

Energy

Valves for nuclear power plants

UK6612 AWARDED



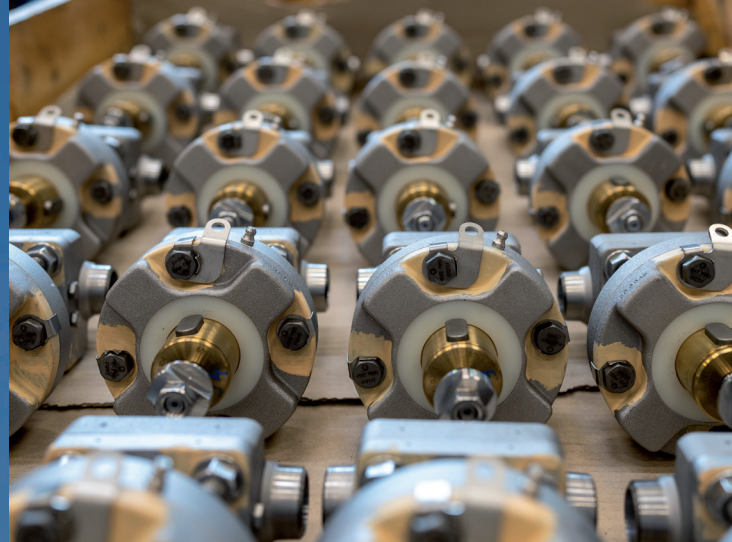
Company



SISTO Armaturen S.A. – a company of the KSB Group – is developing, designing, manufacturing and distributing valves and accessories for the nuclear power industry.

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Qualifications

System based

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
AD 2000 / DIN EN ISO 3834
Directive 2014/68/EU
DIN EN ISO 3834
KTA 1401
HAF 604
ESPN
NPE
GQAS

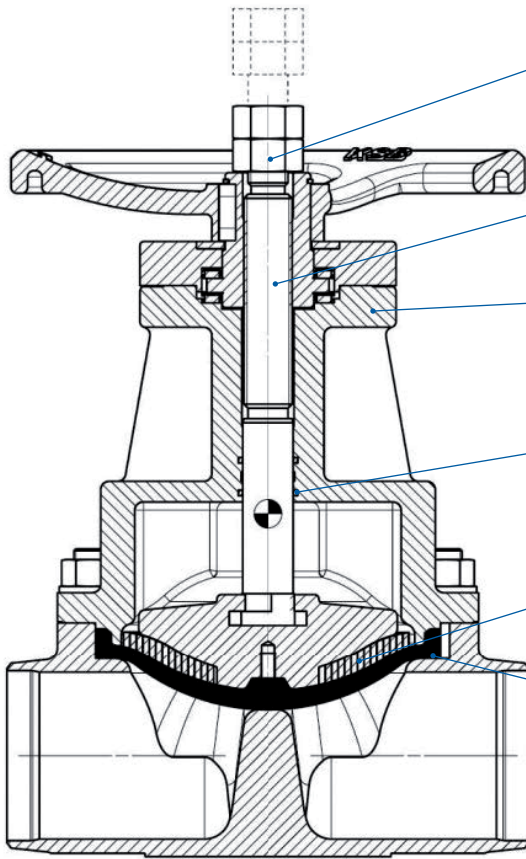
Design and Manufacturing standards

Hard rubber lining according to AVSD 6.1/50
Diaphragm manufacturing according to WPB-A 21.00-2/1
PMUC
ACQPA
WRAS
ACS
RCC-M (BTS 45.C.015 & CTS 45.C.015)



