

fig. 1 - **Correct**

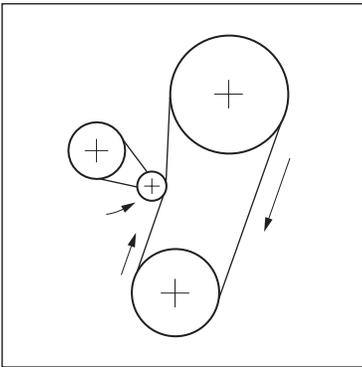


fig. 2 - **Incorrect**

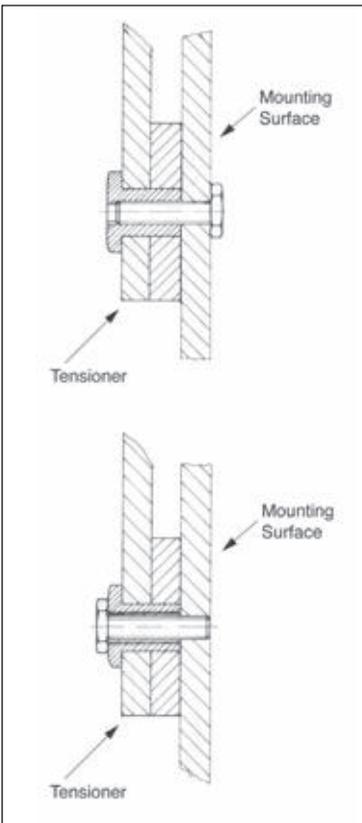


fig. 3 - **Mounting Surface Illustration**

Quality Transmission Components is the exclusive distributor of Zetasassi Belt and Chain Tensioners in the US, Canada and Mexico. These well-made tensioners will improve the operation of belt and chain drives by many hours by keeping the tension constant. This occurs because the tensioners create:

- 1) Automatic reduction in the belt or chain slack.
- 2) Reduction of noise and vibration.
- 3) Uniform and more efficient transmission of drive torque.
- 4) Decrease in sprocket, pulley, belt or chain wear.
- 5) Increased life of belts and chains.
- 6) Possibility to adjust the tension of the drive.

These units are easy to install and maintenance-free. The spring-loaded units, available in rotational and linear movement types, will automatically keep the tension constant, eliminating frequent manual adjustments which would interrupt the operation of the machinery.

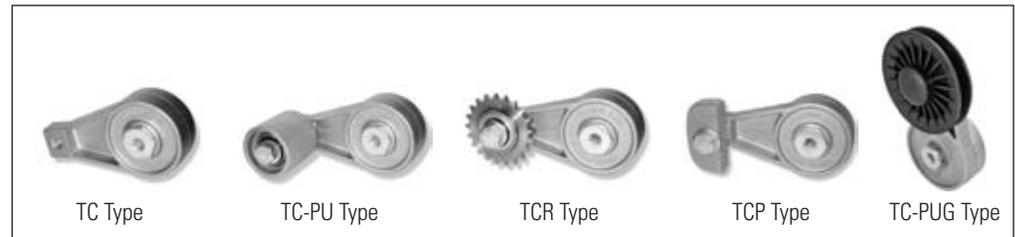
All tensioners should be installed on the slack side of belts and chains. For rotational movement units, please make sure to install the units, as shown in *fig. 1*.

It is also recommended, for both rotational and linear tensioners, that the tension force be applied from the outside of the belt or chain loop as to not reduce the wrap-around angles of the belt or chain over the pulleys or sprockets.

As shown in the pictorial index on page 6, several designs of tensioners are offered as arm only, arm with roller attached for belts, arm with sprocket attached for chains, arm with polyethylene sliding head for chains, or arm with V-belt pulley attached.

Further variations are offered, as well as replacement heads, as shown in the pictorial index on page 7.

Most chain tensioners are also offered with ASA or ISO single, double and triple chain heads. Availability of heads other than for single chain is given on each product page.



Type TC, TC-PU, TCR, TCP and TC-PUG (pages 3-5 thru 3-9)

- Levers in high-tensile light alloy (except the smallest size which is plastic).
- Idler rollers in zinc plated steel, aluminum or nylon.
- V-belt pulleys in nylon.
- Sprockets in steel or hardened steel.
- Pulleys, sprockets and rollers have double-seal permanently oiled ball bearings.
- Sliding head's orientation is adjustable, and it is made of low friction, wear-resistant polyethylene (dynamic friction coefficient of 0.06 on dry steel) with maximum operating temperature of 65°C (149°F).

These tensioners take up the chain or belt slack, and keep the tension constant without the operator making any adjustments over a range of approximately 45° (30° for the largest size).

- Can operate at temperatures above 100°C (212°F) (except TCP series).
- Uses special steel springs with an extreme high yield point and prestress, so as to maintain the pressure as constant as possible throughout the range.
- Can be assembled either from inside or outside of the machine (see *fig. 3*).



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Type RH, RH-PU, RHR RHP and RH-PUG (pages 3-10 thru 3-14)

- Levers in high-tensile light alloy.
- Idler rollers in zinc plated steel, aluminum or nylon.
- V-belt pulleys in nylon.
- Sprockets in steel or hardened steel.
- Pulleys, sprockets and idler rollers have double-seal permanently oiled ball bearings.
- Sliding head's orientation is adjustable, and it is made of low-friction, wear-resistant polyethylene (dynamic friction coefficient of 0.06 on dry steel) with maximum operating temperature of 65°C (149°F).

These lightweight tensioners take up the chain or belt slack, and keep the tension constant without the operator making any adjustments over a range of approximately 30° of motion.

In a typical application, the following benefits were achieved*:

- 23% increase of chain life.
- 7% reduction of vibration.
- 12% reduction of noise.
- Reduction in chain slackening.
- Elimination of the need for maintenance.

* The actual values will vary depending on the operating environment, type of lubricant, the conditions of the machine and the performance capabilities of the drive.



The ET, ET-PU, ETR and ET-PUG consist of die-cast alloy bases and mounting heads on which rollers or sprockets are attached via spring-loaded steel sliding arms. These units are also available with an integral "End-of-stroke" sensing switch which is not retrofittable and must be ordered at the time of initial purchase. (The availability is detailed on each product page).

The ET series are especially suitable for high-temperature operations over 100°C (212°F), since they are 100% metal.



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The Orient1 series tensioners are not spring-loaded. They have the feature of being able to swivel in any direction, both before and after installation. The teeth built into the two mating parts allow the arm to be positioned every 15° throughout the entire 360° revolution relative to the base. At each of these 15° positions, two of the eight holes in the arm align with the threaded holes in the base, so that the screws supplied with the unit can fasten the arm at the desired position. While these units lack the convenience of automatic tension adjustment, their simplicity and versatility in orienting and positioning offer an advantage in certain applications. Pages **3-19** thru **3-23**.



