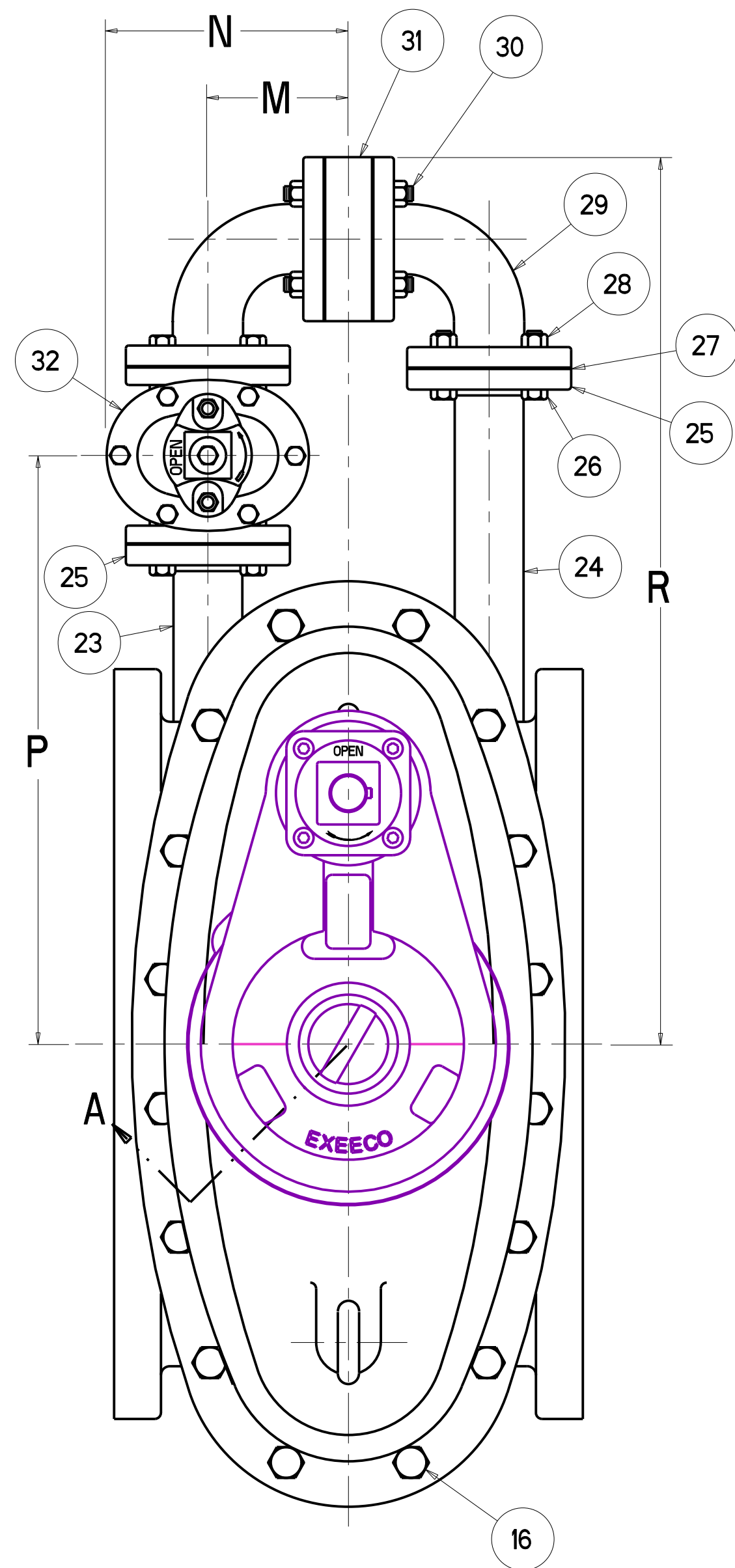
