



***World Series Pump
with Integrated CAFS
(FoamLogix 2.1A and 3.3 Proportioner)***

- SPARES MANUAL -

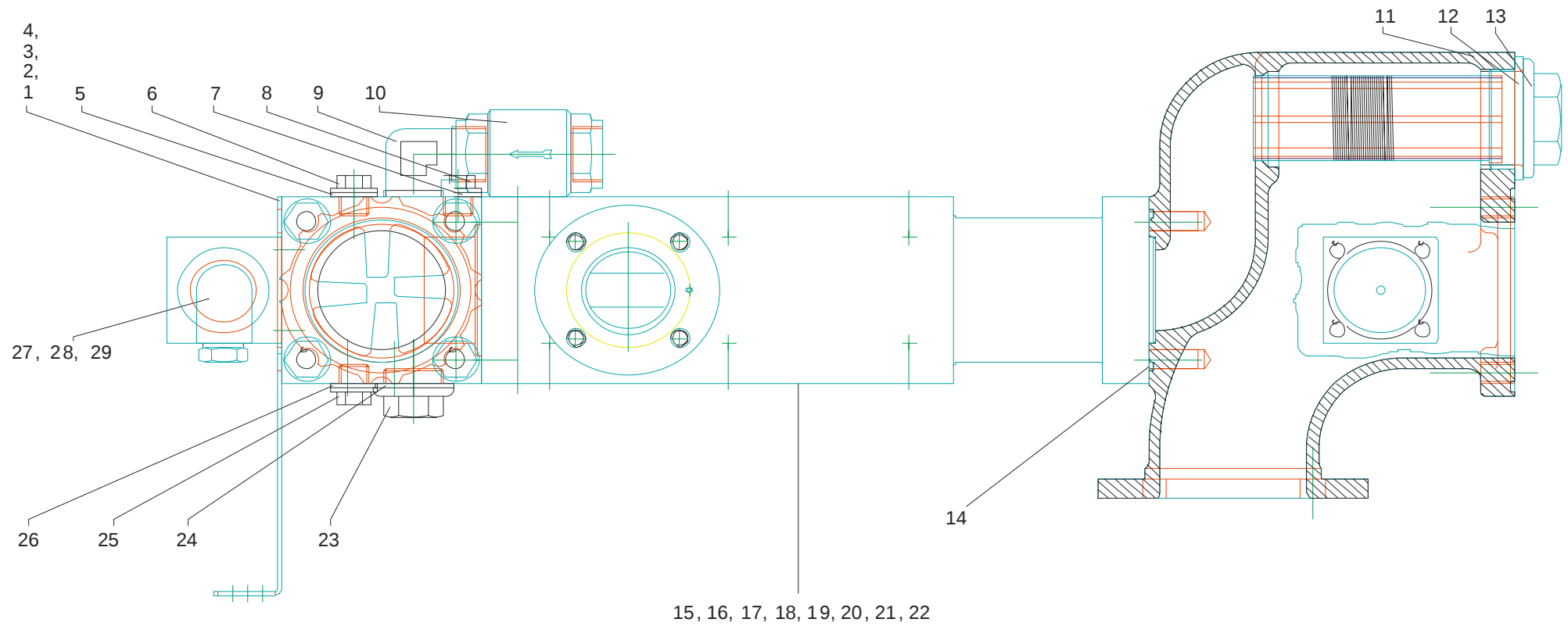


GP/232/05 Issue 3. September 2006

For revisions and new sections see
Amendment Record on page 2

Number	Date	Page/s	Amendment	New issue No.
1	December 2006	All	New Issue	Issue 1
2	April 2006	Pages 13, 15	Page 13, Item 35 – Change P/N from C1-107064 to C1-111530 Page 15, Item 39 – Change P/N from C1-107064 to C1-111530	Issue 2
3	September 2006	Page 7	Item 15 – Change P/N 60966 to C1-102714 Description remains as “Flow sensor”	Issue 3

