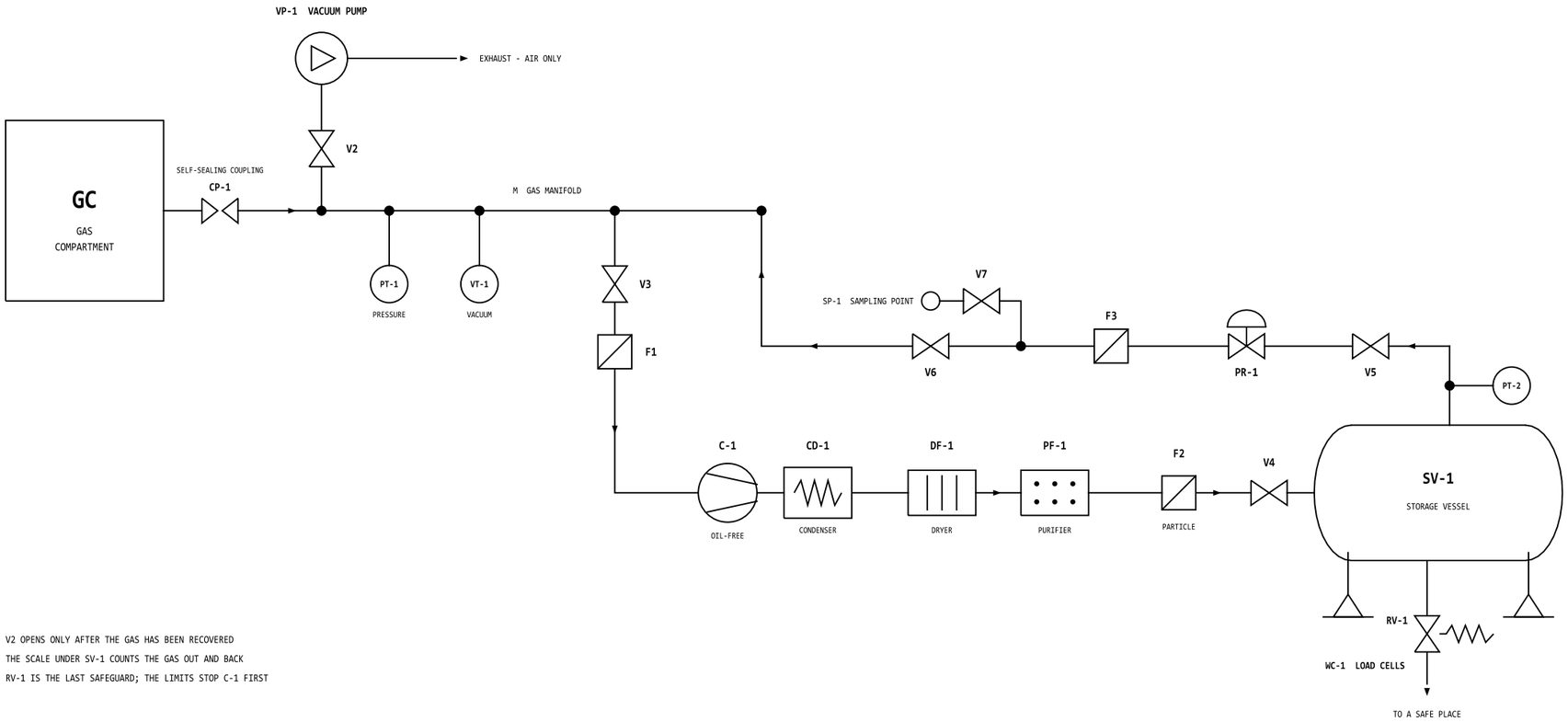
SF6 GAS HANDLING UNIT - REFERENCE GAS CIRCUIT

NOT TO SCALE - TAGS ONLY, NO PROCESS VALUES

GAS CIRCUIT - ONE UNIT, FOUR MODES



V2 OPENS ONLY AFTER THE GAS HAS BEEN RECOVERED

THE SCALE UNDER SV-1 COUNTS THE GAS OUT AND BACK

RV-1 IS THE LAST SAFEGUARD; THE LIMITS STOP C-1 FIRST

NOTES

1. REFERENCE GAS CIRCUIT OF AN SF6 GAS HANDLING UNIT, DRAWN IN THE STYLE OF THE GRAPHICAL SYMBOLS OF PROCESS DIAGRAMS. TAGS ONLY: NO PRESSURE, VACUUM, FLOW, SIZE, TIME OR QUANTITY VALUE IS GIVEN.
2. THE EQUIPMENT IS JOINED AT CP-1 BY A SELF-SEALING COUPLING, SO THAT NO GAS ESCAPES WHEN THE HOSE IS DISCONNECTED. PT-1 AND VT-1 READ THE PRESSURE AND THE VACUUM ON THE EQUIPMENT SIDE.
3. EVACUATE: V2 OPENS TO THE VACUUM PUMP VP-1, WHICH TAKES OUT THE AIR AND THE MOISTURE. V2 IS OPENED ONLY AFTER THE GAS HAS BEEN RECOVERED, SO THAT THE PUMP SEES NO GAS.
4. RECOVER: V3 AND V4 OPEN, AND THE OIL-FREE COMPRESSOR C-1 DRAWS THE GAS THROUGH THE PARTICLE FILTER F1. THE CONDENSER CD-1, THE DRYER FILTER DF-1, THE PURIFICATION FILTER PF-1 AND THE PARTICLE FILTER F2 CLEAN IT BEFORE IT REACHES THE STORAGE VESSEL SV-1.