The TO-05 consists of a plastic base and sliding head, spring-loaded for chain drives only. It is also available with metal components such as AISI 304 stainless steel, for use in the food industry.

The TO and TOT consist of die-cast alloy bases and polyethylene heads, spring-loaded for chain drives only. See each product page for head shape availability.

The NT is the evolution of TO type and presents the following advantages, keeping the same operation:

- Closed bottom, which minimizes dust and fluid infiltration inside the tensioner.
- Plastic bushes, for a lower sliding friction, which also reduces dust and fluid infiltration.
- Lower cost.

Pages **3-24** thru **3-24**.

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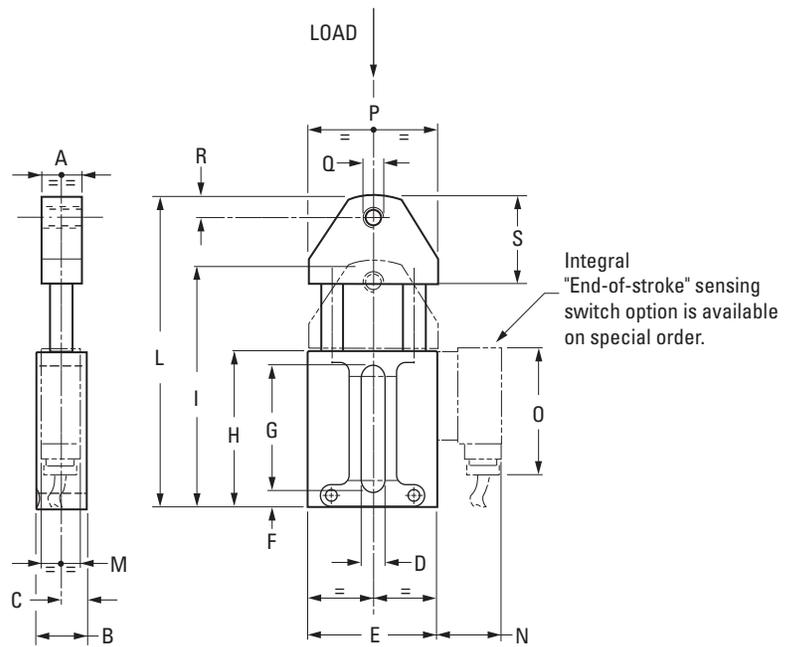
ET Type Tensioner Arms

Spring-Loaded



MATERIAL:

Base – High-Tensile Die-Cast Aluminum Alloy
 Mounting Head – Die-Cast Aluminum Alloy
 Slide Arms – High Tensile Steel (Zinc Plated)



All dimensions are in mm unless otherwise noted.

Catalog Number	Load (N)		A	B	C	D	E	F	G	H	I	L	P	Q	R	S	M	N	O
	Min	Max																	
QTA-ET1M08 QTA-ET1M10 QTA-ET1M12	130	250	20	23	12.5	11	56.2	7	58	74	109	139.5	55	M8 M10 M12	10	35	-	-	-
QTA-ET2M12	180	420	25	28	15	12.5	70.5	7	72	87	140.5	176.5	70	M12	12	50	-	-	-
QTA-ET3M12 QTA-ET3M14	300	650	30	33	17.5	14.5	82	9	86	104	167	209.5	80	M12 M14	14	60	21	35	70



Quality Transmission Components



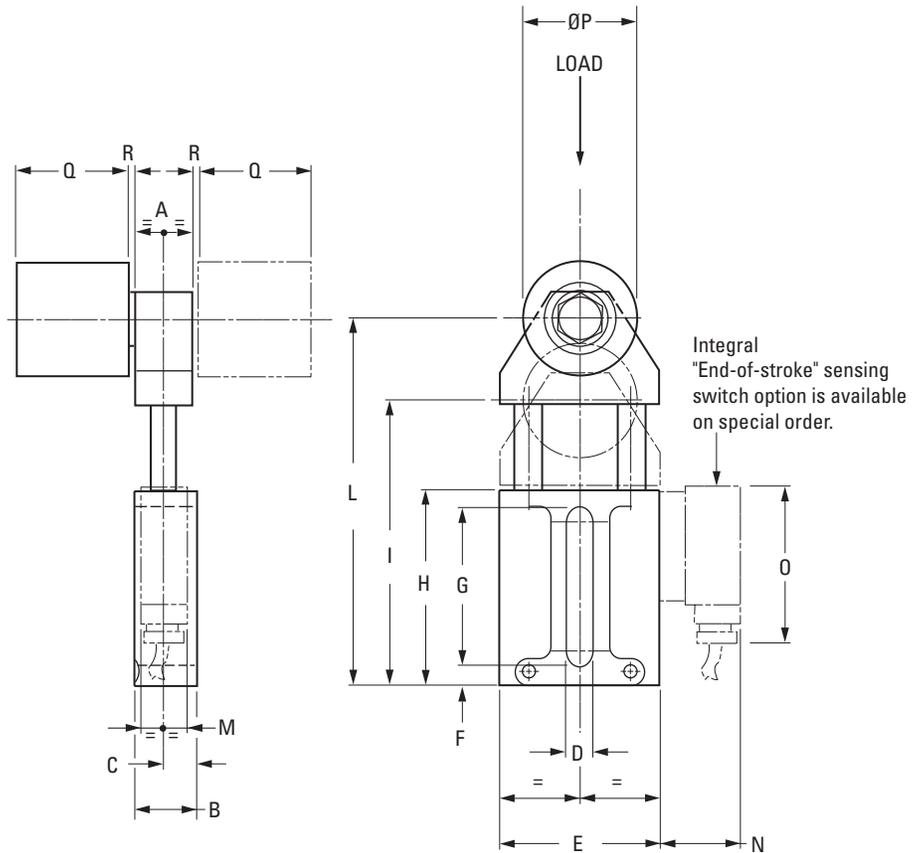
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For Belts – Roller with Ball Bearing
ET-PU Type Tensioners

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Spring-Loaded • Automatically keeps the tension constant



MATERIAL:

Mounting Head – Die-Cast Aluminum
 Base – High-Tensile Die-Cast Aluminum Alloy
 Slide Arms – High-Tensile Steel (Zinc Plated)
 Roller – Material Code

- A** Aluminum
- N** Nylon
- S** Steel (Zinc Plated)

All dimensions are in mm unless otherwise noted.