SISTO-20NA

Diaphragm valve



1. Integrated travel stop in closed direction
Perfect diaphragm position (valve closed)
Overload protection of the diaphragm against excessive force application (handwheel and actuator)
2. Non-rotating, rising stem
Position indicator
Direct actuator mounting possible
3. Actuator flange according to EN ISO 5210
Electrical actuator mounting possible under operation load PB and in any position without bonnet disassembling
4. Back-up seal by two o-rings
Grease chamber between the two o-rings for a reliable stem guide
5. Spiral spring support
Optimized functional security in any position (open-closed-intermediate)
Increased service life of the diaphragms
Maintenance free
6. Enclosed diaphragm in off-load area
Bonnet and body assembled metal on metal in force closure
Absolute tightness to atmosphere and passage
All moving parts are hermetically separated from the fluid by the diaphragm
Long service life

DN08 – DN150

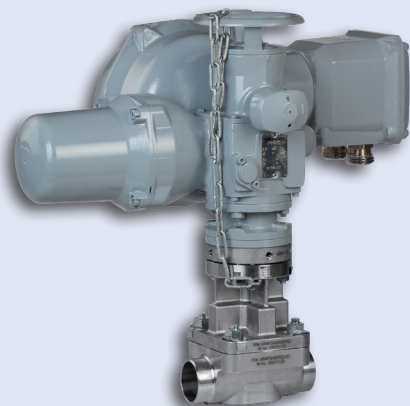
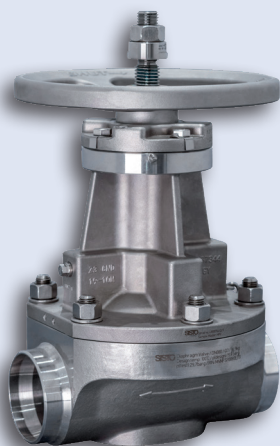
PN20 or according to pressure and temperature specification and pipe loads

Temperature: max. 100°C (higher temperatures on demand)

Materials according specifications (e.g.: RCC-M, ASME, KTA)