WTAC Foam/Water/Air Mixing Manifold Top view

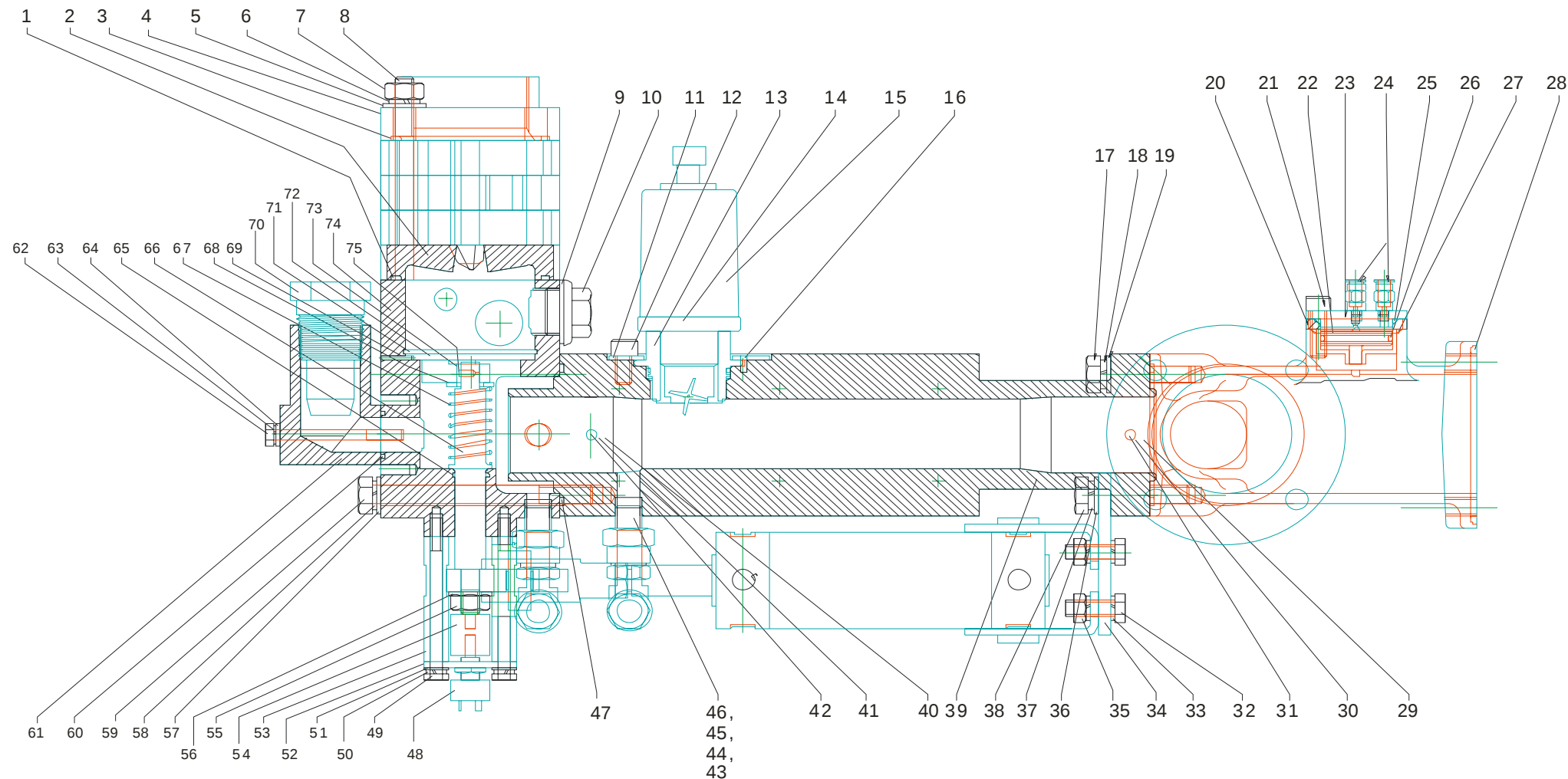




WTAC Foam/Water/Air Mixing Mnaifold – Top View

Item	Description	Part No.	Qty
1	SUPPORT BRACKET	61070	1
2	SCREW,SS HEX HD M12 X 20 LG	MS107/20	2
3	WASHER,SS STD HVY M12 (FS)	MS125/11	2
4	WASHER, SS SPG SQ M12	MS129/8	2
5	BONDED SEAL ¼"BSP SELFCEHT(FS)	UFP2303/5	1
6	PLUG SHOULDER ¼"BSP (FS)	S64/2	1
7	BONDED SEAL ¼"BSP SELFCEHT(FS)	UFP2303/5	1
8	PLUG SHOULDER ¼"BSP (FS)	S64/2	1
9	¾"BSPT ELBOW	59422	1
10	NON RETURN VALVE ¾"BSP	59104/02	1
11	FILTER ELBOW	60990	1
12	BONDED SEAL 1½"BSP SCENTER(FS)	UFP2303/15	1
13	FILTER ASSEMBLY	60051-01	1
14	O RING	UMP9818	1
15	SINGLE SUB-BASE	61075	1
16	NYLON TUBING (6DIA) (NATURAL)	59089MA	.2 M
17	STRAIGHT ADAPTOR PUSH-IN 6-¼	59082/06	2
18	SWIVEL ELBOW CONN 6-¼	59189/05	2
19	SILENCER ¼"BSP	59085/01	2
20	SCREWDRIVER FLOW REGULATOR	61032	1
21	SCREW,SKT HD CAP M4 X 25LG	MS61H/25	2
22	SOLENOID OPERATION VALVE	61031	1
23	PLUG SHOULDER ¾"BSP (FS)	S64/6	1
24	BONDED SEAL ¾"BSP SELFCEHT(FS)	UFP2303/10	1
25	PLUG SHOULDER ¼"BSP (FS)	S64/2	1
26	BONDED SEAL ¼"BSP SELFCEHT(FS)	UFP2303/5	1
27	TUBING NUT (KB)	DFP7594/7	2
28	OLIVE (KB)	DFP7593/7	1
29	MALE ELBOW ADAPTOR ½-½BSPT(KB)	54723/05	1

