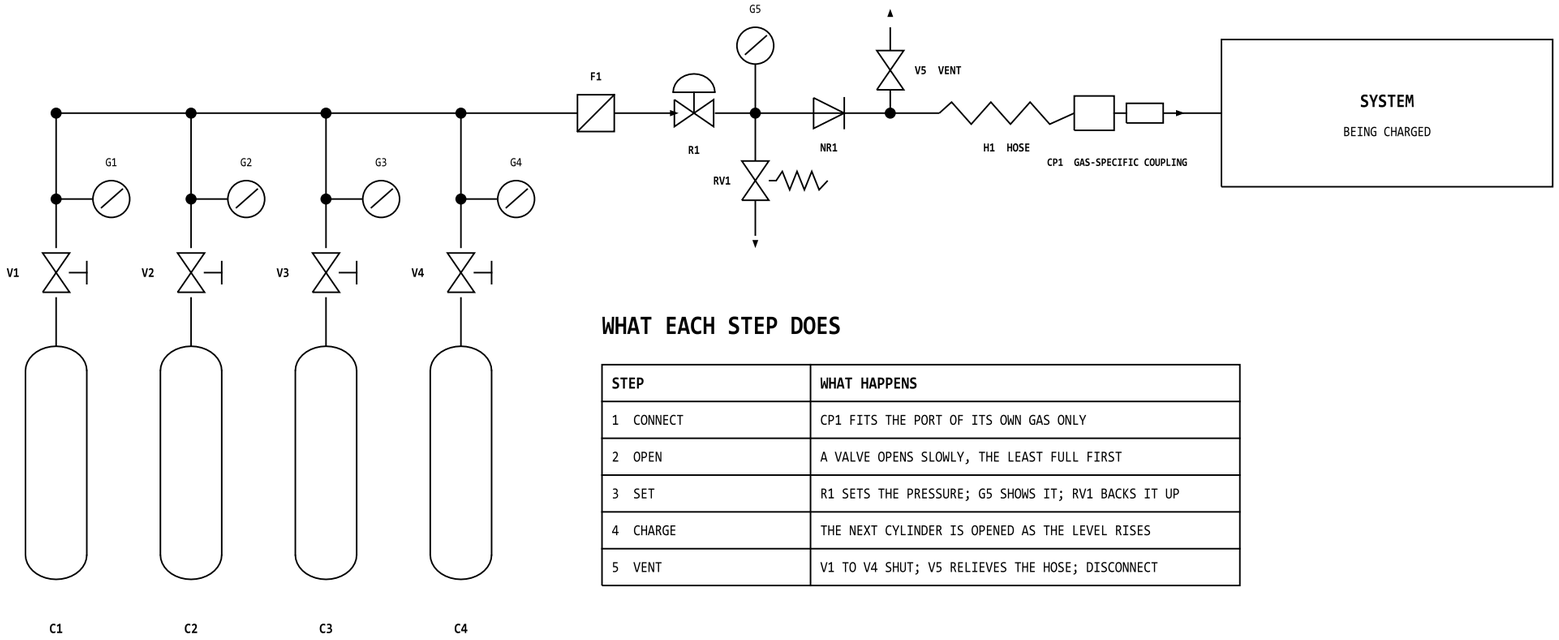
GAS CHARGING TROLLEY - REFERENCE GAS CIRCUIT

NOT TO SCALE - TAGS ONLY, NO PROCESS VALUES

GAS CIRCUIT - FROM THE CYLINDERS TO THE SYSTEM BEING CHARGED



WHAT EACH STEP DOES

STEP	WHAT HAPPENS
1 CONNECT	CP1 FITS THE PORT OF ITS OWN GAS ONLY
2 OPEN	A VALVE OPENS SLOWLY, THE LEAST FULL FIRST
3 SET	R1 SETS THE PRESSURE; G5 SHOWS IT; RV1 BACKS IT UP
4 CHARGE	THE NEXT CYLINDER IS OPENED AS THE LEVEL RISES
5 VENT	V1 TO V4 SHUT; V5 RELIEVES THE HOSE; DISCONNECT