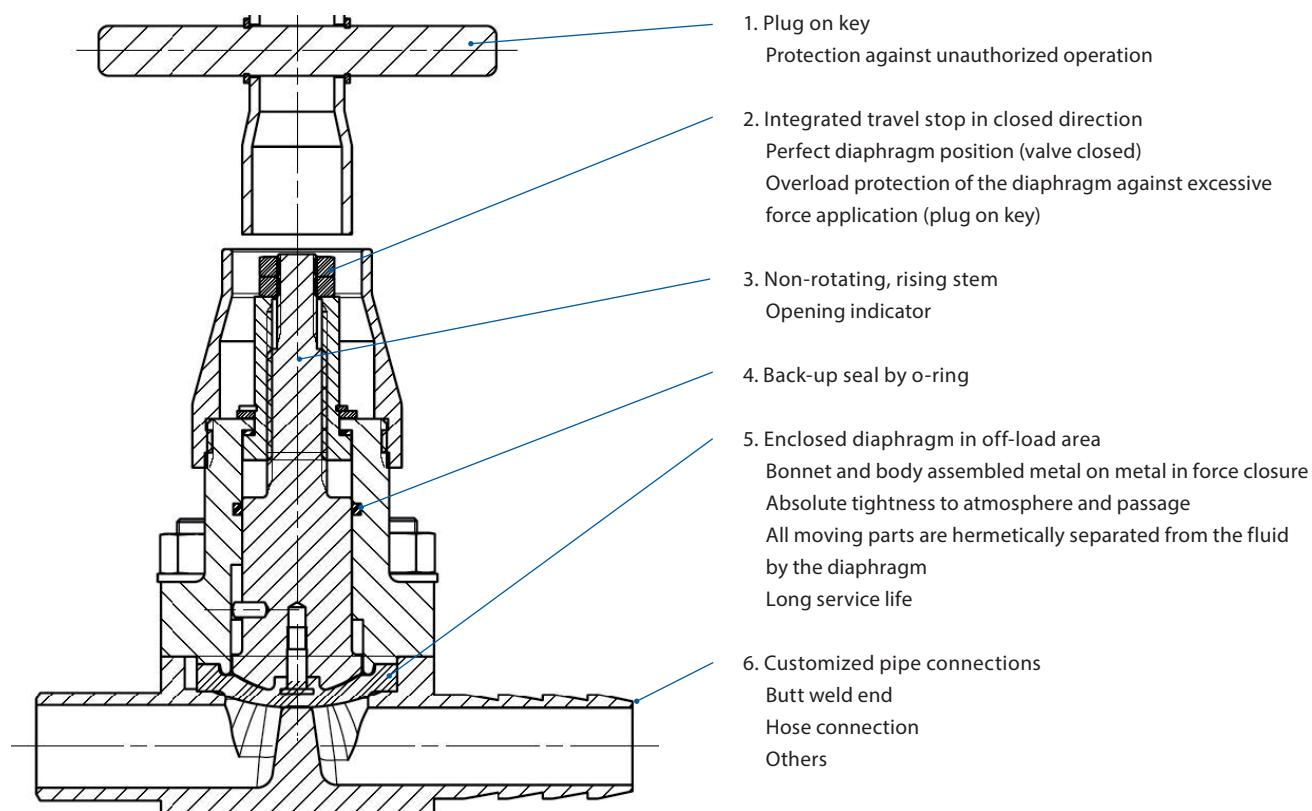
References

Hinkley Point C - United Kingdom	Q2, Q3
Taishan 1 + 2 – China (Type 120/121/220/221/222)	Q2, Q3, NC
Flamanville 3 - France	NC
Ringhals - Sweden	Q2



SISTO-DrainNA

Drain valve / Diaphragm valve



DN15 – DN25

PN16 or according to pressure and temperature specification and pipe loads

Temperature: max. 100 °C (higher temperatures on demand)

Materials according to specifications (e.g.: RCC-M, ASME, KTA)

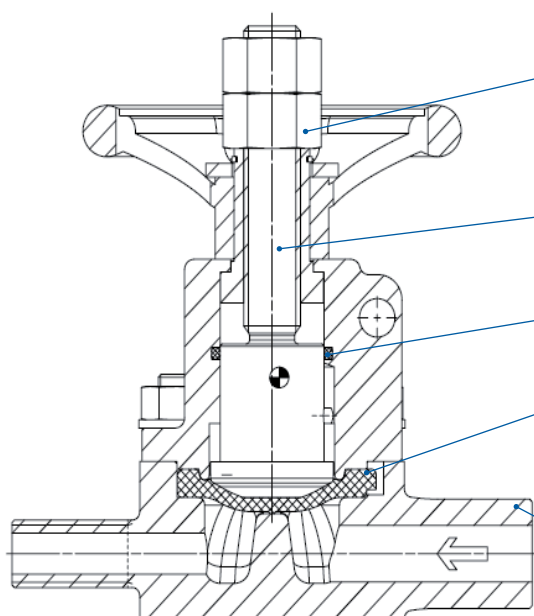
References

Olkiluoto 3 – Finland (Type 640)	Q3
Taishan 1 + 2 – China (Type 653)	Q2, Q3, NC
P4 and P'4 design reactors – France	Q3



SISTO-InstNA

Instrument isolation valve / Diaphragm valve



1. Integrated travel stop in closed direction
Perfect diaphragm position (valve closed)
Overload protection of the diaphragm against excessive force application (handwheel)
2. Non-rotating, rising stem
Opening indicator
3. Back-up seal by o-ring
4. Enclosed diaphragm in off-load area
Bonnet and body assembled metal on metal in force closure
Absolute tightness to atmosphere and passage
All moving parts are hermetically separated from the fluid by the diaphragm
Long service life
5. Customized pipe connections
Male or female threaded
Socket weld ends / butt weld ends
Others

PN16 or according to pressure and temperature specification and pipe loads

Temperature: max. 100 °C (higher temperatures on demand)

Materials according to specifications (e.g.: RCC-M, ASME, KTA)

