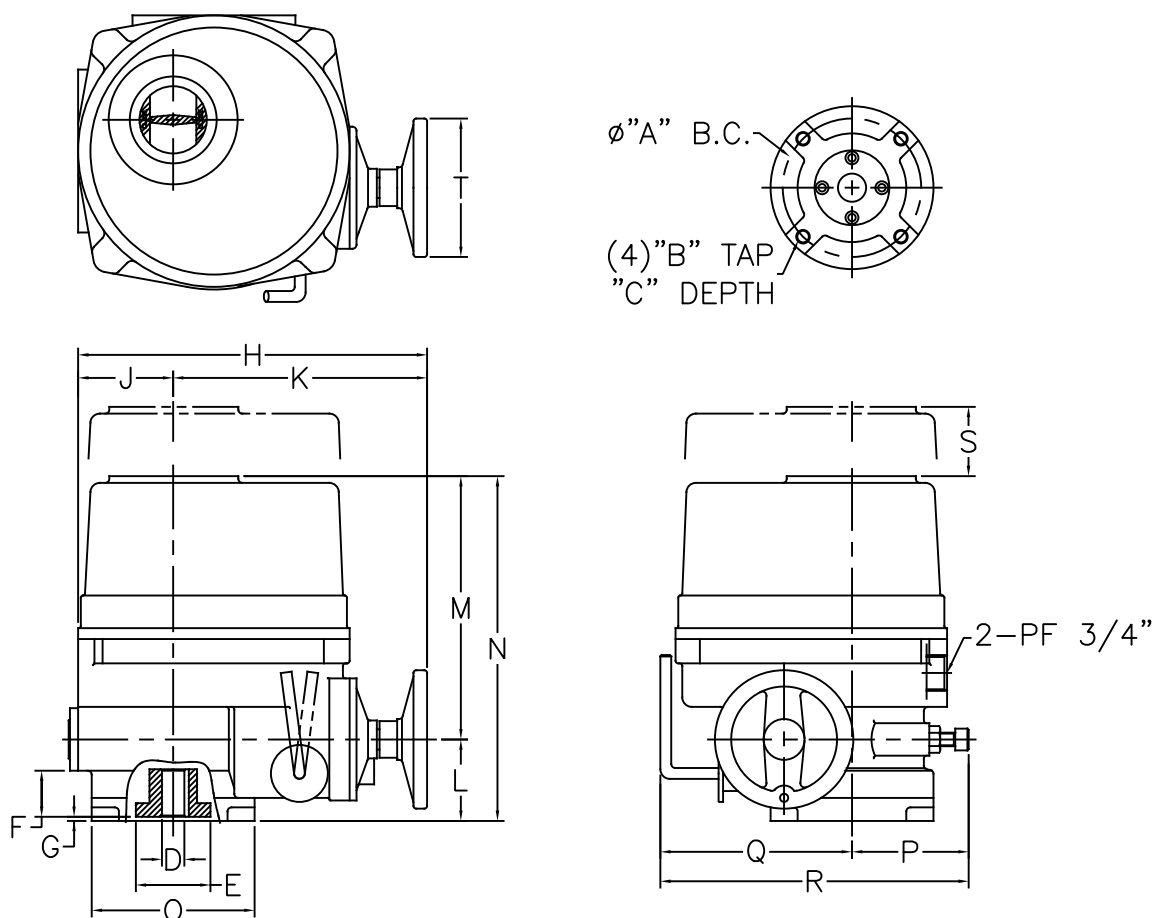


Dimensions



NOTE: When installing an actuator, proper clearance around the actuator is required to ensure that the cover can be removed to allow for maintenance. Refer to dimension "S".

Model	FCEL-6	FCEL-9	FCEL-15	FCEL-19	FCEL-28	FCEL-38	FCEL-50	FCEL-60	FCEL-80	FCEL-100
ISO 5211 FLANGE	F-07		F-07/F-10		F-10/F-12		F-12/F-14			
A	2.76		2.76 / 4.02		4.02 / 4.92		4.92 / 5.51			
B	M8		M8 / M10		M10 / M12		M12 / M16			
C	.47		.59		.71		.87			
D	.87		.87		1.26		1.65			
E	2.17		2.24		2.95		3.35			
F	1.69		1.69		2.05		2.32			
G	.08		.08		.08		.08			
H	9.09		10.28		11.22		12.8			
J	2.21		3.03		3.27		3.9			
K	6.89		7.25		7.95		8.9			
L	2.36		2.36		2.76		3.07			
M	8.39		8.39		9.84		11.14			
N	10.75		10.75		12.6		14.21			
O	4.02		4.73		5.71		6.89			
P	2.68		3.35		3.9		4.57			
Q	4.45		5.47		6.26		7.52			
R	7.13		8.82		10.16		12.09			
S	4.25		4.25		5.12		7.01			
T	4.02		4.92		4.92		6.69			