Catalog Number	Load (N)		A	B	C	D	E	F	G	H	I	L	M	N	O	ØP	Q	R
	Min	Max																
QBT-ET1PU30X35 <input type="checkbox"/>	130	250	20	23	12.5	11	56.2	7	58	74	101.5	129.5	-	-	-	30	35	2.5
QBT-ET1PU40X45 <input type="checkbox"/>																		
QBT-ET1PU50X50 <input type="checkbox"/>																		
QBT-ET2PU50X50 <input type="checkbox"/>	180	420	25	28	15	12.5	70.5	7	70	87	128.5	164.5	-	-	-	50	50	2.5
QBT-ET3PU50X50 <input type="checkbox"/>																		
QBT-ET3PU60X60 <input type="checkbox"/>																		

- NOTES:**
- Orientation of roller is supplied as shown. End user can reposition if necessary.
 - Fill in the box with desired roller material code to complete part number.

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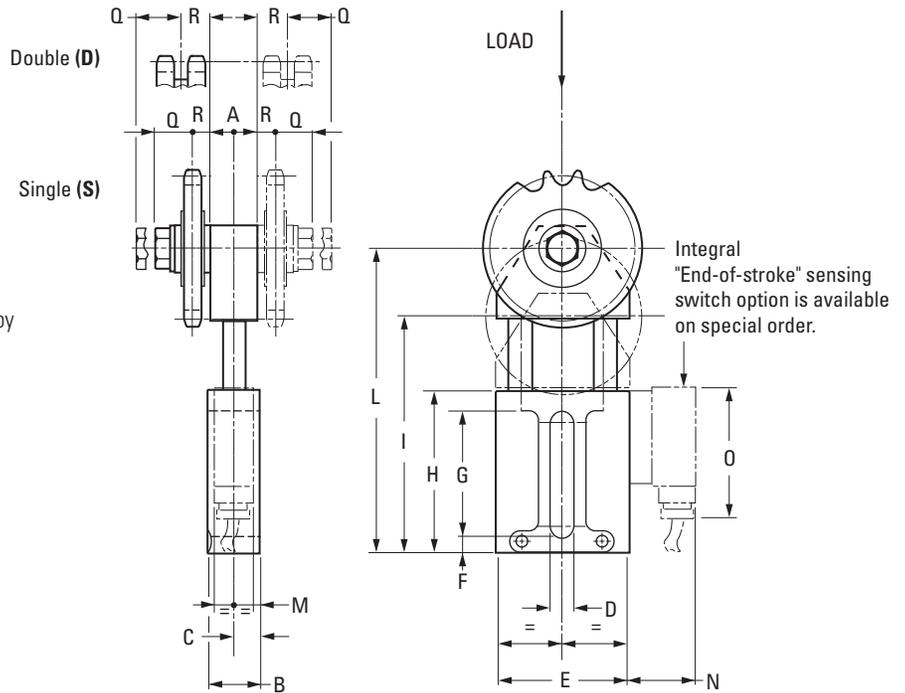


Sprockets with Ball Bearing – Spring-Loaded • Automatically keeps the tension constant



MATERIAL:

Base & Mounting Head – High-Tensile Die-Cast Aluminum Alloy
 Slide Arms – High-Tensile Steel (Zinc Plated)
 Sprocket – Steel (Heat-Treated)



All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	Teeth	Load (N)		A	B	C	D	E	F	G	H	I	L	Q	R	M	N	O
			Min	Max															
QCT-ETR103S QCT-ETR103D	3/8" x 7/32"	21	130	250	20	23	12.5	11	56.2	7	58	74	101.5	129.5	19.7 18	9.2 11	-	-	-
QCT-ETR104S QCT-ETR104D	1/2" x 5/16"	16	130	250	20	23	12.5	11	56.2	7	58	74	101.5	129.5	19.7 16.5	9.2 12.5	-	-	-
QCT-ETR205S QCT-ETR205D	5/8" x 3/8"	17	180	420	25	28	15	12.5	70.5	7	72	87	128.5	164.5	19.7 17.7	9.2 15.2	-	-	-
QCT-ETR206S QCT-ETR206D	3/4" x 7/16"	15	180	420	25	28	15	12.5	70.5	7	72	87	128.5	164.5	19.7 19.2	9.2 17.6	-	-	-
QCT-ETR308S QCT-ETR308D	1" x 17 mm	12	300	650	30	33	17.5	14.5	82	9	86	104	154	195.5	19.4 34.6	8.9 26.6	21	35	70

NOTE: Orientation of roller is supplied as shown. End user can reposition if necessary.



Quality Transmission Components

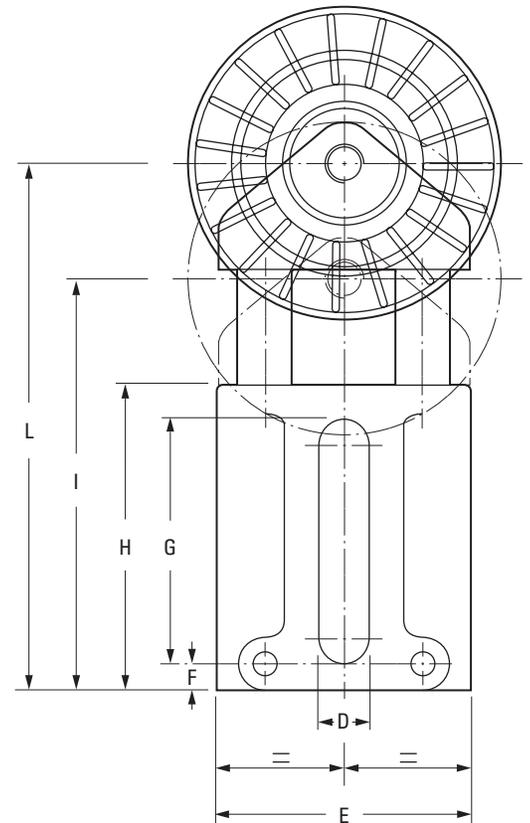
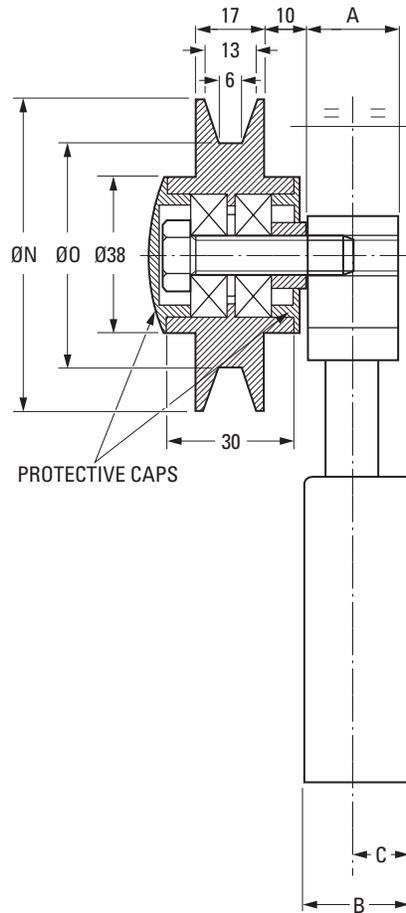


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ET-PUG Type Tensioners

www.econobelt.com



MATERIAL:

Arm – High-Tensile Die-Cast Aluminum Alloy

Pulley – Black, Polyamide-6

MAX. OPERATING TEMPERATURE:

100°C (212°F)

All dimensions are in mm unless otherwise noted.

