424
(16.71")

SMALL
MOTOR

240*
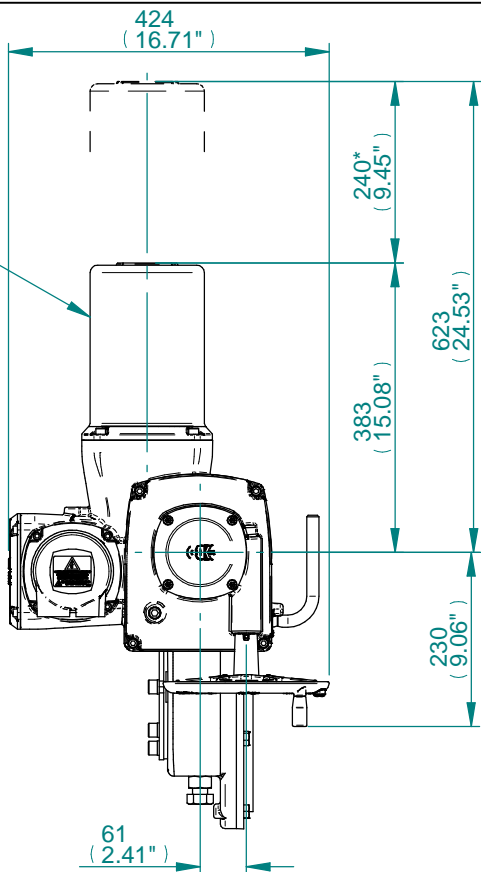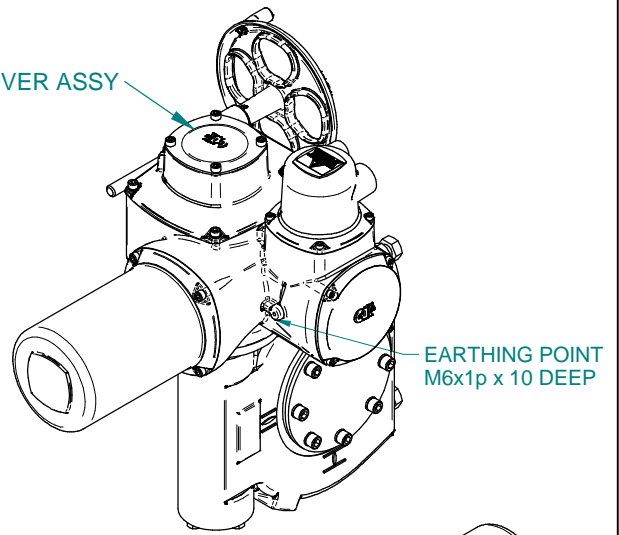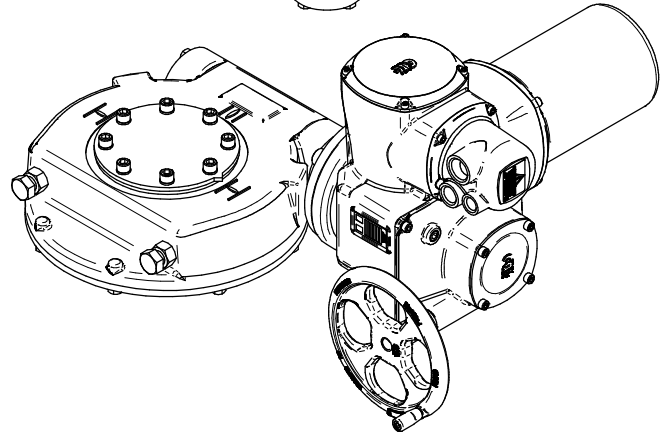(9.45")

623
(24.53")

383
(15.08")

230
(9.06")

61
(2.41")

TOP COVER ASSY

EARTHING POINT
M6x1p x 10 DEEP

12*
(0.47")

254
(9.98")

PLUG &
SOCKET

100*
(3.93")

205
(8.06")

CONDUIT
ENTRIES

SWITCH MECH
COVER

IDENTIFICATION
PLATE

MATING POSITION FOR
NON-THRUST BASE
(F10/FA10)

