Appendix C

Shop Drawings of City Supplied Valve

Submittal Data Sheet

Date: 4/7/2010

City of Winnipeg c/o Flo-Crest Equipment
52-A Caithness Street
Winnipeg, Manitoba

Cust. P.O. #: NA
Fact Order #: TBD
Fact SO #: TBD
Rev. #: 0

Factory Item	Cust. Item	Qty	Description	Part No.
2	**2**	1	Crispin/K-Flo 48" AWWA C504 Butterfly Valve w/ Worm Gear Manual Actuator and Hand Wheel	KK4832

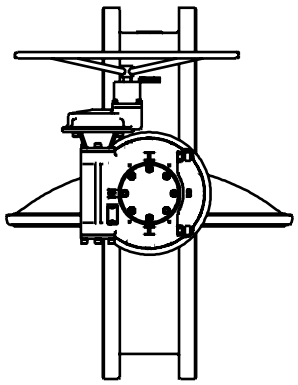
Style:	473	AWWA Butterfly Valve 24"-168" - Flanged - 150B
Size:	48	48 Inch
End Connection:	Flg - 150	Flanged Drilling; ANSI 125/150
Body Material:	CI	Cast Iron, ASTM A126 ClassB
Packing:	Packing	PTFE; Self Adjusting
Seat Material:	Buna	BUNA - N (nitrile), D2000
Service Class:	150B	AWWA Class 150B
Disc:	DI	Ductile Iron with 316 Stainless Steel Edge
Shaft:	304	Type 304 Stainless Steel, ASTM A276
Paint:	47	12 mils minimum of Crispin Blue Epoxy Tnemec Series 141 "pota-pox" (NSF Std. 61) on Interior and Exterior
Act Type:	RTG-IW7R-HW	Rorork Gear IW7R w/ Handwheel

SPECIAL FEATURES

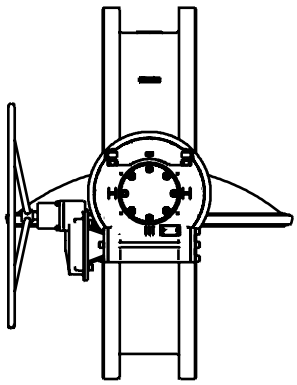
Flange Bolt Holes to be Spot Faced for Nuts
Interior and Exterior to be Holiday Free (low voltage)
Seat Test to be performed in Vertical Position
City of Winniped to be given 2 week notice prior to testing

RELATED DOCUMENTS

NSF 61 UL Certification
Tnemec Series 141 Pota-Pox Specification Data Sheets
Crispin/K-Flo Standard Terms and Warranty
Letter of Compliance with AWWA C504



ASS'Y "B1" (STD. MOUNTING)



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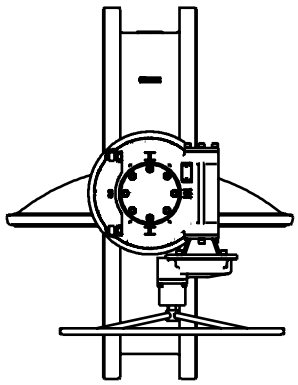

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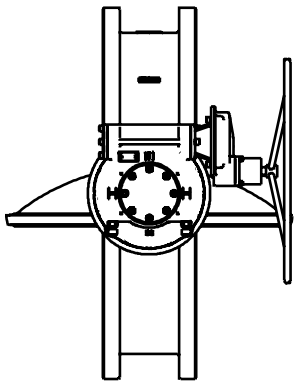