5. STORE: SV-1 STANDS ON THE LOAD CELLS WC-1, SO THAT THE GAS IS COUNTED BY WEIGHT. IT IS FILLED BY WEIGHT AND NEVER FULL. THE CONTROL STOPS C-1 AT ITS LIMITS, AND THE RELIEF VALVE RV-1 IS THE LAST SAFEGUARD.
6. FILL: V5 AND V6 OPEN. THE REGULATOR PR-1 SETS THE FILLING PRESSURE AND THE PARTICLE FILTER F3 STOPS DUST. SP-1 IS THE SAMPLING POINT, FOR MOISTURE AND PURITY CHECKS BEFORE THE GAS IS REUSED.
7. LINES THAT CROSS ARE NOT CONNECTED. A DOT SHOWS A CONNECTION.
8. THE ARRANGEMENT OF THE UNIT AND THE DETAILS ARE ON SHEET 002. CATALOGUE ITEMS ARE BOUGHT IN.

LEGEND

- GAS LINE
- HAND VALVE
- PARTICLE FILTER
- CONDENSER
- TRANSMITTER
- DRYER FILTER
- PURIFICATION FILTER
- COMPRESSOR
- VACUUM PUMP
- LOAD CELL
- STORAGE VESSEL
- PRESSURE REGULATOR
- RELIEF VALVE
- COUPLING
- CONNECTION

WHAT EACH MODE DOES

MODE	VP-1	C-1	V2	V3	V4	V5	V6	WHAT HAPPENS
1 EVACUATE	X		X					THE AIR AND THE MOISTURE ARE TAKEN OUT
2 RECOVER		X		X	X			THE GAS IS DRAWN OUT, CLEANED AND STORED
3 STORE								SV-1 IS ISOLATED; THE SCALE HOLDS THE COUNT
4 FILL						X	X	THE EQUIPMENT IS RECHARGED FROM SV-1

X = RUNNING OR OPEN. ALL OTHER VALVES ARE CLOSED.