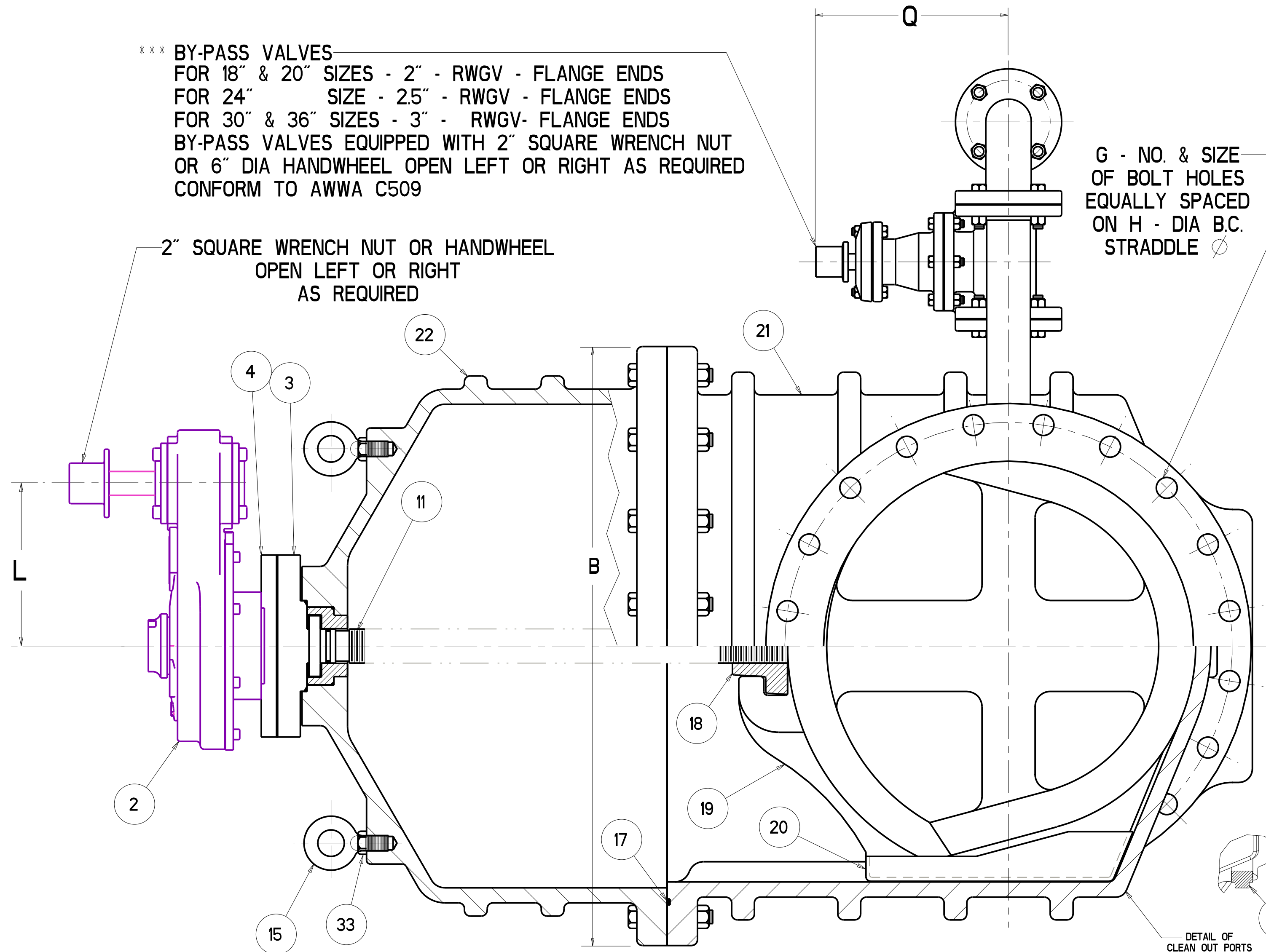




