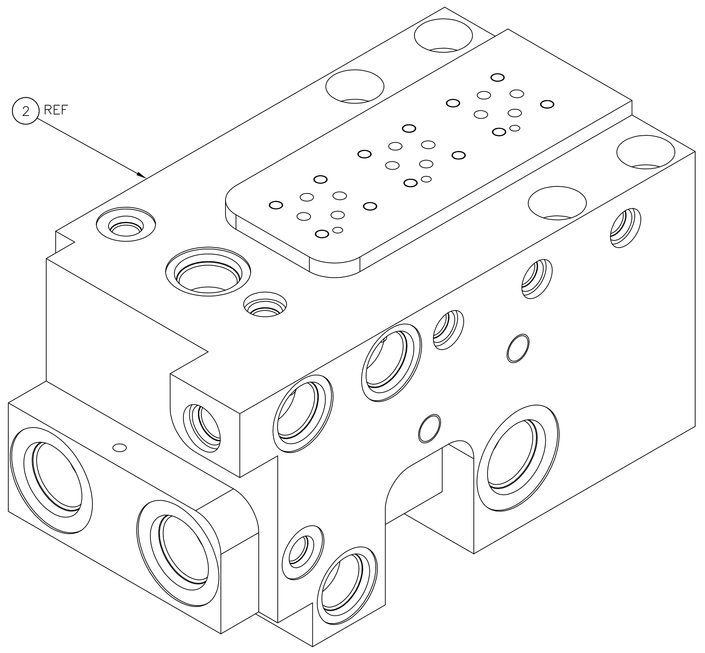
83222 SHEET 1 REV

1 OK TO USE PARTS MADE		4 NOW SHOP PRACTICE	
2 PARTS MAY BE REWORKED		5 SCRAP EXISTING PARTS	