WTAC Foam/Water/Air Mixing Manifold
Side view 1

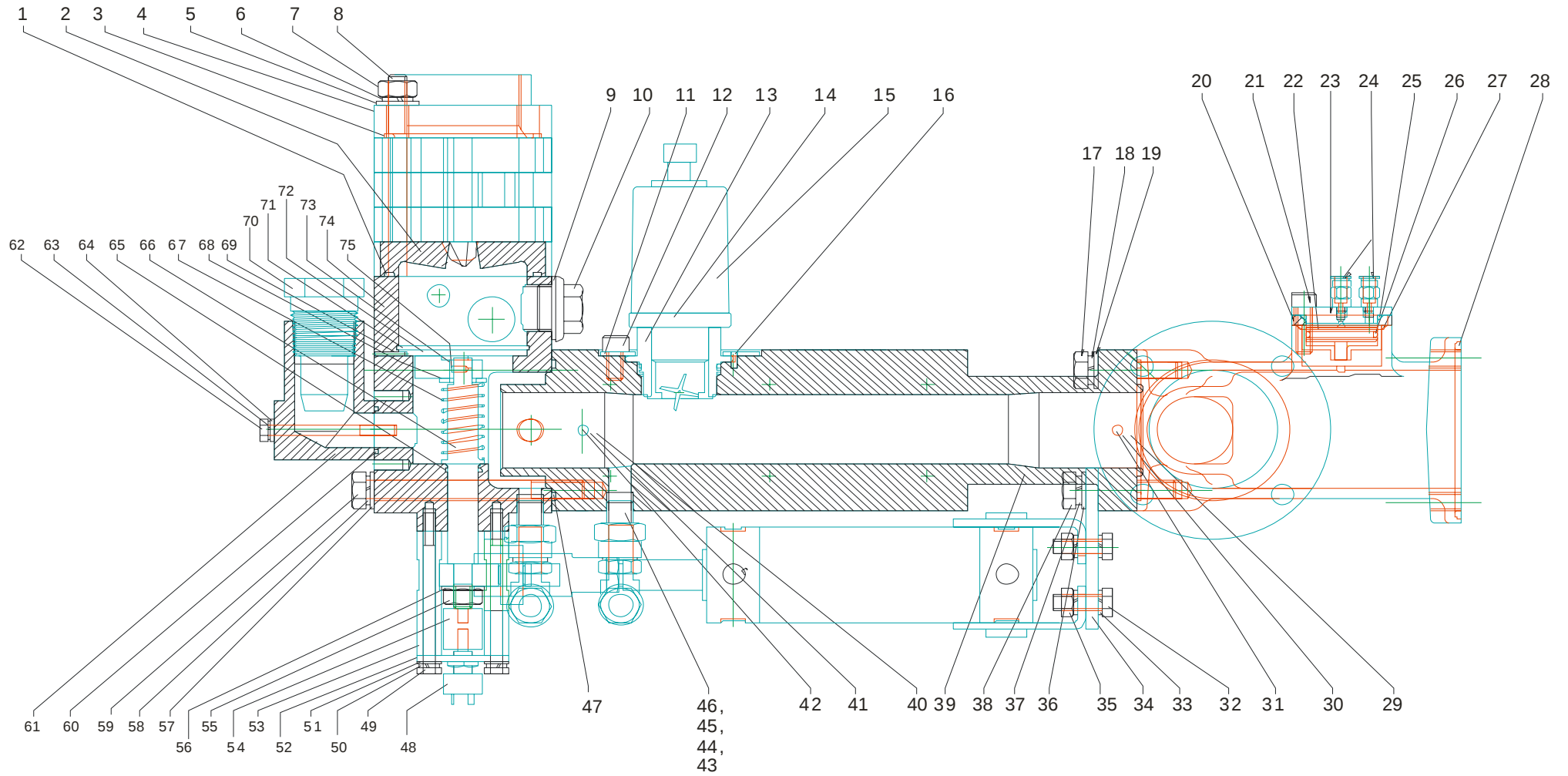




WTAC Foam/Water/Air Mixing Mnaifold – Side View 1

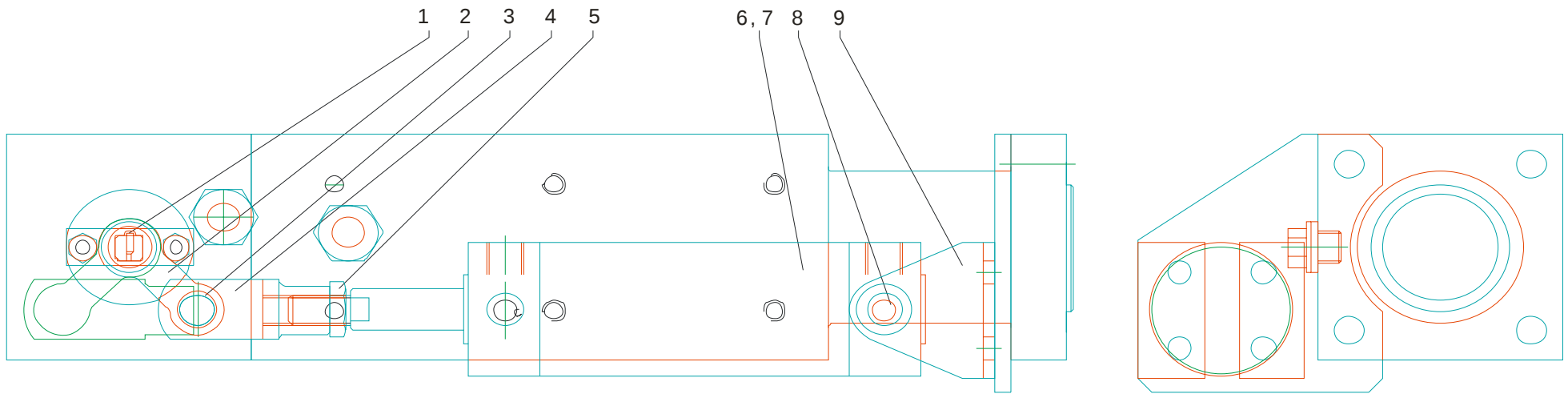
Item	Description	Part No.	Qty
1	O RING	53866	4
2	MIXER FLANGE	59316	4
3	O RING	53866	1
4	OUTLET ADAPTOR 2"BSP	61030	1
5	WASHER,SS STD HVY M10 (FS)	MS125/10	4
6	WASHER,SS SPG SQ M10 (FS)	MS129/7	4
7	NUT,SS FULL M10 (FS)	MS135/9	4
8	STUD, M10X110LG	MS49/110	4
9	PLUG SHOULDER ¾"BSP (FS)	S64/6	1
10	BONDED SEAL ¾"BSP SELFCEMENT(FS)	UFP2303/10	1
11	CLAMP RING	60959	1
12	SCREW,SS SKT HD CAP M8 X16(FS)	MS164/16	4
13	FLOW SENSOR MOUNTING ADAPTOR	60967/01	1
14	SCREW part of item 15 Flow Sensor	60968	4
15	FLOW SENSOR	C1-102714	1
16	SPIROL PIN,SS D2.5 X 8	MS177/53	1
17	BOLT,HEX HD M10X45LG	MS18/45	2