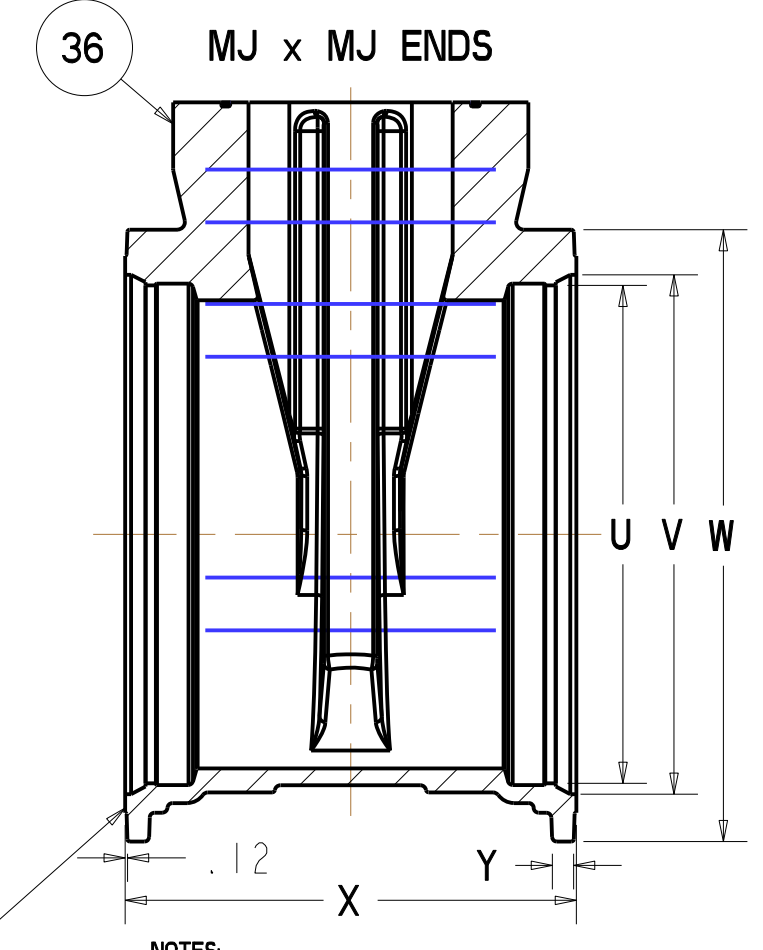
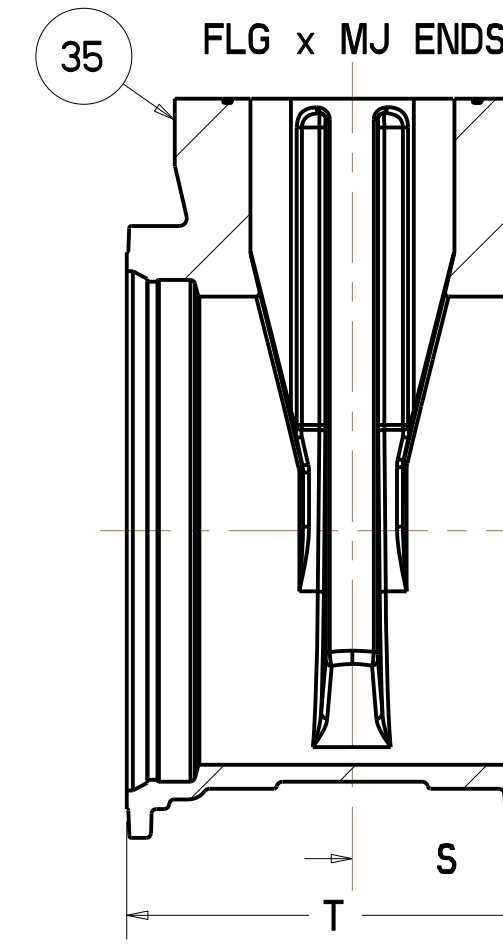
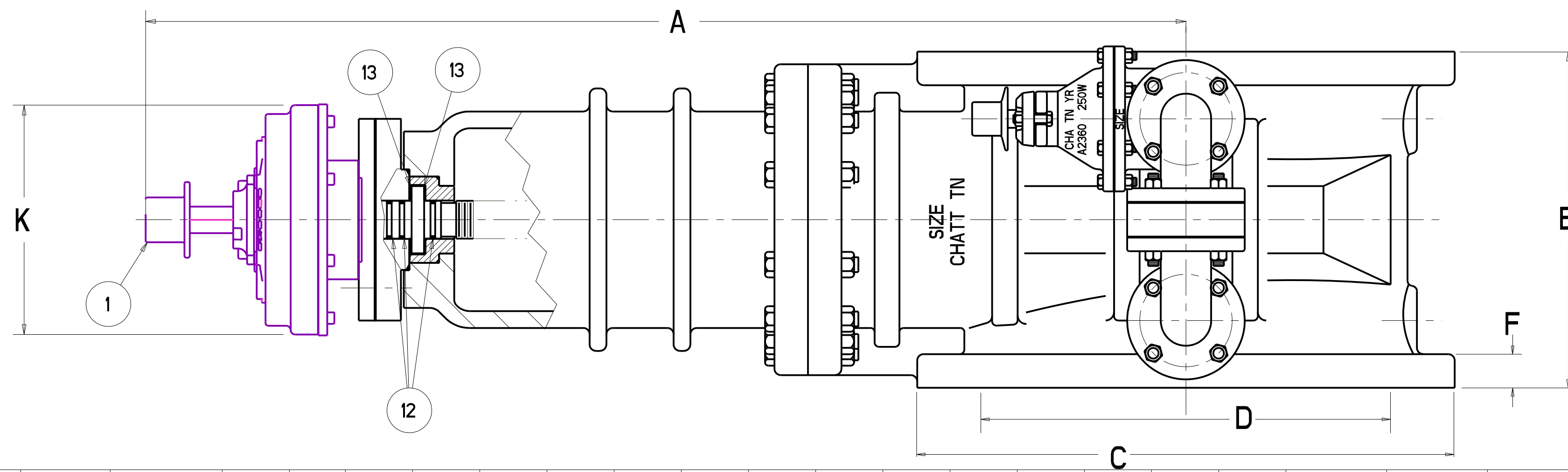
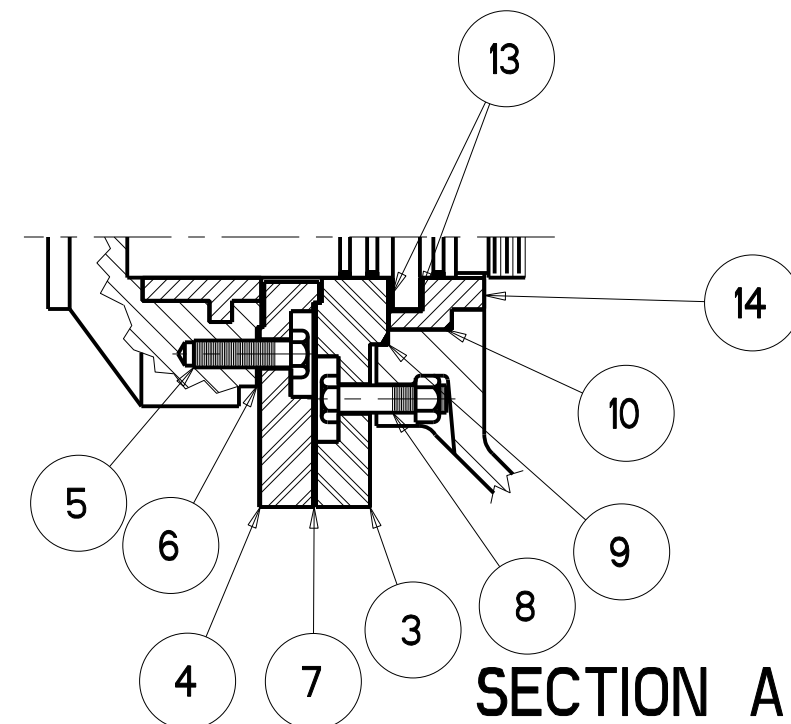
*** BY-PASS VALVES
FOR 18" & 20" SIZES - 2" - RWGV - FLANGE ENDS
FOR 24" SIZE - 2.5" - RWGV - FLANGE ENDS
FOR 30" & 36" SIZES - 3" - RWGV - FLANGE ENDS
BY-PASS VALVES EQUIPPED WITH 2" SQUARE WRENCH NUT
OR 6" DIA HANDWHEEL OPEN LEFT OR RIGHT AS REQUIRED
CONFORM TO AWWA C509