3 RECORD CHANGE		NOTED	

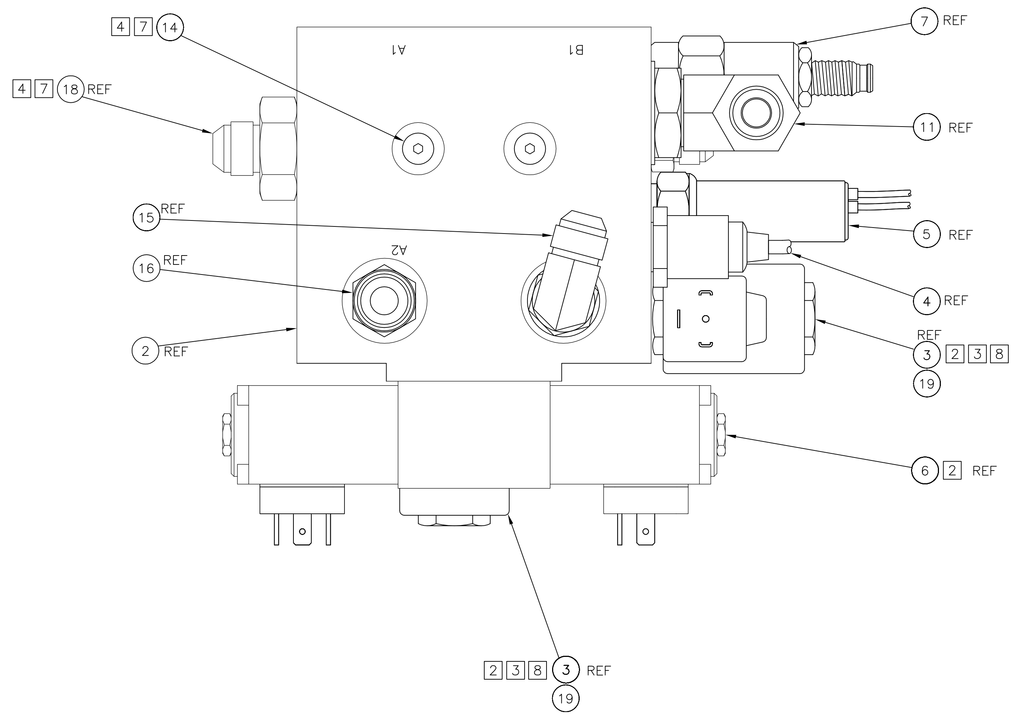
LETTER	EFFECTIVITY	CHANGE	REF	DATE	BY	CHK

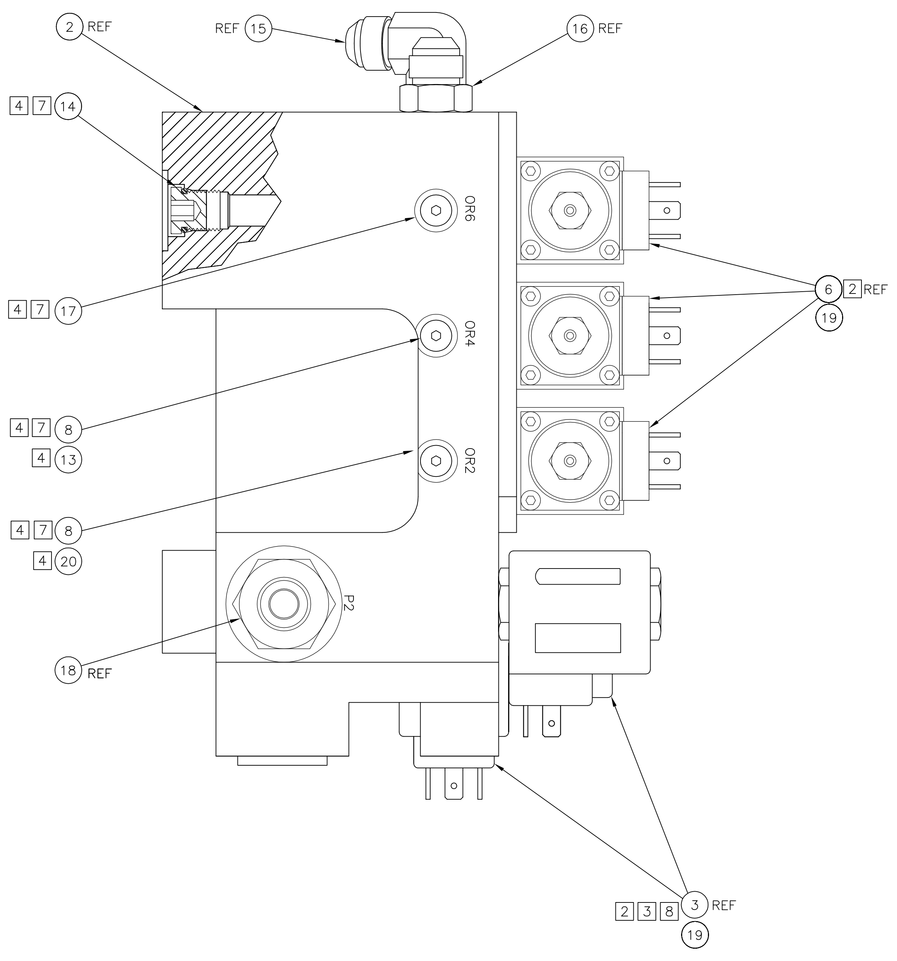
NOTES:

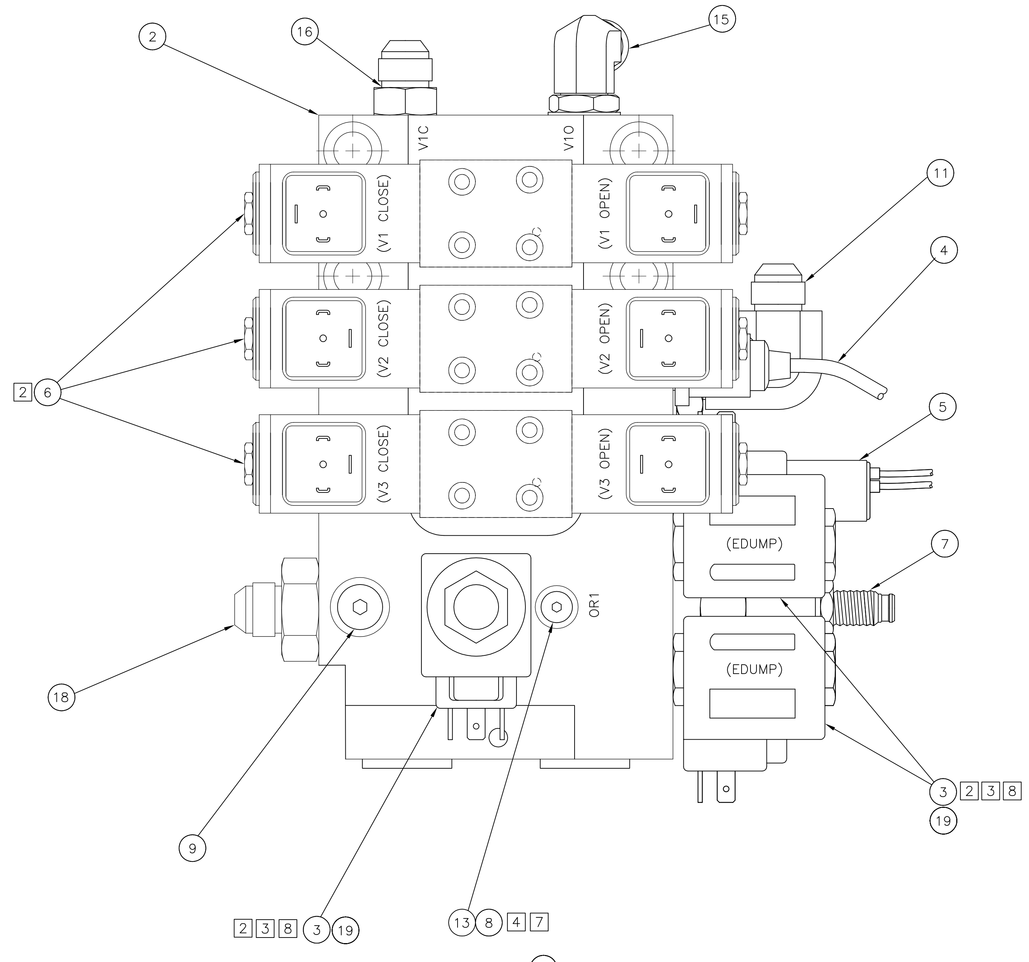
1. FOR FLUSHING PROCEDURE REFER TO RETARDANT DISPERSAL SYSTEM OPERATORS MANUAL.
2. APPLY #242 LOCKTITE TO ALL COIL RETAINER NUTS.
3. -3 AND -19 ARE PURCHASED TOGETHER AS VICKERS P/N SBV11-10-0-0-24DGH AND ROTATION OF COILS MAY BE ADJUSTED ON INSTALLATION FOR BEST ROUTING OF WIRES.
4. ALL -8,, -9, -10 AND -14 O-RING PLUGS MUST BE INSTALLED FIRST IN -2 BLOCK. INSTALL ORIFICES FIRST AS REQUIRED.
5. ENTIRE MANIFOLD ASSEMBLY CAN BE PURCHASED FROM HYDRAQUIP LESS ITEMS 4 & 5 (P/N DT-1004-802). INSTALL PLUGS IN PLACE OF 4 & 5 PRESSURE SWITCH & SENSOR.
6. AIR TRACTOR SWITCH P/N 82063-6, SHEET 2 IS AN ACCEPTABLE REPLACEMENT OR SUBSTITUTE FOR -5 PRESSURE SWITCH ASSEMBLY
7. ALL -8,, -9, -10 AND -14 PLUGS SUPPLIED WITH MANIFOLD
8. DELTA POWER SOLENOID VALVE ASSY (DIRECT ACTING) P/N DE-S2H-00-HC-24 IS AN ACCEPTABLE REPLACEMENT OR SUBSTITUTE FOR -3 AND -19 SOLENOID VALVE ASSY (PILOT OPERATED)
9. PLUG ALL PORTS AND STORE IN DUST FREE STORAGE BAG AFTER ASSEMBLY, TEST, AND CLEANING.
10. VICKERS DIRECTIONAL VALVE P/N DG4V-2-2C-M-U-H6-10 IS AN ACCEPTABLE REPLACEMENT OR SUBSTITUTE FOR -6 DIRECTIONAL VALVE
11. CLEAN AND TEST MANIFOLD ASSEMBLY ACCORDING TO PS# 210 PRIOR TO INSTALLATION

