CT/DCT & CT-RE/DCT-RE SERIES

Angular Grippers | Features and Benefits | How To Order

Features:

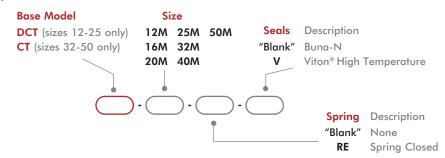
- 180° angular gripper jaw opening for direct feed systems
- · Shielded design for working in dirty environments
- · Spring assist option maintains grip in case of air pressure loss
- Adjustable 0 to 180° opening angle option.
- Side and bottom gripper mounting
- Multiple air ports, side and top air ports for easy installation

Applications:

- In-line conveying applications
- OEM pick and place machines
- End-of-arm tooling



How To Order



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
NPN Magneto Resistive Sensor with M8 Quick Disconnect	All Models	OHSN-017	1-2
PNP Magneto Resistive Sensor with M8 Quick Disconnect	All Models	OHSP-017	1-2
Inductive Sensor Mounting Kit (mounts 2 sensors)	See Datasheet		1
4mm NPN Inductive Sensor with M8 Quick Disconnect*	16M, 20M	OISN-014	1-2
4mm PNP Inductive Sensor M8 with Quick Disconnect*	16M, 20M	OISP-014	1-2
M8 NPN Inductive Sensor with M8 Quick Disconnect*	25M, 32M	OISN-011	1-2
M8 PNP Inductive Sensor with M8 Quick Disconnect*	25M, 32M	OISP-011	1-2
M12 NPN Inductive Sensor with M12 Quick Disconnect*	40M, 50M	OISN-017	1-2
M12 PNP Inductive Sensor with M12 Quick Disconnect*	40M, 50M	OISP-017	1-2
M8 Quick Disconnect 2 Meter Cable Length*	All Models	CABL-010	1-2
M8 Quick Disconnect 5 Meter Cable Length*	All Models	CABL-013	1-2
M12 Quick Disconnect 2 Meter Cable Length*	All Models	CABL-014	1-2
M12 Quick Disconnect 5 Meter Cable Length*	All Models	CABL-018	1-2

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Adjustable Flow Control-M5 Elbow-6mm OD Push-in	12M, 16M, 20M, 25M, 32M	VLVF-008	1-2
Adjustable Flow Control-G1/8 Elbow-6mm OD Push-in	40M, 50M	VLVF-005	1-2

^{*}Sensor and cable sold separately.



CT/DCT & CT-RE/DCT-RE SERIES

Angular Grippers | Technical Specifications

Specifications	Units	12M	12M-RE	16M	16M-RE	20M	20M-RE	25M	25M-RE
Total Rated Grip Force F @ 100 psi [7 bar]	N [lb]	32 [7.2]	40 [9]	70 [16]	87 [19]	112 [25]	141 [32]	157 [35]	199 [45]
Stroke (degrees per finger)				90	° per finge	r (180° to	tal)		
Weight	kg [lbs]	0.09 [0.20]	0.12 [0.26]	0.16 [0.35]	0.20 [0.44]	0.28 [0.62]	0.33 [0.73]	0.49 [1.08]	0.57 [1.26]
Pressure Range w/o Spring	bar [psia]	3-7 [40-100] CT/DCT							
Pressure Range w/ Spring	bar [psi]	4-7 [60-100] CT-RE/DCT-RE							
Ingress Protection Class (IP)		IP43							
Displacement	cm³ [in³]		1.92 4.12 [0.117] [0.251]		7.92 [0.483]		14.9 [0.909]		
Temperature Range (Buna-N seals)	°C [°F]			-	35°~80° [-	30°~180	°]		
Temperature Range (Viton® seals)	°C [°F]			-3	30°~150° [-20°~300	O°]		
Actuation (open)	sec	0.06	0.08	0.13	0.15	0.16	0.20	0.21	0.25
Actuation (close)	sec	0.06	0.05	0.13	0.12	0.16	0.14	0.21	0.19
Accuracy	mm [in]		±0.07 [±	0.0028]			±0.08 [±0.003]	
Repeatability	mm [in]				±0.05 [±0.002]			
Valve to Actuate Double Acting				4-v	vay, 2-posi	tion CT/I	ОСТ		
Valve to Actuate Double Acting Sprin	g Assist	4-way, 2-position CT-RE/DCT-RE							
Valve to Actuate Single Acting		3-way, 2-position CT-RE/DCT-RE							

