

Stephens Pneumatics, Inc.
147 County Road 4840
Haslet, Texas 76052



10,500 Gal, TWO-COMPT. DOT407 Aluminum Double Conical Transport Tank

(A) BARREL ASSEMBLY

- | | |
|--|---|
| 1- DESIGN | 5454-H32 ALUMINUM ALLOY FOR SHELL. 5454-0 ALUMINUM ALLOY FOR HEADS. DOUBLE CONICAL WITH 10" DROP TO CENTER, 50/50 SPLIT, 30 PSIG PRESSURE RATING. <u>49' OAL.</u> |
| 2- CAPACITY | TWO-COMPARTMENT 10,500 U.S. GALLONS UP TO +3% TOLERANCE WITH 4" PRESSURE EQUALIZATION PIPE ON TOP OF THE TANK. |
| 3- INTERNAL WELD FINISH | AS WELDED |
| 4- EXTERNAL WELD FINISH | AS WELDED, SMOKE AND DISCOLORATION REMOVED |
| 5- TEMPERATURE | 180° F |
| 6- CODE | DOT 407 30psig MAWP |
| 7- BAFFLES | FOUR (4) FULL CIRCLE 5454-0 ALUMINUM ALLOY, SANITARY FLANGE WELDED BOTH SIDES WITH 3" DRAINS AT 3:00 AND 9:00 O'CLOCK. BOTTOM TUNNEL APPROXIMATELY 6 1/2" X 6 1/2" AND REINFORCED AT CENTER |
| 8- RINGS | 5" ALUMINUM RINGS |
| 9- VENT | (2) FORT VALE 3" THREADED PRESSURE/VACUUM RELIEF VENTS. DESIGNED TO BE THREADED TO 3" NPT NOZZLES. LOCATE PRESSURE GAUGES ON STREET-SIDE TO BE VIEWED FROM GROUND, CLOSE TO TITAN DIGITAL READ-OUTS. |
| 10- MAGNETIC VACUUM BREAKER (MVB) | INCORPORATED IN FORT VALE VENT |
| 11- VAPOR RECOVERY | (1) 3" SureSeal AIR TO OPEN/ SPRING TO CLOSE Butterfly VALVE IN SPILLDAM, ACTUATED WITH BETTS #20931 VALVE OPERATOR LOCATED WITH EMERGENCY VALVE OPERATORS.
3" LINE FOLLOWS TOP OF TANK AND DOWN REAR HEAD. USING TWO 45 DEG ELBOWS ILO 90 DEG ELBOW, ENDING BEHIND BUMPER WITH MALE ADAPTER AND CAP. |
| 12- CLEANOUTS | FOUR 3" BOLTING RINGS WITH BLIND FLANGES EVENLY SPACED, TOP CENTER LINE OF TANK OUTBOARD OF BAFFLES. (4) 4" BLIND FLANGES; LOCATE AT 3 O'CLOCK AND 9 O'CLOCK AT MIDDLE OF EACH COMPARTMENT. |