Ø 220
(8.65")
HANDWHEEL DIAMETER

HAND LEVER

"X"
REFER SHEET 2

"Y" MAX. STEM ENTRY
REFER SHEET 2

"Z"
REFER SHEET 2

TOP COVER
ASSY

613
(24.14")

522
(20.56")

188
(7.40")

OIL FILLER /
DRAIN PLUG

178
(7.00")

366
(14.40")

NOTE:
1. GEARBOX RATIOS: 70:1.
2. GEARBOX BASEPLATE: F16/FA16, F25/FA25 & F30/FA30.
3. DIMENSIONS WITH '*' INDICATE COVER REMOVAL ALLOWANCE
4. THE INTERFACE PROVIDED FOR MOUNTING THE ACTUATOR OR SECOND STAGE GEARBOX
   ONTO THE VALVE SHOULD CONFORM TO GOOD ENGINEERING PRACTICES, ENSURING
   ADEQUATELY TOLERANCED LIMITS FOR PARALLELISM, PERPENDICULARITY AND CONCENTRICITY.
5. ROTORK CANNOT BE HELD LIABLE FOR DAMAGE TO OUR EQUIPMENT CAUSED BY EXCESSIVE
   LOADING FROM COVER TUBES, HANDWHEEL AND HAND LEVER.

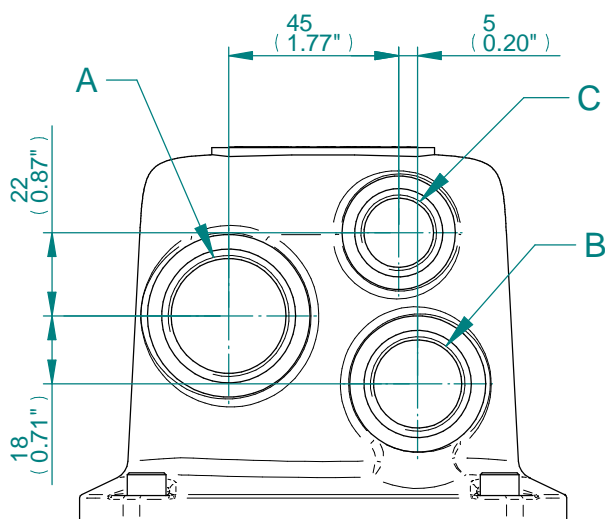| PARAMETER	VALUE	DESCRIPTION
DRAWING TYPE	A	INSTALLATION DRAWING
ACTUATOR	3	CK(R)250/500
GEARBOX1	W6	IW6
GEARBOX2	N0	NO.G.B.2
CENTRONIK / TERMINAL	S	SET/3 COND.
MECHANISM / MOTOR	S	STD.MECH/SMALL MOT.
HANDWHEEL / REAR / FRONT	0	STD.H.W./STD.REAR/STD.FRNT.
ORIENTATION	0	STD.ORIENT.

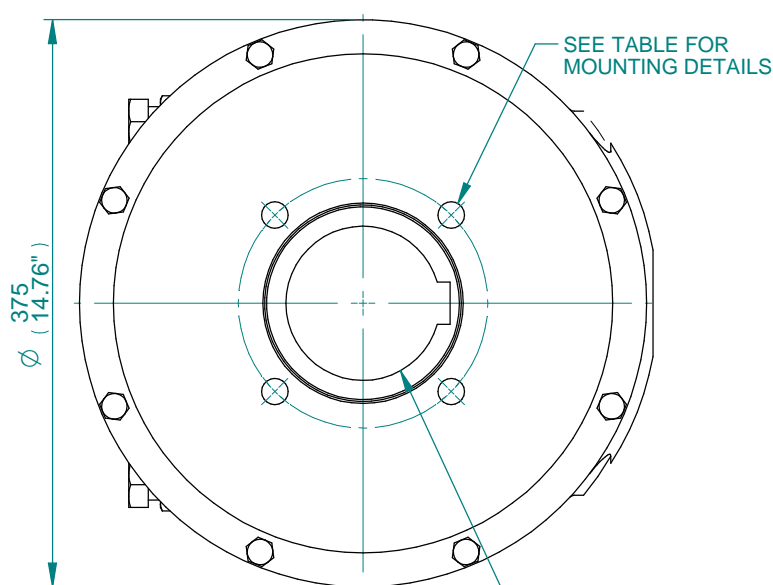| CK range	Drawn	JB	14-05-18	Title	DIMENSIONAL DRAWING, CK250/500 & CKR250/500, IW6,3 CONDUIT ENTRIES, SMALL MOTOR, STANDARD ORIENTATION	A4	Doc Number	Ver No	Scale	Sheet No
	Checked	FT	14-05-18				A3W6N0SS00X	1	NTS	1 of 2
	Approved	FT	14-05-18		This drawing and the information it contains are property of Rotork Controls Limited, and they will not be reproduced or disclosed, in whole or in part, without the prior written consent of Rotork.					

