

CORROSION SHIELD COMPOSITE STRAIGHT ROUND TANDEM AXLE SEMI TRAILER

CUSTOMER:

GENERAL CONSTRUCTION

MODEL: Corrosion Shield DT2ASC, (DuraTanker Two Axle Single Compartment).

SPECIFICATIONS: DOT SP-14779 OR AS ASSOCIATED

PRODUCT: CORROSIVES AND ACIDS COMPATABLE WITH THE LINING MATERIAL, PER CHEMICAL RESISTANCE GUIDE,

STATED USE: 12-24% SODIUM HYPOCHLORITE (BLEACH).
CONTACT CORROSION SHIELD IF PRODUCT CHANGES.

TRACTOR DATA: 186" WHEEL BASE, 15700 LB TRACTOR, SLIDING 5TH WHEEL PLATE TO 20" AHEAD, 80,000 GVWR.

OPERATING AREA: USA

MAXIMUM DENSITY: 16#/GALLON

OPERATING PRESS: 35PSI WITH VACUUM RELIEF

DESIGN TEMP: 180 DEG MAX (CHEMICAL DEPENDENT, SEE DERAKANE). CONTACT CSI IF PRODUCT CHANGES

CAPACITY: 5800 GALLONS SHELL FULL

COMPARTMENTS: ONE

DESIGN: STRAIGHT ROUND, 1-COMPARTMENT FRAMELESS OR FRAMED DESIGN

SHELL LENGTH: 473" (39'-5")

OVERALL LENGTH: 440" (36'-8") CENTER OF KINGPIN TO CENTER OF LAST AXLE

WIDTH: 102"

CSI LINING: 140 MIL DERAKANE 411-350 MOMENTUM VINYL ESTER WITH DERAKANE 510 FIRE RESISTANCE EXTERIOR RESIN

CSI CARBON VEIL: 10 MIL DERAKANE 411-350 MOMENTUM VINYL ESTER WITH DERAKANE 510 FIRE RESISTANCE EXTERIOR RESIN

CSI Monitoring SCAT "SMART CONTINUITY ASSESSMENT TECHNOLOGY SYSTEM INCLUDING MONITORING BOX IN SPILLDAM THAT COMMUNICATES WITH CARBON VEIL FOR CORROSION BARRIER MONITORING

ABRASION PADS: NONE

CSI SHELL: DURAWOUND FRP/BALSA/FRP WITH DERAKANE VINYL ESTER RESIN

CSI HEADS: (2) DURAWOUND FRP WITH DERAKANE VINYL ESTER RESIN

BAFFLES: NONE

OVERTURN: FRP AT SPILLDAMS

FRONT SPILLDAM: NONE

CENTER SPILLDAM: FRP, AROUND COMPARTMENT MANHOLE, TWO 1-1/2" DRAINS AROUND THE OUTSIDE OF THE BARREL WITH PVC BALL VALVE AT THE BOTTOM. LOCATE NEAR THE REAR OF THE COMPARTMENT

REAR SPILL DAM: NONE

TOP UNLOAD: NONE

BOTTOM UNLOAD: TO REAR

COUPLER HEIGHT: 48" (LOADED) GROUND TO KINGPIN PLATE

BUMPER: WHEELS BACK DESIGN WITH REQUIRED DOT BUMPER

BARREL FITTINGS & BRACKETS

MANLID COLLAR: (1) 20" CSI BOLTED FLANGE IN SPILLDAM WITH 20" BOLTED EPDM GASKET

MANLID FITTINGS: (1) 10" CSI HINGED FILL COVER WITH LID MOUNTED EPDM GASKET AND STAINLESS HARDWARE

(1) 3" FRP FLANGED NOZZE IN 20" MANLID FOR VACUUM RELIEF

VENT NOZZLE: (1) 2" FRP FLANGED NOZZLE IN EACH SPILLDAM STREET SIDE

TOP AIR NOZZLE: (1) 2" FRP FLANGED NOZZLE IN EACH SPILLDAM CURBSIDE

TOP UNLOAD FLANGE: NONE

BOTTOM UNLOADS FLANGE: (1) 4" FLANGED OUTLET NOZZLE AT REAR BOTTOM CENTERLINE OF THE COMPARTMENT

PRESSURE RELIEF FLANGE: (1) 3" FRP FLANGED NOZZLE LOCATED IN TANK CENTERLINE INSIDE THE SPILLDAM

CLEANOUTS: NONE

WOUND-ON AND ATTACHED BRACKETS: SIDE WALKWAY AT CENTER SPILLDAM, LADDER SUPPORTS, HOSE TRAY SUPPORTS

UPPER LOAD & UNLOAD SYSTEMS

MANLID NOZZLE #1: NONE

MANLID NOZZLE #2: NONE

DIP TUBE: NONE

TOP OUTLET VALVE: NONE

TOP DISCHARGE PIPING: NONE

TOP DISCHARGE NONE

VALVES AND FITTINGS

PRESSURE RELIEF: (1) 3" GIRARD 407 TEFLON LINED VENT ON 3" X 4-BOLT FLANGED NOZZLE LOCATED ON TANK CENTERLINE INSIDE EACH SPILLDAM

