

5-1918-52-4-1 (CS HARDWARE) 5-1918-52-4-2 (SS HARDWARE) PARTS LIST: 4" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191612-1	1	BRACKET
2	190575-2	1	YOKE
3	404331-13 404333-1	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-36	1	SCREW-SET, 5/16"-18 X 3/8"
5	4401-140-6	1	CYLINDER-6" BORE X4 1/2" STR
6	350694	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0100 46336-100	2	SCREW-HHC, 1/4"-20 X 1",CS SCREW-HHC, 1/4"-20 X 1",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

5-1918-52-6-1 (CS HARDWARE) 5-1918-52-6-2 (SS HARDWARE) PARTS LIST: 6" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191613-1	1	BRACKET
2	190575-1	1	YOKE
3	404331-13 404333-1	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-36	1	SCREW-SET, 5/16"-18 X 3/8"
5	4401-140-2	1	CYLINDER-6" BORE X6 1/2" STR
6	350697	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0100 46336-100	2	SCREW-HHC, 1/4"-20 X 1",CS SCREW-HHC, 1/4"-20 X 1",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

5-1918-52-8-1 (CS HARDWARE) 5-1918-52-8-2 (SS HARDWARE) PARTS LIST: 8" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191614-1	1	BRACKET
2	190575-1	1	YOKE
3	404331-13 404333-1	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-36	1	SCREW-SET, 5/16"-18 X 3/8"
5	4401-140-3	1	CYLINDER-8"BORE X 8 5/8" STR
6	350696	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0100 46336-100	2	SCREW-HHC, 1/4"-20 X 1",CS SCREW-HHC, 1/4"-20 X 1",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

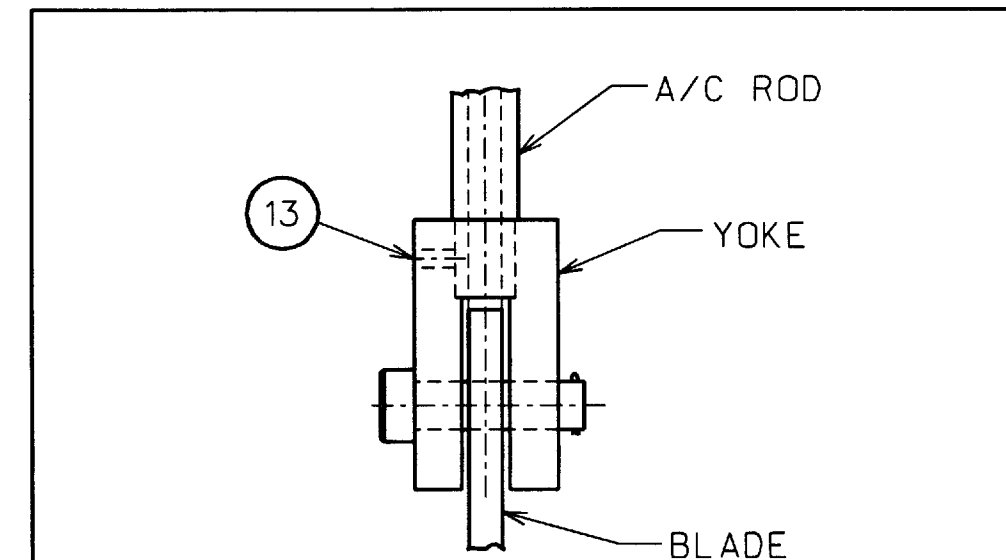
5-1918-52-10-1 (CS HARDWARE) 5-1918-52-10-2 (SS HARDWARE) PARTS LIST: 10" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191615-1	1	BRACKET
2	190575	1	YOKE
3	404331-4 404334	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-29	1	SCREW-SET, 5/16"-18 X 5/8"
5	4401-140-4	1	CYLINDER-10"BORE X10 5/8" STR
6	350696	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0125 46336-125	2	SCREW-HHC, 1/4"-20 X 1 1/4",CS SCREW-HHC, 1/4"-20 X 1 1/4",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

5-1918-52-12-1 (CS HARDWARE) 5-1918-52-12-2 (SS HARDWARE) PARTS LIST: 12" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	190571-1	1	BRACKET
2	190575	1	YOKE
3	404331-4 404334	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-29	1	SCREW-SET, 5/16"-18 X 5/8"
5	4401-140-5	1	CYLINDER-10"BORE X13" STR
6	350712	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0125 46336-125	2	SCREW-HHC, 1/4"-20 X 1 1/4",CS SCREW-HHC, 1/4"-20 X 1 1/4",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

