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

Angular Grippers | Features and Benefits | How To Order

Features:

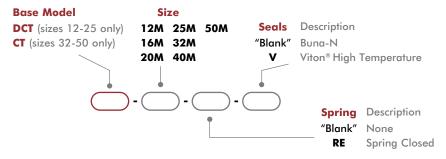
- 180° angular gripper jaw opening for direct feed systems
- Shielded design for working in dirty environments
- Spring assist option maintains grip in case of air pressure loss
- Adjustable 0 to 180° opening angle option.
- Side and bottom gripper mounting
- Multiple air ports, side and top air ports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

	Full Nulliber	Qty/Unit
12M, 16M, 20M, 25M, 32M	VLVF-008	1-2
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	otal)		
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	cm ³ [in ³]	1.924.127.9214.9[0.117][0.251][0.483][0.909]							
Temperature Range (Buna-N seals)	°C [°F]			-:	35°~80° [-	30°~180)°]		
Temperature Range (Viton® seals)	°C [°F]			-3	80°~150° [-20°~30	0°]		
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-way, 2-position CT/DCT							
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							

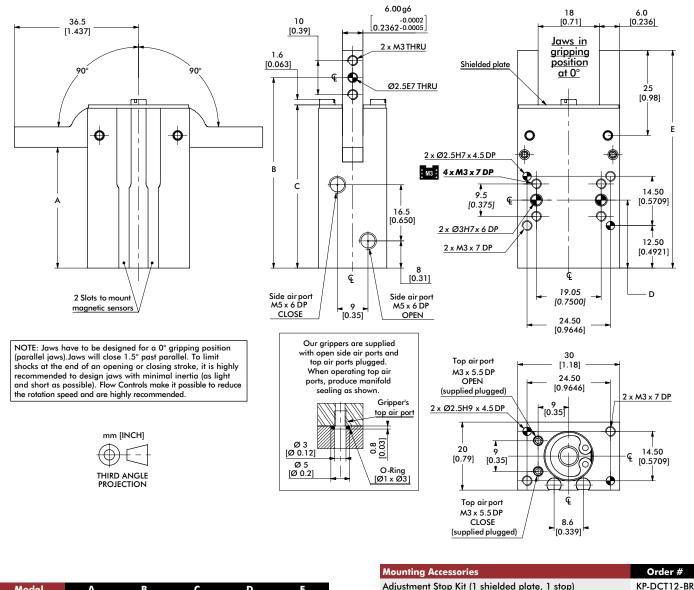
Specifications	Units	32M	32M-RE	40M	40M-RE	50M	50M-RE
Total Rated Grip Force F @ 100 psi [7 bar]	N [lb]	272 [61]	353 [79]	446 [100]	592 [133]	651 [146]	893 [201]
Stroke (degrees per finger)			90	° per finge	er (180° tot	tal)	
Weight	kg [lbs]	0.72 [1.59]	0.83 [1.83]	1.18 [2.60]	1.39 [3.06]	1.82 [4.01]	2.21 [4.87]
Pressure Range w/o Spring			3-7 [40	-100] CT/I	DCT		
Pressure Range w/ Spring	bar [psi]			4-7 [60	-100] CT-I	RE/DCT-F	RE
Ingress Protection Class (IP)		IP43					
Displacement	cm³ [in³]	28.6 52 92 [1.745] [3.173] [5.614]					
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		
Repeatability mm [in]		±0.05 [±0.002]					
Valve to Actuate Double Acting		4-v	vay, 2-pos	sition CT/D	ост		
Valve to Actuate Double Acting Spring	4-way, 2-position CT-RE/DCT-RE						
Valve to Actuate Single Acting			3-way,	2-positio	n CT-RE/D	CT-RE	



DCT-12, -12-RE

DIRECTCONNECT

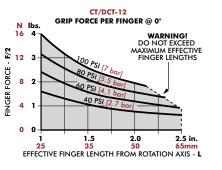
Angular Grippers | Dimensions and Technical Specifications



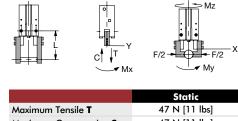
Model	Α	В	С	D	E
DCT-12	35.5	56.00	48	20.00	64
	[1.398]	[2.2047]	[1.89]	[0.7874]	[2.52]
DCT-12-RE	51.5	72.00	64	35.00	80
	[2.028]	[2.8346]	[2.52]	[1.3780]	[3.15]
Dimensions in mm	[in]				

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

Loading Information







Ζ

	June
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 a	nd are not simultaneous

