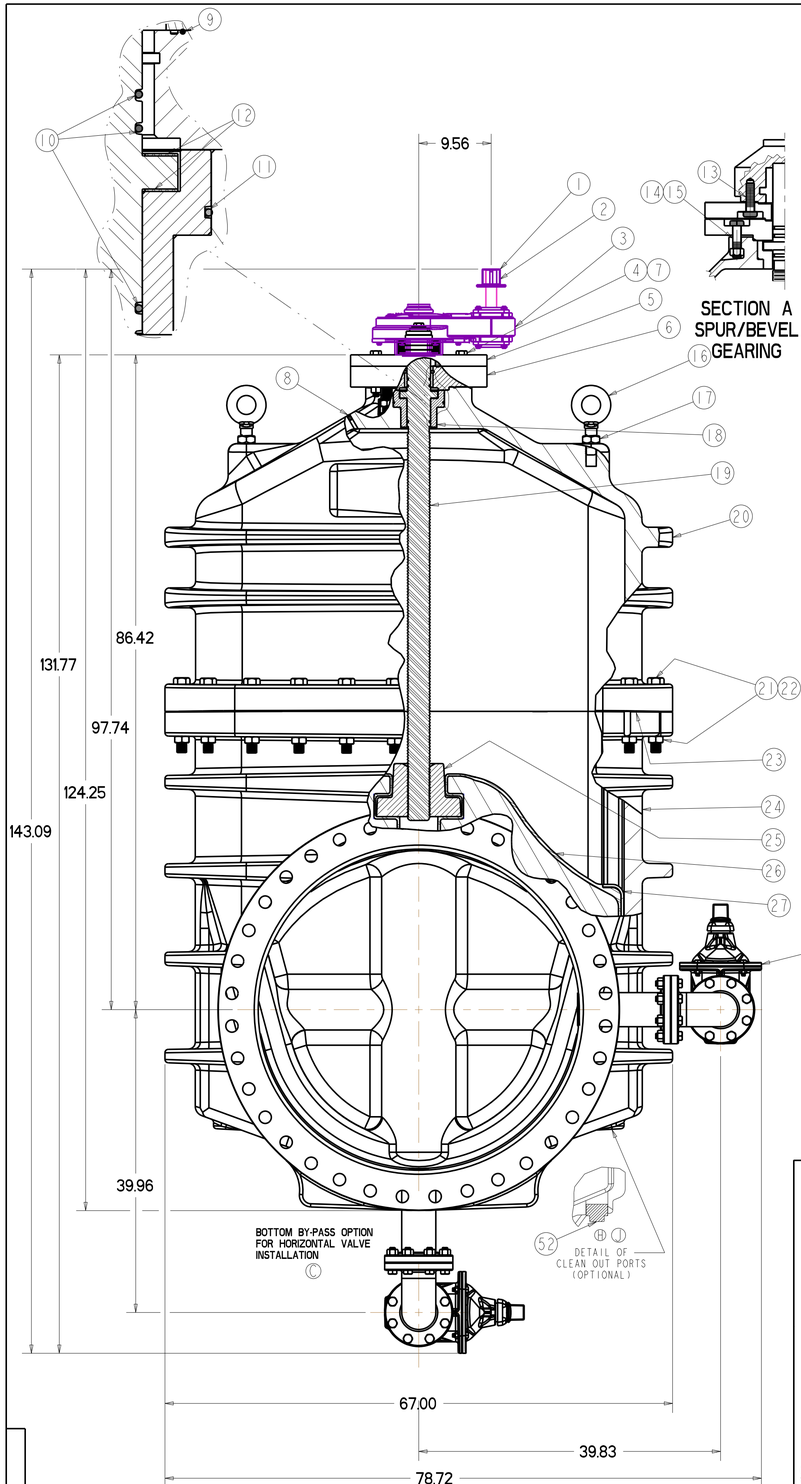

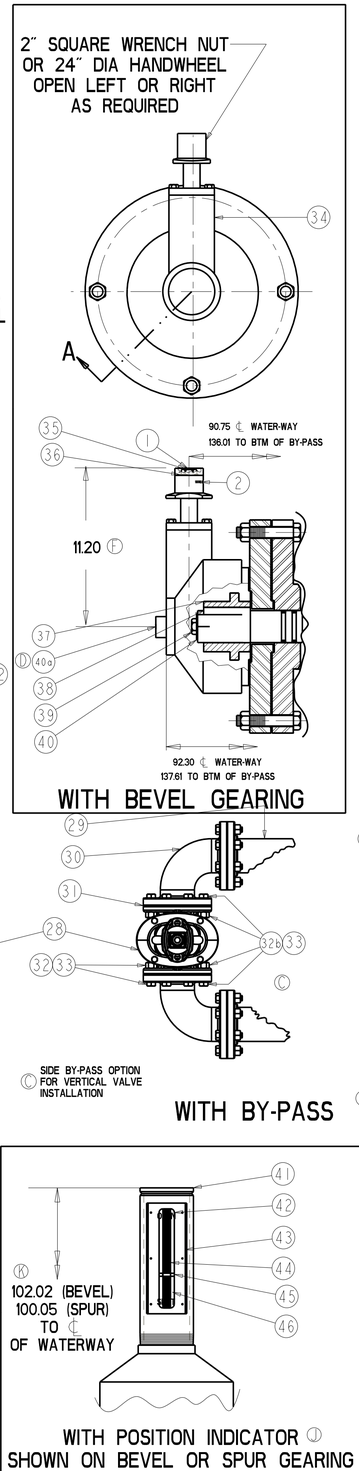

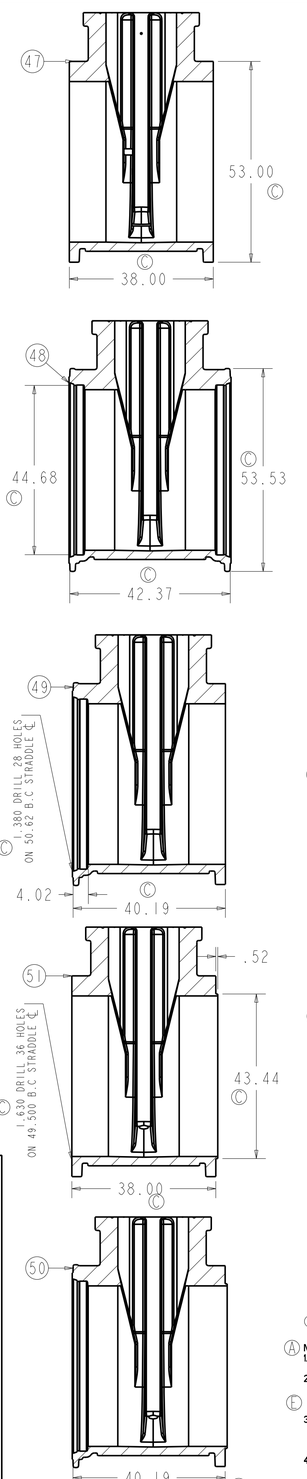

PART LIST 42" RWGV ASSEMBLY WITH SPUR GEAR OPERATOR SHOWN 13300± lbs (±approx.)						
ITEM	DESCRIPTION	PART NO.	REQ'D	MATERIAL	ASTM	
1	WRENCH NUT (SEE NOTE 6)Ⓗ	532827	1	CAST IRON	A126	CLASS B
2	SET SCREW	536481	1			
3	SPUR GEAR (SEE NOTE 5)Ⓗ		1			
4	HEX BOLT 3/4" x 5 1/2"	536128	4	304 STAINLESS		SEE NOTE 3
5	ADAPTER	533863	1	DUCTILE IRON Ⓖ	A536	65-45-12
6	STUFFING BOX w/SPUR GEAR	533862	1	DUCTILE IRON Ⓖ	A536	65-45-12
7	HEX NUT 3/4"	193814	4	304 STAINLESS		SEE NOTE 3
8	SQ. HEAD PIPE PLUG 1/4-18NPT	199177	1	304 STAINLESS		
9	O-RING 5 1/8"x5 3/8"x 1/8" #251Ⓐ	195186	1	RUBBER	D2000	EPDM Ⓔ
10	O-RING 2 3/4"x3 1/8"x 3/16" #335	533848	3	RUBBER	D2000	EPDM Ⓔ
11	O-RING 6 1/4"x6 5/8"x 3/16" #362	195926	1	RUBBER	D2000	EPDM Ⓔ
12	ANTI-FRICTION (THRUST) WASHER	533866	2	BRASS		HARD CDA260