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED

ENGINEERED IN NOIDA - INDIA

SF6 GAS HANDLING UNIT - REFERENCE CONFIGURATION

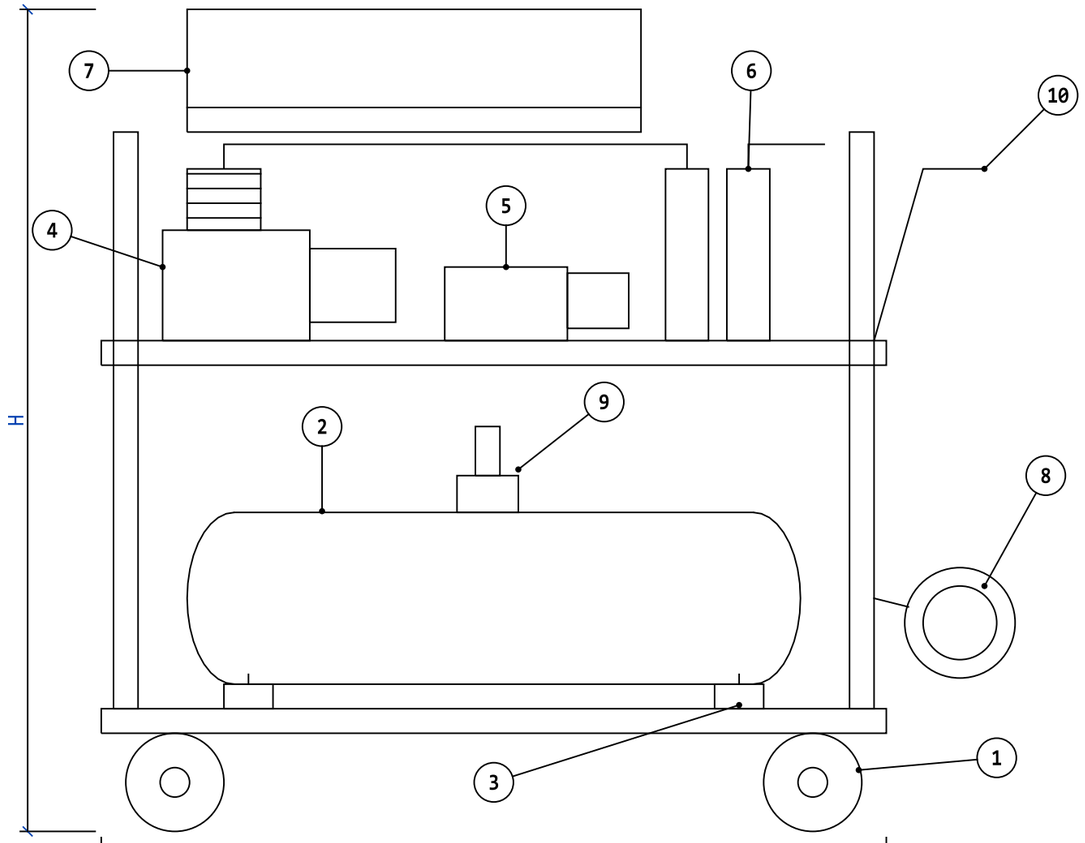
GAS CIRCUIT

THE VACUUM, THE RECOVERY TRAIN, THE SCALE AND THE FILL PATH

DWG NO	SCALE @ A3	SHEET	REV
NMX-SGH-99-001	NTS	1 OF 2	A
DATE	UNITS	DRAWN	STATUS
13-11-2026	TAGS ONLY	NMX-DO	REFERENCE

FRONT ELEVATION - TROLLEY-MOUNTED UNIT

NOT TO SCALE

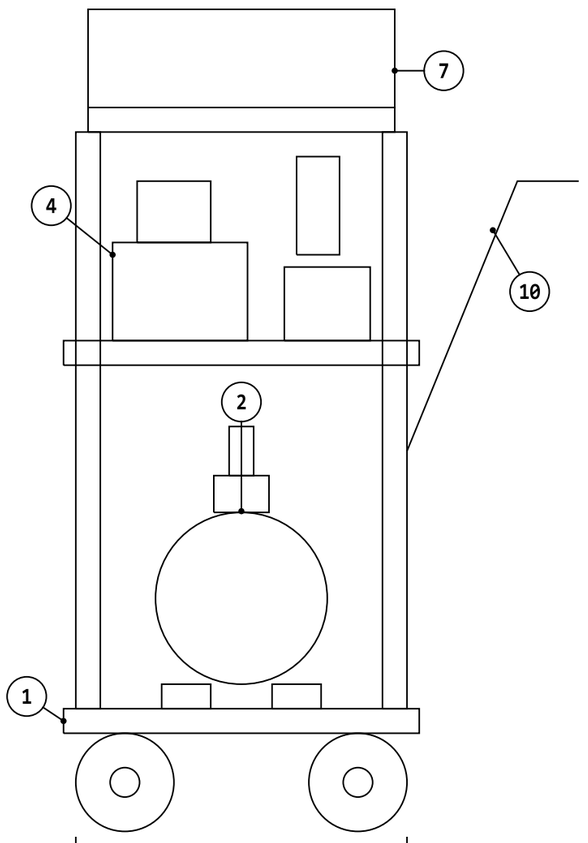


THE VESSEL STANDS ON LOAD CELLS, SO THAT THE GAS IS WEIGHED

L IS THE LENGTH OF THE FRAME; H IS THE HEIGHT OF THE UNIT

SIDE ELEVATION

NOT TO SCALE



THE VESSEL IS SEEN END-ON; D IS THE DEPTH OF THE UNIT

NOTES

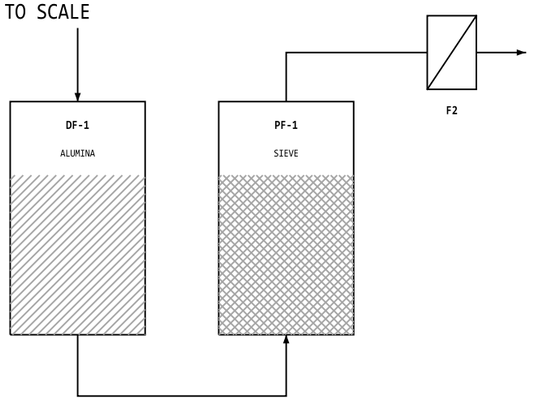
1. REFERENCE ARRANGEMENT OF A TROLLEY-MOUNTED SF6 GAS HANDLING UNIT. LETTERS ARE DIMENSIONS SET BY DESIGN: NO PRESSURE, VACUUM, FLOW, SIZE OR QUANTITY VALUE IS GIVEN.
2. THE FRONT ELEVATION SHOWS THE FRAME ON WHEELS, THE STORAGE VESSEL ON ITS LOAD CELLS ON THE LOWER DECK, AND THE COMPRESSOR, THE VACUUM PUMP, THE FILTER CANISTERS AND THE CONTROL CABINET ON THE UPPER DECK. L IS THE LENGTH; H IS THE HEIGHT.
3. THE SIDE ELEVATION SHOWS THE VESSEL END-ON, THE TWO DECKS AND THE TOWING HANDLE. D IS THE DEPTH.
4. DETAIL A: THE GAS PASSES THE DRYER FILTER DF-1, WHICH HOLDS ACTIVATED ALUMINA FOR THE MOISTURE, THEN THE PURIFICATION FILTER PF-1, WHICH HOLDS A MOLECULAR SIEVE FOR THE ARC BY-PRODUCTS, THEN THE PARTICLE FILTER F2.
