



ITAR REGISTERED and COMPLIANT  
Cage Code 7BQS7

## Technical Data Sheet KYNTTEC Corporation Rate Controls

### Applications:

- Doors/Hatch Control
- Robotic Motion Control
- Amusement Park Ride Sway Dampers
- Steering Fin Deployment
- Any Application Requiring Force/Rate Control

### Product Overview:

The KYNTEC Corporation Rate Control Series provides enhanced speed or force control over a wide range of application inputs and environmental conditions. Self-contained fully adjustable with no knobs to stick out like other products on the market and come with standard thermal compensation.

### Design Features:

- Custom Designs Available for Any Application
- Application Specific Damping Coefficients and Self-Contained Internal Spring for Actuation
- Wide Range of Operating and Storage Temperatures with Thermal Compensation
- Self-Contained Damping, Velocity and Force Control Valves Unlike Other Products on the Market
- Custom Materials, Coatings, Fluids, Seals or Interfacing
- Optional Protective Rubber Bellows, Rod Ends or Application Specific Interfacing.
- Optional Integral Elastomeric Clevises Available for enhanced Vibration Isolation Performance
- Smaller and Larger Models Available



#### **Aircraft Interior**

*KYNTTEC dampers/rate controls perform many functions on board the world's commercial aircraft fleets. Our devices recline passenger seats, actuate stowage bins, engine cowlings and crew seats. When leaders in the aircraft industry need custom solutions they call KYNTEC.*



#### **Defense**

*KYNTTEC's world class patented Engineering Division has been involved in Defense projects ranging from protecting onboard ship systems to ensure safe delivery of high explosive armaments. Our focus on high quality stainless steel construction performs better on the world's oceans in the highly corrosive salt spray environments. KYNTTEC's attention to detail provides the protection our armed forces personnel require for their weapon and detection systems.*



#### **Oil & Gas**

*Upstream Oil and Gas professionals face the same extreme environment challenges as our military personnel. KYNTTEC's rate controls work on oil rigs in the frozen North Sea to the Gulf of Mexico. Our passive and inert systems are especially well suited for the hazardous nature of work on ocean oil platforms.*



#### **Crane and Material Handling**

*The movement of shipping containers at America's busy sea ports requires several components produced by KYNTTEC Corporation. The amount of kinetic energy involved at altitude makes this application mission critical to our nation's supply chain. KYNTTEC supplies fully stainless steel devices to manage the sway involved with swinging loads and ragged heavy duty shock absorbers to decelerate major masses in motion.*



#### **Amusement Park Rides**

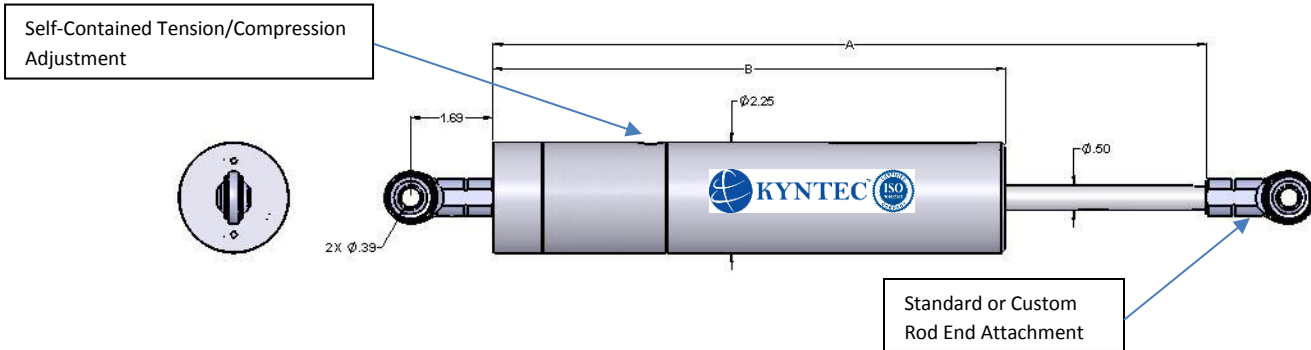
*KYNTTEC's dampers/rate controls provide engineered solutions for theme park ride manufacturers with equal attention to detail. The safe and enjoyable operation of rides is top priority for KYNTTEC.*