13	SOCKET HEAD BOLT 3/4"x2 1/2"-BEVEL GEAR Ⓒ SOCKET HEAD BOLT 3/4"x1 1/2"-SPUR GEAR	533872 536759	4 4	304 STAINLESS 304 STAINLESS		SEE NOTE 3 SEE NOTE 3
14	SOCKET HEAD BOLT 1" x 5"	533873	4	STEEL		SEE NOTE 3
15	HEAVY HEX NUT 1"	193640	4	STEEL		SEE NOTE 3
16	EYEBOLT 1 1/2"	536108	2	STEEL		GALVANIZED
17	HEX NUT 1 1/2"	536135	2	STEEL		SEE NOTE 3
18	BONNET BUSHING	533860	1	BRONZE	B62	
19	STEM	533864	1	BRONZE		SEE NOTE 1
20	BONNET	533853	1	DUCTILE IRON	A536	GRADE 65-45-12
21	HEX BOLT 1 1/4" x 9"	533894	24	304 STAINLESS		SEE NOTE 3
22	HEX NUT 1 1/4"	536134	24	304 STAINLESS		SEE NOTE 3
23	BONNET O-RING	533874	1	RUBBER	D2000	EPDM Ⓔ
24	BODY	SEE BODIES	1	DUCTILE IRON	A536	GRADE 65-45-12
25	DISC NUT	533858	1	BRONZE	B62	
26	ENCAPSULATED DISC	Ⓓ 533855	1	SEE NOTE 2		
27	GUIDE CAP	533867	2	CELCON		M90
	4" RWGV BY-PASS PART LIST 210±lbs (±approx.)					
28	BY-PASS VALVE ASSEMBLY	040A236006LN	1			SEE NOTE 4
29	PIPE NIPPLE w/FLANGE	533868	2	STEEL		
30	90° ELBOW - LONG	533869	2	STEEL		
31	FLANGE GASKET	533870	4	RUBBER		