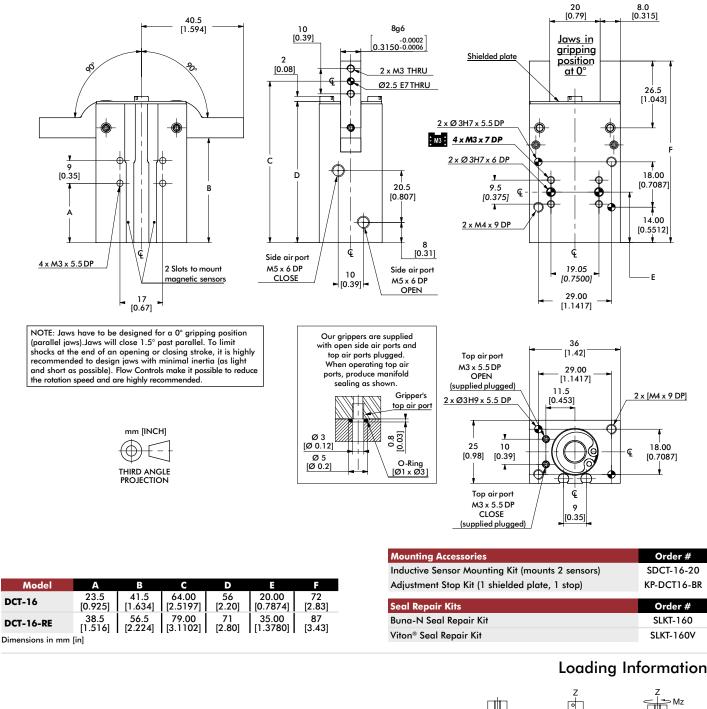
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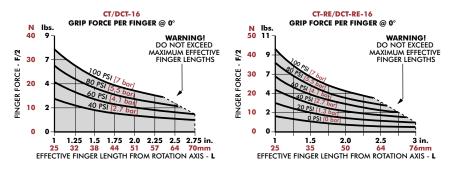
GR-ANG | 5

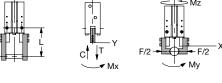


DCT-16, -16-RE

Angular Grippers | Dimensions and Technical Specifications







	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]
Capacities are per set of jaws a	nd are not simultaneous

Dimensions and technical information are subject to change without notice

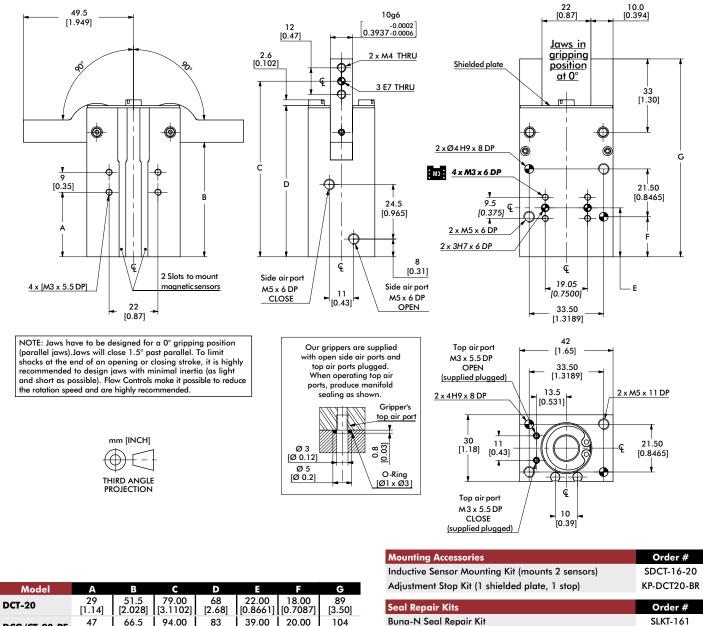
GR-ANG

6



DCT-20, -20-RE

Angular Grippers | Dimensions and Technical Specifications



 DCG/CT-20-RE
 47
 66.5
 94.00
 83
 39.00
 20.00
 104

 Dimensions in mm [in]
 [2.618]
 [3.7008]
 [3.27]
 [1.5354]
 [0.7874]
 [4.09]

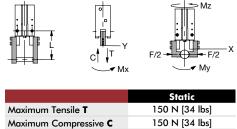
Loading Information



a DOVER COMPANY



Viton[®] Seal Repair Kit



SLKT-161V

 Maximum Compressive C
 150 N [34 lb5]