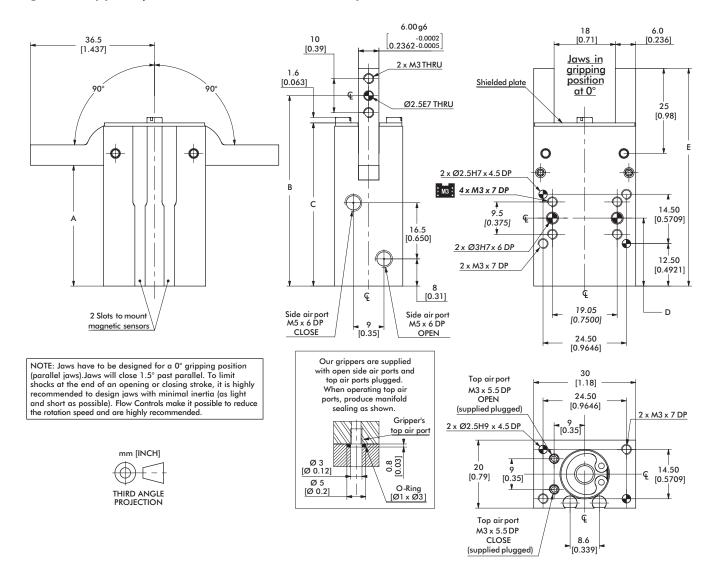
Specifications	Units	32M	32M-RE	40M	40M-RE	50M	50M-RE
Total Rated Grip Force F @ 100 psi [7 bar]	N [lb]	272 [61]	353 [79]	446 [100]	592 [133]	651 [146]	893 [201]
Stroke (degrees per finger)			90	per finge	er (180° to	tal)	
Weight	kg [lbs]	0.72 [1.59]	0.83 [1.83]	1.18 [2.60]	1.39 [3.06]	1.82 [4.01]	2.21 [4.87]
Pressure Range w/o Spring	bar [psi]		3-7 [40-100] CT/DCT				
Pressure Range w/ Spring	bar [psi]	4-7 [60-100] CT-RE/DCT-RE				RE	
Ingress Protection Class (IP)		IP43					
Displacement	cm³ [in³]				92 614]		
Temperature Range (Buna-N seals)	°C [°F]		-;	35°~80° [-30°~180	°]	
Temperature Range (Viton® seals)	°C [°F]		-3	80°~150°	[-20°~300)°]	
Actuation (open)	sec	0.29	0.35	0.41	0.47	0.46	0.54
Actuation (close)	sec	0.29	0.26	0.41	0.38	0.46	0.42
Accuracy	mm [in]	_	.08 003]		±0 [±0.0	.09 0036]	
Repeatability	mm [in]			±0.05 [±0.002]		
Valve to Actuate Double Acting		4-way, 2-position CT/DCT					
Valve to Actuate Double Acting Spring	Assist	4-way, 2-position CT-RE/DCT-RE					
Valve to Actuate Single Acting			3-way,	2-positio	n CT-RE/ C	CT-RE	



DCT-12, -12-RE

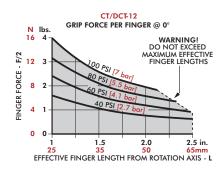


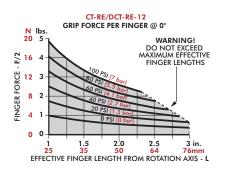
Angular Grippers | Dimensions and Technical Specifications

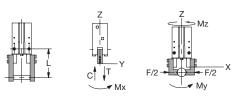


Model	Α	В	С	D	Е
DCT-12	35.5	56.00	48	20.00	64
	[1.398]	[2.2047]	[1.89]	[0.7874]	[2.52]
DCT-12-RE	51.5	72.00	64	35.00	80
	[2.028]	[2.8346]	[2.52]	[1.3780]	[3.15]
Dimensions in mm	linl				