Ⓒ 32	HEX BOLT	Ⓒ	28	304 STAINLESS		SEE NOTE 3
32b	3/4"Ø THREADED STUD		4			
33	HEX NUT	Ⓒ	36	304 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	199738	1	STEEL		
36	WASHER	198749	1	BRASS		
37	STEM NUT	536461	1	BRASS		
38	KEY.5"x3"(USED WITH SPUR/BEVEL GEARING)	155233	1	STEEL		
39	CAP SCREW 3/4" x 1 1/8" (SPUR/BEVEL)	535464	1	304 STAINLESS		SEE NOTE 3
40	HOLD DOWN WASHER (USE w/SPUR/BEVEL)	533895	1	304 STAINLESS		SEE NOTE 3
Ⓓ 40a	PIPE PLUG 3"	Ⓓ 091429	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	Ⓛ 533850M/545580M	1	DUCTILE IRON	A536	GRADE 65-45-12
48	MECH. JOINT x MECH. JOINT BODY	Ⓛ 533851M/545581M	1	DUCTILE IRON	A536	GRADE 65-45-12
49	FLANGE x MECH. JOINT	Ⓛ 533852M/545582M	1	DUCTILE IRON	A536	GRADE 65-45-12
50	MECH. JOINT x FLANGE TAPPING BODY	Ⓛ 533896M/545583M	1	DUCTILE IRON	A536	GRADE 65-45-12
51	FLANGE x FLANGE TAPPING BODY	Ⓛ 533897M/546128M	1	DUCTILE IRON	A536	GRADE 65-45-12
Ⓗ 52	PIPE PLUG		2	SUPPLIED WHEN TAPPED		