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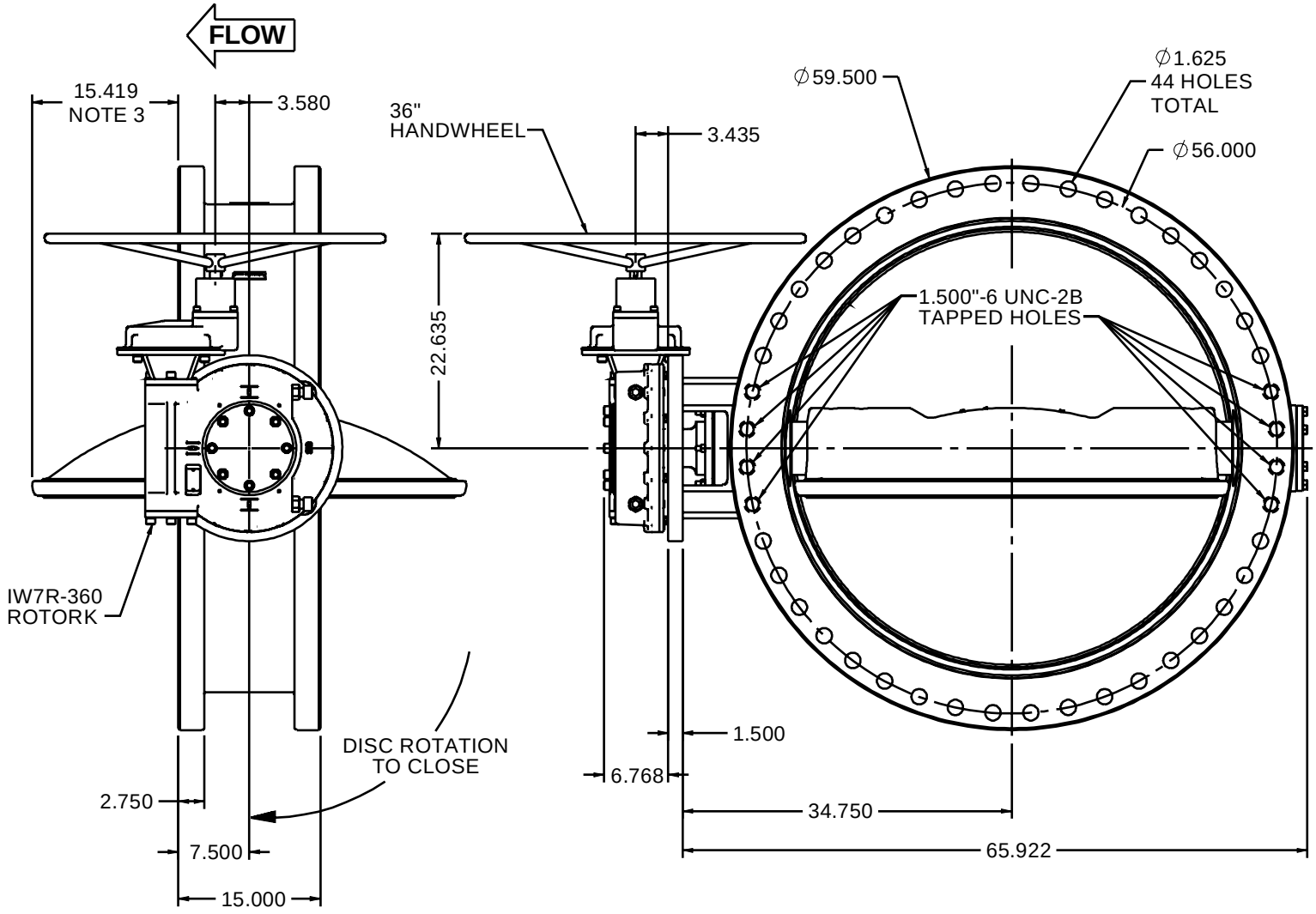
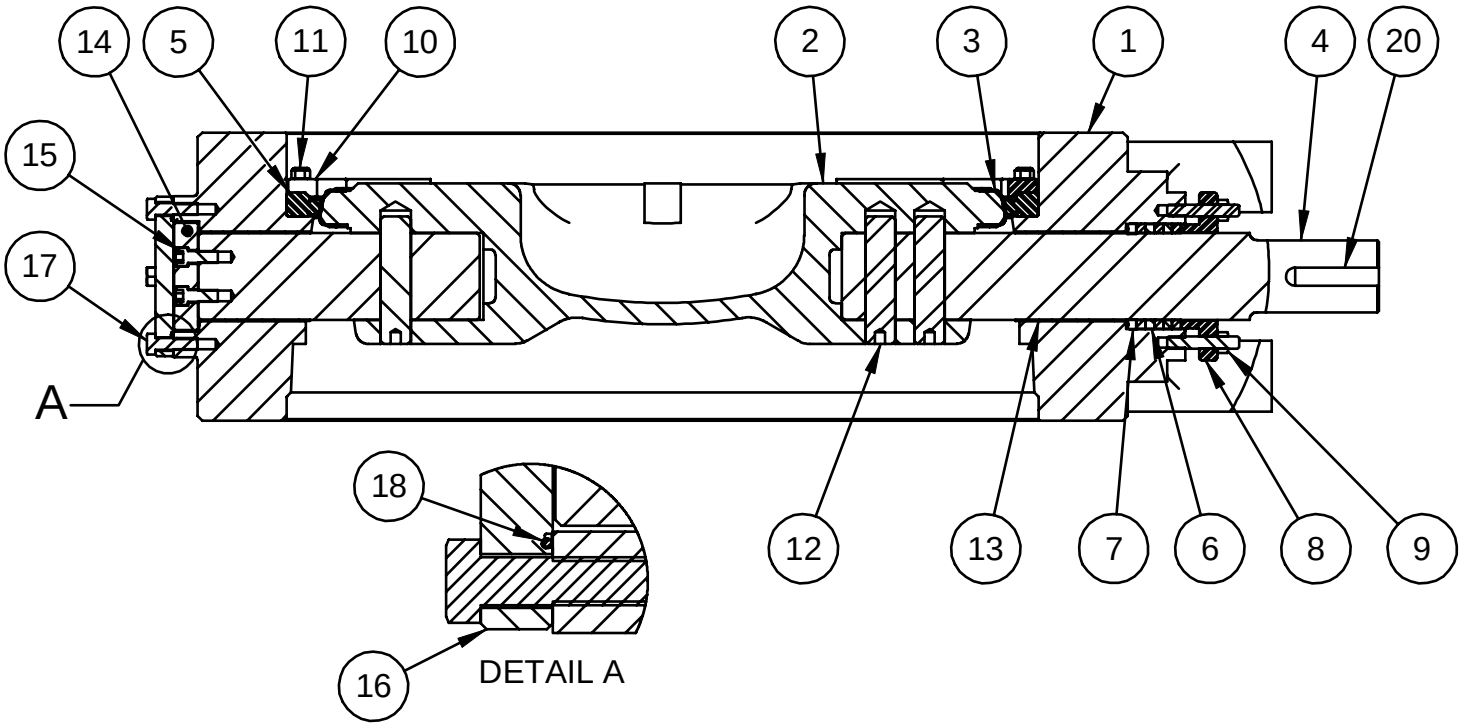


NOTES:
1. 150 PSIG MAXIMUM WORKING PRESSURE.
2. THIS VALVE CONFORMS TO AWWA C504.
3. "Q" IS THE MINIMUM ALLOWABLE PIPE OR FLANGE INSIDE DIAMETER AT THE CENTERED BODY FACE TO PROTECT THE DISC SEALING EDGE FROM DAMAGE WHEN OPENING THE VALVE.
4. FLOW RECOMMENDED IN DIRECTION SHOWN.
5. VALVE MAY BE INSTALLED WITH SHAFT IN EITHER HORIZONTAL OR VERTICAL POSITION.
6. ROTATE HANDWHEEL CLOCKWISE TO CLOSE VALVE.
7. ALL DIMENSIONS ARE IN INCHES.