Catalog Number	Load (N)		A	B	C	D	E	F	G	H	I	L	ØN	ØØ
	Min	Max												
QBT-ET1PUG03	130	250	20	23	12.5	11	56.2	7	58	74	101.5	129.5	76.5	50
QBT-ET1PUG04													101.6	75
QBT-ET2PUG03	180	420	25	28	15	12.5	70.5	7	72	87	128.5	164.5	76.5	50
QBT-ET2PUG04													101.6	75
QBT-ET3PUG03	300	650	30	33	17.5	14.5	82	9	86	104	154	195.5	76.5	50
QBT-ET3PUG04													101.6	75

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Adjustable Angle • Not Spring-Loaded

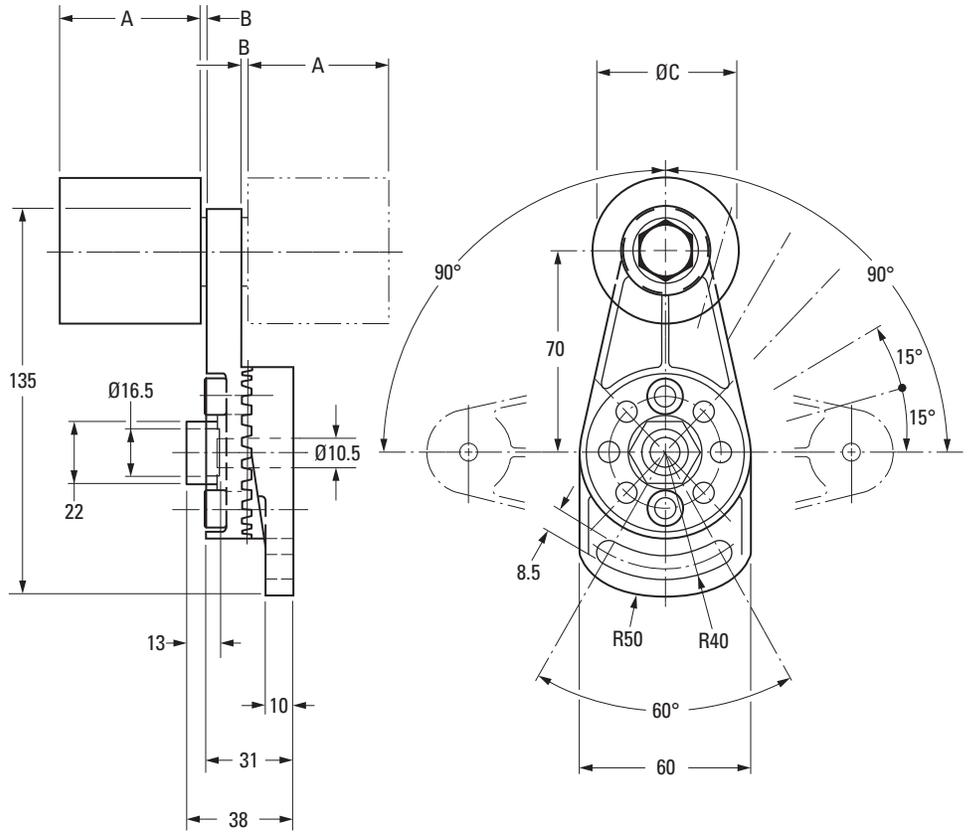
www.econobelt.com



MATERIAL:

Arm – High-Tensile Die-Cast Aluminum Alloy
 Roller – Material Code

- A** Aluminum
- S** Steel (Zinc Plated)
- N** Nylon



All dimensions are in mm unless otherwise noted.

Catalog Number	A	B	ØC
QBT-OR1PU30X35 <input type="checkbox"/>	35	2.5	30
QBT-OR1PU40X45N <input type="checkbox"/>	45	6.5	40
QBT-OR1PU50X50 <input type="checkbox"/>	50	2.5	50
QBT-OR1PU60X60 <input type="checkbox"/>	60	2.5	60
QBT-OR1PU80X90 <input type="checkbox"/>	90	2.5	80

NOTES: 1. Orientation of roller is supplied as shown. End user can reposition if necessary.
 2. Fill in the box with desired roller-material code to complete part number.

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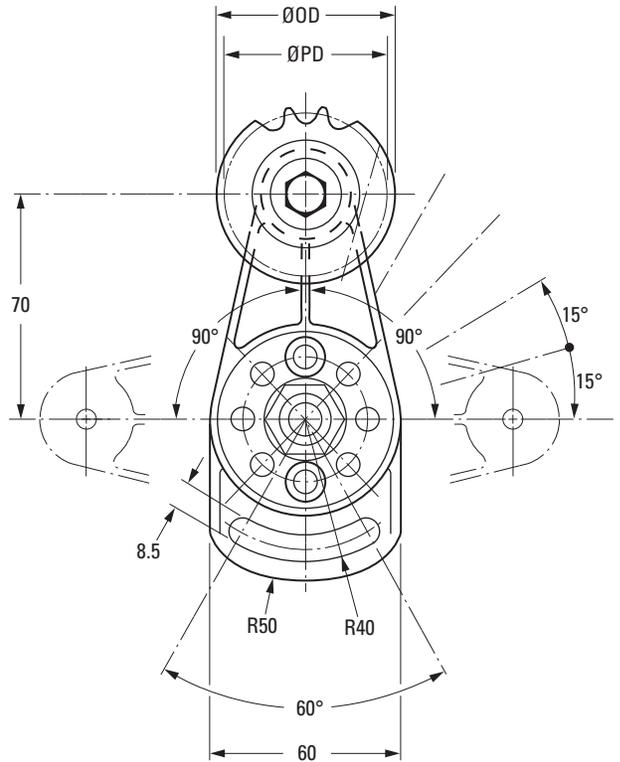
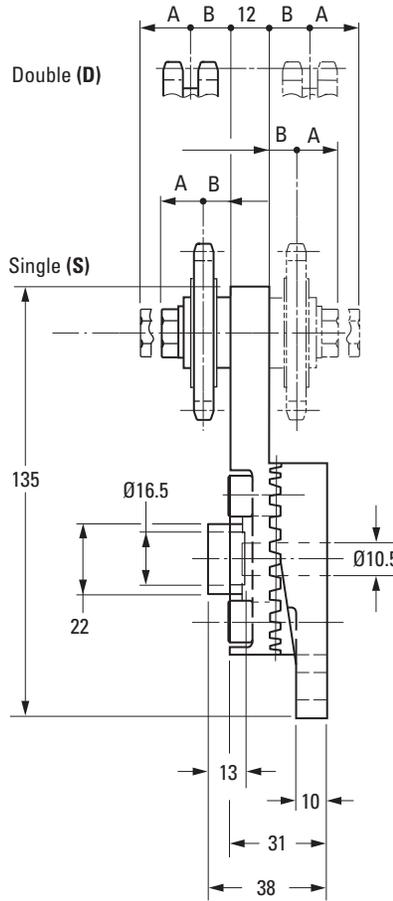
Orient-1 R Type Tensioners