5-1918-52-14-1 (CS HARDWARE) 5-1918-52-14-2 (SS HARDWARE) PARTS LIST: 14" DIA KNIFE GATE VALVE			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191819	1	BRACKET
2	190575	1	YOKE
3	404331-4 404334	2	PIN- CLEVIS,CS PIN- CLEVIS,SS
4	46023-29	1	SCREW-SET, 5/16"-18 X 5/8"
5	4401-140-7	1	CYLINDER-10"BORE X15" STR
6	350712	1	TRIPPER- LIMIT SWITCH
7	46188-0250-0125 46336-125	2	SCREW-HHC, 1/4"-20 X 1 1/4",CS SCREW-HHC, 1/4"-20 X 1 1/4",SS
8-11	1918-52-1-1 1918-52-1-2	1	COMMON PARTS,CS COMMON PARTS,SS

5-1918-52-1-1 (CS HARDWARE)
5-1918-52-1-2 (SS HARDWARE)
COMMON PARTS REQUIRED FOR 4" THRU 14" DIA VALVES

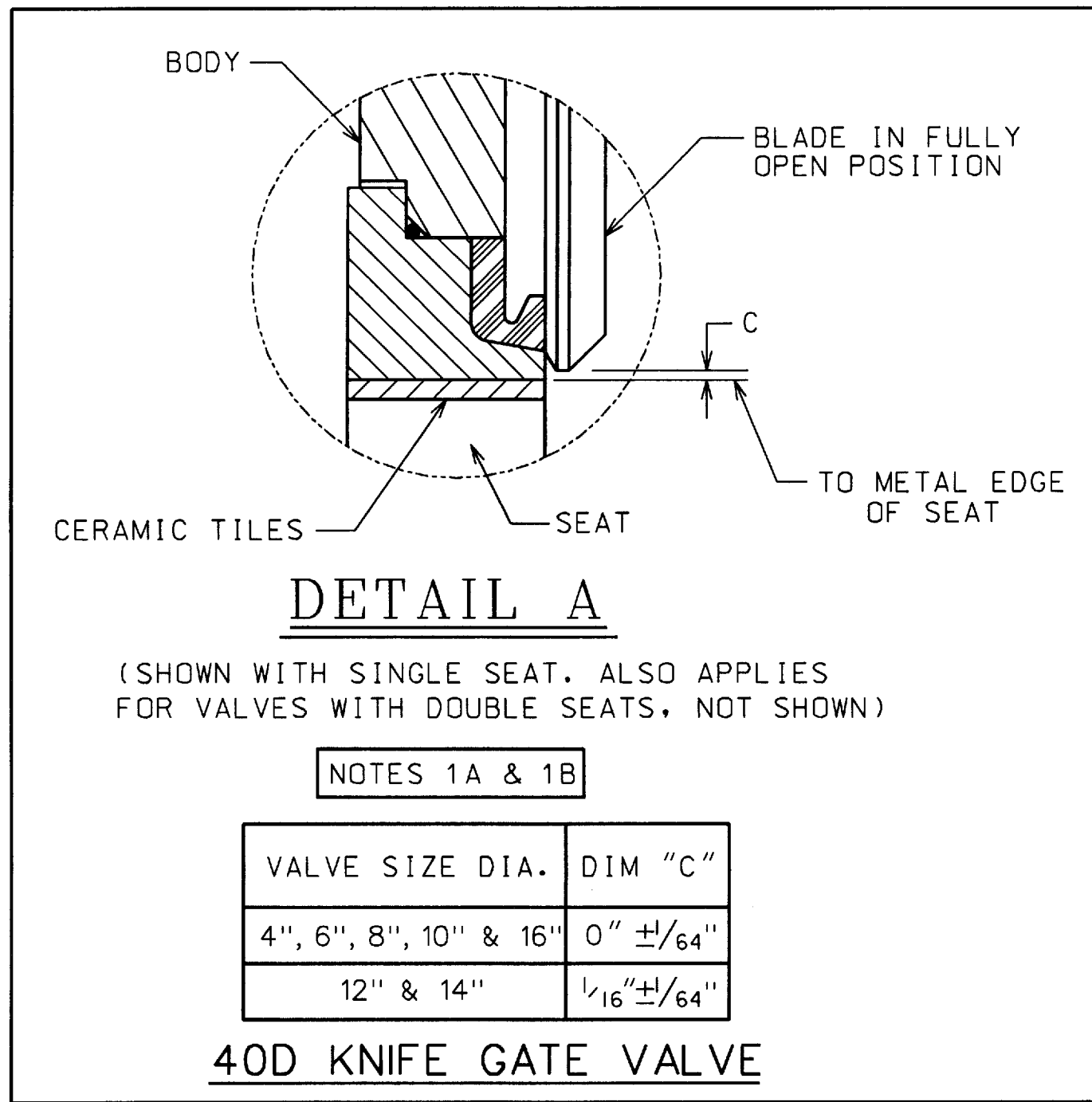
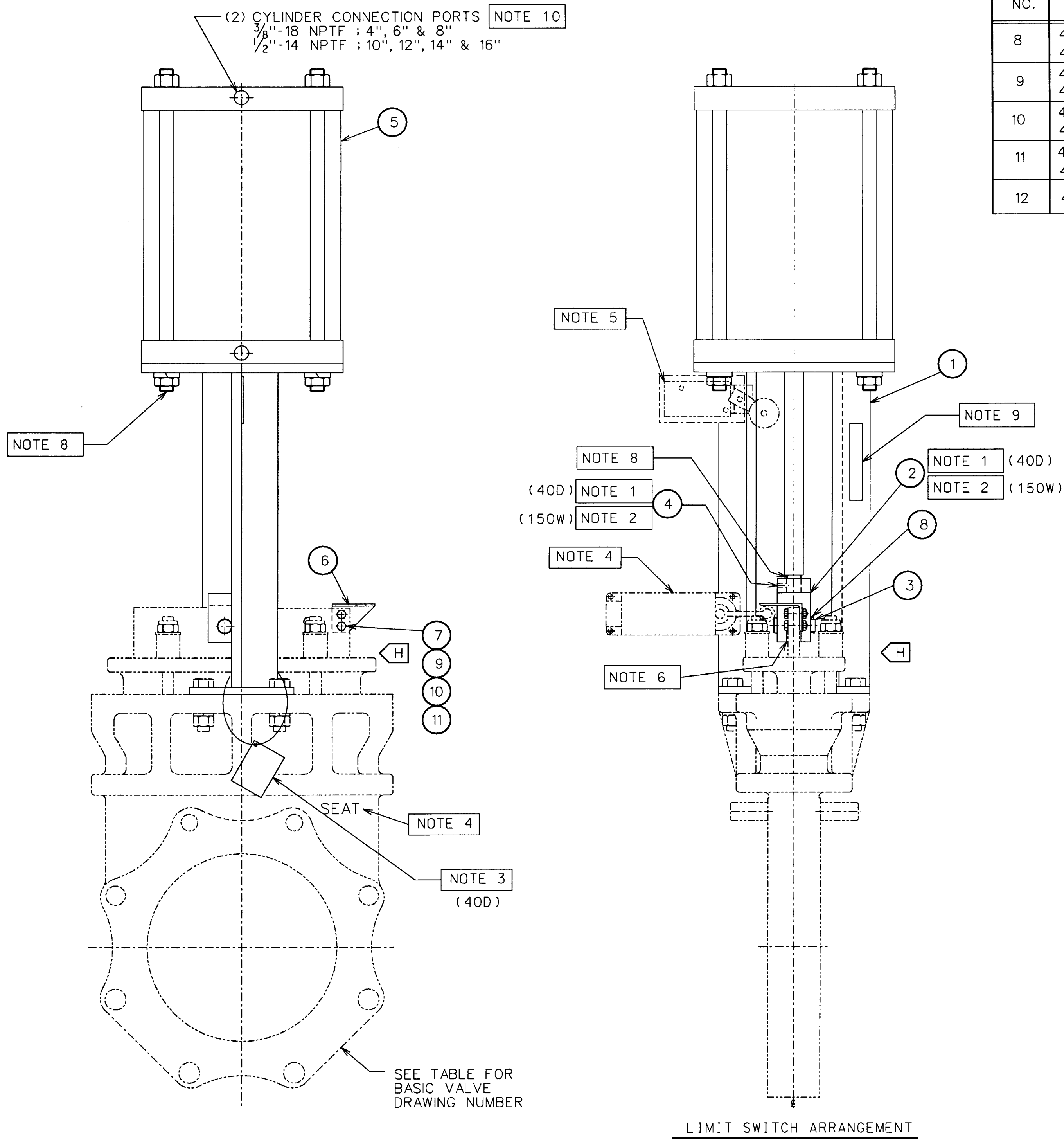
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
8	404033-18 404097-2	2	PIN- COTTER, 1/8"DIA X 1" LG,CS PIN- COTTER, 1/8"DIA X 1" LG,SS
9	46255-4 46364-4	2	WASHER-PLAIN, 1/4"SAE,CS WASHER-PLAIN, 1/4"SAE,SS
10	46301-250 46366-250	2	NUT-HEX, 1/4"-20,CS NUT-HEX, 1/4"-20,SS
11	46289-250 46359-250	2	WASHER-LOCK, 1/4",CS WASHER-LOCK, 1/4",SS
12	45507-8	.1	SEALANT-SILICONE, 6 OZ.