NOTES

1. REFERENCE GAS CIRCUIT OF A FOUR-CYLINDER GAS CHARGING TROLLEY, DRAWN IN THE STYLE OF THE GRAPHICAL SYMBOLS OF FLUID POWER. TAGS ONLY: NO PRESSURE, FLOW, SIZE, CAPACITY OR QUANTITY VALUE IS GIVEN.
2. C1 TO C4 ARE THE CYLINDERS. EACH HAS ITS OWN HAND VALVE (V1 TO V4) AND CONTENTS GAUGE (G1 TO G4), SO THAT ONE CAN BE SHUT OFF AND CHANGED WHILE THE OTHERS STAY IN USE. THE MANIFOLD HEADER JOINS THEM.
3. THE CYLINDERS ARE USED IN ORDER, THE ONE WITH THE LEAST PRESSURE FIRST, BECAUSE THE SYSTEM FILLS ONLY UNTIL ITS PRESSURE EQUALS THE CYLINDER'S. THE GAUGES G1 TO G4 SHOW THE ORDER.
4. F1 KEEPS PARTICLES OUT. R1 BRINGS THE PRESSURE DOWN TO WHAT THE SYSTEM ACCEPTS, G5 SHOWS IT, AND RV1 OPENS IF R1 FAILS. NR1 STOPS GAS FLOWING BACK.
5. V5 RELIEVES THE HOSE H1 BEFORE IT IS DISCONNECTED. CP1 FITS THE PORT OF ONE GAS ONLY, SO THAT THE WRONG GAS CANNOT BE JOINED.
6. FOR OXYGEN EVERY PART THAT TOUCHES THE GAS IS OXYGEN-COMPATIBLE, CLEANED FOR OXYGEN SERVICE AND SEALED, AND THE VALVES OPEN SLOWLY. CATALOGUE ITEMS ARE BOUGHT IN.
7. THE ARRANGEMENT OF THE TROLLEY AND THE DETAILS ARE ON SHEET 002.

LEGEND

- GAS LINE
- GAS CYLINDER
- HAND VALVE
- REGULATOR
- RELIEF VALVE
- NON-RETURN VALVE
- FILTER
- PRESSURE GAUGE
- HOSE
- COUPLING
- VENT TO ATMOSPHERE
- CONNECTION

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED
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GAS CHARGING TROLLEY - REFERENCE CONFIGURATION

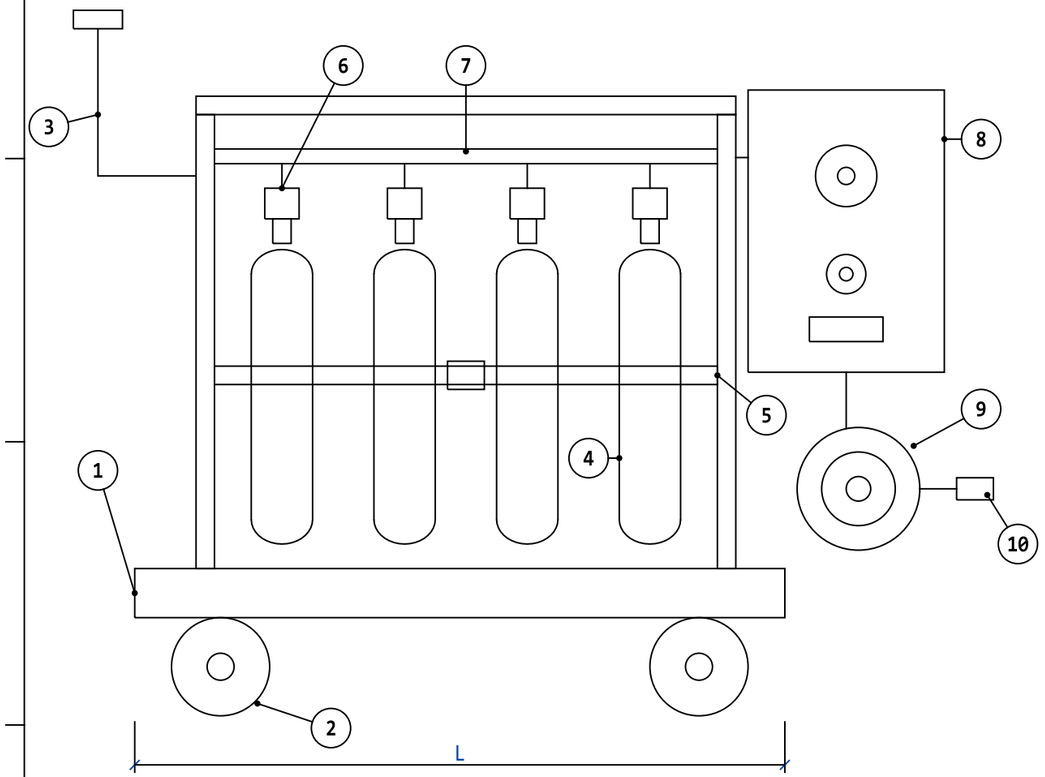
GAS CIRCUIT

CYLINDERS, MANIFOLD, REGULATOR, RELIEF VALVE, COUPLING

DWG NO	SCALE @ A3	SHEET	REV
NMX-GCT-95-001	NTS	1 OF 2	A
DATE	**UNITS**	**DRAWN**	**STATUS**
05-11-2026	TAGS ONLY	NMX-DO	REFERENCE