Adjustable Angle • Not Spring-Loaded



MATERIAL:

Arm – High-Tensile Die-Cast Aluminum Alloy
Sprocket – Steel (Heat-Treated)



All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	No. of Teeth	A	B	Pitch Diameter ØPD	Outside Diameter ØOD
QCT-OR1R03S QCT-OR1R03D	3/8" x 7/32"	21	19.7 18	9.2 11	63.91	68
QCT-OR1R04S QCT-OR1R04D	1/2" x 5/16"	16	19.7 16.5	9.2 12.5	65.1	69.5
QCT-OR1R05S QCT-OR1R05D	5/8" x 3/8"	17	19.7 17.7	9.2 15.2	66.32	73

NOTE: Orientation of roller is supplied as shown. End user can reposition if necessary.



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For 3/8" to 5/8" Pitch Roller Chains
Orient-1 P Type Tensioners

Adjustable Angle • Not Spring-Loaded

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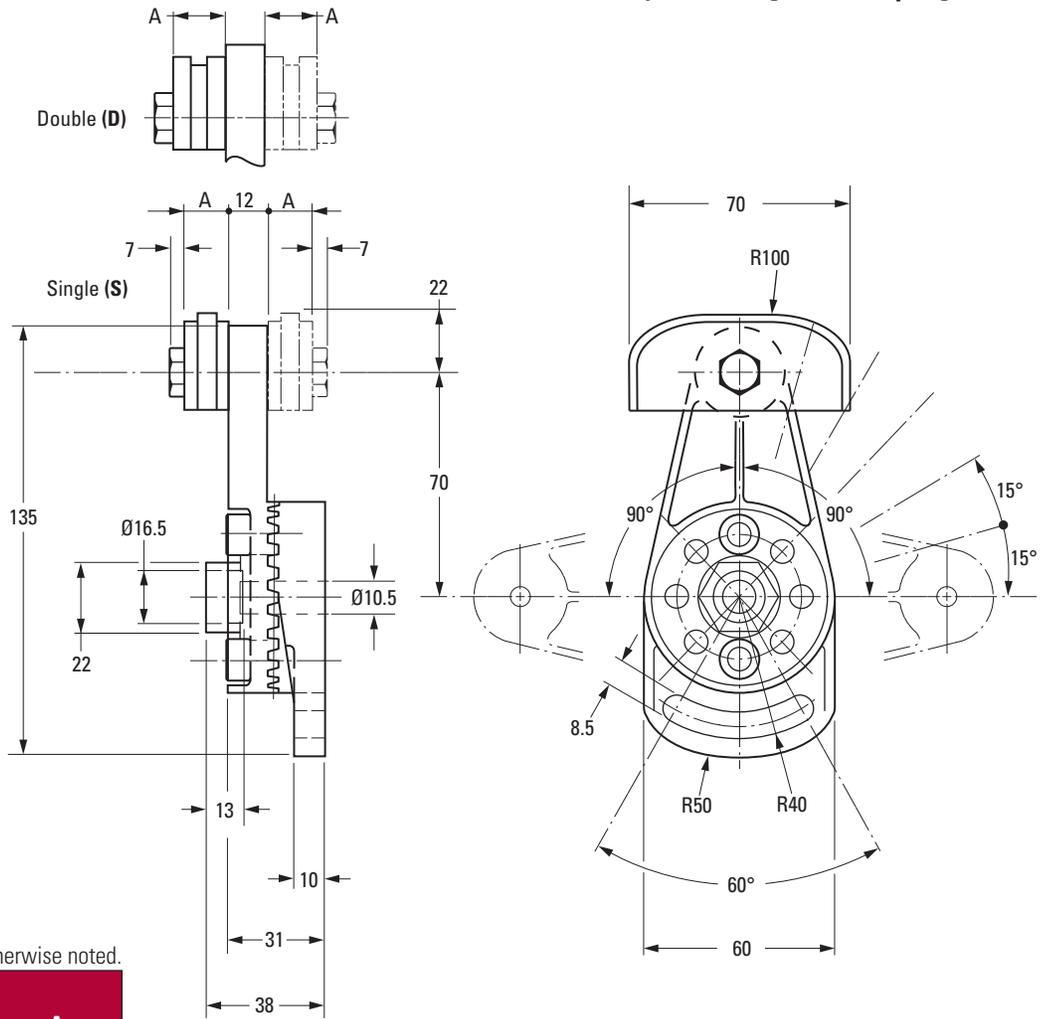
MATERIAL:

Arm – High-Tensile Die-Cast Aluminum Alloy

Head – Polyethylene (UHMW-PE)

MAX. OPERATING TEMPERATURE:

65°C (149°F)



All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	A
QCT-OR1P03S QCT-OR1P03D	3/8" x 7/32"	20
QCT-OR1P04S QCT-OR1P04D	1/2" x 5/16"	20
QCT-OR1P05S QCT-OR1P05D	5/8" x 3/8"	20 25

NOTE: Orientation of roller is supplied as shown.
 End user can reposition if necessary.