16" DIA 40D KNIFE GATE VALVE
YOKE / BLADE CONNECTION

5-1918-52-16-1 (CS HARDWARE)
PARTS LIST: 16" DIA KNIFE GATE VALVE

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	191839	1	BRACKET
2	191840	1	YOKE
3	404331-17	2	PIN- CLEVIS
4	NOT REQUIRED	—	NOT REQUIRED
5	44570	1	CYLINDER-12" BORE X 17" STR
6	—	1	TRIPPER-LIMIT SWITCH
7	—	2	SCREW-HHC, 1/4"-20 X 1 1/4"
8	404033-37	2	PIN-COTTER, 3/16"DIA X 1 1/2"LG
9	—	2	WASHER-PLAIN, 1/4"SAE
10	—	2	NUT-HEX, 1/4"-20
11	—	2	WASHER-LOCK, 1/4"
12	45507-8	.1	SEALANT-SILICONE, 6 OZ.
13	460433-2	1	SCREW-SET, 3/8"-16 X 1" LG



NOTES 1A & 1B	
VALVE SIZE DIA.	DIM "C"
4", 6", 8", 10" & 16"	0" ±.064"
12" & 14"	1/16" ±.064"

40D KNIFE GATE VALVE

MANUFACTURING NOTES:

- 40D KNIFE GATE VALVES:
 - FOR VALVES WHICH HAVE WEDGE PINS (SINGLE SEATED), FOLLOW THE NEXT STEPS TO ADJUST BLADE TRAVEL PROPERLY.
 - WITH ALL WEDGE PINS REMOVED, ADJUST YOKE AT ASSEMBLY SO THAT WHEN THE BLADE IS IN THE OPEN POSITION IT WILL BE LOCATED FROM THE INSTALLED SEAT INSIDE DIAMETER AS SHOWN IN DETAIL A. TIGHTEN SET SCREW NEAR TOP OF THE YOKE.
 - CLOSE THE VALVE BY EXTENDING THE AIR CYLINDER PISTON ROD.
 - CENTER THE BLADE IN THE VALVE IN RELATIONSHIP TO THE SEAT ELASTOMER O.D.
 - APPLY RTV SILICONE SEALANT (P/N 45507-8) TO THE THREADS OF THE WEDGE PINS AND SCREW THEM INTO THE BODY UNTIL THE CONICAL END CONTACTS THE BEVELED PART OF THE BLADE.
 - OPEN THE VALVE BY RETRACTING THE AIR CYLINDER PISTON ROD.
 - SCREW IN BOTH WEDGE PINS 1 1/2 TURNS AND LOCK IN PLACE WITH THE JAM NUTS.
 - FOR VALVES WHICH HAVE NO WEDGE PINS (DOUBLE SEATED), FOLLOW THE NEXT STEP TO ADJUST BLADE TRAVEL PROPERLY.
 - ADJUST YOKE AT ASSEMBLY SO THAT WHEN THE BLADE IS IN THE OPEN POSITION IT WILL BE LOCATED FROM THE INSTALLED SEAT INSIDE DIAMETER AS SHOWN IN DETAIL A. TIGHTEN SET SCREW NEAR TOP OF THE YOKE.
- 150W KNIFE GATE VALVES:
 - ADJUST YOKE AT ASSEMBLY SO THAT THE BEVELED END OF THE BLADE CONTACTS THE BEVEL IN THE BOTTOM OF THE LINER. TIGHTEN SET SCREW NEAR TOP OF YOKE.
- WIRE TAG TO BRACKET USING STAINLESS STEEL WIRE. TAG SUPPLIED ON 1918-3.