2" SQUARE WRENCH NUT OR HANDWHEEL
OPEN LEFT OR RIGHT
AS REQUIRED

G - NO. & SIZE
OF BOLT HOLES
EQUALLY SPACED
ON H - DIA B.C.
STRADDLE



PARTS LIST					
ITEM	DESCRIPTION	REQ'D	MATERIAL	ASTM	NOTES
1	WRENCH NUT	1	CAST IRON [SEE NOTE 4]	A126	CLASS B
2	ROTORK SPUR GEAR IS-5	1	CAST IRON	A48	35B/40B
3	STUFFING BOX	1	HOT ROLLED STEEL	A36	
4	ADAPTER PLATE	1	HOT ROLLED STEEL	A36	
5	SOCKET HEAD SCREW	4	316 STAINLESS STEEL		SEE NOTE 2
6	GASKET	1	RUBBER	D2000	R51
7	O-RING	1	RUBBER	D2000	EPDM
8	SOCKET HEAD BOLT & NUT	4	316 STAINLESS STEEL		SEE NOTE 2
9	O-RING	1	RUBBER	D2000	EPDM
10	O-RING	1	RUBBER	D2000	EPDM
11	STEM	1	BRONZE		SEE NOTE 3
12	O-RING	3	RUBBER	D2000	EPDM
13	ANTI-FRICTION WASHER	2	BRASS		
14	BONNET BUSHING	1	BRONZE	B62	ALLOY C83600
15	EYE BOLT	2	STEEL		GALVANIZED
16	HEX BOLT & NUT	"J"	316 STAINLESS STEEL		SEE NOTE 2
17	O-RING	1	RUBBER	D2000	EPDM
18	DISC NUT	1	BRONZE	B62	ALLOY C83600
19	DISC ENCAPSULATED	1			SEE NOTE 1
20	GUIDE CAP	2	CELCON		M90
21	BODY - FLG ENDS	1	DUCTILE IRON	A536	GR 65-45-12
22	BONNET	1	DUCTILE IRON	A536	GR 65-45-12
23	SHORT NIPPLE	1	STEEL PIPE		
24	LONG NIPPLE	1	STEEL PIPE		
25	PIPE FLANGE	2	STEEL		
26	HEX BOLT	12	316 STAINLESS STEEL		SEE NOTE 2
27	PIPE GASKET	5	REINFORCED NEOPRENE	D2000	
28	HEX NUT	20	316 STAINLESS STEEL		SEE NOTE 2
29	PIPE ELBOW	2	CAST STEEL		
30	STUD	4	316 STAINLESS STEEL		SEE NOTE 2
31	SPACER	1	STEEL		
32	BY-PASS VALVE	1	***		
33	HEX NUT	2	STEEL	A136	
34	PIPE PLUG	2	SUPPLIED WHEN TAPPED		
35	BODY - FLG X MJ ENDS	1	DUCTILE IRON	A536	GR 65-45-12
36	BODY - MJ X MJ ENDS	1	DUCTILE IRON	A536	GR 65-45-12