Ⓐ NOTES:
1. BRONZE ASTM B584 ALLOY C86200 Ⓑ
2. RUBBER ENCAPSULATED DUCTILE IRON DISC
RUBBER - EPDM ASTM D2000
Ⓔ DUCTILE IRON ASTM A536 GRADE 65-45-12
3. BOLTS - SAE J429 GRADE 2
FASTENERS - PLATED TO ASTM F1941 CLASS Fe/Zn 12C
NUTS - ASTM A563 GRADE B
4. BY-PASS VALVE 4" RWGV - FLANG ENDS
BY-PASS VALVES ARE EQUIPPED WITH 2" SQ.
WRENCH NUTS OR 6" Ø HANDWHEEL
OPEN LEFT OR RIGHT AS REQUIRED
5. VALVE WILL BE FURNISHED WITH ONE OF THE
Ⓑ LISTED OPERATORES AT THE MANUFACTURER'S DISCRETION.
ⒽⒸ BEVEL: LIMITORQUE B320-40, RATIO 4:1, TURNS TO OPEN 524
BEVEL: ROTORK IB7, RATIO 4:1, TURNS TO OPEN 524
Ⓙ SPUR: ROTORK IS7, RATIO 4:1, TURNS TO OPEN 524
Ⓗ 6. MANUFACTURER'S OPTION TO UPGRADE MATERIAL TO DUCTILE IRON A536 GRADE 65-45-12

536559

Ⓐ	ECO 1354046 ADDED PDW WAS SBR ECO 1355151 WAS 362 AP 08/31/05	
Ⓑ	ECO 1355938 ALLOY 86200 WAS 86400 TURNS TO OPEN 13 WAS 4 PED 9/2/05	
Ⓒ	ECO 1360024 ADDED 536759 AP 09/30/05 ADDED ITEM 32b ADDED NOTES 28 WAS 32 36 WAS 32 524 WAS 516	
Ⓓ	ECO 1385152 ADDED PIPE PLUG 3" TO CHART AND DRAWING GPD 12/02/05	533854 091492 14 WAS 13
Ⓔ	ECO 1405341 CHANGED DISC AND O-RINGS TO EPDM KWE 10/06/06	
Ⓕ	ECO 1437327 11.20 WAS 10.40 CAP 07/21/07	
Ⓖ	ECO 1439314 DUCTILE IRON WAS HOT ROLLED STEEL A536 WAS A36 CAP 07/20/07	
Ⓗ	ECO 1458152 ADDED NOTE 6 CHANGED NOTE 5 TO GEARING OPTIONS WAS TURNS TO OPEN ONLY ADDED DETAIL VIEW, ITEM 52 CHANGE ITEM 40a TO SUPPLIED WITH GEAR CAP 01/12/08	
Ⓙ	ECO 1510395 REMOVED NOTE "SIZES 24" & GREATER" ADDED SPUR GEARING NAF 7/13/09	
Ⓚ	ECO 1510838 102.02 (BEVEL) 100.05 (SPUR) WAS 103.55 NAF 7/15/09	
Ⓛ	ECO 1604527 ADDED "M" AFTER EACH BODY PART NUMBER. ADDED BODY P/NS: 545580M, 545581M, 545582M, 545583M, 546128M. HD 10/16/12	

APPROVED
By Charles Graham Hines at 4:07 pm, Oct 18, 2012

DR BY	CAP	08/15/05	UNLESS OTHERWISE NOTED	THIRD ANGLE PROJECTION	C.B. NO.
CHKR	PSG	08/18/05	BREAK CAST CORNER(S)		
ENGR	RWV	08/15/05	BREAK MACH CORNER(S)	PURCH. T/FINISH ASSY	PATT. NO.
MGR			TOLERANCES		
MFG			UNLESS OTHERWISE NOTED	REF. NO. SCALE NONE	
TOOL			LINEAR ANGULAR		
FDRY			± ±	STK. NO.	
MAT'L	NOTED				

Mueller Co. | DESCR. 42" RWGV 250-PSI AWWA C515 W/ 304SS | NUMBER 536559

SECTION A-A

MUELLER CONFIDENTIAL: TITLE TO AND OWNERSHIP OF THIS ENGINEERING DATA REMAINS IN MUELLER COMPANY. NO USE IS TO BE MADE OF THIS DATA EXCEPT AS SPECIFICALLY AUTHORIZED BY MUELLER COMPANY. ASSENT ON THE PART OF THE RECIPIENTS TO THESE CONDITIONS IS PRESUMED.