Mounting Accessories	Order #
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-DCT12-BR
Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-159
Viton® Seal Repair Kit	SLKT-159V







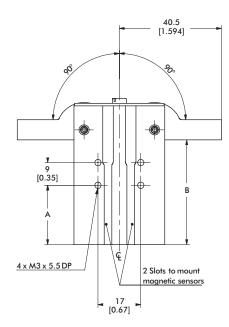
	Static
Maximum Tensile T	47 N [11 lbs]
Maximum Compressive C	47 N [11 lbs]
Maximum Moment M_X	1.1 Nm [10 in-lbs]
Maximum Moment My	1.1 Nm [10 in-lbs]
Maximum Moment Mz	1.1 Nm [10 in-lbs]

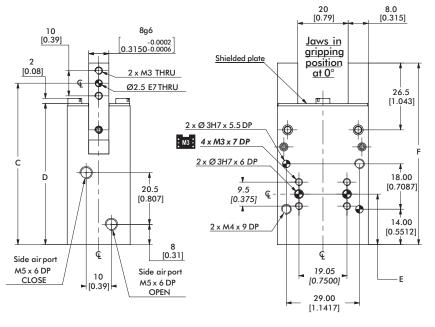
[†]Capacities are per set of jaws and are not simultaneous



DCT-16, -16-RE

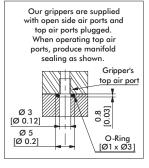
Angular Grippers | Dimensions and Technical Specifications

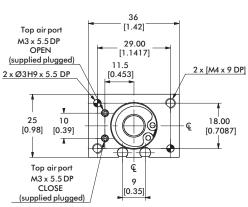




NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.



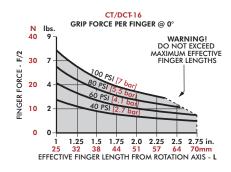


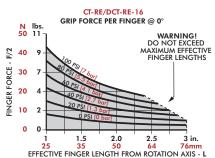


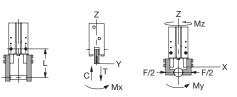
Model	Α	В	С	D	Е	F
DCT-16	23.5	41.5	64.00	56	20.00	72
	[0.925]	[1.634]	[2.5197]	[2.20]	[0.7874]	[2.83]
DCT-16-RE	38.5	56.5	79.00	71	35.00	87
	[1.516]	[2.224]	[3.1102]	[2.80]	[1.3780]	[3.43]
Dimensions in mm	[in]					

Mounting Accessories	Order #
Inductive Sensor Mounting Kit (mounts 2 sensors)	SDCT-16-20
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-DCT16-BR
Seal Repair Kits	Order #
Seal Repair Kits Buna-N Seal Repair Kit	Order # SLKT-160

Loading Information







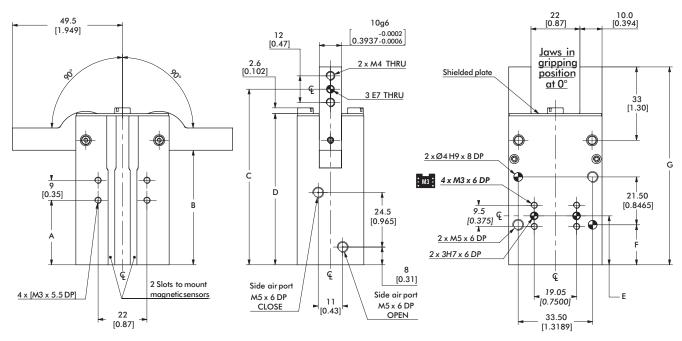
	Static
Maximum Tensile T	90 N [20 lbs]
Maximum Compressive C	90 N [20 lbs]
Maximum Moment M_X	2.9 Nm [26 in-lbs]
Maximum Moment My	2.9 Nm [26 in-lbs]
Maximum Moment Mz	2.9 Nm [26 in-lbs]
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GR-ANG

DCT-20, -20-RE

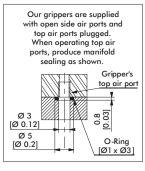


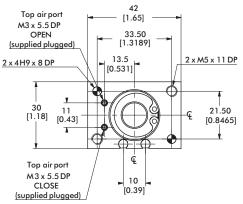
Angular Grippers | Dimensions and Technical Specifications



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.



