



PART LIST 48" RWGV ASSEMBLY WITH SPUR GEAR OPERATOR SHOWN 19300 lbs (approx.)

ITEM	DESCRIPTION	REQ'D	MATERIAL	ASTM	CLASS
1	WRENCH NUT (SEE NOTE 6)	1	CAST IRON	A126	CLASS B
2	SET SCREW	1	STEEL		
3	SPUR GEAR 1S7	1			ROTORC
4	HEX BOLT 3/4" x 6.00"	4	STEEL	F593	
5	ADAPTER	1	HOT ROLLED STEEL	A36	
6	STUFFING BOX w/SPUR GEAR	1	HOT ROLLED STEEL	A36	
7	HEX NUT 3/4"	4	316 S. STEEL	F593	
8	SQ. HEAD PIPE PLUG 1/4"-18NPT	1	316 S. STEEL		
9	O-RING 5 1/8"x5 3/8"x 1/8" #251	1	RUBBER	D2000	EPDM
10	O-RING 3 3/8" x 3 3/4" x 3/16" #340	3	RUBBER	D2000	EPDM
11	O-RING 6 1/4"x6 5/8"x 3/16" #362	1	RUBBER	D2000	EPDM
12	ANTI-FRICTION (THRUST) WASHER	2	BRASS		HARD CDA260
13	SOCKET HEAD BOLT 3/4"x2 1/4"-BEVEL GEAR	4	STEEL		
14	SOCKET HEAD BOLT 3/4"x1 1/2"-SPUR GEAR	4	STEEL		
15	HEAVY HEX NUT 1"	4	316 S. STEEL	A194	
16	EYEBOLT 1 1/2"	2	STEEL		GALVANIZED
17	HEX NUT 1 1/2"	2	STEEL		
18	BONNET BUSHING	1	BRONZE	B62	
19	STEM	1	BRONZE		SEE NOTE 1
20	BONNET	1	DUCTILE IRON	A536	GRADE 65-45-12
21	HEX BOLT 1 1/4" x 9 1/2"	28	316 S. STEEL		
22	HEX NUT 1-1/4"	28	316 S. STEEL	A194	
23	BONNET O-RING	1	RUBBER	D2000	EPDM
24	BODY	1	DUCTILE IRON	A536	GRADE 65-45-12
25	DISC NUT	1	BRONZE	B62	
26	ENCAPSULATED DISC	1	SEE NOTE 2		
27	GUIDE CAP	2	ACETAL		

4" RWGV BY-PASS PART LIST 210lbs (approx.)

28	BY-PASS VALVE ASSEMBLY	1			SEE NOTE 3
29	PIPE NIPPLE w/FLANGE	2	STEEL		
30	90° ELBOW - SHORT	2	STEEL		
30b	SPACER	1	STEEL		
31	FLANGE GASKET	5	RUBBER		
32	Ø 3/4" HEX BOLT (SHORT)	22	316 STAINLESS		
32b	Ø 3/4" HEX BOLT (LONG)	6	316 STAINLESS		
32c	Ø 3/4" THREADED STUD (LONG)	2	316 STAINLESS		
32d	Ø 3/4" THREADED STUD (SHORT)	2	316 STAINLESS		
33	HEX NUT 3/4"	36	316 STAINLESS		

BEVEL GEAR PART LIST

34	BEVEL GEAR (SEE NOTE 5)	1	STEEL		
35	HEX CAP SCREW METRIC 10mm x 1.5 x 30mm	1	316 S. STEEL		
36	WASHER	1	BRASS		
37	STEM NUT	1	STEEL		
38	KEY .5"x3"(USED WITH SPUR/BEVEL GEARING)	1	STEEL		
39	CAP SCREW 3/4" x 1" (SPUR/BEVEL)	1	316 S. STEEL		
40	HOLD DOWN WASHER (USE w/SPUR/BEVEL)	1	STEEL		
40a	PIPE PLUG 3"	1	SUPPLIED WITH GEAR		

POSITION INDICATOR PART LIST

41	HOUSING SUB ASSEMBLY	1	STEEL		
42	DECAL FOR POSITION INDICATOR	1			
43	WINDOW GASKET	1			
44	INDICATING STEM 42" RWGV OL	1	BRONZE		
45	POINTER POSITION INDICATOR OL	1	BRONZE		
46	WINDOW	1	PLEXIGLAS/LEXAN		

BODY END CONFIGURATIONS

47	FLANGE x FLANGE BODY	1	DUCTILE IRON	A536	SEE NOTE 5
48	MECH. JOINT x MECH. JOINT BODY	1	DUCTILE IRON	A536	SEE NOTE 5
49	FLANGE x MECH. JOINT	1	DUCTILE IRON	A536	SEE NOTE 5
50	MECH. JOINT x FLANGE TAPPING BODY	1	DUCTILE IRON	A536	SEE NOTE 5
51	FLANGE x FLANGE TAPPING BODY	1	DUCTILE IRON	A536	SEE NOTE 5
52	PIPE PLUG	2	SUPPLIED WHEN TAPPED		

NOTES:
 1. BRONZE ASTM B564 ALLOY C86400
 2. RUBBER ENCAPSULATED DUCTILE IRON DISC RUBBER - EPDM ASTM D2000 DUCTILE IRON ASTM A536 GRADE 65-45-12
 3. BY-PASS VALVE 4" RWGV - FLANGE ENDS BY-PASS VALVES ARE EQUIPPED WITH 2" SQUARE WRENCH NUTS OR 6" DIA HANDWHEELS OPEN LEFT OR RIGHT AS REQUIRED
 4. TURNS TO OPEN SPUR/BEVEL (RATIO 4:1 596 TURNS TO OPEN BY-PASS 14)
 5. MANUFACTURER'S OPTION TO UPGRADE MATERIAL TO DUCTILE IRON A536 GRADE 65-45-12 OR 705005

DR BY	TP	11/12/19	UNLESS OTHERWISE NOTED	THIRD ANGLE PROJECTION	C.B. NO.
CHKR	AQ	11/12/19	BREAK CAST CORNERS		PATT. NO.
ENGR	MS	11/12/19	BREAK MACH CORNERS		
MGR			TOLERANCES		FINISH SCALE
MFG			UNLESS OTHERWISE NOTED		
TOOL			LINEAR	ANGULAR	SCALE
FRBY			±	±	NONE

MAT'L	NOTED	DESCR.	48" RWGV	NUMBER	7581
			250-PSI AWWA C515		

APPROVED
 By Matt Sliger at 3:41 pm, Dec 19, 2019