TOP AIR SUPPLY BALL (5) 304 STAINLESS OFF THE AIR SUPPLY

VALVES: Supplied by customer or as needed and added

TOP AIR: (1) 3/4" AIR LINE WITH STAINLESS CHICAGO FITTING, PRESSURE GAUGE AND STAINLESS BALL VALVE LOCATED AT BOTH THE FRONT AND REAR OF THE TRAILER

RUN THE TOP AIR LINE IN CONDUIT TO THE LADDER AREA AND TEE WITH (2) 3/4" STAINLESS BALL VALVES AND BLACK RUBBER AIR HOSE AROUND THE TANK UP TO EACH SPILLDAM AND THROUGH THE SPILL DAM WALL

CONTINUE WITH SHORT RUBBER JUMP HOSE INSIDE EACH SPILLDAM TO REACH TOP AIR INLET. TERMINATE JUMP HOSE WITH 1" FEMALE PVC COUPLER AND DOCKING STUB IN SPILLDAM. PROVIDE CABLES FOR PLUGS AND ATTACH TO SPILLDAM WALL.

CONTINUE TOP AIRLINE TO REAR AND TERMINATE WITH 3/4" STAINLESS BALL VALVE AND STAINLESS CHICAGO FITTING. TEE AND INSTALL 3/4" STAINLESS BALL VALVE WITH HOSE NIPPLE POINTING DOWN MOUNTED ON 6" X 6" BRACKET ON STREET SIDE PUMP PLATFORM FOR PUMP SUPPLY AIR.

TOP AIR VALVE & FITTING: (1) 2" PVC/EPDM MANUAL BUTTERFLY VALVE WITH METERING HANDLE HANDLE 2" X 1" REDUCER FLANGE AND 1" MALE PVC ADAPTOR AND CAP ELBOWED TO CURB SIDE IN EACH SPILLDAM.

TANK AIR VENT VALVE & FITTING: (1) 2" AIR OPERATED PVC-EPDM BUTTERFLY VALVE WITH AIR OPEN/SPRING CLOSE ACTUATOR. 2" PVC FLANGE AND 2" X 180 DEGREE PVC ELBOW VENT IN EACH SPILLDAM STREET SIDE.

LOWER LOAD AND UNLOAD SYSTEM

LOWER DISCHARGE: (1) BOTTOM REAR OF COMPARTMENT BETWEEN FRAME RAILS RUNNING REAR.

BOTTOM OUTLET VALVE: **CUSTOMER SUPPLIED** (1) 4" AIR OPERATED PVC/VITON SEAT BUTTERFLY VALVE AT BOTTOM OUTLET UPSTREAM OF 90 DEGREE DISCHARGE PIPE ELBOW. AIR OPEN/SPRING CLOSE ACTUATOR WITH REMOTE RELEASE ON FRONT STREET SIDE.

BOTTOM DISCHARGE VALVE: (1) CCI 3" ONE-PIECE FRP PIPING WITH 3" 4-BOLT FLANGE FACING REAR COMPARTMENT

BOTTOM DISCHARGE VALVE: **CUSTOMER SUPPLIED** 3" MANUAL PVC/EPDM BUTTERFLY VALVE WITH METERING HANDLE

BOTTOM DISCHARGE FITTING: **CUSTOMER SUPPLIED** 3" PVC FLANGE WITH 3" PVC MALE ADAPTER AND CAP

BLOW-OUT LINE NONE

PRESSURE GAUGE: (2) LIQUID FILLED 60 PSI STAINLESS PRESSURE GAUGE AT FRONT. NO TOP OR REAR MOUNTED PRESSURE GAUGE.

OPERATOR: MOUNT COMPARTMENT AIR SWITCHES FOR THE BOTTOM OUTLET VALVE AND VENT VALVE ON HOSE TRAY.

BRAKE INTERLOCK: INCLUDED ON BOTTOM OUTLET VALVE AND TOP VENT VALVE OPERATOR SWITCHES

THREAD TAPE: TEFLON TAPE

CEMENT: CPVC CEMENT WHEN SOCKET CONNECTIONS ARE USED

BUTTERFLY VALVES: ASAHI TYPE 57 MANUAL & AIR OPERATED BUTTERFLY VALVES. PVC BODY & DISC WITH EPDM SEATS UNLESS OTHERWISE NOTED. MANUAL BUTTERFLY VALVES WITH METERING HANDLES

DOWNSTREAM: PVC ADAPTORS, COUPLERS, PLUGS AND CAPS.