18	WASHER, SPRING SQUARE M10 (FS)	MS29/7	2
19	WASHER,STD HVY M10 (FS)	MS25/10	2
20	HOUSING - FLOW RATE PISTON	60964	1
21	SCREW,SS SKT HD CAP M8X25 (FS)	MS164/25	4
22	FLOW RATE PISTON	60963	1
23	HOUSING - FLOW RATE	60965	1
24	STRAIGHT ADAPTOR PUSH-IN 6-M5	59268	2
25	O RING	PDP12416	1
26	O RING	PDP12416	1
27	O RING I/D 37.6 X 2.4 (FS)	UMP9700	1
28	O RING I/D 89.5 X 3.0	10701	1
29	CHECK VALVE 1½"DIA	60962	1
30	BONDED SEAL M5 SELFCEMENT (FS)	MS33/5	2
31	HEX HD BOLT S.S. 10UNF X 1½"LG	60961/01	2
32	SCREW,HEX HD M8 X 25 LG (FS)	MS05/25	4
33	WASHER,SPG SQ M8 (FS)	MS29/6	8
34	CYLINDER MOUNTING PLATE	61023	1
35	NUT,FULL M6 (FS)	MS35/7	4
36	WASHER,STD HVY M10 (FS)	MS25/10	2
37	WASHER, SPRING SQUARE M10 (FS)	MS29/7	2
38	BOLT,HEX HD M10 X 50LG	MS18/50	2
39	FLOW METER MANIFOLD	60943/01	1
40	CHECK VALVE 1½"DIA	60962	1