 Maximum Moment Mx
 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

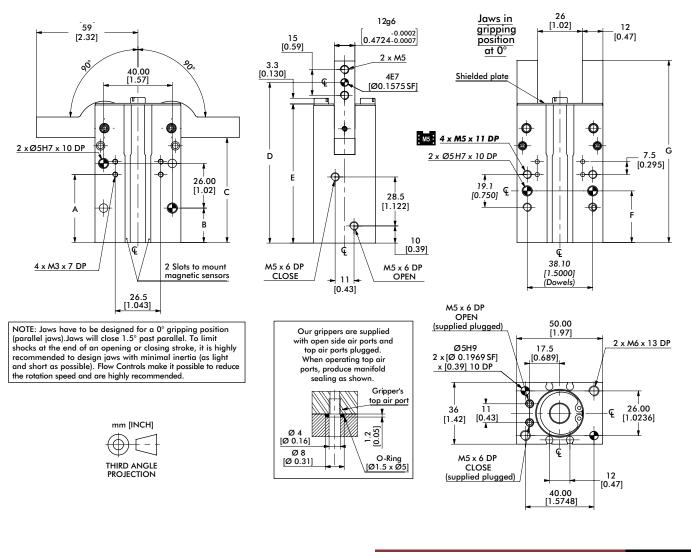
GR-ANG 7

Dimensions and technical information are subject to change without notice





Angular Grippers | Dimensions and Technical Specifications

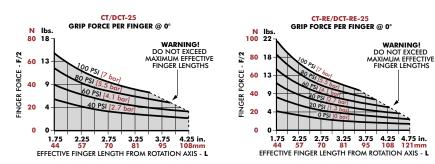


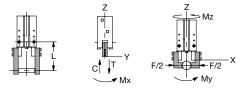
Model	А	В	С	D	E	F	G
DCT-25	39.5	20.00	61	93.50	81	30.00	106
	[1.555]	[0.79]	[2.40]	[3.6811]	[3.19]	[1.1811]	[4.17]
DCT-25-RE	60.5	25.00	82	114.50	102	51.00	127
	[2.382]	[0.98]	[3.23]	[4.5079]	[4.02]	[2.0079]	[5.00]
Dimensions in mm	n [in]						

Mounting Accessories	Order #
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 #
Bung-N Seal Repair Kit	SLKT-162

Loading	Information

SLKT-162V





	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]
Capacities are per set of jaws a	nd are not simultaneous

GR-ANG

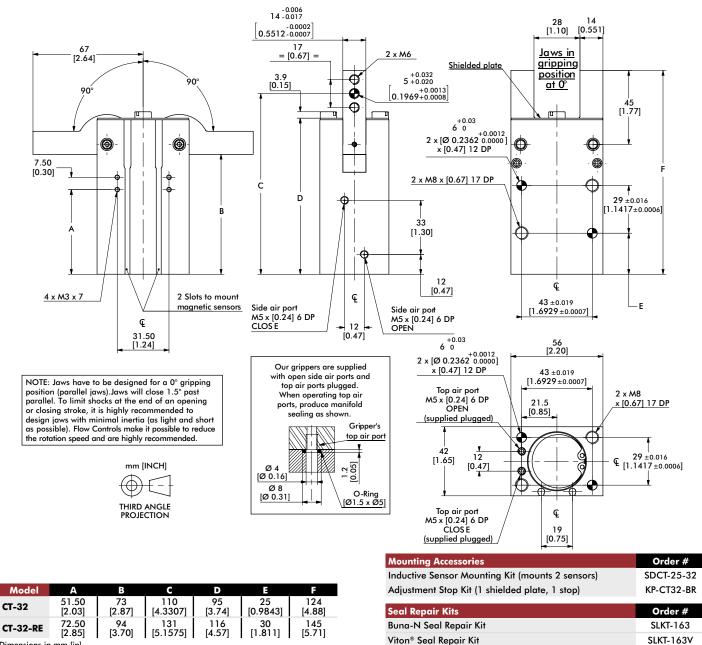
8

Viton[®] Seal Repair Kit



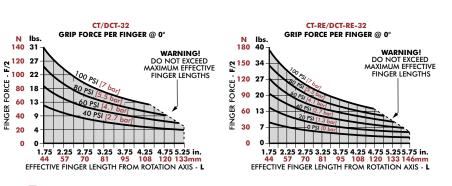
CT-32/-32-RE

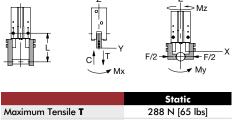
Angular Grippers | Dimensions and Technical Specifications



Dimensions in mm [in]