- POSITION CYLINDER CONNECTION PORTS AND LIMIT SWITCH/PROXIMITY SWITCH MOUNTING HOLES IN THE CYLINDER BRACKET ON THE SAME SIDE AS THE "SEAT" MARKING ON THE BODY. THIS DOES NOT APPLY TO (40D) VALVES WITHOUT WEDGE PINS (CROSSOVER STYLE) WHICH DO NOT HAVE THE "SEAT" MARKING ON EITHER SIDE OF THE BODY.
- LIMIT SWITCHES, PROXIMITY SWITCHES, MOUNTING BRACKETS & HARDWARE, IF SPECIFIED, ARE NOT ASSEMBLED AND ARE TO BE KITTED WITH VALVE UNLESS SPECIFIED AS PRE-ASSEMBLED ON 5-1918-3 (40D) OR 5-1919-2 (150W). SEE SHIPPING INSTRUCTIONS #91072 & DWG #5-1918-3 (40D) OR #91059 & 5-1919-1 (150W).
- ADJUST SO THAT THERE IS AN EQUAL DISTANCE BETWEEN YOKE AND BLADE WHEN THE VALVE IS CLOSED. LOOSEN THE CONNECTING SCREWS BETWEEN THE CYLINDER/BRACKET/BODY SO COMPONENTS CAN BE MOVED TO OBTAIN CLEARANCE.
- THE STAINLESS STEEL HARDWARE OPTION IS ONLY AVAILABLE ON 150W KNIFE GATE VALVES.
- WHEN ASSEMBLY IS COMPLETED COAT THE BARE THREADED ENDS OF THE AIR CYLINDER TIE RODS AND THREADED END OF THE PISTON ROD WITH RUST PREVENTATIVE (LPS-3).
- MARK FINAL VALVE ASSEMBLY WITH APPROPRIATE UCC PART NUMBER 1918-3- () (FOR 40D) OR 1919-1- () (FOR 150W) AND SERIAL NUMBER ON NAMEPLATE.
USE A NAMEPLATE LETTERING PRESS TO IMPRESS THE 3/32" TALL CHARACTERS INTO THE NAMEPLATE. (NAMEPLATE IS SUPPLIED ON 1918-3 AND 1919-1)
- REFER TO KNIFE GATE P/N AND DWG 5-1918-3 SHT #1 FOR PROPER AIR CYLINDER PORT LOCATION.

L	ECN	751722	TOLERANCES	CYLINDER ACTUATOR REFERENCE DRAWING 40D AND 150W KNIFE GATE VALVE 4", 6", 8", 10", 12", 14" & 16"
K	Est. Wt.	SEE kg.	UNLESS OTHERWISE SPECIFIED: ALL TAPPED HOLES AND BOLT HOLES LOCATIONS TO BE .002" FRACTIONAL DIMENSIONS .002" METRIC DIMENSIONS ± .02 MM ALL ANGLES ± 1°	
J	ECN	754985	4/15/03 JWD	UNITED CONVEYOR CORPORATION 2188 NORMAN DRIVE WEST WALKEGAN, ILLINOIS 60085
H	ECN	758884	9-12-01 JR	
G	ECN	754957	12/20/00 JWD	DRAWN: CR DATE: 01/28/98 CHECKED: DCT 03/07/98 APPROVED: RJB 03/07/98 DRAWING NUMBER: 5-1918-52 REV: H
F	ECN	754948	10/16/00 JMH	
E	ECN	754935	03/01/99 JMH	REVISIONS
D	ECN	754916	5-29-97 RJB	
C	ECN	754908	1-14-97 RJB	THIRD ANGLE PROJECTION
B	ECN	751722	1-26-96	
A	ECN	751722	1-26-96	FORWARD-1982-27 1/26/96

5-1918-52 DIRECTLY REPLACES 5-1918-16

MANUFACTURING SUB-ASSEMBLY ONLY: NOT FOR SALE