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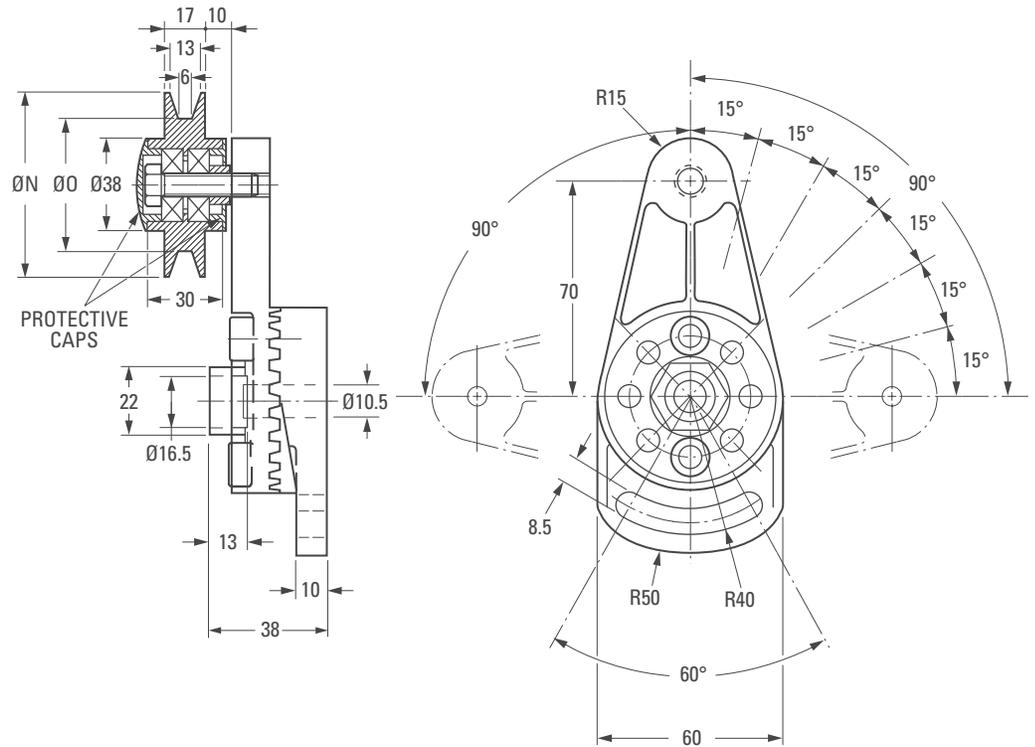


With rim pulley and bearings



MATERIAL:

Arm – High-Tensile Die-Cast Aluminum Alloy
 Pulley – Black, Polyamide-6



All dimensions are in mm unless otherwise noted.

Catalog Number	ØN	ØO
QBT-OR1PUG03	76.5	50
QBT-OR1PUG04	101.6	75



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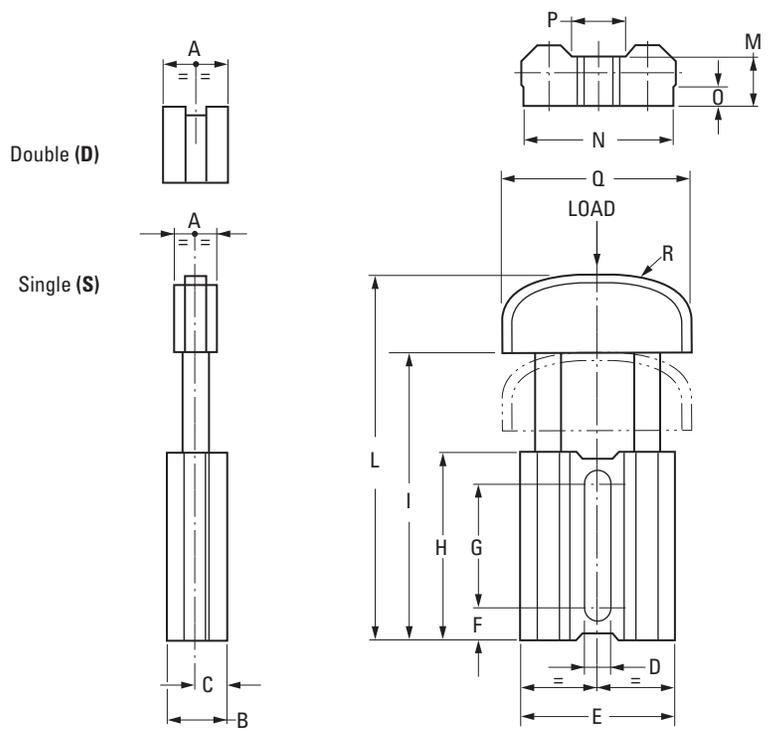


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Low Friction Polyethylene Head–Spring-Loaded • Automatically keeps the tension constant



MATERIAL:
 Head – Polyethylene (UHMW-PE)
 Base – Die-Cast Aluminum
 Slide Arms – Steel (Zinc Plated)
MAX. OPERATING TEMPERATURE:
 65°C (149°F)

All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	Load (N)		A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R
		Min	Max																
QCT-NT103S QCT-NT103D	3/8" x 7/32"	130	250	20	23	12.5	11	56	12	50	74	110	138	21	56	8	22	70	100
QCT-NT104S QCT-NT104D	1/2" x 5/16"	130	250	20															
QCT-NT105S QCT-NT105D	5/8" x 3/8"	130	250	20 25															
QCT-NT205S QCT-NT205D	5/8" x 3/8"	180	420	22 25	28	15	12.5	72	15	57	87	133	169	23	70	8	25	90	120
QCT-NT206S QCT-NT206D	3/4" x 7/16"	180	420	22 30															
QCT-NT208S QCT-NT208D*	1" x 17 mm	180	420	25 45															

*The polyethylene head for this size is a semicircular shape.

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TO Type Tensioners

Automatically keeps the tension constant • Spring-Loaded

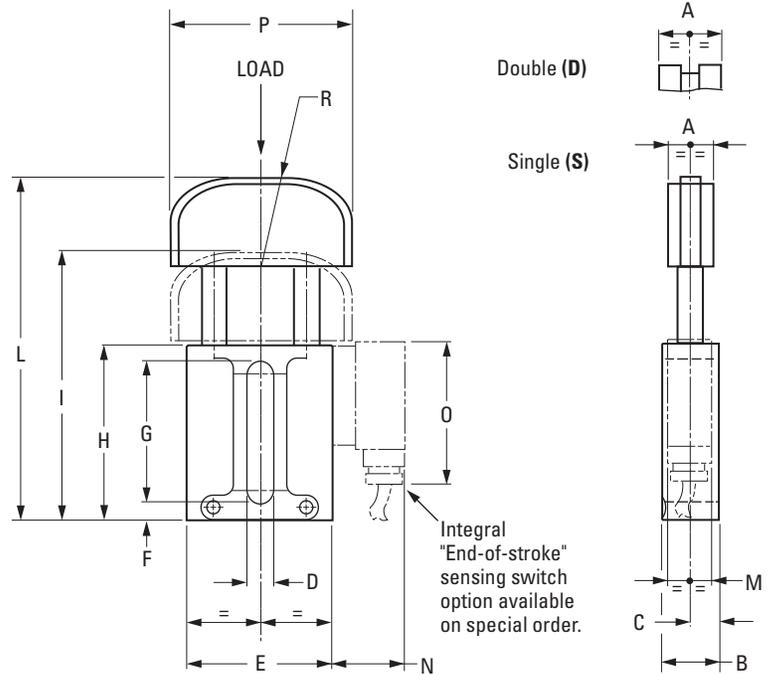


MATERIAL:

Head – Polyethylene (UHMW-PE)
 Base – High-Tensile Die-Cast Aluminum Alloy
 Slide Arms – High-Tensile Steel (Zinc Plated)

MAX. OPERATING TEMPERATURE:

65°C (149°F)



All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	Load (N)		A	B	C	D	E	F	G	H	I	L	M	N	O	P	R
		Min	Max															
QCT-T0103S * QCT-T0103D	3/8" x 7/32"	130	250	20	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	100
QCT-T0104S * QCT-T0104D	1/2" x 5/16"	130	250	20	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	100
QCT-T0105S * QCT-T0105D	5/8" x 3/8"	130	250	20 25	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	100
QCT-T0205S * QCT-T0205D	5/8" x 3/8"	180	420	22 25	28	15	12.5	70.5	9	72	87	133	169	-	-	-	90	120
QCT-T0206S * QCT-T0206D	3/4" x 7/16"	180	420	22 30	28	15	12.5	70.5	9	72	87	133	169	-	-	-	90	120
# QCT-T0308S	1" x 17 mm	300	650	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	140
# QCT-T0310S	1-1/4" x 3/4"	300	650	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	140
# QCT-T0312S	1-1/2" x 1"	300	650	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	140

*Head for triple chain is not available (see TOT Type)

Heads for double and triple chains are not available (see TOT Type)



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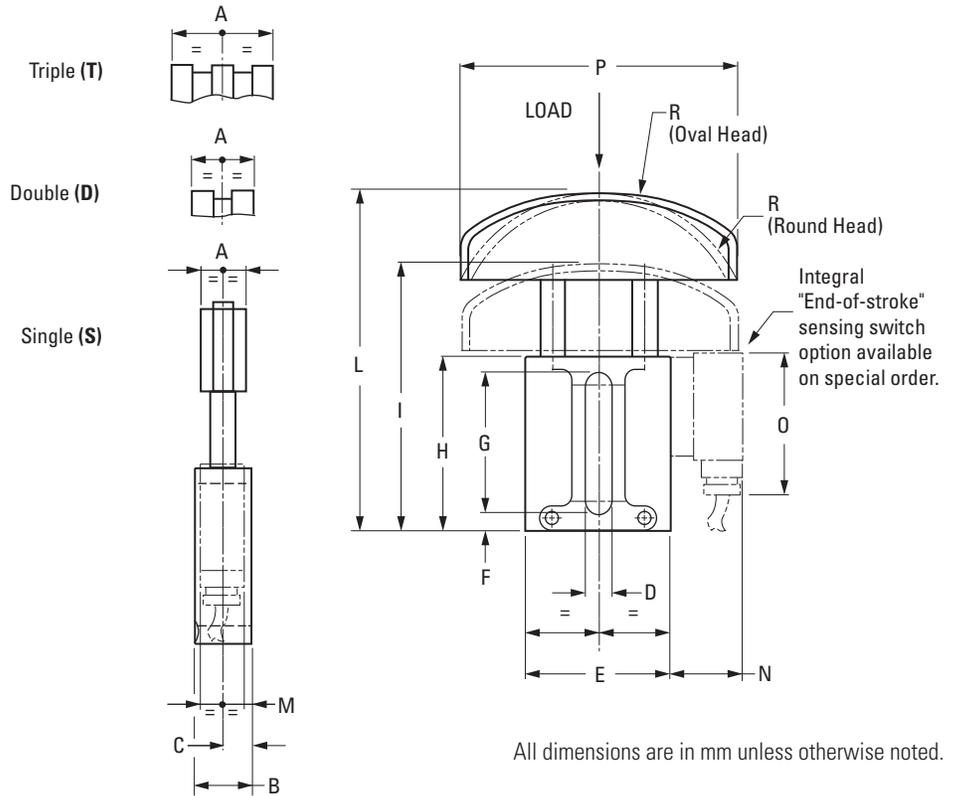


MATERIAL:

Head – Polyethylene (UHMW-PE)
 Base – High-Tensile Die-Cast Aluminum Alloy
 Slide Arms – High-Tensile Steel (Zinc Plated)

MAX. OPERATING TEMPERATURE:

65°C (149°F)



All dimensions are in mm unless otherwise noted.

Catalog Number	Load (N)		Chain Pitch	A	B	C	D	E	F	G	H	I	L	P	R	M	N	O
	Min	Max																
QCT-TA103S QCT-TA103D QCT-TA103T *	130	250	3/8" x 7/32"	20 20 26	23	12.5	11	56.2	7	58	74	115	143	140	160 160 90	-	-	-
QCT-TA104S QCT-TA104D QCT-TA104T *	130	250	1/2" x 5/16"	20 20 34.5	23	12.5	11	56.2	7	58	74	115	143	140	160 160 90	-	-	-
QCT-TA205S QCT-TA205D QCT-TA205T *	180	420	5/8" x 3/8"	22 25 41.5	28	15	12.5	70.5	9	72	87	128	164	140	160 160 90	-	-	-
QCT-TA206S QCT-TA206D QCT-TA206T *	180	420	3/4" x 7/16"	22 30 49	28	15	12.5	70.5	9	72	87	128	164	140	160 160 90	-	-	-
QCT-TA308S QCT-TA308D * QCT-TA308T *	300	650	1" x 17 mm	25 45 78	33	17.5	14.5	82	9	86	104	145	187	140	160 90 90	21	35	70
QCT-TA310S QCT-TA310D * QCT-TA310T *	300	650	1-1/4" x 3/4"	25 54 90	33	17.5	14.5	82	9	86	104	145	187	140	160 90 90	21	35	70
QCT-TA312S QCT-TA312D * QCT-TA312T *	300	650	1-1/2" x 1"	25 71 119	33	17.5	14.5	82	9	86	104	145	187	140	160 90 90	21	35	70
QCT-TA314S * QCT-TA316S *	300	650	1-3/4" x 1-1/4" 2" x 1-1/4"	29.5	33	17.5	14.5	82	9	86	104	145	187	140	90	21	35	70

*Round head only



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MATERIAL:

