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Quick-Closing Valve Systems
for Emergency Shutdown

electric

hydraulic

pneumatic

Valve Technology for the Maritime and Processing Industry

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More than Safety and Reliability…

MADE IN GERMANY

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

Ergonomically optimized
handwheel

Quality valve body
exclusively from independently acknowledged and certified foundries

-valve bonnet

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

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

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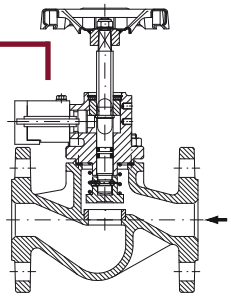
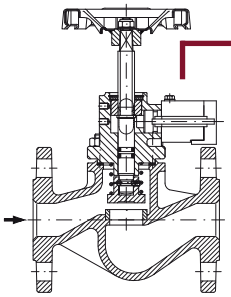
Pneumatic Actuation



- 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)

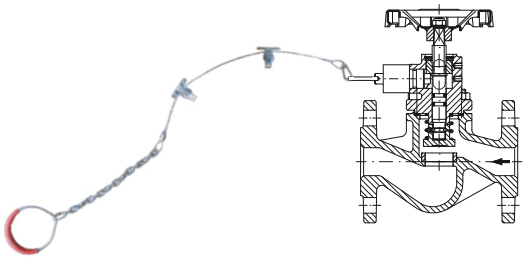
Hydraulic Actuation



- 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



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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

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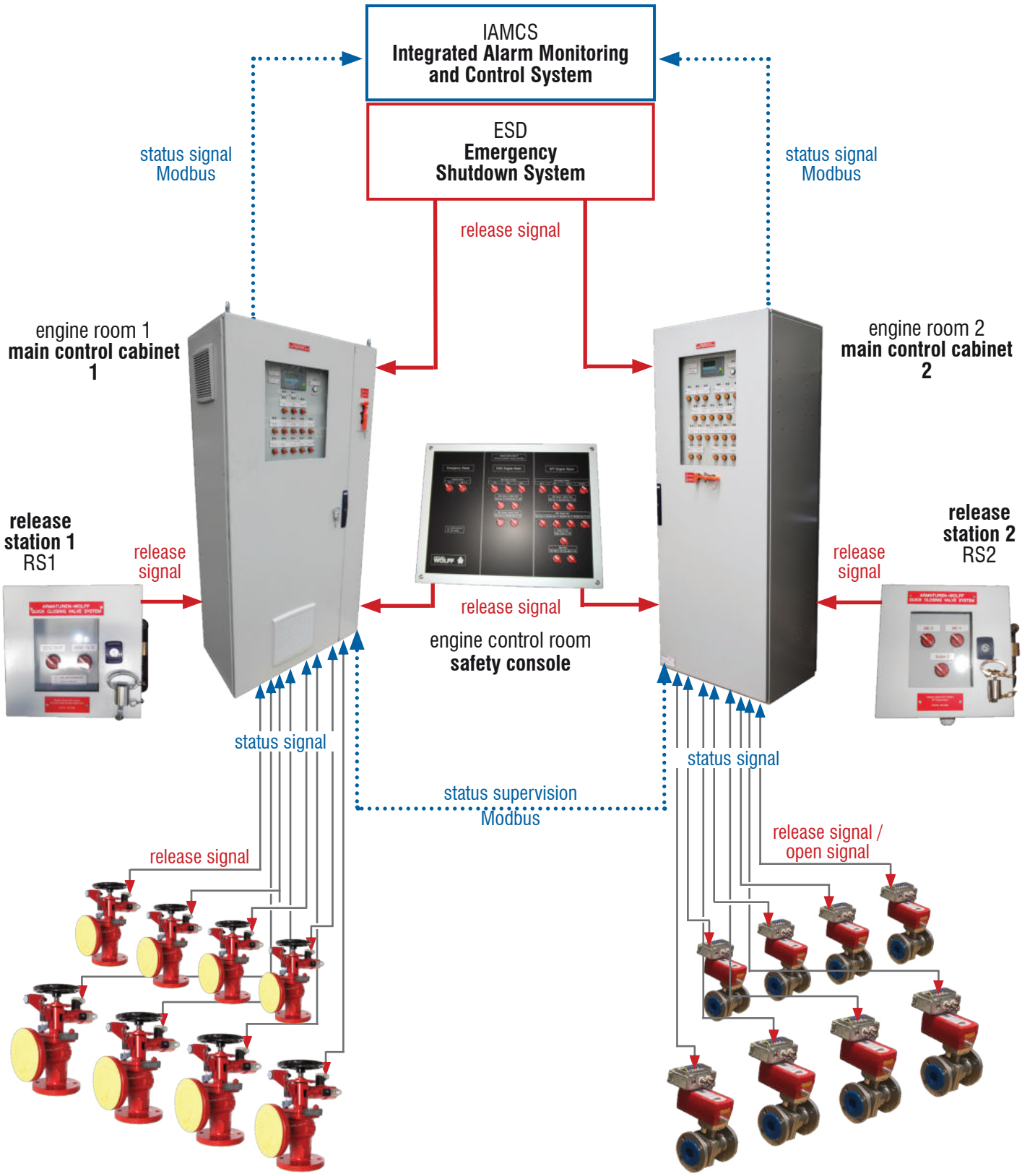
Integration into Central Automation Systems

(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)



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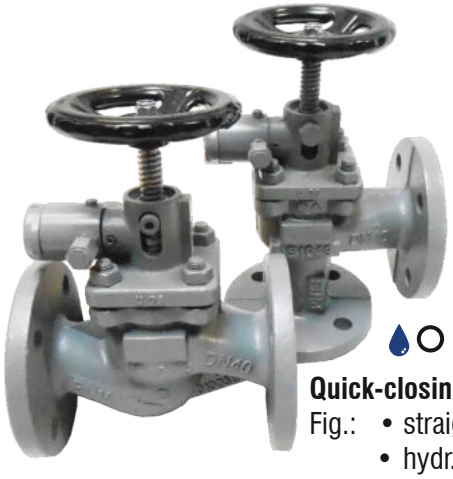
Options for Quick-Closing Valves

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/marking acc. to customer specification
- Optional limit switches (open/closed), incl. touchless and ATEX/IECEx type
- Special solutions acc. to customer requirements

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Options for Control Technology

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

Hydraulic

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

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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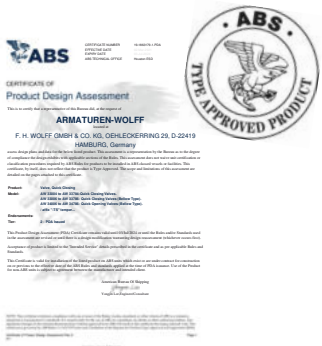
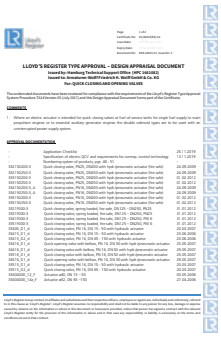
Proven Reliable Quality – Certified Experience



(ABS Rules + USCG CFR 143.260 (Subchapter M))



ARMATUREN
WOLFF

ARMATUREN-WOLFF
Friedrich H. Wolff GmbH & Co. KG

Oehleckerring 29
22419 Hamburg
Germany

Tel. +49-40-532 873-0
aw@armaturen-wolff.de

www.armaturen-wolff.de

09 20 21

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