5. DETAIL B: THE VESSEL IS FILLED BY WEIGHT TO A LIMIT F, WITH ROOM LEFT FOR THE LIQUID TO EXPAND WHEN IT WARMS. A VESSEL FULL OF LIQUID HAS NO SUCH ROOM.
6. DETAIL C: A SELF-SEALING COUPLING CLOSES BOTH HALVES WHEN IT IS DISCONNECTED, SO THAT NO GAS ESCAPES, AND OPENS BOTH WHEN IT IS CONNECTED.
7. THE GAS CIRCUIT IS ON SHEET 001. CATALOGUE ITEMS ARE BOUGHT IN.

ITEMS

ITEM	DESCRIPTION
1	FRAME AND WHEELS
2	STORAGE VESSEL
3	LOAD CELL
4	RECOVERY COMPRESSOR
5	VACUUM PUMP
6	FILTER CANISTER
7	CONTROL CABINET
8	HOSE AND COUPLING
9	VALVE BLOCK AND RELIEF VALVE
10	TOWING HANDLE

DETAIL A - THE FILTER TRAIN

NOT TO SCALE



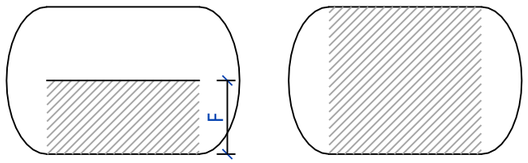
DF-1 TAKES OUT THE MOISTURE

PF-1 TAKES OUT THE ARC BY-PRODUCTS

F2 TAKES OUT THE DUST

DETAIL B - NEVER FILLED FULL

NOT TO SCALE



FILLED BY WEIGHT
TO A LIMIT F

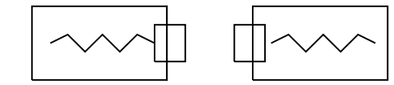
FULL OF LIQUID
NO ROOM TO EXPAND

THE LIQUID NEEDS ROOM TO EXPAND WHEN IT WARMS

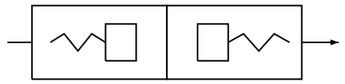
SO THE VESSEL IS FILLED BY WEIGHT, AND NEVER FULL

DETAIL C - THE COUPLING

NOT TO SCALE



DISCONNECTED: BOTH HALVES SEAL



CONNECTED: BOTH HALVES OPEN

NO GAS ESCAPES WHEN THE HOSE COMES OFF

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED

ENGINEERED IN NOIDA - INDIA

SF6 GAS HANDLING UNIT - REFERENCE CONFIGURATION

GENERAL ARRANGEMENT AND DETAILS

FRONT AND SIDE ELEVATION AND THE THREE DETAILS

DWG NO	SCALE @ A3	SHEET	REV
NMX-SGH-99-002	NTS	2 OF 2	A
DATE	UNITS	DRAWN	STATUS
13-11-2026	TAGS ONLY	NMX-DO	REFERENCE