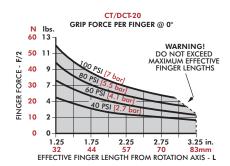


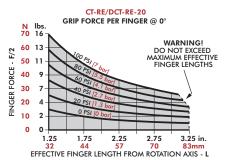


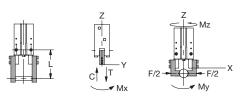
Model	Α	В	С	D	Е	F	G
DCT-20	29	51.5	79.00	68	22.00	18.00	89
	[1.14]	[2.028]	[3.1102]	[2.68]	[0.8661]	[0.7087]	[3.50]
DCG/CT-20-RE	47	66.5	94.00	83	39.00	20.00	104
	[1.85]	[2.618]	[3.7008]	[3.27]	[1.5354	[0.7874]	[4.09]
Dimensions in mm [in]							

Mounting Accessories	Order #
Inductive Sensor Mounting Kit (mounts 2 sensors)	SDCT-16-20
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-DCT20-BR
Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-161

Loading Information







	Static
Maximum Tensile T	150 N [34 lbs]
Maximum Compressive C	150 N [34 lbs]
Maximum Moment M_X	6 Nm [53 in-lbs]
Maximum Moment My	6 Nm [53 in-lbs]
Maximum Moment Mz	6 Nm [53 in-lbs]

†Capacities are per set of jaws and are not simultaneous

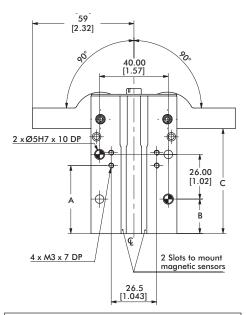


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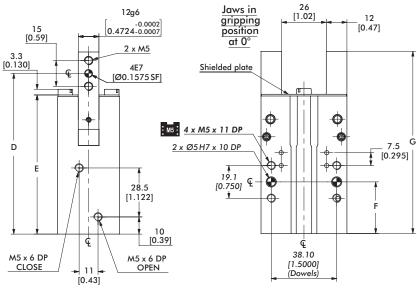
DCT-25, -25-RE

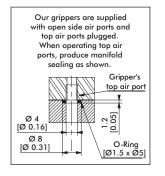
Angular Grippers | Dimensions and Technical Specifications



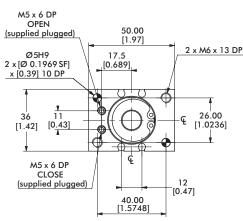
NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.







Mounting Accessories



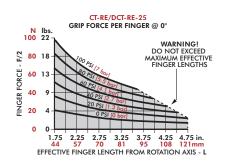
Model	Α	В	С	D	E	F	G
DCT-25	39.5 [1.555]	20.00 [0.79]	61 [2.40]	93.50 [3.6811]	81 [3.19]	30.00 [1.1811]	106 [4.17]
DCT-25-RE	60.5 [2.382]	25.00 [0.98]	82 [3.23]	114.50 [4.5079]		51.00 [2.0079]	127 [5.00]

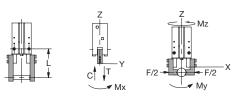
Inductive Sensor Mounting Kit (mounts 2 sensors)	SDCT-25-32
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-DCT25-BR
Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-162
Viton® Seal Repair Kit	SLKT-162V

Dimensions in mm [in]

CT/DCT-25 So 18 N lbs. GRIP FORCE PER FINGER @ 0° WARNING! DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS 80 PS | 5 bord 40 99 40 PS | 27 bord 40 PS | 27 bord 1.75 2.25 2.75 3.25 3.75 4.25 in. 44 57 70 81 95 108mm