WTAC Foam/Water/Air Mixing Manifold Side view 1



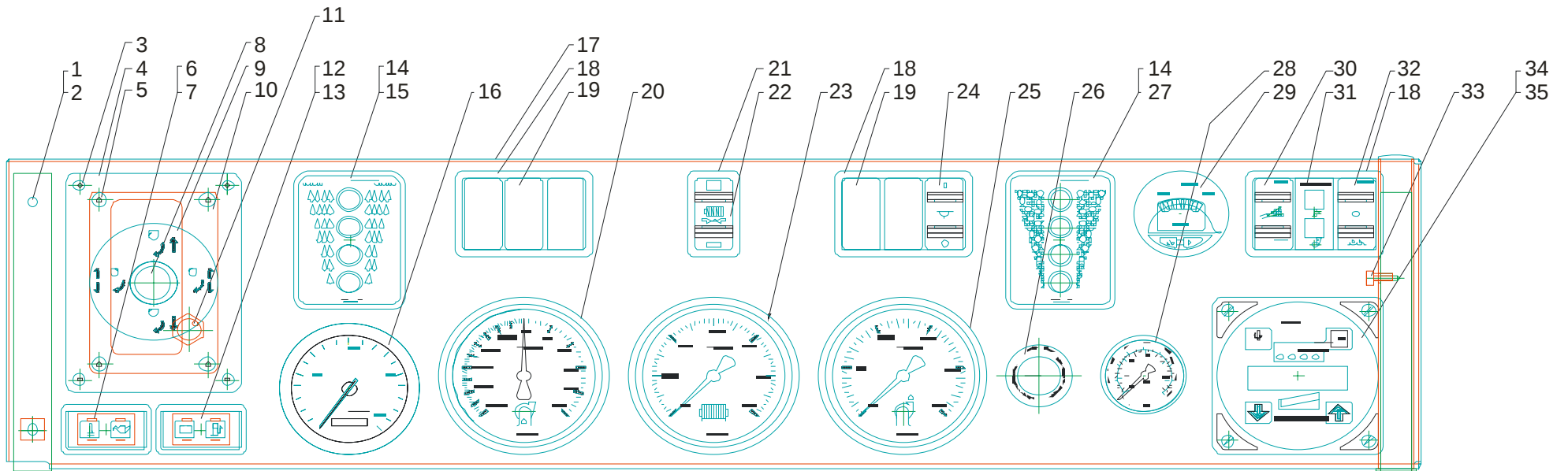
Item	Description	Part No.	Qty
41	BONDED SEAL M5 SELF CENTER (FS)	MS33/5	2
42	HEX HD BOLT S.S. 10UNF X 1½"LG	60961/01	2
43	ADAPTOR STR ¼ BSPT X 12MM TUBE	55348/02	1
44	TUBING NUT (KB)	51171	2
45	SLEEVE (KB)	51170	2
46	STEM ELBOW CONN 12T X 12 DIA	57522	1
47	O RING	UMP9818	1
48	POTENIOMETER PE30 SERIES	61027	1
49	BOLT, HEX HD M6 X 85 LG	MS16/85	2
50	WASHER,SPG SQ M6 (FS)	MS29/5	2
51	WASHER,STD HVY M6 (FS)	MS25/7	2
52	MOUNTING PLATE	60987	1
53	SPACER	60986/01	2
54	FLEXIBLE COUPLING	61026	1
55	NUT,SS FULL M10 (FS)	MS135/9	1
56	WASHER,SS STD HVY M10 (FS)	MS125/10	1
57	WASHER,STD HVY M10 (FS)	MS25/10	4
58	WASHER, SPRING SQUARE M10 (FS)	MS29/7	4
59	BOLT,HEX HD M10 X 110LG	MS18/110	4
60	O RING 22.1IDX1.6 SECT	57707	1
61	FOAM INLET ADAPTOR	61018	1
62	BOLT,HEX HD M6 X 65	MS16/65	2
63	WASHER,SPG SQ M6 (FS)	MS29/5	2
64	WASHER,STD HVY M6 (FS)	MS25/7	2
65	O RING 15.1 DIA X 1.6 DIA	60192	1
66	SPINDLE	60947/01	1
67	COMPRESSION SPRING	60957	1
68	WASHER,SS STD HVY M12 (FS)	MS125/11	1
69	2.5MM DOWEL	MS176/18	1
70	CHECK VALVE INJECTOR	038-1790-00-0	1
71	INTERNAL ST.ST CIRCLIP Ø63 BOR	61025	1
72	ORIFICE PLATE	60955/01	1
73	QUADRANT PLATE	60954/01	1
74	FOAM INLET ORIFICE HOUSING	60945/01	1
75	SPIROL PIN,SS D2.5 X 8	MS177/53	1

