

The HYDROVAC tank has been designed as a standard 20ft ISO container for the safe storage and transport of liquid hydrogen. A frame arrangement with Blair corner castings and lockable valve protection cabinets, containing all valves, safeties, gauges, instrumentation and all other connections.

The HYDROVAC tank is certified as a UN T75 Portable Tank with optional EN or ASME approvals, 10 bar working pressure and holding time of up to 24 days.

This tank has approvals for road and sea transport.

The HYDROVAC also features high vacuum super-insulation, full set of decals (including custom logos where supplied by customer), integral pressure building system, document holder and appropriate vacuum insulated pipe work to offer maximum performance and versatility to end user and operator.

MATERIALS	SPECIFICATION
Inner Shell	EN : 1.4401 / 1.4404, ASME : 316 / 316L Stainless Steel
Outer Jacket	EN : 1.4301, ASME : 304 Stainless Steel
Frame/Skid	Carbon steel
Pipework	316 Stainless steel
Paint Specification	Shot blast SA 316, zinc rich primer 50 microns, Epoxy high build 125 microns, polyurethane top coat 50 microns Standard colour: White Custom paint specification on request
Design Approval (s)*	EN 13530, ADR, IMDG, IMO, CSC Option - ASME'U' / CFR
Temperature	Inner shell -253°C to +50°C, frame/skid -20°C to +50°C (option -40°C to +50°C) material
Holding Time	24 days
Corner Castings	ISO standard 1161 Blair BLRC20100 / 20000
Couplings	1.5" female bayonet fill/decant 0.5" female decant

** Design approvals may vary depending on options and country of operation.
When shipping with hydrogen (full or empty), stacking NOT (Nothing On Top)
For further details, please contact the technical department*