K-FLO
BUTTERFLY VALVES
BY
CRISPIN VALVES
800-247-VALVE
WWW.CRISPINVALVE.COM

48"-150B FLANGED
BUTTERFLY VALVE WITH
ROTORK IW7-360
AND 36" HANDWHEEL

REDRAWN:					
CHECKED:		SIZE	DWG. NO.	REV
DRAWN: C. GEARY	12/18/09	C	48-150B IW7 HW	0



ITEM	DESCRIPTION	MATERIAL	REMARKS
1	BODY	CAST IRON	ASTM A126 CLASS B
2	DISC	DUCTILE IRON	ASTM A536 GR. 65-45-12
3	DISC EDGE	316 STAINLESS STEEL	ASTM A240 TYPE 316
4	UPPER & LOWER SHAFT	304 STAINLESS STEEL	ASTM A276 TYPE 304
5	SEAT	BUNA-N	ASTM D2000
6	PACKING	TEFLON COMPOSITE FIBER	PALMETTO NO. 1392-H OR EQUIV.
7	V-TYPE COMPRESS PACKING	BUNA-N	ASTM D2000
8	GLAND PLATE	RED BRASS	ASTM B62 UNS C83600
9	STUDS & NUTS (GLAND)	304 STAINLESS STEEL	ASTM A276 TYPE 304
10	RETAINING RING SEGMENTS	316 STAINLESS STEEL	ASTM A743 GRADE CF8M
11	STUDS & NUTS (RING)	304 STAINLESS STEEL	ASTM A276 TYPE 304
12	SHAFT PIN	410 STAINLESS STEEL	ASTM A276 TYPE 410
13	BEARING	TFE - 316 STAINLESS STEEL BACKING	TFE/ASTM A240 TYPE 316
14	THRUST COLLAR	304 STAINLESS STEEL	ASTM A240 TYPE 304
15	SCREWS (THRUST COLLAR)	304 STAINLESS STEEL	ASTM F594 GRADE 1
16	COVER PLATE (BOTTOM)	410 STAINLESS STEEL	ASTM A240 TYPE 410
17	SCREW (COVER PLATE)	304 STAINLESS STEEL	ASTM A193 GRADE B8
18	SEAL O-RING	BUNA-N	ASTM D2000
20	KEY	CARBON STEEL	ASTM A108 UNS G10180