WTAC FoamLogix Manifold side view 2



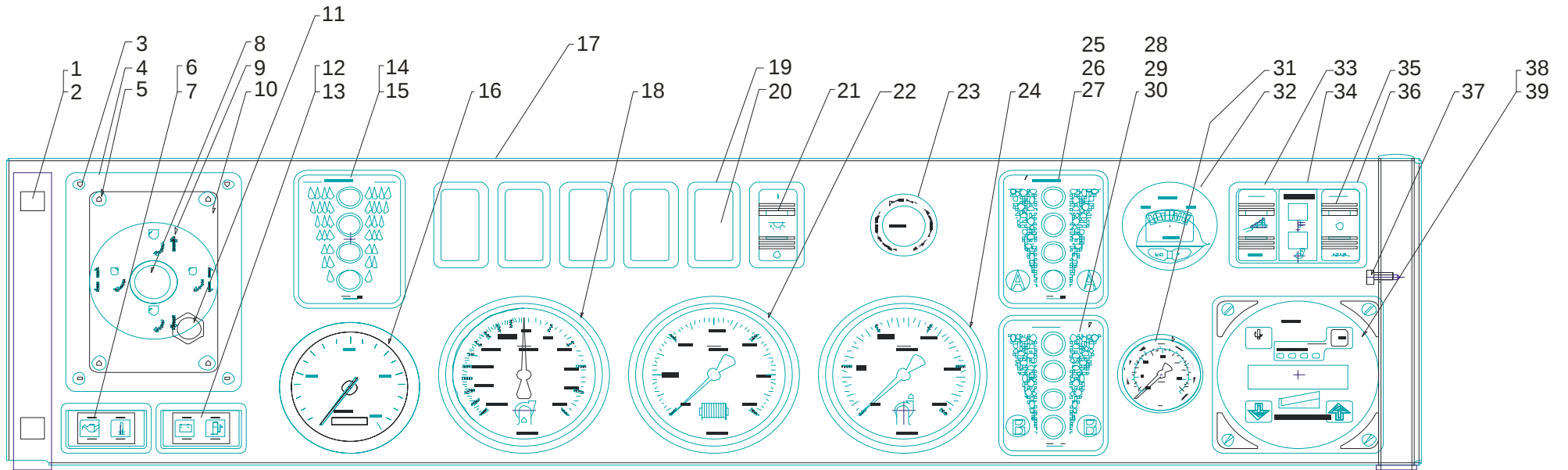
Item	Description	Part No.	Qty
1	SPIROL PIN,SS D2.5 X 8	MS177/53	1
2	ACTUATOR	60984/01	1
3	DU BEARING	56949/04	1
4	PISTON ROD CLEVIS	61022	1
5	PISTON ROD LOCK NUT	61021	1
6	SWIVEL ELBOW CONN 6-¼	59189/05	2
7	CYLINDER Ø50 BORE 80 STROKE	61019	1
8	END COVER TRUNNION Ø50 CYL	61024	1
9	REAR HINGE Ø50 CYLINDER	61020	1

WTAC Instrument Panel (FoamLogix 2.1A) Front view



Item	Description	Part No.	Qty
1	RETAINER - DZUS 6MM	51562	10
2	RECESSED STUD DZUS 6MM	51561/04	2
3	SOCKET BUTTON HD SCW M4 X 12LG	59347/03	4
4	JOYSTICK MOUNTING PLATE	61008/01	1
5	SOCKET BUTTON HD SCW M5 X 12LG	59347/02	4
6	PLUG RED/RED, ENG TEMP, OIL WARNING	60535/05	1
7	SWITCH MOUNT 1-WAY	60534/01	1
8	JOYSTICK (4-POS'N)	61003/02	1
9	LABEL-SPEED UP/DOWN/IDLE	61017	1
10	ALUM ENCLOSURE MODIFICATION	61002	1
11	CABLE GLAND	57045	1
12	PLUG RED/AMBER, BATTERY, LOW FUEL	60535/06	1
13	SWITCH MOUNT 1-WAY	60534/01	1
14	SCREW,C/SNK.M3 X 10LG (FS)	MS72/30	8
15	TANK WATER LEVEL INDICATOR	C1-ITL12099	1
16	TACHOMETER/HRS COUNTER	60305	1
17	INSTRUMENT PANEL	60630/09	1
18	SWITCH MOUNT 3-WAY	60534	3
19	SWITCH MOUNT BLANKING PLUG	60536	5
20	COMPOUND GAUGE -1 TO 25BAR+SYM	50226/09	1
21	SWITCH MOUNT 1-WAY	60534/01	1
22	SWITCH – HIGH PRESSURE / LOW PRESSURE	60533/23	1
	NO SWITCH - BLANKING PLUG	60536	1
23	PRESSURE GAUGE 0-60 BAR	50227/20	1
24	SWITCH-PUMP BAY LIGHTS	60533/04	1
25	PRESSURE GAUGE 0-25BAR +SYMBOL	50227/21	1
26	EMERGENCY STOP SWITCH	61004	1
27	FOAM TANK LEVEL	C1-ITL12111	1
28	PRESSURE GAUGE 0-10BAR	50227/17	1
29	WET/DRY FOAM GAUGE	60989	1
30	SWITCH - WET/DRY	60533/24	1
31	ILLUMINATED PLUG RED-RED	60535/01	1
32	SWITCH - CAFS/FOAM	60533/25	1
33	SCREW,SS HEX HD M5 X 12LG	MS103/12	1
34	SCREW,SS C/SNK M4X16LG	MS172/40	4
35	FOAMLOGIX CONTROL PANEL	C1-1111530	1

