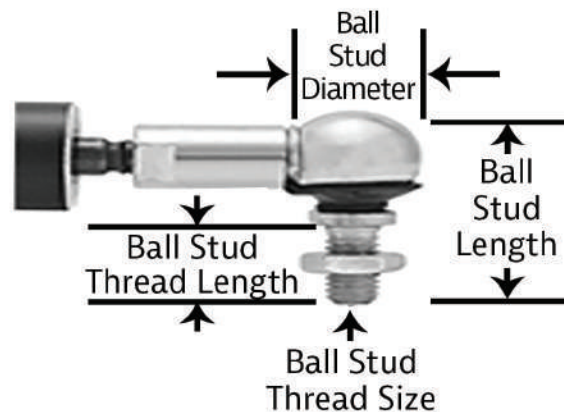
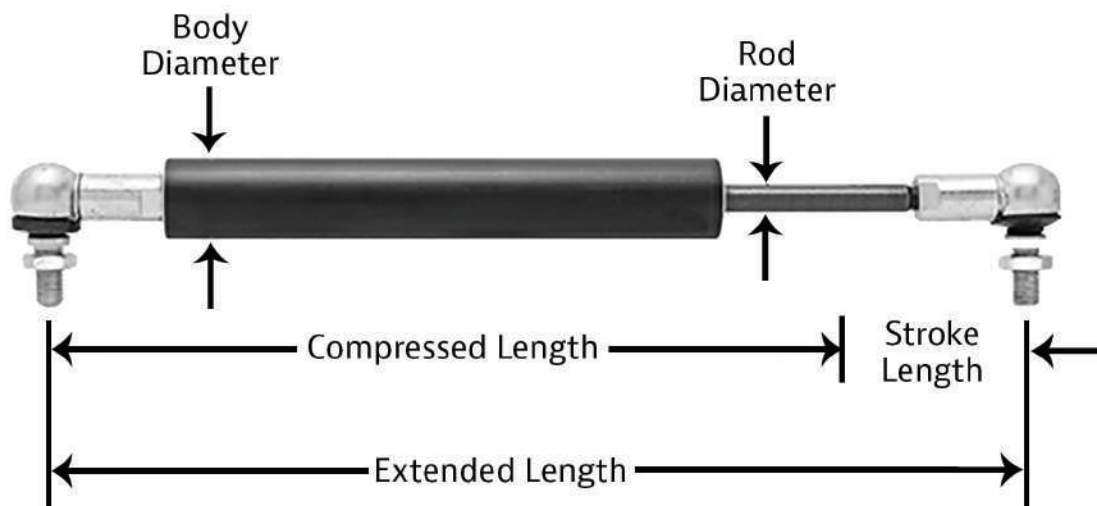
SC6 or SC8			SCB6 or SCB8				
	STEEL 10mm BALL SOCKET CONNECTOR			STEEL CAPTIVE BALL CONNECTOR			
	ATLAS IND P/N	THREADS		BALL SOCKET	RETAINING CLIP	ATLAS IND P/N	THREADS
SC6	M6	10mm PLASTIC	STEEL	SCB6 or SCB8	M6, M8	M8	
SC8	M8	10mm PLASTIC	STEEL				



STANDARD DAMPER WITH BALL STUDS

CROSS REFERENCE

ATLAS IND P/N	PART Ø	EXTENDED LENGTH (IN)	STROKE (IN)	EXTENSION / COMPRESSION	DAMPENING RATE	CONNECTORS (BOTH ENDS)	BALL STUD BALL SIZE w/ THREAD x THD LENGTH
MD15E-200	6 x 15	7.89	2.00	EXTENSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15E-300	6 x 15	10.02	3.00	EXTENSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15E-400	6 x 15	12.50	4.00	EXTENSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15E-500	6 x 15	15.02	5.00	EXTENSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15C-200	6 x 15	7.89	2.00	COMPRESSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15C-300	6 x 15	10.02	3.00	COMPRESSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15C-400	6 x 15	12.50	4.00	COMPRESSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD15C-500	6 x 15	15.02	5.00	COMPRESSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22E-400	8 x 22	12.24	4.00	EXTENSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22E-500	8 x 22	14.49	5.00	EXTENSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22E-600	8 x 22	17.01	6.00	EXTENSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22E-700	8 x 22	19.65	7.00	EXTENSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22C-400	8 x 22	12.24	4.00	COMPRESSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22C-500	8 x 22	14.49	5.00	COMPRESSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22C-600	8 x 22	17.01	6.00	COMPRESSION	MEDIUM	STC6	10mm BS w/ 5/16-18 x .55 THD
MD22C-700	8 x 22	19.65	7.00	COMPRESSION	MED HEAVY	STC6	10mm BS w/ 5/16-18 x .55 THD





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