REV.	DATE	BY	APPD	REVISION
1	2009 06-18	CTG		REVISED PARTS LIST AND MATERIALS

K-FLO AWWA
BUTTERFLY VALVES
FROM CRISPIN VALVES

TITLE:
CROSS-SECTION & MATERIAL LIST FOR 24" TO 72", FLANGED BUTTERFLY VALVE FIGURE 473

DWN. BY:	DATE:
BJL	2005 8-11
DATE:	APPD. BY

DWG. NO. 101473-ML

REV. 1

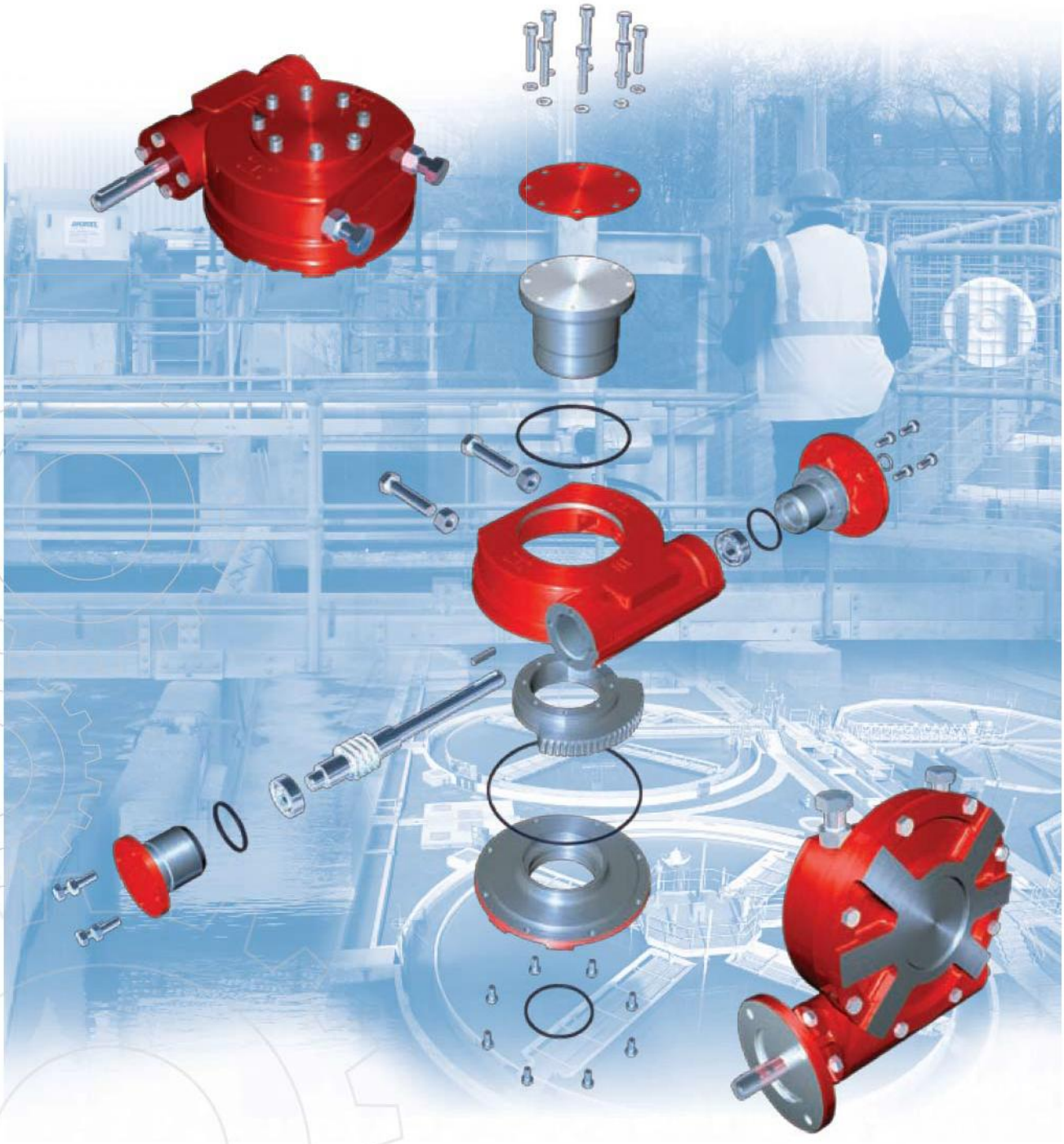
SIZE: A

SHEET 1 OF 1

IW Quarter-turn

Gearbox Series

rotork®
Gears



Cast Iron Housing Gearboxes - IW Quarter-turn Gear Series

Publication RGi110E
Issue 10/08

IW Gearbox Series

IW Quarter-turn Gearbox Series

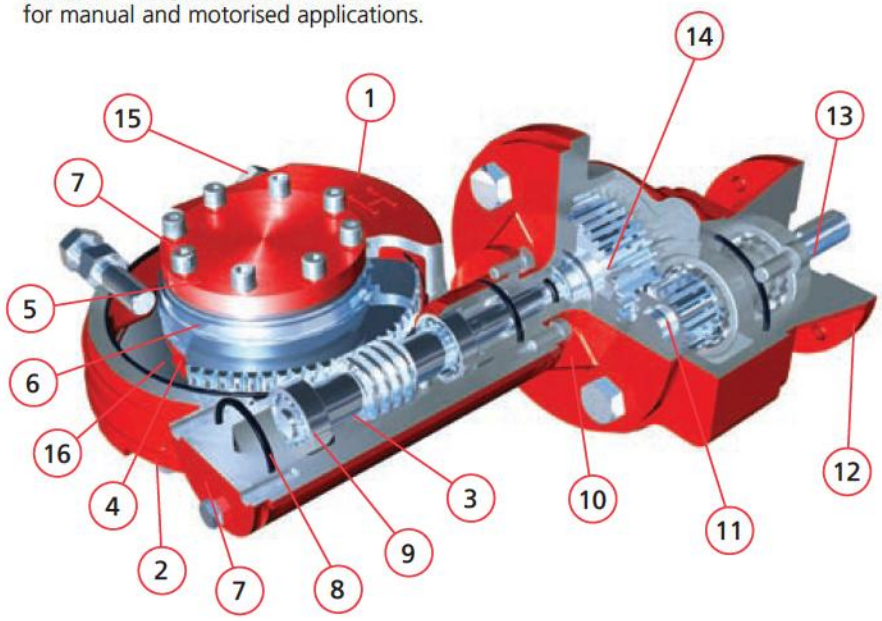
Description

The IW series of quadrant worm operators has been designed with customer stocking in mind, and features a removable steel output sleeve to facilitate bore and keyway machining. This separate output sleeve can be positioned through 90° steps on the IW3 & through 45° steps on the IW4 to IW11. The baseplate can be positioned through 45° steps on the IW3 to IW5 and through 22.5° steps on the IW6 to IW12. This facility allows for on or off centre mounting on the valve stool without special machining.

Operating temperature normally ranges from -40 °F to +250 °F, although other temperature ranges are available on request. Standard input (for actuation purposes) and output flanges are to MSS standard. However, equivalent standards such as ISO & DIN can be supplied.

Application

Rotork Gears IW series operators are quarter-turn devices intended for the operation of ball, plug and butterfly valves as well as power and process dampers. The gearboxes are suitable for manual and motorised applications.