WTAC Instrument Panel (FoamLogix 3.3) Front view



Item	Description	Part No.	Qty
1	RETAINER - DZUS 6MM	51562	10
2	RECESSED STUD DZUS 6MM	51561/04	2
3	SOCKET BUTTON HD SCW M4 X 12LG	59347/03	4
4	JOYSTICK MOUNTING PLATE	61008/01	1
5	SOCKET BUTTON HD SCW M5 X 12LG	59347/02	4
6	PLUG RED/RED, ENG TEMP, OIL WARNING	60535/05	1
7	SWITCH MOUNT 1-WAY	60534/01	1
8	JOYSTICK (4-POS'N)	61003/02	1
9	LABEL-SPEED UP/DOWN/IDLE	61017	1
10	ALUM ENCLOSURE MODIFICATION	61002	1
11	CABLE GLAND	57045	1
12	PLUG RED/AMBER, BATTERY, LOW FUEL	60535/06	1
13	SWITCH MOUNT 1-WAY	60534/01	1
14	SCREW,C/SNK.M3 X 10LG (FS)	MS72/30	4
15	TANK WATER LEVEL INDICATOR	C1-ITL12099	1
16	TACHOMETER/HRS COUNTER	60305	1
17	INSTRUMENT PANEL	60630/12	1
18	COMPOUND GAUGE -1 TO 25BAR+SYM	50226/09	1
19	SWITCH MOUNT 1-WAY	60534/01	6
20	SWITCH MOUNT BLANKING PLUG	60536	5
-	SWITCH – HI PRES/LO PRES – IF FITTED	60533/23	1
21	SWITCH-PUMP BAY LIGHTS	60533/04	1
22	PRESSURE GAUGE 0-60 BAR	50227/20	1
23	EMERGENCY STOP SWITCH	61004	1
24	PRESSURE GAUGE 0-25BAR +SYMBOL	50227/21	1
25	FOAM "A" LABEL	59533	1
26	SCREW,C/SNK.M3 X 10LG (FS)	MS72/30	4
27	FOAM TANK LEVEL	C1-ITL12111	1
28	FOAM "B" LABEL	59533/01	1
29	SCREW,C/SNK.M3 X 10LG (FS)	MS72/30	4
30	FOAM TANK LEVEL	C1-ITL12111	1
31	WET/DRY FOAM GAUGE	60989	1
32	PRESSURE GAUGE 0-10BAR	50227/17	1
33	SWITCH - WET/DRY	60533/24	1
34	ILLUMINATED PLUG RED-RED	60535/01	1
35	SWITCH - CAFS/FOAM	60533/25	1
36	SWITCH MOUNT 3-WAY	60534	3
37	SCREW,SS HEX HD M5 X 12LG	MS103/12	1
38	SCREW,SS C/SNK M4X16LG	MS172/40	4
39	FOAMLOGIX CONTROL PANEL	C1-111530	1