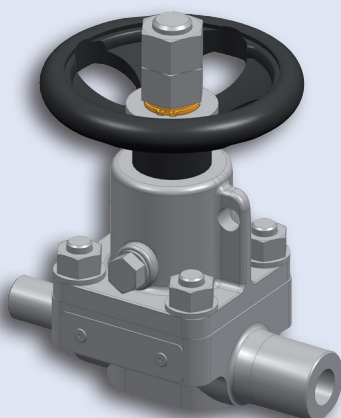
References

P4 and P'4 design reactors – France

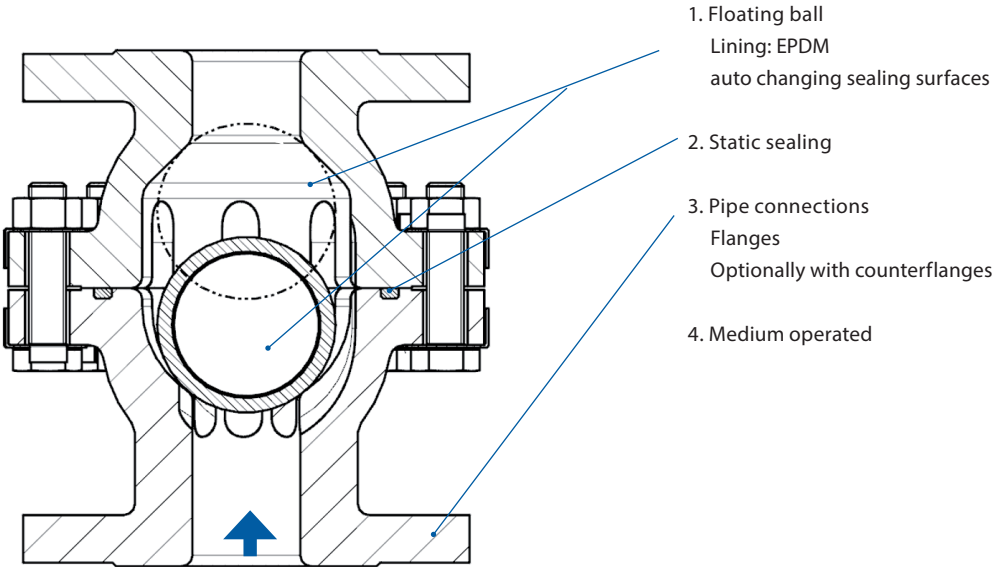
Q3

Hinkley Point C - United Kingdom

Q3



SISTO-KRVNA
Floating ball vent valve



DN25, 50, 80, 100, 150
PN16 or according to pressure and temperature specification
and pipe loads
Temperature: max. 100°C (higher temperatures on demand)
Materials according to specifications (e.g.: RCC-M, ASME, KTA)