Features

- Totally enclosed gearing
- Grease filled for life & fully sealed
- Comprehensive gear ratios combined with a selection of auxiliary input spur gear reducers
- Angular contact bearings supporting worm shaft
- Removable output sleeve
- Repositionable baseplate facility
- Adjustable mechanical stops (at 0° and 90° ±5°)

Environmental specification

- Enclosure: IP67 standard
- Temperature:
  -40 °F to +250 °F
  (-40 °C to +120 °C)

Options

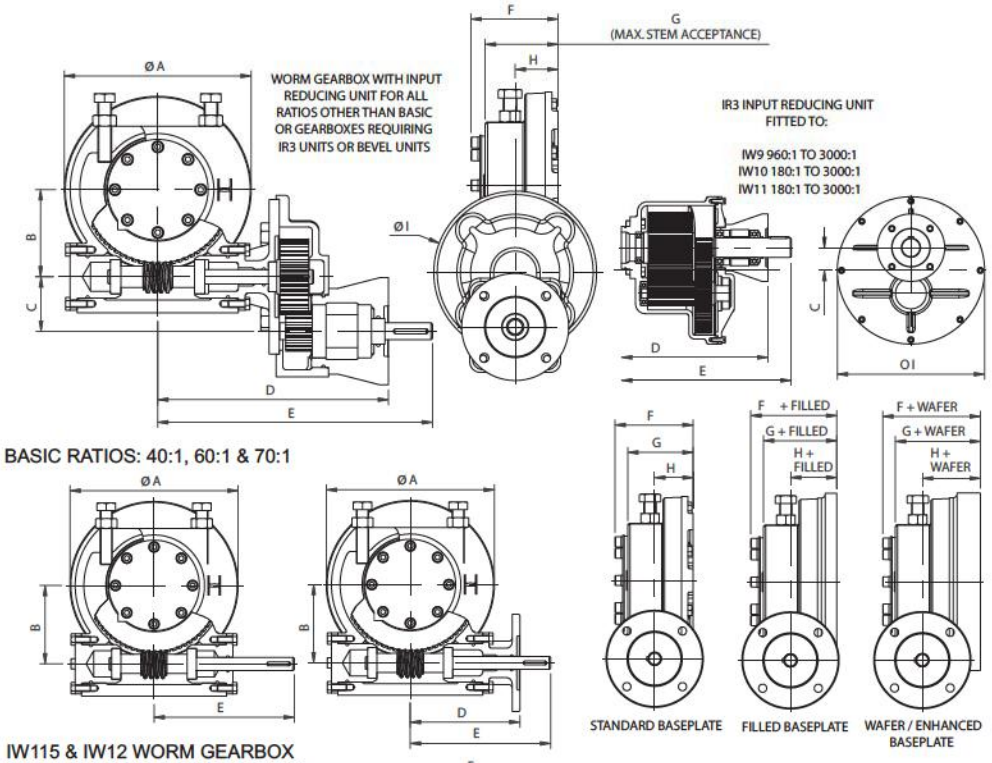
- Ductile Iron
- IP68
- AWWA
- ATEX
- Nuclear
- All types of environment
- High & low temperatures
- Padlockable handwheels
- Limit switches
- Lever arms
- Travelling nut for applications requiring less than 90° travel and more than 90°
- Modulating & multi-turn
- Input flanges for motorisation

No.	Description	Material	UK Standard	USA Standard	DIN Standard
1	Gearcase (IW3 to IW8)	Cast Iron	BS1561 EN-GJL-250	ASTM A48 35B/40B	GG25
	Gearcase (IW9 to IW12)	SG Iron	BS1563 EN-GJS-450-10	ASTM A536 65-45-12	GGG40
2	Baseplate	Cast Iron	BS1561 EN-GJL-250	ASTM A48 35B/40B	GG25
3	Worm Shaft	Steel	BS970 045M10 or 605M36T	AISI/SAE 1010 or 4340	C 10 or 42 MnMo 7
4	Quadrant	SG Iron	BS1563 EN-GJS-700-2	ASTM A536 100-70-03	GGG70
5	Position Indicator	Steel	BS970 070M20	AISI/SAE 1023	C 22
6	Output Sleeve	Steel	BS970 070M20 or BS970 080M40 or BS970 070M55 or	AISI/SAE 1023 or AISI/SAE 1040 or AISI/SAE 1055 or	C 22 C 40 C 55
7	Drive Screws	Carbon Steel	BS4168		
8	Seal	Nitrile Rubber			
9	Bearing	Angular Contact Ball Bearings			
10	Adaptor	Cast Iron	BS1561 EN-GJL-250	ASTM A48 35B/40B	GG25
11	Reducer Gearcase	Cast Iron	BS1561 EN-GJL-250	ASTM A48 35B/40B	GG25
12	Input Housing	Cast Iron	BS1561 EN-GJL-250	ASTM A48 35B/40B	GG25
13	Input Shaft	Steel	BS970 605M36T	AISI/SAE 4340	42 MnMo 7
14	Spur Gear	Steel	BS970 817M40T	AISI/SAE 4340	40 NiCrMo 8 - 4
15	Fasteners	Steel	BS3692		
16	Grease	Renolit CLX2			

Note: Because of the company's policy of continuous improvement, Rotork Gears reserves the right to change specification details without prior notice.