Specifications

STANDARD SPECIFICATIONS	
ENCLOSURE	WATERTIGHT IP67, NEMA 4 & 6
AMBIENT TEMPERATURE	FROM -4° TO +158° FAHRENHEIT 300°FAHRENHEIT FOR 1 HOUR
POWER SUPPLY	120 VAC 1-PHASE
CONTROL POWER	110/220 VAC 1-PHASE, 50/60Hz
DUTY CYCLE	SEE PERFORMANCE CHART
TORQUE SWITCHES	(2) OPEN/CLOSE (EXCEPT FCEL-06,FCEL-009)
LIMIT SWITCHES	(2) OPEN/CLOSE, 250 VAC 15A RATING
STALL PROTECTION	INTERNAL THERMAL PROTECTION OPEN 300°F/CLOSE 207°F
TRAVEL ANGLE	90 ±5°
INDICATOR	CONTINUOUS POSITION INDICATOR
MANUAL OVERRIDE	HAND/AUTO DECLUTCHING MECHANISM
SELF LOCKING	PROVIDED BY MEANS OF WORM GEARING
MECHANICAL STOPS	EXTERNAL ADJUSTABLE SCREWS
SPACE HEATER	20 WATTS (24/120/220 VAC AND 24 VDC) ANTI-CONDENSATION
CONDUIT ENTRIES	TWO 3/4" NPT
LUBRICATION	SHELL GADUS S2 V220 2
MATERIALS	STEEL, ALUMINUM ALLOY, ALUMINUM BRONZE
SURFACE TREATMENT	ANODIZING
EXTERNAL COATING	POLYESTER (TGIC-FREE)

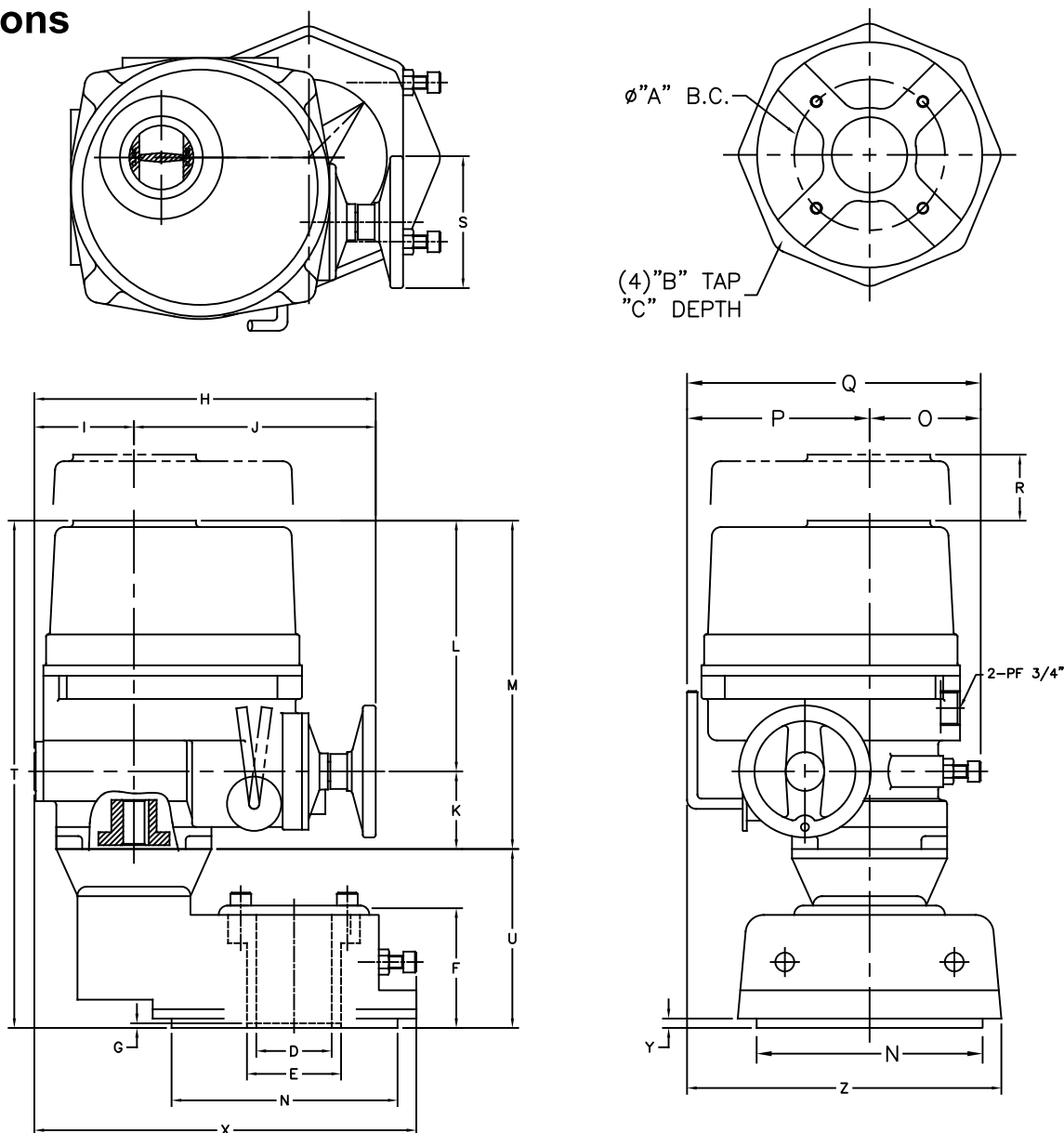
OPTIONAL ITEMS	
POWER SUPPLY	220VAC 1-PHASE 380/440VAC 3-PHASE
EXP	EXPLOSION & WATER PROOF ENCLOSURE CLASS C&D/CLASS IIE,F,&G EXD IIB T4 IP67
IP68	WATERTIGHT ENCLOSURE IP68/1 BAR 72h
ALS	AUXILIARY OPEN, CLOSED LIMIT SWITCHES
ATS	AUXILIARY OPEN, CLOSED TORQUE SWITCHES
PIU	1K Ohm FEEDBACK POTENTIOMETER
PCU	PROPORTIONAL CONTROL UNIT 4-20mA, DC 1~5V OR DC 2~10V INPUT
CPT	CURRENT POSITION FEEDBACK TRANSMITTER
LCU	LOCAL CONTROL UNIT (NEMA-4) LOCAL/REMOTE SELECTOR SWITCH OPEN/STOP/CLOSE SELECTOR SWITCH
IMS	INTEGRAL MOTOR STARTER (ON/OFF ACTION)
EXT	EXTENDED TRAVEL ANGLE 120°, 135°, 180°, 270°, 360°
DCM	24 VDC MOTOR (FCEL-6 THRU FCEL-28)
FIELD-BUS	PROFI-BUS, MOD-BUS, CAN-BUS