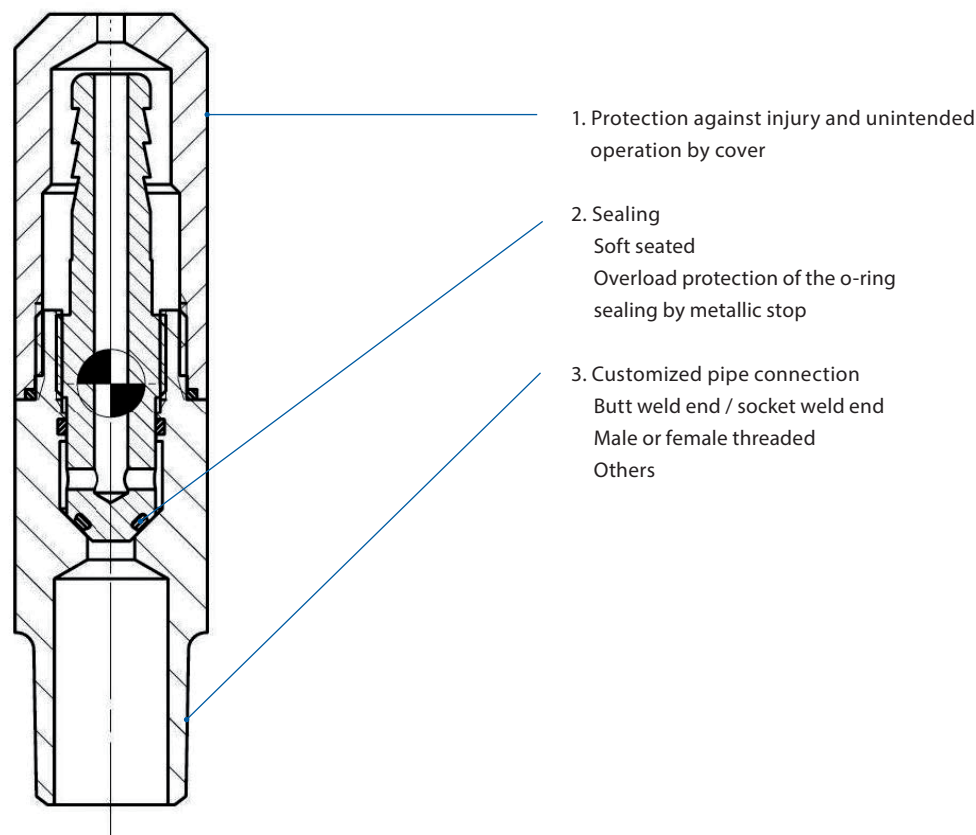
References

Hinkley Point C - United Kingdom	Q2, Q3
Taishan 1 + 2 – China (Type 330)	Q3
Flamanville 3 – France	Q3
Olkiluoto 3 – Finland (Type 53)	Q3
Angra 1 + 2 + 3 – Brazil (Type 98)	AS3
Isar 2 – Germany (Type 98)	AS3
Neckarwestheim 2 – Germany (Type 98)	AS3
Emsland – Germany (Type 98)	AS3
Fangchanggang 3 +4 - China	Q3
P4-P'4-CPY-CPO-N4 - France	Q3
Forsmark - Sweden	NC
Jules Horowitz - France	NC
Philippsburg 2 (Type 98) - Germany	AS3



SISTO-VentNA

Vent valve



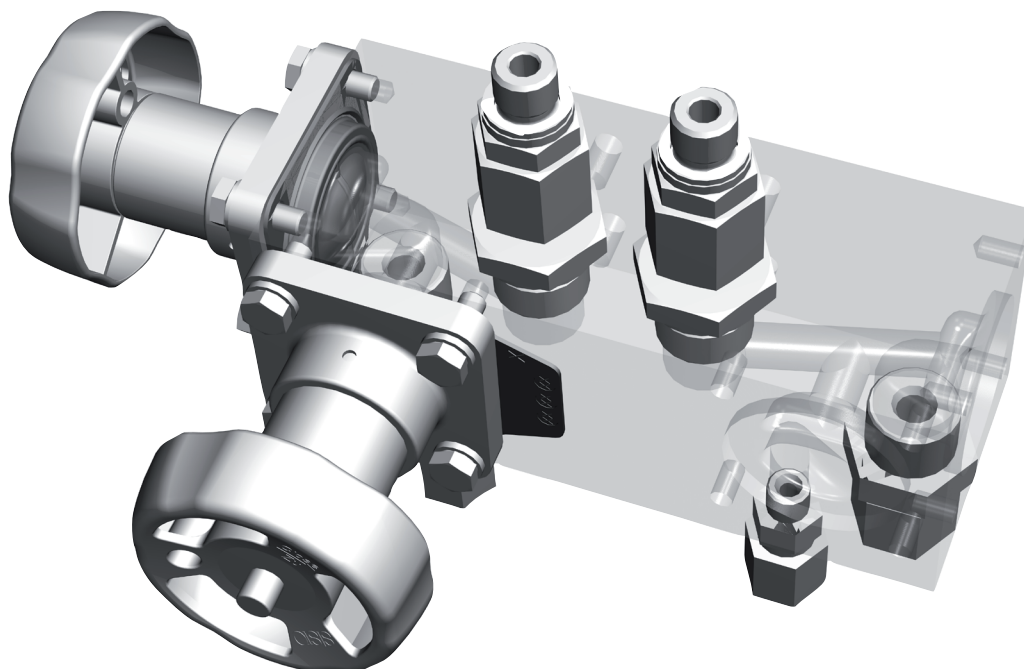
DN15
PN16
Temperature: max. 120 °C
Materials according to specifications (e.g.: RCC-M, ASME, KTA)