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**KYNTTEC Corporation is the Shock/Vibration Isolation and Recoil Mitigation Industry Leader, Innovator and Pioneer**



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Model	DAMPING DIRECTION	BORE SIZE in. (mm)	STROKE in. (mm)	MAX PROPELLING FORCE		MAX in-lbs/hour (Nm/hr)	A in. (mm)	B in. (mm)
				TENSION lbs. (N)	COMPRESSION lbs. (N)			
105	T, C or T and C	1.00 (25,4)	2.00 (50,0)	2,500 (11 000)	2,500 (11 000)	1,100,000 (129 000)	10.75 (273)	8.50 (216)
110	T, C or T and C	1.00 (25,4)	4.00 (100,0)	2,500 (11 000)	2,500 (11 000)	1,400,000 (168 000)	14.75 (375)	10.50 (267)
115	T, C or T and C	1.00 (25,4)	6.00 (150,0)	2,500 (11 000)	2,500 (11 000)	1,800,000 (206 000)	18.75 (476)	12.50 (318)
120	T, C or T and C	1.00 (25,4)	8.00 (200,0)	2,500 (11 000)	2,500 (11 000)	2,100,000 (247 000)	22.70 (577)	14.50 (368)
125	T, C or T and C	1.00 (25,4)	10.00 (250,0)	2,500 (11 000)	2,500 (11 000)	2,500,000 (286 000)	26.70 (678)	16.50 (419)
130	T, C or T and C	1.00 (25,4)	12.00 (300,0)	2,500 (11 000)	2,500 (11 000)	2,800,000 (326 000)	30.75 (781)	18.50 (470)
135	T, C or T and C	1.00 (25,4)	14.00 (350,0)	2,500 (11 000)	2,500 (11 000)	3,200,000 (366 000)	34.75 (883)	20.50 (521)
140	T, C or T and C	1.00 (25,4)	16.00 (400,0)	2,500 (11 000)	2,500 (11 000)	3,500,000 (405 000)	38.70 (983)	22.50 (572)
145	T, C or T and C	1.00 (25,4)	18.00 (450,0)	2,500 (11 000)	2,000 (8 800)	3,900,000 (444 000)	42.70 (1 085)	24.50 (622)
150	T, C or T and C	1.00 (25,4)	20.00 (500,0)	2,500 (11 000)	1,700 (7 500)	4,200,000 (484 000)	46.70 (1 186)	26.50 (673)
155	T, C or T and C	1.00 (25,4)	22.00 (550,0)	2,500 (11 000)	1,400 (6 200)	4,600,000 (524 000)	50.75 (1 289)	28.50 (724)
160	T, C or T and C	1.00 (25,4)	24.00 (600,0)	2,500 (11 000)	1,200 (5 300)	4,900,000 (563 000)	54.75 (1 391)	30.50 (775)
165	T, C or T and C	1.00 (25,4)	26.00 (650,0)	2,500 (11 000)	1,000 (4 500)	5,300,000 (603 000)	58.75 (1 492)	32.50 (826)
170	T, C or T and C	1.00 (25,4)	28.00 (700,0)	2,500 (11 000)	900 (4 000)	5,600,000 (642 000)	62.70 (1 593)	34.50 (876)
175	T, C or T and C	1.00 (25,4)	30.00 (750,0)	2,500 (11 000)	800 (3 500)	6,000,000 (681 000)	66.70 (1 694)	36.50 (927)
180	T, C or T and C	1.00 (25,4)	32.00 (800,0)	2,500 (11 000)	700 (3 100)	6,300,000 (721 000)	70.75 (1 797)	38.50 (978)

KYNTEC Corporation can custom orifice our products to match the dynamics of any competitive product or application.  
Additional Standard or Custom Models Available  
Subject to Change, Please Consult Factory for Additional Information

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