



PART LIST 42" RWGV ASSEMBLY WITH SPUR GEAR OPERATOR SHOWN 13300 lbs (approx.)

ITEM	DESCRIPTION	REQ'D	MATERIAL	ASTM
1	WRENCH NUT (SEE NOTE 6)	1	CAST IRON	A126 CLASS B
2	SET SCREW	1		
3	SPUR GEAR (SEE NOTE 5)	1		
4	HEX BOLT 3/4" x 5 1/2"	4	316 STAINLESS	SEE NOTE 3
5	ADAPTER	1	DUCTILE IRON	A536
6	STUFFING BOX w/SPUR GEAR	1	DUCTILE IRON	A536
7	HEX NUT 3/4"	4	316 STAINLESS	SEE NOTE 3
8	SO. HEAD PIPE PLUG 1/4"-18NPT	1	316 STAINLESS	
9	O-RING 5 1/8"x5 3/8"x 1/8" #251	1	RUBBER	D2000 EPDM
10	O-RING 2 3/4"x3 1/8"x 3/16" #335	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 1/2"-BEVEL GEAR	4	316 STAINLESS	SEE NOTE 3
14	SOCKET HEAD BOLT 3/4"x1 1/2"-SPUR GEAR	4	316 STAINLESS	SEE NOTE 3
15	SOCKET HEAD BOLT 1" x 5"	4	316 STAINLESS	SEE NOTE 3
16	HEAVY HEX NUT 1"	4	316 STAINLESS	SEE NOTE 3
17	EYEBOLT 1 1/2"	2	STEEL	GALVANIZED
18	HEX NUT 1 1/2"	2	STEEL	GALVANIZED
19	BONNET BUSHING	1	BRONZE	B62
20	STEM	1	BRONZE	SEE NOTE 1
21	BONNET	1	DUCTILE IRON	A536
22	HEX BOLT 1 1/4" x 9"	24	316 STAINLESS	SEE NOTE 3
23	HEX NUT 1 1/4"	24	316 STAINLESS	SEE NOTE 3
24	BONNET O-RING	1	RUBBER	D2000 EPDM
25	BODY	1	DUCTILE IRON	A536
26	DISC NUT	1	BRONZE	B62
27	ENCAPSULATED DISC	1	SEE NOTE 2	
28	GUIDE CAP	2	ACETAL	

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

28	BY-PASS VALVE ASSEMBLY	1		SEE NOTE 4
29	PIPE NIPPLE w/FLANGE	2	STEEL	
30	90° ELBOW - LONG	2	STEEL	
31	FLANGE GASKET	4	RUBBER	
32	HEX BOLT	28	316 STAINLESS	SEE NOTE 3
32b	3/4" THREADED STUD	4		
33	HEX NUT	36	316 STAINLESS	SEE NOTE 3

BEVEL GEARING PART LIST

34	BEVEL GEAR (SEE NOTE 5)	1		
35	HEX CAP SCREW METRIC 10mm x 1.5 x 30mm	1	STEEL	
36	WASHER	1	BRASS	
37	STEM NUT	1	BRASS	
38	KEY .5"x3" (USED WITH SPUR/BEVEL GEARING)	1	STEEL	
39	CAP SCREW 3/4" x 1 1/8" (SPUR/BEVEL)	1	316 STAINLESS	SEE NOTE 3
40	HOLD DOWN WASHER (USE w/SPUR/BEVEL)	1	316 STAINLESS	SEE NOTE 3
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
48	MECH. JOINT x MECH. JOINT BODY	1	DUCTILE IRON	A536
49	FLANGE x MECH. JOINT	1	DUCTILE IRON	A536
50	MECH. JOINT x FLANGE TAPPING BODY	1	DUCTILE IRON	A536
51	FLANGE x FLANGE TAPPING BODY	1	DUCTILE IRON	A536
52	PIPE PLUG	2	SUPPLIED WHEN TAPPED	

NOTES:

- BRONZE ASTM B584 ALLOY C86200
- RUBBER ENCAPSULATED DUCTILE IRON DISC
RUBBER - EPDM ASTM D2000
DUCTILE IRON ASTM A536 GRADE 65-45-12
- BOLTS - ASTM F593 GROUP 2
NUTS - ASTM F594 GROUP 2
- BY-PASS VALVE 4" RWGV - FLANG ENDS
BY-PASS VALVES ARE EQUIPPED WITH 2" SQ.
WRENCH NUTS OR 6" DIA HANDWHEEL
OPEN LEFT OR RIGHT AS REQUIRED
- VALVE WILL BE FURNISHED WITH ONE OF THE
LISTED OPERATORS AT THE MANUFACTURER'S DISCRETION.
BEVEL: ROTORK I67, RATIO 4:1, TURNS TO OPEN 524
SPUR: ROTORK I57, RATIO 4:1, TURNS TO OPEN 524
- MANUFACTURER'S OPTION TO UPGRADE MATERIAL TO
DUCTILE IRON A536 GRADE 65-45-12

SR BY	AD	06/07/17	UNLESS OTHERWISE NOTED	THIRD ANGLE PROJECTION	C.D. NO.
ENGR	BB	06/07/17	BREAK CAST CORNERS!		PATT. NO.
MSR	MS	06/07/17	BREAK MACH CORNERS!		
MFG			TOLERANCES	REF. NO.	ASSY SCALE
TOOL			UNLESS OTHERWISE NOTED	STR. NO.	NONE
FBRY			LINEAR		
			ANGULAR		
MAT'L NOTED					
		DESCR.	42" RWGV 250-PSI AWWA C515	NUMBER	7421

7421

APPROVED
By Matthew Sliger at 11:21 am, Sep 14, 2017