EFFECTIVE FINGER LENGTH FROM ROTATION AXIS - L





Loading Information

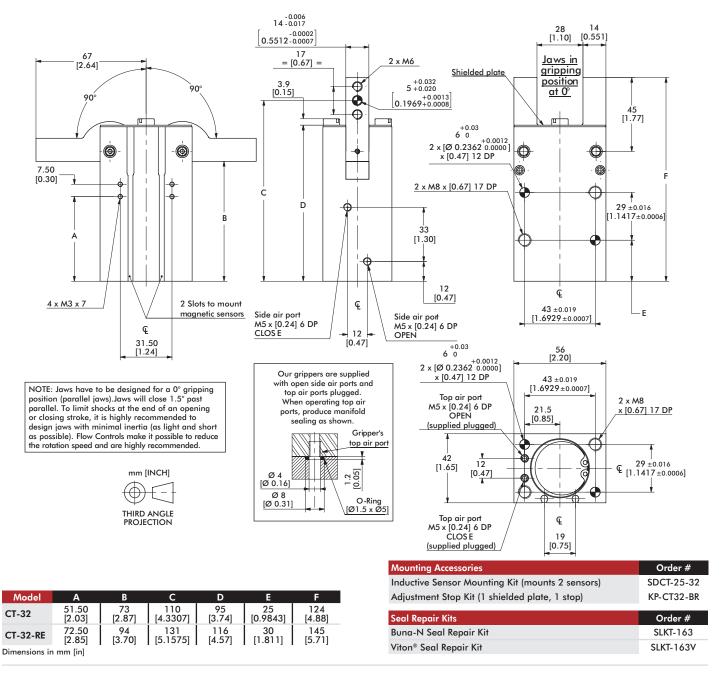
	Static
Maximum Tensile T	205 N [46 lbs]
Maximum Compressive C	205 N [46 lbs]
Maximum Moment M_X	10 Nm [89 in-lbs]
Maximum Moment My	10 Nm [89 in-lbs]
Maximum Moment Mz	10 Nm [89 in-lbs]
Canacities are not set of igues an	d are not simultaneous

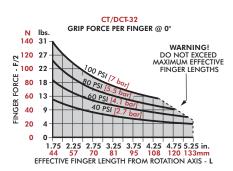
Order #

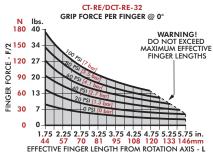
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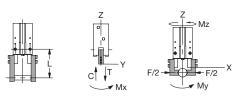
CT-32/ -32-RE

Angular Grippers | Dimensions and Technical Specifications







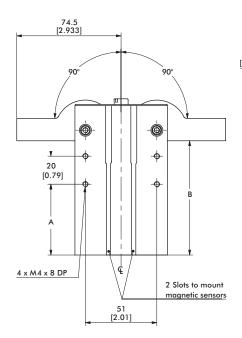


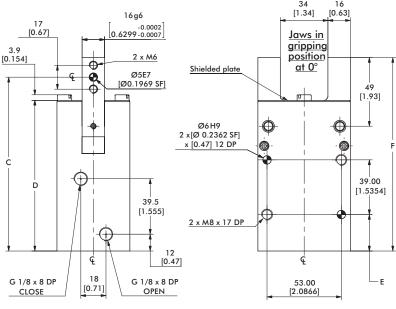
	Static				
Maximum Tensile T	288 N [65 lbs]				
Maximum Compressive C	288 N [65 lbs]				
Maximum Moment M _X	16 Nm [142 in-lbs]				
Maximum Moment My	16 Nm [142 in-lbs]				
Maximum Moment Mz	16 Nm [142 in-lbs]				
[†] Capacities are per set of jaws and are not simultaneous					



CT-40/ -40-RE

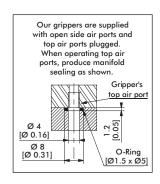
Angular Grippers | Dimensions and Technical Specifications

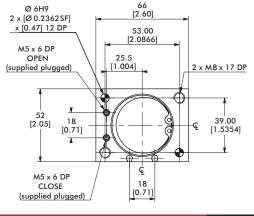




NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws).Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.