CK-DS

CONDUIT ENTRY HOLE

Hole	Metric	NPT
A	M32	1 ¼"
B	M25	¾"
C	M20	¾"

45 (1.77")

5 (0.20")

A

C

B

22 (0.87")

18 (0.71")

CONDUIT ENTRIES

SEE TABLE FOR MOUNTING DETAILS

Ø 375 (14.76")

SEE TABLE FOR BORE & KEY DETAILS

IW6 GEARBOX MOUNTING DETAILS FOR F16/FA16
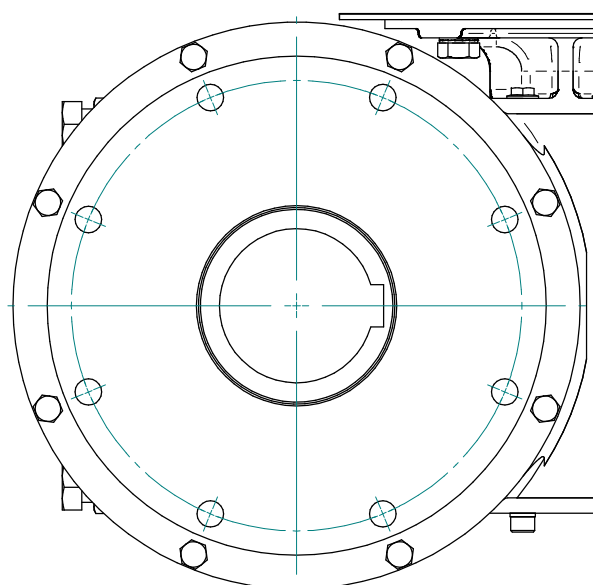
IW6 GEARBOX MOUNTING DETAILS FOR F25/FA25 & F30/FA30

BASEPLATE	X	Y	Z
STANDARD THICKNESS	70	113	139
FILLED THICKNESS	70	113	139
WAFER THICKNESS	93	136	162

	MAX BORE SQ KEY		MAX BORE RECTANGULAR KEY	
STD	BORE	KEY	BORE	KEY
BS4235	-	-	102	28X16
BS46	3.625"	1"SQ	3.75"	1"X3/4"
ANSI B17.1	3.75"	7/8"SQ	3.875"	1"X3/4"

BASEPLATE DETAILS		
TYPE	**BASEPLATE**	**HOLE DETAILS (45° OFF CENTRES)**
ISO F16	STANDARD	4 HOLES M20X20 (0.79") DEEP
		ON Ø165.0 (Ø6.50") P.C.
FA16		4 HOLES 3/4"UNCX20 (0.79") DEEP
		ON Ø165.0 (Ø6.50") P.C.
TYPE	**BASEPLATE**	**HOLE DETAILS (22.5° OFF CENTRES)**
ISO F25	STANDARD	8 HOLES M16X16 (0.63") DEEP
		ON Ø254.00 (Ø10.00") P.C.
FA25		8 HOLES 5/8"UNCX16 (0.63") DEEP
		ON Ø254.00 (Ø10.00") P.C.
ISO F30	FILLED & WAFER	8 HOLES M20X30 (1.18") DEEP
		ON Ø298.00 (Ø11.73") P.C.
FA30		8 HOLES 3/4"UNCX30 (1.18") DEEP
		ON Ø298.00 (Ø11.73") P.C.

CK-DS