Loading Information





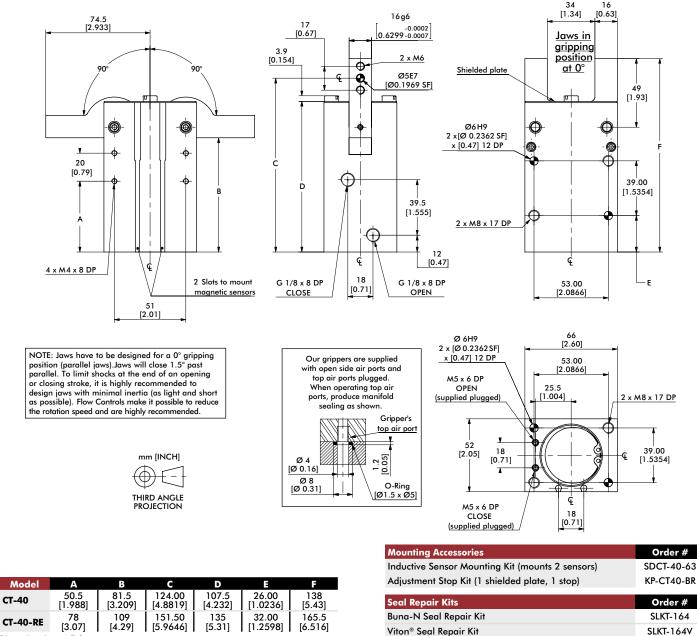
Static				
288 N [65 lbs]				
288 N [65 lbs]				
16 Nm [142 in-lbs]				
16 Nm [142 in-lbs]				
16 Nm [142 in-lbs]				
Capacities are per set of jaws and are not simultaneous				



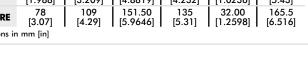
Dimensions and technical information are subject to change without notice

CT-40/ -40-RE

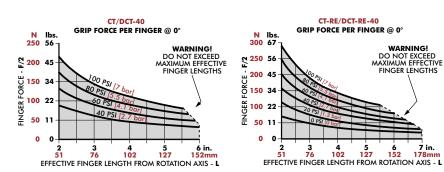
Angular Grippers | Dimensions and Technical Specifications



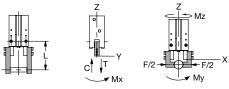
Dimensions in mm [in]



SLKT-164 SLKT-164V



Loading Information



	Static			
Maximum Tensile T	420 N [94 lbs]			
Maximum Compressive C	420 N [94 lbs]			
Maximum Moment $\mathbf{M}_{\mathbf{X}}$	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				

Dimensions and technical information are subject to change without notice

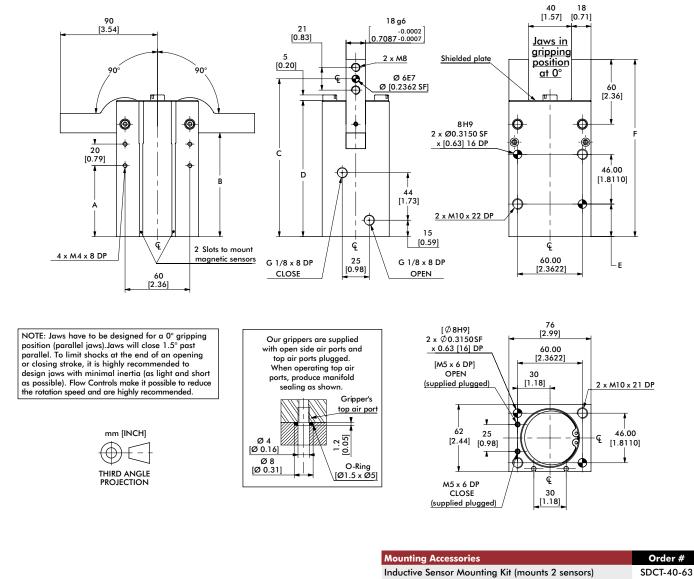
GR-ANG 10

7 in. 178mm



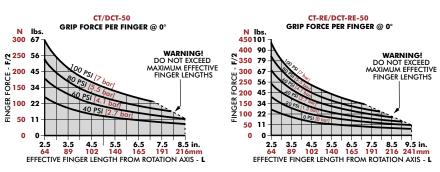
CT-50/-50-RE

Angular Grippers | Dimensions and Technical Specifications

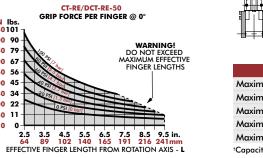


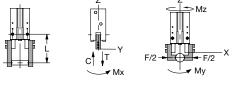
Model	Α	В	С	D	E	F
CT-50	65.5	96	146.00	126	30.00	164
	[2.579]	[3.78]	[5.7480]	[4.96]	[1.1811]	[6.46]
CT-50-RE	102.50	133	183.00	163	40.00	201
	[4.035]	[5.24]	[7.2047]	[6.42]	[1.5748]	[7.91]
Dimensions in	mm [in]					

Loading Information



Adjustment Stop Kit (1 shielded plate, 1 stop) KP-CT50-BR Seal Repair Kits Order # Buna-N Seal Repair Kit SLKT-165 Viton[®] Seal Repair Kit SLKT-165V





	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

Dimensions and technical information are subject to change without notice

