

Quick-Closing Valve Systems for Emergency Shutdown



 hydraulic

 pneumatic



More than Safety and Reliability...



-actuator

(hydraulic/pneumatic/manual)
stainless steel housing
for maximum service life

Ergonomically optimized
handwheel



-valve bonnet

- Compact, closed design
- Insensitive to foreign objects,
reduced wear
- Protection against manipulation /
blocking in open position

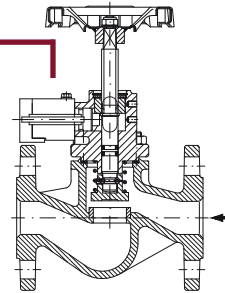
Quality valve body
exclusively from indepen-
dently acknowledged and
certified foundries



Better than good quality...

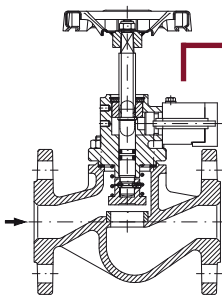
-  Low weight
-  Space-saving installation
-  Easy operation
-  Long service life, low maintenance
-  Worldwide network of sales and service partners
-  Longtime availability of spare parts and service
-  Possibility of custom specific design / variants
-  Comprehensive technical documentation available
-  Conformity with all relevant class and statutory regulations

Pneumatic Actuation



- Complex system arrangements possible
- Ideal for medium-sized to large systems
- Valves can be operated from multiple positions
- Control device with built-in pressure vessel for stand-alone function of the system
- “clean” (without requirement of hydraulic oil)

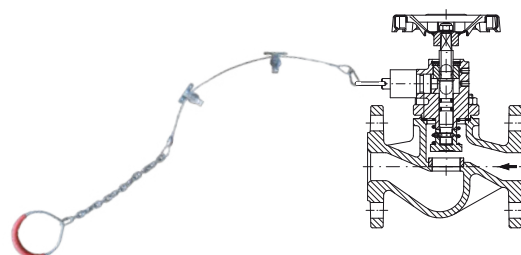
Hydraulic Actuation



- Completely independent function, no requirement of auxiliary energy supply
- ideal for smaller systems with limited distances between place of operation and valves
- Long lifetime with robust technology
- Low weight
- Low space requirement of control station

Rope-Pull Actuation

- Simplest form of remote actuation, independent from all auxiliary energy
- Applicable to single valves with a limited distance



Electric Actuation



- Complex system arrangements possible
- Incl. comprehensive monitoring and control functions
- Easy and time-saving installation
- Maintenance friendly



Ecofriendly

(without use of operating oils or liquids)



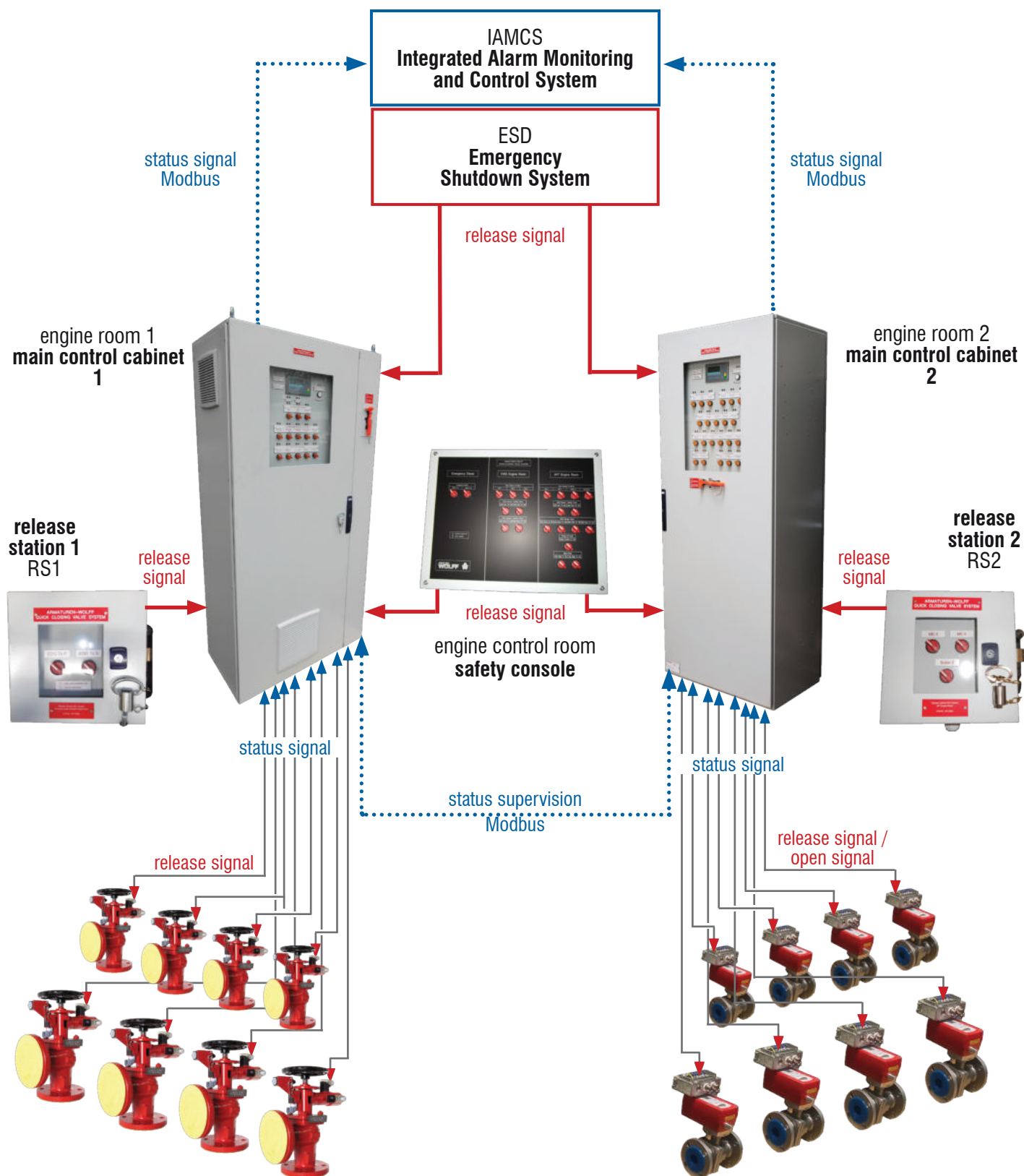
- ✓ Independent from distances and installation height
- ✓ Built-in system supervision
- ✓ Easy integration into automation systems
 - electric cabling
 - indication of loose contacts
- ✓ Uncomplicated refit (without piping work)
- ✓ Flexible dimensioning of control devices