Established Leaders in Actuation Technology

Gearbox IW Series



		Shaft Diameter (inches)					
Gearbox	Ratio	MAN	FA10	FA14	FA16	FA25	FA30
IW3	40 TO 70	0.591	0.591				
IW4	40 TO 70	0.669	0.669				
IW4	80 TO 420	0.787	0.787	0.787			
IW5, IW52	40 TO 70	0.984	0.787	0.984			
IW5, IW52	80 TO 420	0.787	0.787	0.787			
IW6, IW62	70	1.181	0.787	1.181	1.181		
IW6, IW62	140 TO 420	0.787	0.787	0.787			
IW63	140 TO 420	-	0.787	0.787			
IW7, IW72	60	1.181	0.787	1.181	1.181		
IW7, IW72	120 TO 720	1.969	0.787	1.181			
IW8, IW82	60	1.575	-	-	1.575	1.575	
IW8, IW82	120 TO 720	1.969	0.787	1.181	1.575	1.969	
IW9	60	-	-	-	1.575	1.969	
IW9	180 TO 3000	1.969	0.787	1.181	1.575	1.969	
IW10	60	-	-	-	-	1.969	1.969
IW10	180 TO 3000	1.969	0.787	1.181	1.575	1.969	
IW11, IW115	60	-	-	-	-	1.969	1.969
IW11	180 TO 3000	1.969	0.787	1.181	1.575	1.969	
IW115	480 TO 900	1.969	0.787	1.181	1.575	1.969	
IW12, IW13	60	-	-	-	-	2.953	2.953
IW12, IW13	480 TO 900	-	-	1.181	1.575	1.969	
IW115, IW12 & IW13 WITH DOUBLE REDUCING UNITS							
IW115	960 TO 5400	1.969	0.787	1.181	1.575		
IW12, IW13	1920 TO 5400	1.969	0.787	1.181	1.575		
							SHAFT TOLERANCE -0.002

rotork®
Gears

Dimensions and Weights

Gearbox	Ratio	ØA	B	C	D	E	F	G	H	ØI	Weight (lb)
IW3	40, 70	6.69	2.99		4.65	6.22	3.19	2.56	1.77		24
IW4	40, 70	8.58	4.02		5.59	7.17	4.02	3.35	1.97		49
IW4	80, 120, 140, 160, 210, 280	8.58	4.02	2.52	10.59	12.60	4.02	3.35	1.97	7.48	66
IW4	200, 240, 350, 420	8.58	4.02	3.78	11.46	13.46	4.02	3.35	1.97	9.76	77
IW5, IW52	40, 70	11.22	5.35		7.32	9.29	4.96	4.33	2.56		99
IW5, IW52	80, 120, 140, 160, 210, 280	11.22	5.35	2.52	12.32	14.33	4.96	4.33	2.56	7.48	117
IW5, IW52	200, 240, 350, 420	11.22	5.35	3.78	13.19	15.20	4.96	4.33	2.56	9.76	128
IW6, IW62, IW63	70	14.76	7.01		7.32 7.72 for IW6 F10, FA10	9.29	5.20	4.33	2.76		150
IW6, IW62, IW63	140 - 280	14.76	7.01	2.52	12.32	14.33	5.20	4.33	2.76	7.48	174
IW6, IW62, IW63	350 - 420	14.76	7.01	3.78	13.46	15.47	5.20	4.33	2.76	9.76	185
IW7, IW72	60	17.72	8.27		10.63	12.95	6.65	5.51	3.43		265
IW7, IW72	120 - 360	17.72	8.27	4.69	18.11	20.51	6.65	5.51	3.43	11.42	335
IW7, IW72	480 - 720	17.72	8.27	7.05	18.46	20.87	6.65	5.51	3.43	16.06	357
IW8, IW82	60	20.47	9.69		12.05	14.37	7.28	6.10	3.74		397
IW8, IW82	120 - 360	20.47	9.69	4.69	19.53	21.93	7.28	6.10	3.74	11.42	467
IW8, IW82	480 - 720	20.47	9.69	7.05	19.88	22.28	7.28	6.10	3.74	16.06	489
IW9	60	23.46	10.98		14.61	18.94	7.80	6.50	3.94		485
IW9	180 - 720	23.46	10.98	7.05	22.36	24.84	7.80	6.50	3.94	16.06	578
IW9	960 - 3000	23.46	10.98	2.32	23.82	26.22	7.80	6.50	3.94	15.04	639
IW10	60	28.94	13.50		15.63	19.96	8.27	7.09	4.33		728
IW10	180 - 3000	28.94	13.50	2.32	24.84	27.24	8.27	7.09	4.33	15.04	899
IW11	60	31.30	15.00		16.30	20.63	9.65	7.87	4.72		1146
IW11	180 - 3000	31.30	15.00	2.32	25.51	27.91	9.65	7.87	4.72	15.04	1257
IW115	60	31.30	15.00		16.30	20.63	9.65	7.87	4.72		1060
IW115	480, 600, 720 & 900	31.30	15.00	16.02	31.14	33.50	9.65	7.87	4.72	20.47	1698
IW115 WITH SPUR & BEVEL REDUCING UNIT	1440, 1800, 1920, 2160 2400, 2700, 2880, 3600, 4320 & 5400	31.30	15.00	16.02	34.06 35.16 for IW115 1440:1 & 1920:1	-	9.65	7.87	4.72	20.47	1742
IW12, IW13	60	38.27	17.72		18.11	24.02	10.24	9.88	6.54		2205
IW12, IW13	480, 600, 720 & 900	38.27	17.72	16.02	32.95	35.28	10.24	9.88	6.54	20.47	2646
IW12 WITH SPUR & BEVEL REDUCING UNIT	1440, 1800, 1920, 2160, 2400, 2700, 2880, 3600 4320 & 5400	38.27	17.72	16.02	35.87 36.97 for IW12 1440:1 & 1920:1	-	10.24	9.88	6.54	20.47	2690
IW13 WITH SPUR & BEVEL REDUCING UNIT	1440, 1800, 1920, 2160, 2400, 2700, 2880, 3600 4320 & 5400	38.27	17.72	16.02	36.97	-	10.24	9.88	6.54	20.47	2690

All dimensions in inches.