References	Olkiluoto 3 – Finland (Type 641)	Q3
	Taishan 1 + 2 – China (Type 441)	Q2, Q3, NC
	P4 and P'4 design reactors – France	Q3



SISTO-MultiportNA

Compact multiport diaphragm valve



Compact design

Minimized dead zone

Multifunctional

Customized connections

PN20

Temperature: max. 100 °C

Materials according to specifications (e.g.: RCC-M, ASME, KTA)

References

P4 and P'4 design reactors – France

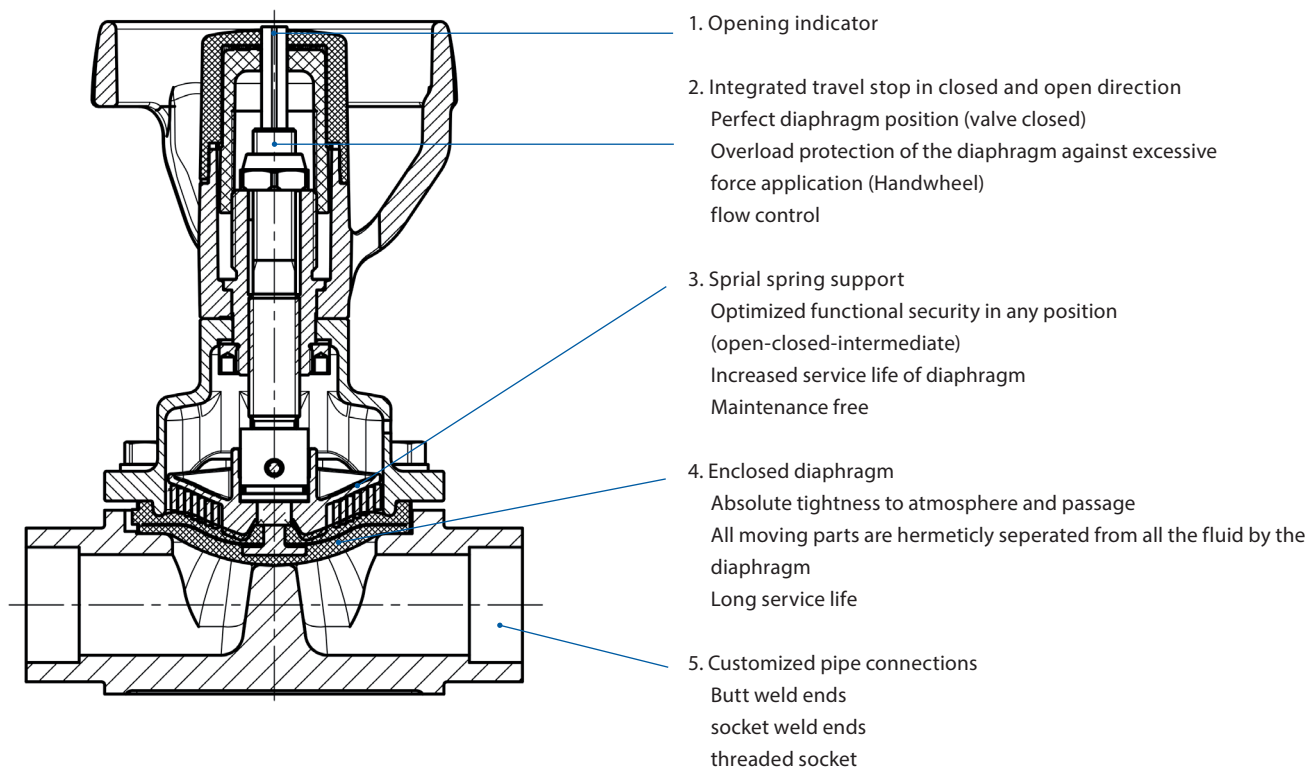
NC



Installation example

SISTO-20

diaphragm valve



DN15 - DN50

PN16

Temperature: max. 100 °C

Materials according to specifications (e.g.: RCC-M, ASME, KTA)