Electric Systems Offer a Multitude of Possibilities::

- Continuous real time supervision of all valves
- Integration of logic functions for operator support
- Possibility of valve release from various process stations
- Multiple redundancies in system layout
- Permanent self-monitoring of the system
- Remote control of unmanned installations

Integration into Central Automation Systems

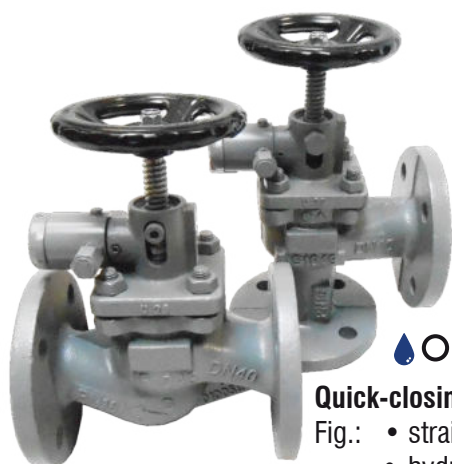
(e.g. for two independent engine rooms, release from individual main control cabinets, emergency shut-down system and addtl. release stations along specified escape routes; status supervision over serial interface)



Options for Quick-Closing Valves

Suitable Operating Fluids::

- Lube oil
- Gas oil/Diesel (MGO/MDO)
- Heavy fuel oil (HFO), up to 140°C / 300°F
- Neutral fluids
- Changing fluids
- Thermal oil up to 400°C / 750°F



Quick-closing valve

Fig.: • straight and angle pattern
• hydr. / pneum. actuation



Quick-closing valve with bellows seal

• Stem sealing with SS316 bellows
• Quick-closing and quick-opening valves available
Fig.: • straight pattern
• 1 limit switch

Electric quick-closing valve

Fig.: • straight pattern
• 1 limit switch



Electric quick-closing valve

Fig.: • angle pattern
• actuator with double solenoid
• special stem-sealing design for operation with changing fluids
• with reinforced spring for operating pressures up to 9 bars
• incl. temperature fuse for automatic release under impact of heat (216°C / 420°F)
• 2 limit switches



Quick-closing ball valve

for hazardous area operation
• Remote release and re-open functions
• Incl. double ATEX limit switch



doublestem line

High-performance quick-closing valve

• Independent from effective operating pressure

- Quality valve bodies of nodular cast iron, cast steel, bronze or stainless steel (3.1 inspection certificate available)
- Multiple material combinations available for internal parts
- Selection of sealings available (incl. for special media)
- Flanges acc. to DIN/ISO, ANSI, JIS, VG
- Straight and angle pattern
- Compact or bellows-sealed design

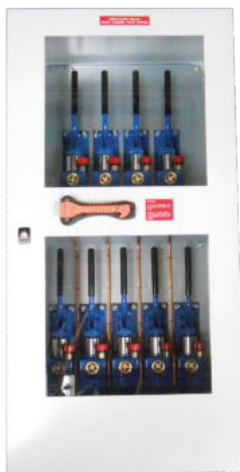
- Firesafe design available
- Shock-tested version
- Coating/markings acc. to customer specification
- Optional limit switches (open/closed), incl. touchless and ATEX/IECEx type
- Special solutions acc. to customer requirements

Options for Control Technology

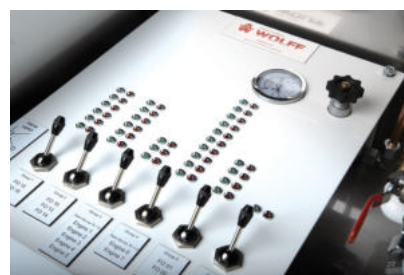
Hydraulic



- Integrated in cabinet or direct bulkhead installation
- Collective tank / separate tanks



- Cabinet enclosure out of steel, stainless steel
- LEDs for position indication of valves
- Status signalization to external systems possible



Pneumatic



- With built-in pressure vessel, or separate cabinet and pressure vessel
- Solenoid valves for addtl. electric actuation
- Components acc. to industrial maritime or offshore standard



Electric



- With UPS / for connection to existing UPS systems
- Wirebreak supervision, incl. connection to board automation systems and addtl. release stations
- HMI / display for status signalization in cleartext
- Customizable signals and failure messages
- Consistency checks with built-in PLC



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