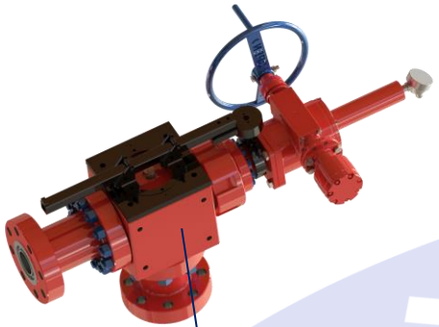
PCV-M intelligent pressure control heavy-duty Choke valve and Welltest Manifold Remote Auto Control System

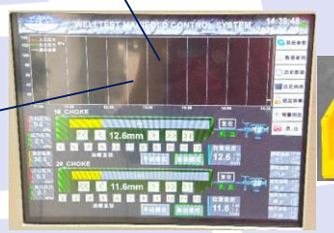


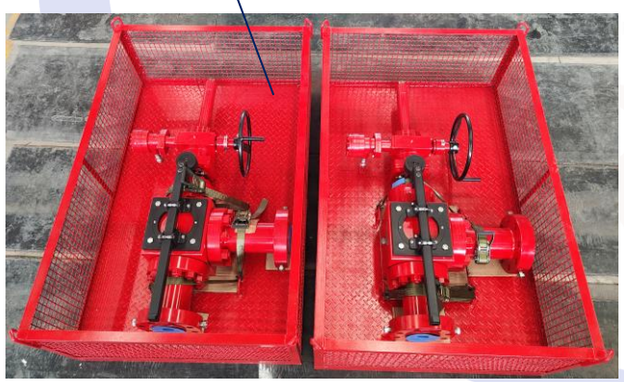
PCV-M Intelligent Pressure Control Heavy-duty Choke Valve（Invention Patent）

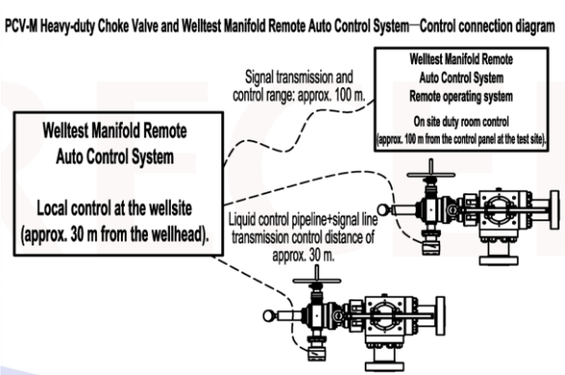
Features of PCV-M Intelligent Pressure Control Heavy-duty Choke Valve

- Excellent pressure control performance with shut-off capability (100% pressure control efficiency) — overturns the traditional belief that a choke valve can only be used for choking and not for shut-off.
- High resistance to vibration-induced fracture
- Strong erosion resistance (no unilateral erosion on downstream equipment)
- Good fluid passage performance (full-bore flow capacity for open discharge)
- Linear flow capacity (Cv value) / excellent linear regulation capability
- Shearing and unblocking function (can shear brittle materials such as rock cuttings)
- Convenient online maintenance (single-person online inspection and repair possible)
- Symmetrical design of valve plug and seat (one choke valve functions equivalently to two choke valves)

Welltest Manifold Remote Auto Control System







Welltest Manifold Remote Auto Control System Features

- The welltest manifold remote auto control system is a dedicated control system for the PCV-M intelligent pressure-controlled heavy-duty choke valve. It represents an internationally advanced and mature technology of its kind. Equipped with automatic control software, the system provides wellhead constant-pressure control and remote plugging removal, effectively addressing the common issue of foreign-object blockage encountered during testing in ultra-deep and "three-high" (high pressure, high temperature, high H_2S) oil and gas wells.
- Operations can be carried out from a safe location – specifically, from a control cabin positioned 30 m or 100 m from the wellhead – thus minimizing the risk of direct exposure of field personnel to potentially hazardous areas.

PCV-M intelligent pressure control heavy-duty Choke valve and welltest manifold remote auto control system is a product designed specifically for the testing difficulties of ultra deep and "three high" oil and gas wells. It completely solves the problems of insufficient pressure control ability, poor resistance to high-frequency vibration fracture, and poor resistance to erosion that have long plagued testing choke valves, as well as common foreign object blockage problems in testing processes. It ensures the safety of remote operators while also ensuring the safety and efficiency of construction operations.

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