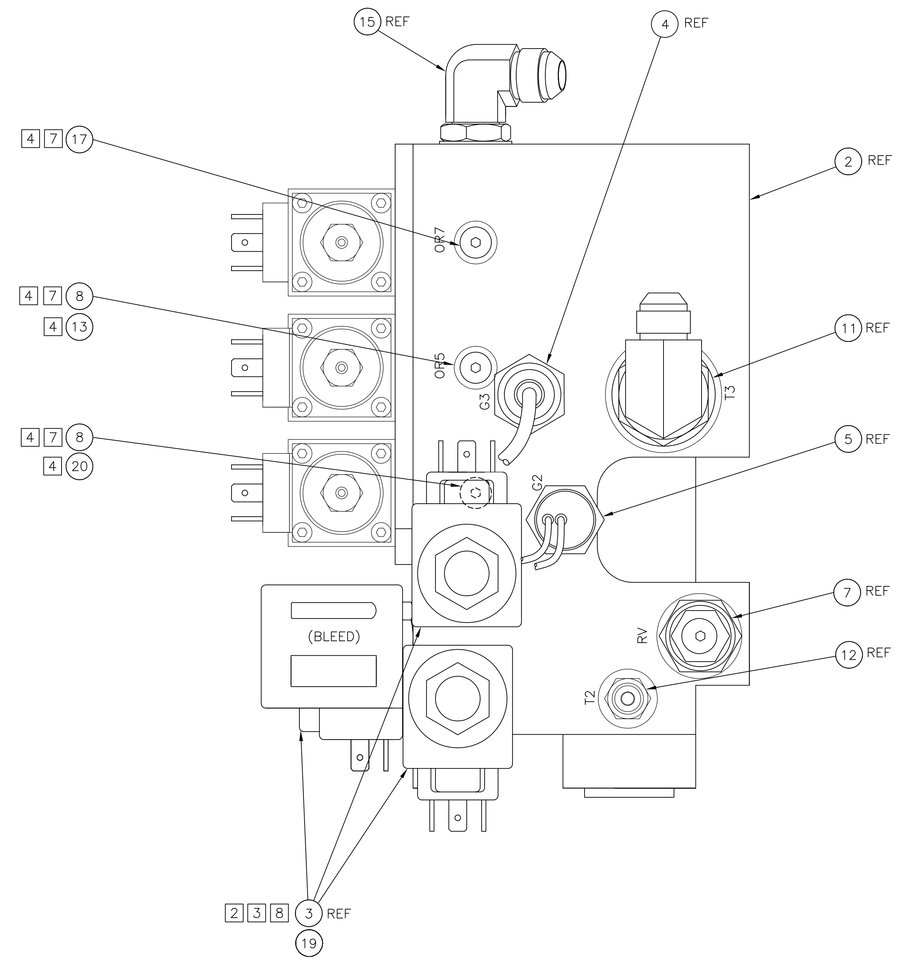


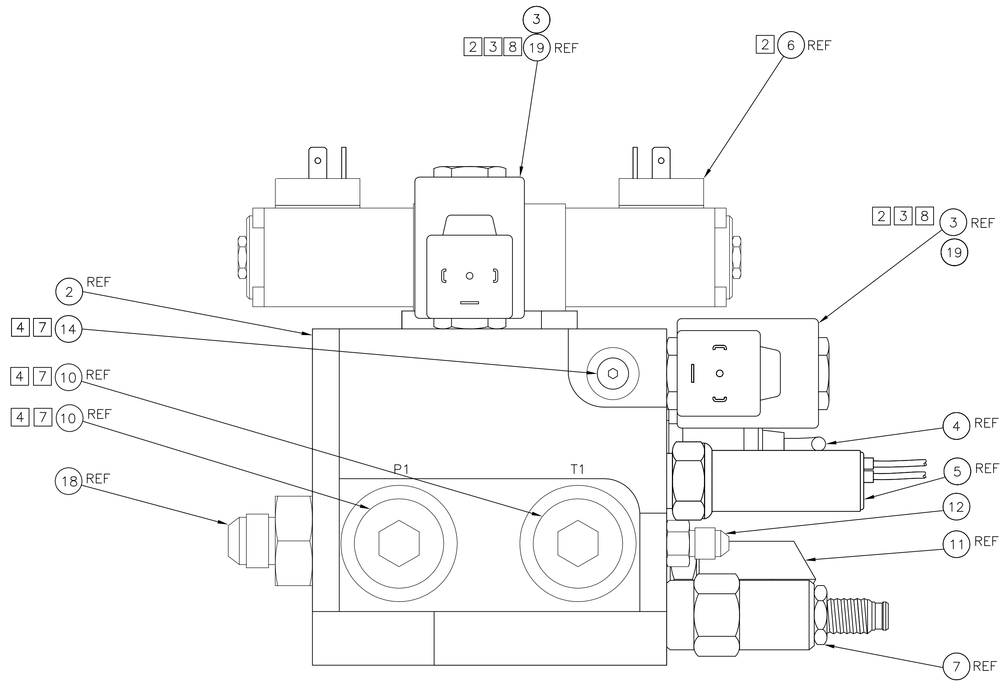
MANIFOLD BLOCK BEFORE ASSEMBLY











ITEM	PART NUMBER	NO. REQ.	PART NUMBER	NO. REQ.	DESCRIPTION	SIZE	SPEC.	ZONE	NO. REQ.	NEXT ASSEMBLY	MODEL
	OPPOSITE ASSEMBLY		SHOWN ASSEMBLY		MATERIAL						
21				/	SEE SHEET 21 FOR AT-1002						
20			7-46- 1/4-20 -6-SS	2	ORIFICE, 1/4-20 UNC x 3/8" L x ø0.046" (O'KEEFE CONTROLS CO.)						
2 3 8	19		24DGH	3	COIL, 24V DIN 43650 (VICKERS)						
	18		202702-12-8S	1	SAE-8 TO -12 O-RING ADAPTER (AEROQUIP)						
4	17		7-55- 1/4-20 -6-SS	2	ORIFICE, 1/4-20 UNC x 3/8" L x ø0.095" (O'KEEFE CONTROLS CO.)						
	16		202702-8-8S	1	SAE-8 ADAPTER (AEROQUIP)						
	15		2062-8-8S	1	SAE-8 90 ELBOW ADAPTER (AEROQUIP)						
	14		FF2138-06S	5	SAE-6 O-RING PLUG (AEROQUIP)						
4	13		7-63- 1/4-20 -6-SS	3	ORIFICE, 1/4-20 UNC x 3/8" L x ø0.063" (O'KEEFE CONTROLS CO.)						
	12		202702-4-4S	1	SAE-4 ADAPTER (AEROQUIP)						
	11		2062-12-8S	1	SAE-8 90 ELBOW TO -12 O-RING ADAPTER (AEROQUIP)						
	10		FF2138-12S	2	SAE-12 O-RING PLUG (AEROQUIP)						