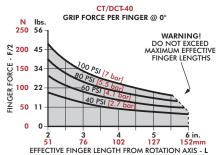


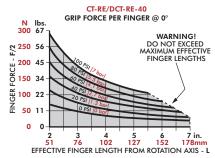


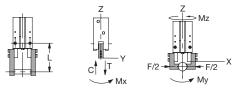


Model	Α	В	С	D	E	F
CT-40	50.5 [1.988]	81.5 [3.209]	124.00 [4.8819]	107.5 [4.232]	26.00 [1.0236]	138 [5.43]
CT-40-RE	78 [3.07]	109 [4.29]	151.50 [5.9646]	135 [5.31]	32.00 [1.2598]	165.5 [6.516]
Dimensions in	n mm [in]					

Mooning Accessories	Order #
Inductive Sensor Mounting Kit (mounts 2 sensors)	SDCT-40-63
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-CT40-BR
Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-164
Viton® Seal Repair Kit	SLKT-164V



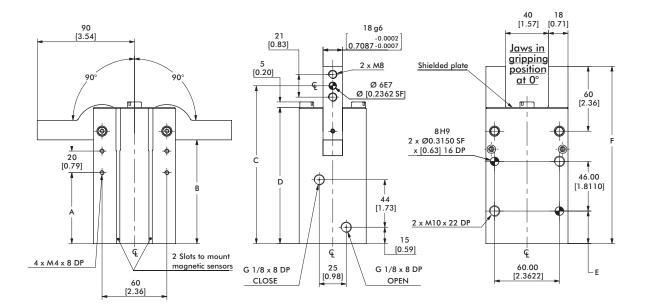




	Static			
Maximum Tensile T	420 N [94 lbs]			
Maximum Compressive C	420 N [94 lbs]			
Maximum Moment M _X	22 Nm [195 in-lbs]			
Maximum Moment My	22 Nm [195 in-lbs]			
Maximum Moment Mz	22 Nm [195 in-lbs]			
[†] Capacities are per set of jaws and are not simultaneous				

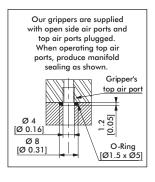
CT-50/ -50-RE

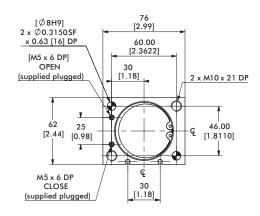
Angular Grippers | Dimensions and Technical Specifications



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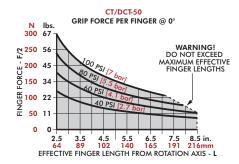


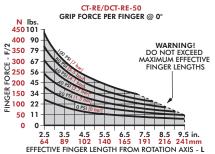


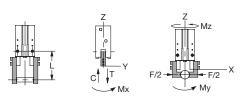


Model	Α	В	С	D	E	F
CT-50	65.5 [2.579]	96 [3.78]	146.00 [5.7480]	126 [4.96]	30.00 [1.1811]	164 [6.46]
CT-50-RE	102.50 [4.035]	133 [5.24]	183.00 [7.2047]	163 [6.42]	40.00 [1.5748]	201 [7.91]
Dimensions in	n mm [in]					

Mounting Accessories	Order #
Inductive Sensor Mounting Kit (mounts 2 sensors)	SDCT-40-63
Adjustment Stop Kit (1 shielded plate, 1 stop)	KP-CT50-BR
Seal Repair Kits	Order #
D NC ID : VI	SLKT-165
Buna-N Seal Repair Kit	3LKI-103







	Static				
Maximum Tensile T	490 N [110 lbs]				
Maximum Compressive C	490 N [110 lbs]				
Maximum Moment M _X	30 Nm [266 in-lbs]				
Maximum Moment My	30 Nm [266 in-lbs]				
Maximum Moment Mz	30 Nm [266 in-lbs]				
[†] Capacities are per set of jaws and are not simultaneous					



ANGULAR GRIPPERS

Notes