Mounting Options

Gearbox	Max Bore ANSI B17.1 Key		Max Square Bore AF	MSS Flange Standard Baseplate	MSS Flange Filled Baseplate	MSS Flange Wafer Baseplate	Filled Baseplate Thickness	Wafer Baseplate Thickness
	Square	Rectangular						
IW3	1.75	1.75	1.375	FA10 - FA12	FA14	FA16	0.47	1.02
IW4	2.25	2.5	2	FA12- FA14	---	FA16	---	0.98
IW5, IW52	2.75	3	2.375	FA14 - FA16	FA25	FA25	0.39	1.42
IW6, IW62, IW63	3.75	3.875	3.25	FA16 - FA25	FA30	FA30	0	0.91
IW7, IW72	4.875	5.25	4.25	FA25 - FA30	FA25 - FA30	FA35	0.39	1.22
IW8, IW82	5.625	6	4.75	FA25 - FA35	---	FA40 - FA48	---	1.65
IW9	6.5	6.5	5.125	FA30 - FA35 - FA40	FA30 - FA35 - FA40	FA48	0	1.06
IW10	7.375	7.625	6	FA35 - FA40	FA35 - FA40 - FA48	FA60	0	1.26
IW11, IW115	7.375	7.625	5.5	FA35 - FA40 - FA48	FA60	---	0	---
IW12, IW13	9.5	10.25	7	FA40	---	---	---	---
IW12, IW13	11.75	12	9	FA48 - FA60	---	---	---	---

Customer Drive and Orientation Options

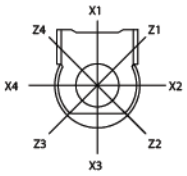
IW3 TO IW13 40:1 TO 70:1

INPUT SHAFT PROJECTION
WITHOUT INPUT REDUCER

POSITION 'A' — FIG.1, FIG.2
POSITION 'B' — FIG.1, FIG.2

DRIVE OPTIONS

KEYWAY POSITIONS WITH GEARBOX IN CLOSED POSITION



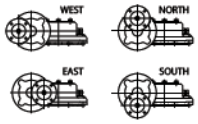
SQUARE BORE

SLOTTED BORE

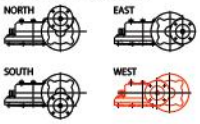
IW4 TO IW9 UP TO 720:1, IW115, IW12 & IW13 RATIOS 480:1, 600:1, 720:1 & 900:1

POSITION 'A' — FIG.1, FIG.2
POSITION 'B' — FIG.1, FIG.2

INPUT REDUCER ORIENTATION POS. A



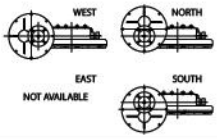
INPUT REDUCER ORIENTATION POS. B



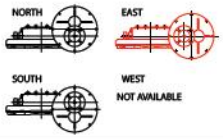
IW9 TO IW11 960:1 TO 3000:1

POSITION 'A' — FIG.1, FIG.2
POSITION 'B' — FIG.1, FIG.2

IR3 INPUT REDUCER ORIENTATION POS. A



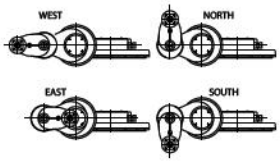
IR3 INPUT REDUCER ORIENTATION POS. B



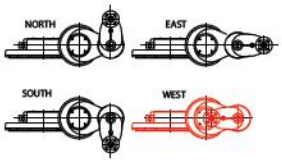
IW115, IW12 & IW13 WITH 2ND SPUR AUXILIARY GEARBOX

POSITION 'A' — FIG.1, FIG.2
POSITION 'B' — FIG.1, FIG.2

2ND AUXILIARY GEARBOX ORIENTATION POS.A
WITH 1ST AUXILIARY SHOWN IN WEST



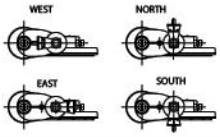
2ND AUXILIARY GEARBOX ORIENTATION POS.B
WITH 1ST AUXILIARY SHOWN IN EAST



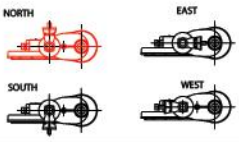
IW115, IW12 & IW13 WITH 2ND BEVEL AUXILIARY GEARBOX

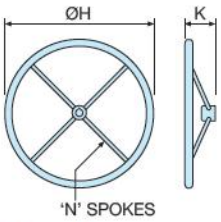
POSITION 'A' — FIG.1, FIG.2
POSITION 'B' — FIG.1, FIG.2