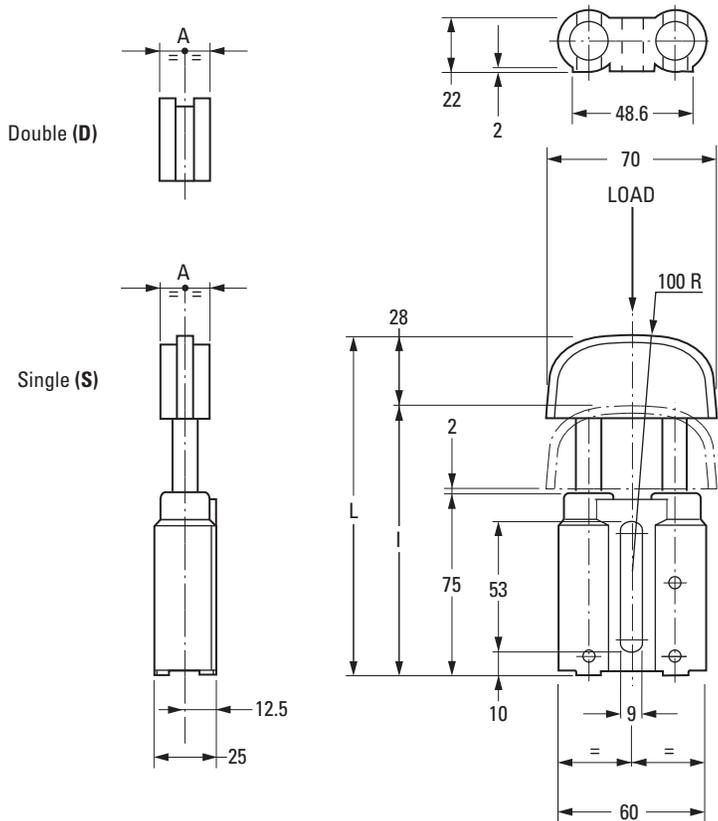
Head – See Table

Base – Acetal

Slide Arms – High-Tensile Steel (Zinc Plated)

MAX. OPERATING TEMPERATURE:

65°C (149°F)



All dimensions are in mm unless otherwise noted.

Catalog Number	Chain Pitch	Load (N)		A	I	L	Head Material
		Min	Max				
QCT-T05-DP003S*	3/8" x 7/32"	95	190	20	121	149	Acetal
QCT-T05-DP103S QCT-T05-DP103D	3/8" x 7/32"	95	190	20	111	139	Polyethylene (UHMW-PE)
QCT-T05-DP104S QCT-T05-DP104D	1/2" x 5/16"	95	190	20	111	139	
QCT-T05-DP105S QCT-T05-DP105D	5/8" x 3/8"	95	190	20 25	111	139	

*Head for double chain not available.



Quality Transmission Components



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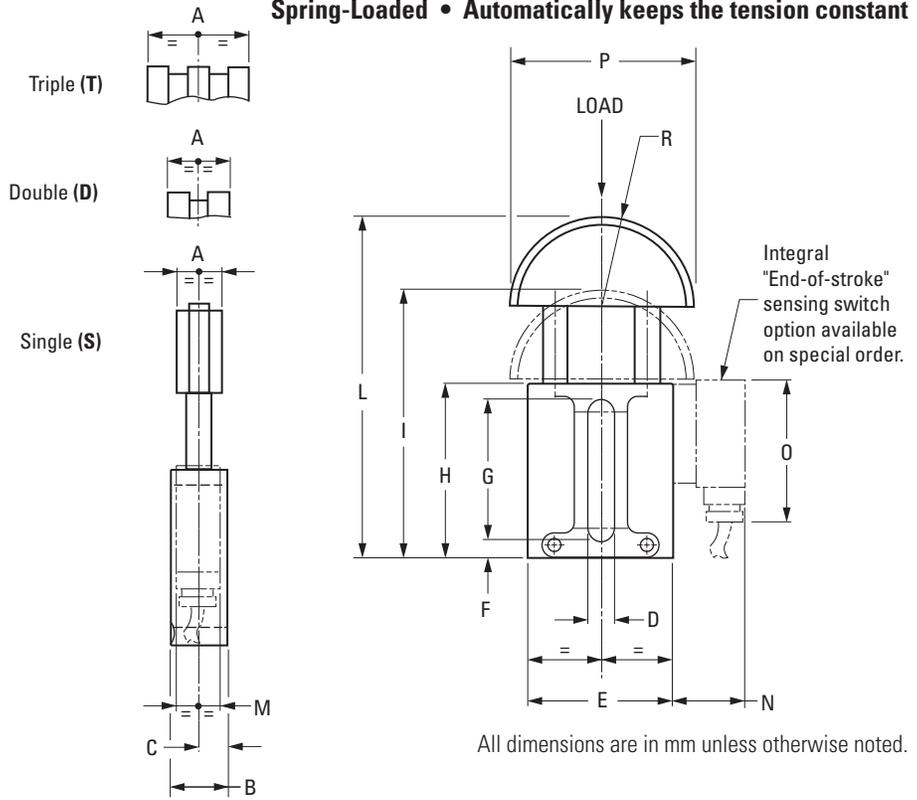
MATERIAL:

Head – Polyethylene (UHMW-PE)
 Base – High-Tensile Die-Cast Aluminum Alloy
 Slide Arms – High-Tensile Steel (Zinc Plated)

MAX. OPERATING TEMPERATURE:

65°C (149°F)

Spring-Loaded • Automatically keeps the tension constant



All dimensions are in mm unless otherwise noted.

Catalog Number	Load (N)		Chain Pitch	A	B	C	D	E	F	G	H	I	L	M	N	O	P	R
	Min	Max																
QCT-TOT103S	130	250	3/8" x 7/32"	20	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	35
QCT-TOT103D				20														
QCT-TOT103T				26														
QCT-TOT104S	130	250	1/2" x 5/16"	20	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	35
QCT-TOT104D				20														
QCT-TOT104T				34.5														
QCT-TOT105S	130	250	5/8" x 3/8"	20	23	12.5	11	56.2	7	58	74	110	138	-	-	-	70	35
QCT-TOT105D				25														
QCT-TOT105T				41.5														
QCT-TOT205S	180	420	5/8" x 3/8"	22	28	15	12.5	70.5	7	72	87	133	169	-	-	-	90	45
QCT-TOT205D				25														
QCT-TOT205T				41.5														
QCT-TOT206S	180	420	3/4" x 7/16"	22	28	15	12.5	70.5	7	72	87	133	169	-	-	-	90	45
QCT-TOT206D				30														
QCT-TOT206T				49														
QCT-TOT308S	300	650	1" x 17 mm	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	55
QCT-TOT308D				45														
QCT-TOT308T				78														
QCT-TOT310S	300	650	1-1/4" x 3/4"	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	55
QCT-TOT310D				54														
QCT-TOT310T				90														
QCT-TOT312S	300	650	1-1/2" x 1"	25	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	55
QCT-TOT312D				71														
QCT-TOT312T				119														
QCT-TOT314S	300	650	1-3/4" x 1-1/4"	29.5	33	17.5	14.5	82	9	86	104	160	202	21	35	70	110	55
QCT-TOT316S																		



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