FITTINGS & FLANGES: PVC 150# FLANGES

GASKET MATERIAL: BOTTOM OUTLET SUMP GASKETS: VITON
TOP UNLOAD VALVE GASKETS: NONE
DISCHARGE VALVE GASKET: SEE DISCHARGE VALVE
VAPOR VENT GASKET: SEE VAPOR VENT
TOP AIR FLANGE GASKET: SEE TOP AIR VALVE & FITTING
MANLID GASKET: EPDM
PRESSURE RELIEF GASKET: EPDM
FLANGED BALL VALVE GASKET: NONE
USE STAINLESS FASTENERS AND HARDWARE IN SPILLDAM AREAS.
QUALITY PLATED FASTENER HARDWARE ELSEWHERE

BODY TRIM

CATWALK: ALUMINUM TOP PLATFORM CURBSIDE WITH ALUMINUM GRIP STRUT
STANDING AREA AND RAILING THE LENGTH OF THE TWO SPILLDAMS AT
APPROXIMATELY 2:00

LADDER: (1) ALUMINUM LADDER AT CENTER SPILLDAM CURB SIDE WITH NON SLIP
STEPS

FENDERS: (2) PROTECH ALUMINUM FULL TANDEM SINGLE RADIUS FRONT 96" WIDE
(2) PROTECH ALUMINUM FULL TANDEM DOUBLE RADIUS AXLE FENDERS AT
REAR 102" WIDE
(4) SEMCO LOGO ANTI SAIL MUDFLAPS

HOSE CARRIER: (1) CCI 4" X 20" X 25' LONG FRP TRAY STREET SIDE WITH 3/4" PVC BALL VALVE
AND RUBBER DRAIN HOSE AT INSIDE REAR. INCLUDE STAINLESS CHAIN HOSE
RETAINERS DOWN THE LENGTH OF TRAY

HITCH: NONE

TOOLBOX: NONE

PUMP PLATFORM: NONE

TIRE CARRIER: NONE

PLACARDS: (4) LABELMASTER FLIP STYLE HOLDERS, CORROSIVE

PERMIT HOLDER: LEXAN AND PLASTIC WELDING ROD HOLDER TUBE LOCATED STREETSIDE AT
LANDING GEAR FRAME

CHAIN HOLDER: (2) PROTECH CHAIN HOLDERS (1) EACH SIDE IN LANDING GEAR AREA AT FRONT.

ELECTRICAL SYSTEM

LIGHTS: TRUCKLITE LED TAIL AND MARKER LIGHTS
(3) TAILLIGHTS PER SIDE, CENTER AMBER TURN IN ALUMINUM LIGHT HOUSING
(3) MARKER/CLEARANCE LIGHTS PER SIDE (1) END OF REAR LIGHT HOUSING. (1)
SINGLE FUNCTION AT CENTER OFF LADDER AND HOSE TRAY. (1) TRUCKLITE ABS
LIGHT.

CENTER STOP LIGHT: NONE

NOSE BOX: (1) HALDEX #300609-C NOSE BOX.

JUNCTION BOX: NONE

WORKLIGHT: NONE

BACKUP LIGHTS: NONE

UNDERCARRIAGE

FRAMES: A572 CARBON STEEL UPPER FRAMES AT FRONT AND REAR WITH LOWER STEEL
SUSPENSION FRAME. STAINLESS STEEL BANDS AROUND TANK WITH
ADDITIONAL RETENTION POINTS INSIDE FRAMING

SUSPENSION: HENDRICKSON INTRAAX PART# 56393 AIR RIDE 14" RH

TIRE INFLATION: NONE

SPRINGS: AIR SPRINGS WITH DUMP VALVE AT FRONT OF STREET SIDE TANDEM FRAME

AXLES: HENDRICKSON 23,000# CAPACITY, 77-1/2" TRACK, TP SPINDLE

BRAKES: 16-1/2"X7" W/Q+ LININGS

WHEEL END TYPE: 10 STUD HUB PILOT (HP10)

HUBS & DRUMS: CAST-HP P-10 ABS

SEALS: STEMCO GUARDIAN HP FOR TP AXLE

DUST SHIELDS: NONE

ABS/BRAKE: HALDEX 4S/2M

TRS: NONE

TIRES/WHEELS: 11R22.5 GENERAL ST250 LR "G", WHEEL 22.5 X 8 10S-HP-2H PCW

FRONT COUPLER: UNDERMOUNT ADJUSTABLE STEEL KINGPIN PLATE ASSEMBLY WITH THREE ADJUSTMENT HOLES FRONT AND REAR

LANDING GEAR: JOST A400 2 SPEED WITH SAND SHOES, CRANK CURBSIDE 17" HEIGHT

FINISH

PAINT: STEEL FRAME PARTS PRIMED AND PAINTED **CUSTOMER REQUEST**

CONSPICUITY: 2" WIDE REFLECTIVE TAPE FULL LENGTH ON TANK BELOW THE TANK CENTERLINE

SIGNS: STANDARD CAUTION DECAL PACKAGE. DECAL THE LETTERS FRP (IN 3" BLOCK RED LETTERS) AND DOT SP-14779 (IN 3" BLACK LETTERS) ON EACH SIDE AT THE FRONT OF THE TRAILER JUST BELOW CONSPICUITY STRIPE.

VAPOR TEST: NONE

CALIBRATION: THEORETICAL CALIBRATION CHARTS IN 1" INCREMENTS

END SPECIFICATION