13- GASKETS	GASKETS FOR ALL FLANGES ARE CORK/BUNA.
14- MANHOLE	(2) KNAPPCO #LM1110 20" FULL OPENING DOME WITH SIX HOLD DOWNS AND HINGED AWAY FROM LADDER WITH BUNA-N GASKET
15- SPILLDAM	LOCATED AT APPROXIMATE CENTER OF TRAILER WITH ROLLOVER PROTECTION, 1-1/2" DRAIN HOSE BOTH SIDES AT BOTTOM (ONE 3" NIPPLE FOR VENT ONE 1" COUPLING FOR OVERFILL, ONE 3" FLANGE FOR VAPOR RECOVERY VALVE, ONE 20" DOME.)
16- EMERGENCY VALVE	(2) 6" BETTS ALUMINUM 90deg. ELBOW, AIR OPERATED EMERGENCY VALVES, BOTH ELBOWED TO STREETSIDE. OPERATOR #20931 INSTALLED IN STREETSIDE PIPING SUPPORT CHANNEL WITH PROTECTION COVER.
17- PIPING AND VALVING	<p>6" ALUMINUM LINE TOWARDS STREETSIDE AND TEED TOGETHER WITH 6" BETTS WD604ALU001 VALVE SEPERATING THE TWO LINES. THEN FRONT AND REAR LINE TO A BELLED 6" x 4" ECCENTRIC REDUCER TO 4" ALUMINUM LINE AND 4" BETTS WD404ALV BUTTERFLY VALVES.</p> <p>FRONT DISCHARGE: LINE CONTINUES FORWARD TO A 4" WD404ALV BUTTERFLY VALVE, THEN TO A CROSS FORWARD OF EMERGENCY VALVE, (THIS CROSS SHOULD BE CLOSER TO EMERGENCY VALVE THAN STANDARD TO ALLOW MORE DISTANCE BETWEEN OUTLETS ON THE STREETSIDE AND CURBSIDE). CURBSIDE AND STREETSIDE LINES END WITH 4" WD404ALV BUTTERFLY VALVES AND 4" ALUMINUM MALE ADAPTERS AND CAPS. CONTINUE FORWARD FROM CROSS INTO PUMP INLET.</p> <p>EXIT PUMP WITH A 4" LINE TO STREETSIDE AND CURBSIDE, ENDING WITH 4" BETTS WD404ALV BUTTERFLY VALVES, 4" X 3" REDUCING ALUMINUM MALE ADAPTERS, AND DUST CAPS.</p> <p>REAR DISCHARGE: LINE CONTINUES REARWARD TO A 4" WD404ALV BUTTERFLY VALVE, THEN TO A TEE FORWARD OF REAR SUBFRAME. CURBSIDE AND STREETSIDE LINES END WITH 4" WD404ALV BUTTERFLY VALVES AND 4" ALUMINUM MALE ADAPTERS AND CAPS.</p>
<u>(B) TANK ATTACHMENTS</u>	
1- LADDER	ALUMINUM MOUNTED STREETSIDE AT SPILLDAM, BOLTED TOP AND BOTTOM
2- WALKWAY	PLATFORM STEP AS TRANSITION BETWEEN LADDER AND SPILLDAM
3- FENDERS	FRONT; ALUMINUM SINGLE CONTOUR, STRAIGHT FRONT REAR; ALUMINUM DOUBLE CONTOUR
4- MUDFLAPS	STEPHENS LOGO, ANTI-SAIL.
5- CABINET	ALUMINUM (24" H X 48"W X 24"D LOCKABLE) TWO DOOR CABINET MOUNTED STREETSIDE IN FRONT OF TANDEM .
6- TIRE CARRIER	NONE

7- HOSE CARRIER TWO (2) ALUMINUM HOSE TUBES, 8" DIAMETER, 21' LENGTH, MOUNTED FULL TO REAR, ONE EACH CURBSIDE AND STREETSIDE WITH DOORS AT FRONT ONLY, HINGES DOWN

8- PLACARD HOLDERS (4ea) ALUMINUM **SLIDE IN PLACARDS**, REACHABLE FROM GROUND, (1ea) FRONT HEAD CENTER STREETSIDE, (1ea) REAR SUBFRAME STREETSIDE, (2ea) FACING CURBSIDE AND STREETSIDE ON RING CENTER OF TANK

9- DOCUMENT HOLDER AT FRONT SUBFRAME STREETSIDE

(C) CHASSIS AND RUNNING GEAR

1- UPPER COUPLER HEAVY DUTY STEEL UPPER COUPLER WITH OFFSET PIN ADJUSTABLE IN 1-1/2" INCREMENTS

2- LANDING GEAR HOLLAND 2-SPEED ROLL UP MOUNTED WITH STREETSIDE CRANK.

3- SUBFRAME AT TANDEM **GALVANIZED CARBON STEEL**

4- BUMPER / UNDERRIDE CARBON STEEL

5- SUSPENSION **INTRAAX TRI-AXLE** SUSPENSION. WITH **52" SPREADS**. OUTFITTED WITH LIGHTWEIGHT HUB AND DRUMS AND ENCLOSED AIR CONTROLS.

6- AXLES (3) 25,000# CAPACITY AXLES, 77-1/2" TRACK
(REAR AXLE ONLY TO BE LIFTABLE)

7- BRAKES

BRAKE CHAMBERS TYPE 3030

AUTOMATIC SLACK ADJUSTERS AUTOMATIC SELF ADJUSTING

HUBS/DRUMS CONMET HUBS AND CENTERFUSE DRUMS

FASTENING METHOD HUB PILOTED, SINGLE CAP NUT (10 STUD)

OIL SEALS STEMCO

DUST SHIELDS **YES**

ANTILOCK BRAKING SYSTEM (4) SENSOR, (2) MODULATOR SYSTEM. ANTILOCK INDICATOR AMBER LIGHT LOCATED ON STREETSIDE REAR

8- TIRES

SIZE (12) 11R24.5, STANDARD PROFILE.