ELEVATION - GAS CHARGING TROLLEY

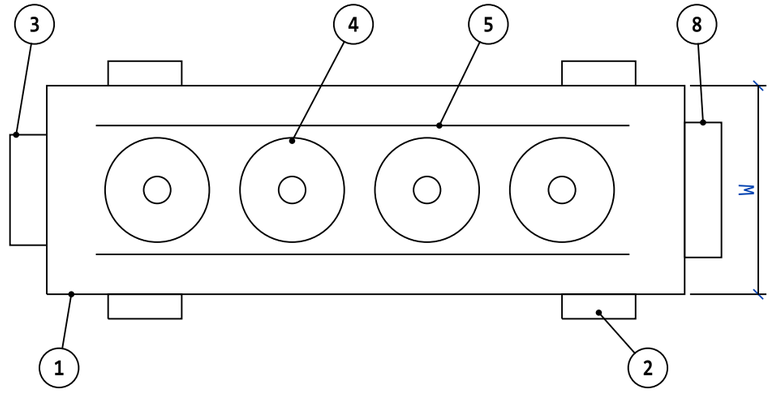
NOT TO SCALE



EACH CYLINDER STANDS UPRIGHT AND IS HELD BY THE STRAP

PLAN - CYLINDER LAYOUT AND RESTRAINT

NOT TO SCALE



THE FOUR CYLINDERS STAND IN ONE ROW BETWEEN THE UPRIGHTS AND THE STRAP RUNS ROUND ALL OF THEM

NOTES

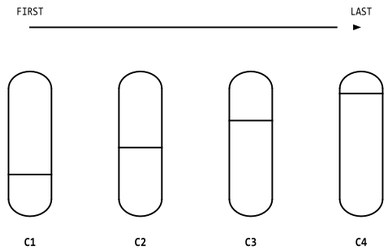
1. REFERENCE ARRANGEMENT OF A FOUR-CYLINDER GAS CHARGING TROLLEY. LETTERS ARE DIMENSIONS SET BY DESIGN: NO PRESSURE, FLOW, SIZE, CAPACITY OR QUANTITY VALUE IS GIVEN.
2. THE ELEVATION SHOWS THE CHASSIS ON ITS WHEELS, THE HANDLE, THE FOUR CYLINDERS HELD UPRIGHT BY A RESTRAINT STRAP OR CHAIN, THE MANIFOLD ACROSS THE TOPS, THE REGULATOR AND GAUGE PANEL, THE HOSE REEL AND THE HOSE WITH ITS COUPLING. L IS THE LENGTH OF THE CHASSIS.
3. THE PLAN SHOWS THE CYLINDERS IN ONE ROW BETWEEN THE UPRIGHTS WITH THE STRAP ROUND ALL OF THEM. W IS THE WIDTH OF THE CHASSIS.
4. DETAIL A: THE CYLINDERS ARE USED IN ORDER, THE ONE WITH THE LEAST PRESSURE FIRST AND THE FULLEST LAST, BECAUSE THE SYSTEM FILLS ONLY UNTIL ITS PRESSURE EQUALS THE CYLINDER'S.
5. DETAIL B: A COUPLING FITS THE PORT OF ONE GAS ONLY. THE NOSE OF A PLUG FOR ANOTHER GAS IS TOO WIDE FOR THE OPENING, SO THE WRONG GAS CANNOT BE JOINED.
6. DETAIL C: THE STRAP AND ITS BUCKLE HOLD EACH CYLINDER AGAINST THE UPRIGHT. A CYLINDER IS NEVER CHARGED FROM OR MOVED WITHOUT ITS RESTRAINT.
7. THE GAS CIRCUIT IS ON SHEET 001. CATALOGUE ITEMS ARE BOUGHT IN.

ITEMS

ITEM	DESCRIPTION
1	CHASSIS FRAME
2	WHEEL
3	HANDLE
4	GAS CYLINDER
5	RESTRAINT STRAP
6	CYLINDER VALVE
7	MANIFOLD HEADER
8	REGULATOR AND GAUGE PANEL
9	HOSE REEL
10	HOSE WITH GAS-SPECIFIC COUPLING

DETAIL A - ORDER OF USE

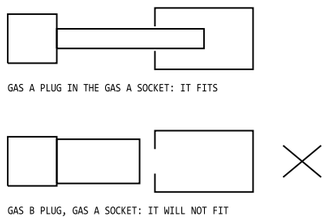
NOT TO SCALE



THE CYLINDER WITH THE LEAST PRESSURE IS USED FIRST, THE FULLEST LAST

DETAIL B - A COUPLING FOR ONE GAS

NOT TO SCALE

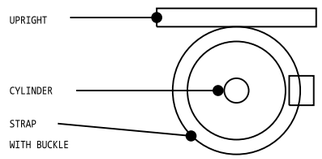


GAS A PLUG IN THE GAS A SOCKET: IT FITS

GAS B PLUG, GAS A SOCKET: IT WILL NOT FIT

DETAIL C - THE RESTRAINT

NOT TO SCALE



THE CYLINDER CANNOT FALL OR ROLL WHILE THE TROLLEY IS MOVED OR USED

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED

ENGINEERED IN NOIDA - INDIA

GAS CHARGING TROLLEY - REFERENCE CONFIGURATION

GENERAL ARRANGEMENT AND DETAILS

TROLLEY, CYLINDERS, MANIFOLD, COUPLING AND RESTRAINT

DWG NO	SCALE @ A3	SHEET	REV
NMX-GCT-95-002	NTS	2 OF 2	A
DATE	UNITS	DRAWN	STATUS
05-11-2026	TAGS ONLY	NMX-DO	REFERENCE