	9		FF2138-05S	1	SAE-5 O-RING PLUG (AEROQUIP)						
4	8		FF2138-04S	7	SAE-4 O-RING PLUG (AEROQUIP)						
	7		------	1	RELIEF VALVE (STERLING) (P/N A04B2PZN)						
2 10	6		------	3	DIRECTIONAL VALVE (WANDFLUH)(P/N WDMFB04-ACB-G24)						
6	5		82063-1	1	PRESSURE SWITCH ASSEMBLY						
	4		------	1	HYD. PRESS. X-DUCER (5850-0006-01-01)(TROTTER CONTROLS						
2 3 8	3		SBV11-10	3	3 CARTRIDGE VALVE, (VICKERS)						
	2		83221-1	1	MANIFOLD BLOCK (ALT. P/N 15-5507 HYDRAQUIP)						
5 11	1		83222-1	✓	ASSY (ALT. P/N DT-1004-802 HYDRAQUIP)				1	81424	802F

REMOVE ALL BURRS AND SHARP CORNERS	DRAWN JAH	DATE 10/01/07	CHECKED VT
WELD	APPROVED	EFFECTIVITY 802F-0283	
FINISH NONE	TOLERANCES EXCEPT AS NOTED		
HEAT TREAT	ANGLES ± 1 1/2°	DRILLED HOLES	
ACT. WT. CALC. WT.	FRACTIONS ± 1/16	.040 TO .1285 DIA. ± .002 - .001	
	.00 ± .030	.136 TO .228 DIA. ± .003 - .001	
	.000 ± .010	.234 TO .500 DIA. ± .004 - .001	
	.0000 ± .001	.515 TO .750 DIA. ± .005 - .001	

SNOW ENGINEERING CO.
WICHITA FALLS, TEXAS

SCALE FULL
SIZE 36 X 44
REV

TITLE
HYDRAULIC MANIFOLD ASSY
FIRE GATE - 802

DRAWING NUMBER
83222
SHEET 1