MANUFACTURER BRIDGESTONE **R-195**

SPARE TIRE NONE

9- WHEELS (12) 8.25 X 24.5 ALUMINUM HUB PILOT DISC, **MACHINE** FINISH

(D) MISCELLANEOUS

1- PAINT POLYURETHANE GRAY ON CARBON STEEL PARTS ONLY
GALVANIZED REAR FRAME

2- AIR & ELECTRICAL

NOSEBOX CENTERED ON HEAD WITH CIRCUIT BREAKERS

LIGHTS, TYPE TRUCK LITE LED, SEALED LIGHTS

OTHER LIGHTS **INSTALL TWO GROTE #63611 LED BACKUP LIGHTS ON REAR LIGHT BOXES FACING TOWARD THE REAR, WIRED ON BLUE WIRE. ADD TWO BETTS SWIVEL SEALED-BEAM WORK LIGHTS TO THE REAR OF FRONT CURBSIDE AND STREETSIDE FENDERS MOUNTED UP HIGH ON FENDER BRACE.**

	USE ONE SWITCH TO OPERATE ALL 4 WORKLIGHTS AND MOUNT IT NEAR STREETSIDE WORK AREA.
3- MARKER RODS	NONE (PROVISION ONLY)
4- CONSPICUITY	PER NHTSA REQUIREMENTS, (3M TAPE)
5- DECALS	INSTALL STANDARD SAFETY DECALS AND STEPHENS DECALS ON EACH HEAD
HM-183 TEST DECALS	FRONT, STREETSIDE ON BARREL & STATE INSPECTION
CUSTOMER DECALS	NONE
6- TOW HOOK	(2) MOUNTED ON REAR FRAME RAILS
7- VOLUME GAUGE	(2) TITAN LOGIX #TD80 ELECTRONIC GAUGES WITH DIGITAL READOUTS, GAUGE TUBES MOUNT IN 1" COUPLINGS IN TOP OF TANK WITH GAUGE SUPPORT BRACKETS IN BOTTOM OF TANK. VOLUME GAUGE READOUTS ARE MOUNTED IN GAUGE BOX ON STREETSIDE FRONT FENDER.
ALARM HORN	NONE
ADDITIONAL CABLE	NONE
8- SHOVEL HOLDER	INCLUDED
LOCATION	STREETSIDE, JUST IN FRONT OF TANDEM
9- CALIBRATION	PAPER CHART BASED ON INNAGE, 1/4" INCREMENTS TO TOP OF BARREL (NOT COLLAR) SHIPPED WITH TEST PAPERWORK
10- PRODUCT PUMP	<p>ROPER PUMP MODEL 3748MBHF. CHARLYNN 109-1101-006 HYDRAULIC MOTOER. HYDRAULIC LINE BRACKETS WILL BE PLACED CLOSE ENOUGH TO SUPPORT THE LINES RIGIDLY. THE LINES WILL BE RUN CURBSIDE, HIGH ENOUGH SO AS NOT TO INTERFERE WITH THE FENDER. PUMP WILL BE MOUNTED ON A BRACKET WITH FLEX LINES CONNECTED TO THE HYDRAULIC PIPING. BRACKET INSTALLED ON TOP OF FRONT HEAD TO SUPPORT</p> <p>THE HOSES FROM THE TRUCK TO CONNECT TO THE HYDRAULIC PIPING. MOUNT ROPER PUMP TO PREPARED LOCATION BETWEEN THE LANDING GEAR LEGS. MAKE SURE FLANGES ON TOP ARE STEEL AND THE PUMP</p> <p>BRACKET IS MOUNTED TO LANDING GEAR LEGS. ALL HYDRAULIC COMPONENTS INVOLVED IN THE OPERATION OF THE PUMP INCLUDED. HYDRAULIC PIPING TO END AT FRONT OF FRONT CURBSIDE FENDER WITH NPT THREADS.</p> <p>PUMP INCLUDES A VITON MECHANICAL SEAL. LOCATE DIRECTIONAL CONTROL VALVE AT LANDING GEAR AREA, DRIVERSIDE NEAR TITAN DIGITAL READOUT.</p>
11- STATIC LINE	NONE
12- HUBODOMETER	NONE
13- FIRE EXTINGUISHER	NONE
14- STATIC REEL	NONE
INTERIOR LINING	
15-	SHERWIN WILLIAMS SHERGLASS IN TANK AND PRODUCT PIPING.
MISCELLANEOUS	TEST PAPERWORK MAILED ON COMPLETION OF TRAILER ONE (1) YEAR LIMITED WARRANTY

