Gas Charging Trolley

CAPABILITY SHEET · RIGHT GAS, RIGHT PRESSURE. · CYLINDERS ON A WHEELED FRAME, A MANIFOLD, A REGULA

THE ONE IDEA

PRINCIPLE	Right gas, right pressure.
WHY IT MATTERS	A receiving system fills until its pressure equals the cylinder's, so the cylinder with the least pressure is used first, then the next, and the last cylinders top it up. A regulator and a relief valve keep the pressure at what was set, and no higher.

THE TROLLEY

FRAME	A wheeled frame with a cradle and a chain or strap that hold each cylinder upright, a brake, a handle and a low weight so that it does not tip.
CIRCUIT	A manifold with an isolation valve and a contents gauge for each cylinder, a regulator, a relief valve, a charging gauge, a vent valve and a filter.
HOSE	A braided hose with a coupling that fits one gas only, stowed on the frame and relieved by a vent valve before it is disconnected.
OXYGEN	For oxygen, parts that are oxygen-compatible and cleaned for oxygen service, oil-free lines, valves that open slowly, and a trolley sealed between uses.

THE METHOD

ORDER	Duty, circuit, materials, frame, build and prove. The materials and the proof are the two that a quick job skips.
LIMITS	Gases, pressures, numbers of cylinders and quantities come from the customer's duty, and are not printed here.

CONFIGURATIONS

SINGLE	A single-cylinder trolley: one cylinder strapped to a hand trolley, with a regulator and gauges at the top.
CASCADE	A four-cylinder cascade trolley with a manifold and a valve and a gauge for each cylinder.
OXYGEN	An oxygen-service trolley, cleaned and sealed for oxygen, with oil-free lines and valves that open slowly.

STANDARDS & SCOPE

STANDARDS	Public reference: ISO 5145 for the selection of cylinder valve outlet connections, and CGA G-4.1 for cleaning equipment for oxygen service.
SCOPE BOUNDARY	It is the gas charging trolley: not a booster trolley, not a complete oxygen system and not a tyre charging rig.
STATUS	Neometrix has quoted against successive gas charging trolley requirements, and no delivered gas charging trolley is claimed.

DEFENCE PROGRAMMES DESK

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