2ND AUXILIARY GEARBOX ORIENTATION POS.A
WITH 1ST AUXILIARY SHOWN IN EAST

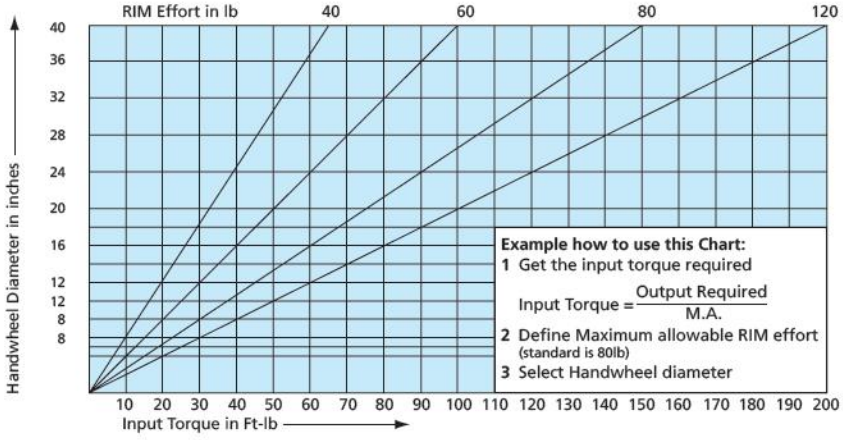


2ND AUXILIARY GEARBOX ORIENTATION POS.B
WITH 1ST AUXILIARY SHOWN IN WEST





'F' Type handwheel



Dimensions

Type	øH	K	N
F200	8	2.97	3
F300	12	3.96	3
F400	16	3.96	4
F500	20	3.96	4
F600	24	3.96	4
F700	28	3.96	6
F800	32	3.96	6
F900	36	3.96	6
F1000	40	3.96	6
F1100	44	3.96	6
F1200	48	3.96	8

rotork®
Gears

IW Quarter-turn

Gearbox Series

Gearbox Selection Chart

Gearbox	Ratio								Manual Output Torque (ft-lb)	Motorised Output Torque (ft-lb)	Maximum Motorised Input Torque (lb-ft)								Mechanical Advantage ±10%							
IW3	70								1202	800	26								23							
IW3	40								782	600	53								15							
IW4	70								1955	1500	65								23							
IW4	140								2102	1615	37								44							
IW4	210	280	350	420					2176	1670	25	19	15	13					66	88	110	132				
IW4	40	80							2700	1800	120	62							15	29						
IW4	120	160	200						2899	1930	45	34	27						43	57	71					
IW4	240								3002	2000	23								86							
IW5	70								3253	2500	109								23							
IW5	140	210	280	350	420				3555	2730	62	41	31	25	21				44	66	88	110	132			
IW5	40								4499	3000	179								17							
IW5	80	120	160	200	240				4920	3280	103	68	50	40	34				32	48	65	81	97			
IW52	40								5384	3590	211								17							
IW52	80	120	160	200	240				5901	3934	123	82	61	49	41				32	48	65	81	97			
IW6	70								7804	6000	261								23							
IW6	140	210							8895	6840	155	104							44	66						
IW6	280	350	420						9588	7320	83	67	55						88	110	132					
IW62	70								9249	NA	NA								23							
IW62	140	210							10547	NA	NA								44	66						
IW62	280	350	420						11285	NA	NA								88	110	132					
IW63	70								NA	7118	309								23							
IW63	140	210	280	350	420				NA	8113	184	123	92	74	61				44	66	88	110	132			
IW7	60	120	180						13003	10000	400	208	141						25	48	71					
IW7	240	360	480	540	720				14751	11250	118	79	60	53	39				95	142	189	214	285			
IW72	60	120	180	240	360	480	540	720	19177	14751	590	307	208	155	104	78	69	52	25	48	71	95	142	189	214	285
IW8	60								23403	18000	720								25							
IW8	120	180	240	360	480	540	720		25077	19200	400	270	202	135	102	90	67		48	71	95	142	189	214	285	
IW82	60								33191	25520	1021								25							
IW82	120	180	240	360	480	540	720		35477	27290	569	384	287	192	144	128	96		48	71	95	142	189	214	285	
IW9	60	180	240	360	480	540	720		46836	36000	1440	507	379	254	190	168	126		25	71	95	142	189	214	285	
IW9	960	1080	1440	2160	2520	3000			50081	38480	101	90	68	45	39	32			380	428	570	855	998	1188		
IW10	60	180	240	360	540	720			62399	48000	1920	676	505	338	224	168			25	71	95	142	214	285		
IW10	960	1080	1440	2160	2520	3000			62002	50000	132	117	88	58	50	42			380	428	570	855	998	1188		
IW11	60	180	240	360	540	720			103998	80000	3200	1127	842	563	374	281			25	71	95	142	214	285		
	960	1080	1440	2160	2520	3000					211	187	140	94	80	67			380	428	570	855	998	1188		
IW115	60	360	480	600	720	900			125387	95884	3835	749	527	426	361	281			25	128	182	225	266	341		
	1440	2160	2400	2700							221	141	125	111					434	679	764	869				
	2880	3600	4320	5400							106	83	71	55					905	1159	1358	1738				
IW12	60	360	480	600	720	900			132763	101047	4042	789	555	449	380	297			25	128	182	225	266	341		
	1440	1800	1920	2160	2400	2700					218	176	163	149	132	116			464	573	619	679	764	869		
	2880	3600	4320	5400							112	87	74	58					905	1159	1358	1738				
IW13	60	360	480	600	720	900			195000	150000	6000	1172	824	667	564	440			25	128	182	225	266	341		
	1440	1800	1920	2160	2400	2700					323	262	242	221	196	173			464	573	619	679	764	869		
	2880	3600	4320	5400							166	129	110	86					905	1159	1358	1738				

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Published and produced in the UK by Rotork Controls Limited.
POWSH0209