- NOTES:
- RUBBER ENCAPSULATED DUCTILE IRON DISC
RUBBER - EPDM ASTM D2000
DUCTILE IRON ASTM A536 GRADE 65-45-12
 - BOLTS ARE - 316 STAINLESS STEEL ASTM A193
NUTS ARE - 316 STAINLESS STEEL ASTM A194
 - 18" VALVE - MANGANESE BRONZE CDA ALLOY C67600 H02 TEMPER
20" & 24" & 36" VALVES - BRONZE ASTM B584 ALLOY C86400
 - MANUFACTURER'S OPTION TO UPGRADE TO MATERIAL
DUCTILE IRON A536 GRADE 65-45-12

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	AA	BB	TURNS TO OPEN 18"-36"	HANDWHEEL DIAMETER
18	49.64	30.50	25.00	18.38	17.00	1.69	16 - 1.25	22.75	12	10.24	8.00	5.00	8.50	21.50	9.88	32.50	8.50	19.00	19.64	20.74	24.88	21.00	1.06	12 - .88	23.25	234	18.00
20	52.75	33.75	27.50	20.38	18.00	1.78	20 - 1.25	25.00	12	10.24	8.00	5.00	8.50	22.50	9.88	33.50	9.00	19.75	21.74	22.84	27.25	21.50	1.60	14 - .88	25.50	258	18.00
24	59.15	39.50	32.00	24.38	20.00	2.00	20 - 1.38	29.50	16	10.24	8.00	6.00	10.31	25.06	12.38	37.31	10.00	21.75	25.94	27.05	31.88	23.50	1.12	16 - .88	30.00	308	18.00
30	70.83	48.00	38.75	30.38	26.00	2.12	28 - 1.38	36.00	20	10.24	8.00	7.08	11.67	27.70	12.38	43.20	13.00	29.75	32.18	33.47	39.53	33.50	1.25	20 - 1.125	36.88	381	18.00
36	83.14	56.50	46.00	36.38	30.00	2.37	32 - 1.63	42.75	24	10.24	8.00	8.75	13.40	31.75	12.38	47.25	15.00	33.75	38.48	39.77	46.41	37.50	1.45	24 - 1.125	43.75	455	24.00

ECO 1511881
REMOVED NOTE
"SIZES 24"
AND GREATER"
H D 7/28/09

APPROVED

By Nicholas Franklin at 3:25 pm, Aug 18, 2009

ECO 1481041

UNITED STATES PIPE AND FOUNDRY CO.
CHATTANOOGA, TENNESSEE

DR BY: CAP 11/17/05	UNLESS OTHERWISE NOTED	THIRD ANGLE PROJECTION	C.B. NO.
CHNG: PSQ 11/17/05	BREAK CAST CORNER(S)		
ENGR: RWV 11/17/05	BREAK WASH CORNER(S)		
MFG:	TOLERANCES	PURCH: NO	FINISH: ASSY
TOOL:	UNLESS OTHERWISE NOTED	REF. NO.	SEAL: NONE
FDKY:	LINEAR	STR. NO.	
NOTED			
DESCR: AWWA C515 18" - 36" USPI RWGV'S W/ROTORK SPUR GEAR & OPT. E302		NUMBER: U6750-E302	

U.S. PIPE & FOUNDRY CO. CONFIDENTIAL: TITLE TO AND OWNERSHIP OF THIS ENGINEERING DATA REMAINS IN U.S. PIPE & FOUNDRY CO.. NO USE IS TO BE MADE OF THIS DATA EXCEPT AS SPECIFICALLY AUTHORIZED BY U.S. PIPE & FOUNDRY CO.. ASSENT ON THE PART OF THE RECIPIENTS TO THESE CONDITIONS IS PRESUMED.