HYDROVAC FEATURES

Custom paint specification / two-tone colour scheme available on request 

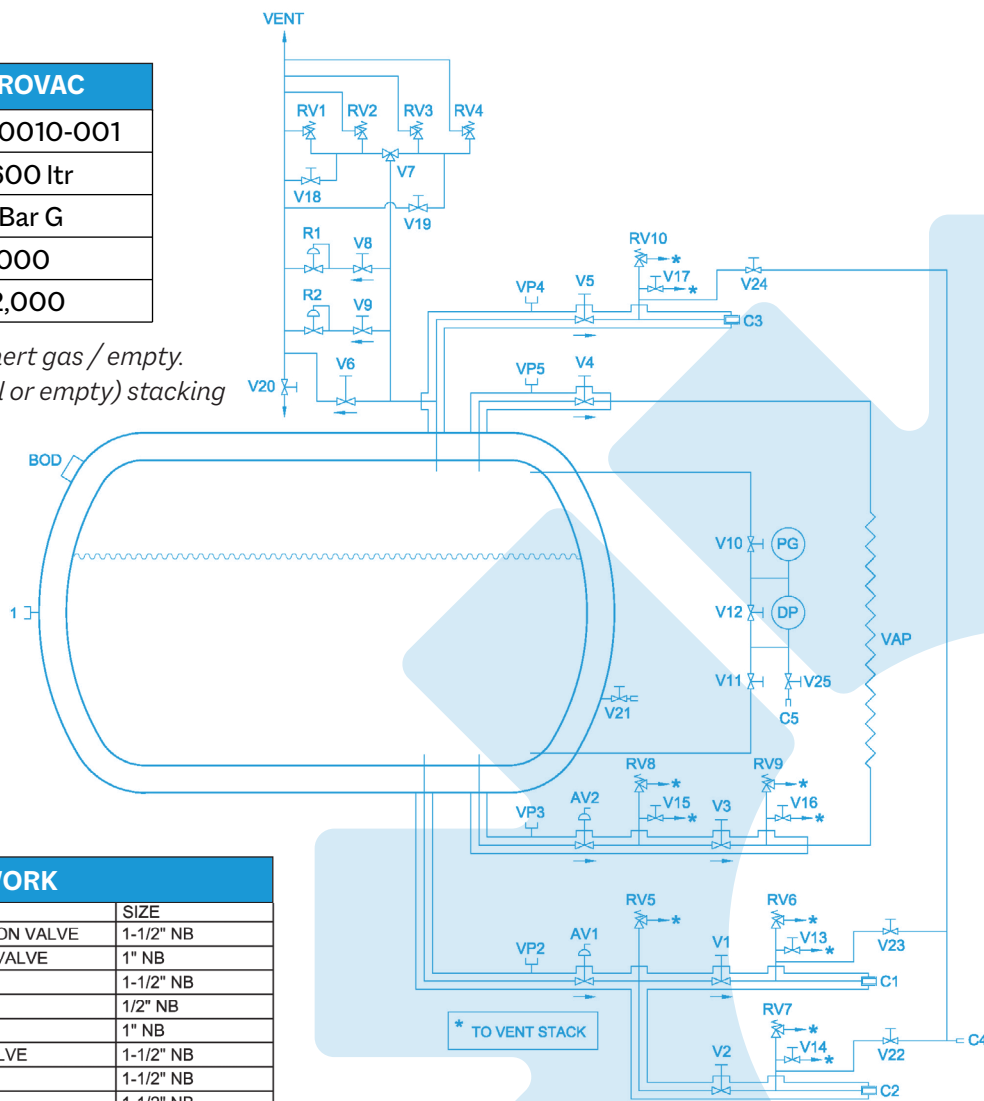
Optional Hasting vacuum check valve 



VALVES/PIPEWORK

SPECIFICATION	HYDROVAC
Product Code	9982-20010-001
Capacity	18,600 ltr
Pressure	10 Bar G
Tare Weight (kg)	8000
Stacking (kg)*	192,000

* Stacking only when purged with inert gas / empty.
When shipping with hydrogen (full or empty) stacking
NOT (Nothing On Top).



VALVES/PIPEWORK		
REF	DESCRIPTION	SIZE
AV1	LIQUID FILL / DECANT ACTUATED ISOLATION VALVE	1-1/2" NB
AV2	PRESSURE BUILD ACTUATED ISOLATION VALVE	1" NB
V1	LIQUID FILL / DECANT VALVE	1-1/2" NB
V2	LIQUID FILL / DECANT VALVE	1/2" NB
V3	PRESSURE BUILD ISOLATION VALVE	1" NB
V4	PRESSURE BUILD RETURN ISOLATION VALVE	1-1/2" NB
V5	VAPOUR RETURN VALVE	1-1/2" NB
V6	VENT VALVE	1-1/2" NB
V7	DIVERTOR VALVE	1-1/2" NB
V8	PRESSURE REGULATOR ISOLATION VALVE	1/2" NB
V9	PRESSURE REGULATOR ISOLATION VALVE	1/2" NB
V10	LOW PRESSURE VALVE TO GAUGES	6mm
V11	HIGH PRESSURE VALVE TO GAUGES	6mm
V12	DP GAUGE EQUALISING VALVE	6mm
V13	DRAIN / PURGE VALVE	6mm
V14	DRAIN / PURGE VALVE	6mm
V15	DRAIN / PURGE VALVE	6mm
V16	DRAIN / PURGE VALVE	6mm
V17	DRAIN / PURGE VALVE	6mm
V18	DIVERTOR VENT VALVE	6mm
V19	DIVERTOR VENT VALVE	6mm
V20	VENT STACK DRAIN VALVE	1/2" BSP
V21	VACUUM GAUGE ISOLATION VALVE	NW 16 KF
V22	PURGE VALVE	6mm
V23	PURGE VALVE	6mm
V24	PURGE VALVE	6mm
V25	PURGE VALVE	6mm
RV1	PRIMARY RELIEF VALVE - 10 BAR G	3/4" x 1-1/4"
RV2	PRIMARY RELIEF VALVE - 10 BAR G	3/4" x 1-1/4"
RV3	PRIMARY RELIEF VALVE - 10 BAR G	3/4" x 1-1/4"
RV4	PRIMARY RELIEF VALVE - 10 BAR G	3/4" x 1-1/4"

RV5	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
RV6	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
RV7	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
RV8	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
RV9	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
RV10	LINE RELIEF VALVE - 16 BAR G	3/8" x 1/2" NPT
R1	PRESSURE REGULATOR - 65-150 PSI RANGE	1/2" NPT
R2	PRESSURE REGULATOR - 10-25 PSI RANGE	1/2" NPT
PG	PRESSURE GAUGE - 0-16 BAR	1/2" NPT
DP	DIFFERENTIAL PRESSURE GAUGE - 0-10" H2O	1/4" NPT
VAP	PRESSURE BUILD VAPORISER	1-1/4" NB
C1	LIQUID FILL / DECANT FEMALE BAYONET CONNECTION	1-1/2" AIR FORCE
C2	LIQUID FILL / DECANT FEMALE BAYONET CONNECTION	1/2" LINDE
C3	VAPOUR RETURN FEMALE BAYONET CONNECTION	1-1/2" AIR FORCE
C4	PURGE CONNECTION	1/4" NPT
C5	PURGE CONNECTION	1/4" NPT
VP1	VESSEL VACUUM JACKET PUMPING PORT	NW 40 KF
VP2	PIPEWORK VACUUM JACKET PUMPING PORT	NW 32 KF
VP3	PIPEWORK VACUUM JACKET PUMPING PORT	NW 32 KF
VP4	PIPEWORK VACUUM JACKET PUMPING PORT	NW 32 KF
VP5	PIPEWORK VACUUM JACKET PUMPING PORT	NW 32 KF
BOD	VACUUM JACKET BLOW OFF DISC	-