PERFORMANCE

TYPE	MAX OUTPUT TORQUE IN LBS	OPERATING TIME 60/50 hz 90°	DUTY CYCLE (CSA) THERMALLY PROTECTED	RATED CURRENT (AMPS)				NUMBER OF HANDLE TURN	WEIGHT LBS
				1 PHASE		3 PHASE			
				120vac	220vac	380vac	440vac		
FCEL-6	531	14/17	50%	0.7A	.38A	.15A	.15A	8.5	20
FCEL-9	796	14/17	50%	1.1A	.51A	.18A	.18A	8.5	20
FCEL-15	1328	17/20	50%	1.6A	.75A	.30A	.30A	10.0	25
FCEL-19	1682	17/20	50%	1.6A	.75A	.30A	.30A	10.0	25
FCEL-28	2478	20/24	50%	1.6A	.75A	.32A	.32A	12.5	31
FCEL-38	3363	20/24	30%	2.3A	1.1A	.34A	.32A	12.5	31
FCEL-50	4425	20/24	25%	3.5A	1.2A	.47A	.47A	12.5	31
FCEL-60	5310	24/29	25%	3.5A	1.2A	.47A	.47A	14.5	53
FCEL-80	7080	24/29	25%	3.8A	1.8A	.75A	.75A	14.5	53
FCEL-100	8850	24/29	25%	4.0A	2.0A	.85A	.85A	14.5	53

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Dimensions



Model	FCEL-150	FCEL-200	FCEL-250	FCEL-300		FCEL-150	FCEL-200	FCEL-250	FCEL-300
ISO 5211 FLANGE	F-16					F-16			
A	6.5				M	14.21			
B	M20				N	10.47			
C	1.18				O	4.57			
D	2.95				P	7.52			
E	3.94				Q	12.09			
F	4.96				R	7.01			
G	.28				S	6.69			
H	12.8				T	21.89			
I	3.90				U	7.68			
J	8.90				X	15.28			
K	3.07				Y	0.63			
L	11.14				Z	12.52			

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Specifications

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CONTROL POWER	110/220 VAC 1-PHASE, 50/60Hz
DUTY CYCLE	SEE PERFORMANCE CHART
TORQUE SWITCHES	(2) OPEN/CLOSE (EXCEPT FCEL-06,FCEL-009)
LIMIT SWITCHES	(2) OPEN/CLOSE, 250 VAC 15A RATING
STALL PROTECTION	INTERNAL THERMAL PROTECTION OPEN 300°F/CLOSE 207°F
TRAVEL ANGLE	90 ±5°
INDICATOR	CONTINUOUS POSITION INDICATOR
MANUAL OVERRIDE	HAND/AUTO DECLUTCHING MECHANISM
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PERFORMANCE

TYPE	MAX OUTPUT TORQUE IN-LBS	OPERATING TIME 60/50 hz 90°	DUTY CYCLE (CSA)	RATED CURRENT (AMPS)				NUMBER OF HANDLE TURN	WEIGHT LBS
				1 PHASE		3 PHASE			
				120vac	220vac	380vac	440vac		
FCEL-150	13020	72/87	25%	3.5A	1.2A	.47A	.47A	43.5	132
FCEL-200	17360	72/87	25%	3.8A	1.8A	.75A	.75A	43.5	132
FCEL-250	21700	72/87	25%	4.0A	2.0A	.85A	.85A	43.5	132
FCEL-300	26552	96/116	25%	4.0A	2.0A	.85A	.85A	43.5	132

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