References

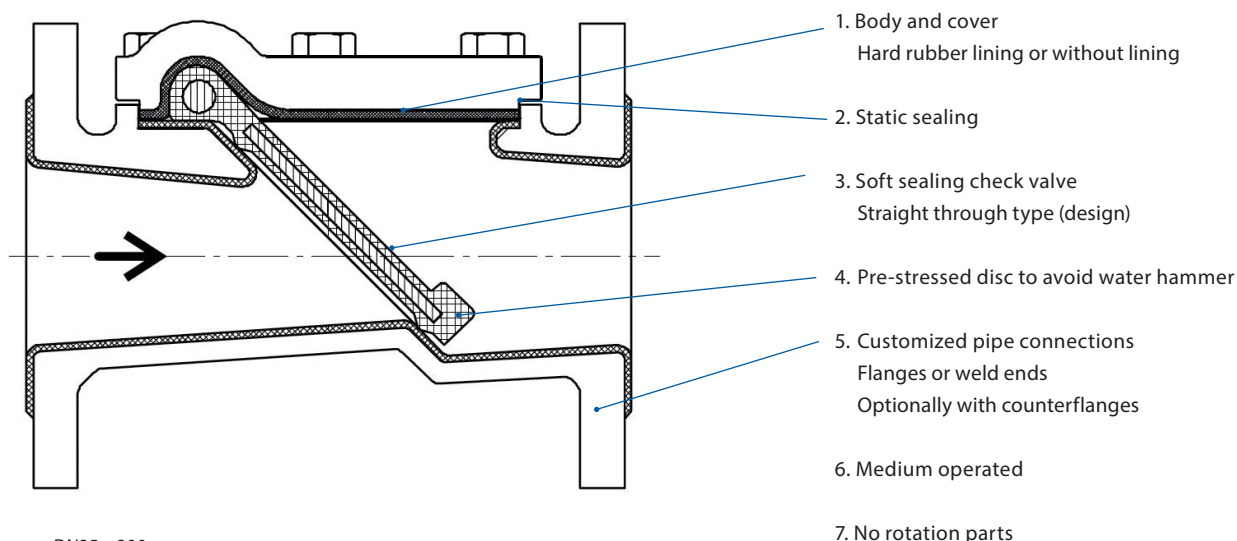
CPO, CPY, P4, P'4, N4 - France

Q3



SISTO-RSKNA

Swing check valve



DN25 – 300

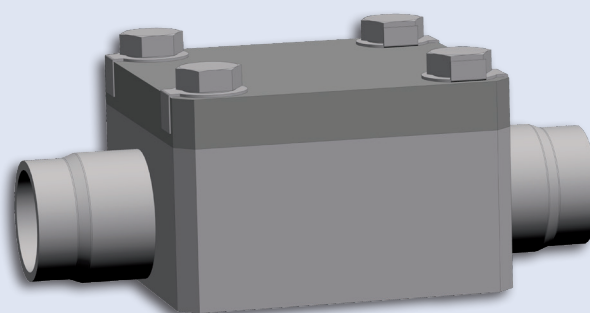
PN16 or according to pressure and temperature specification and pipe loads

Temperature: max. 100 °C (higher temperatures on demand)

Material: Body and cover JS-1025, steel or stainless steel or according to specification (e.g.: RCC-M, ASME, KTA)

References

Olkiluoto 3 – Finland (Type 216)	Q3, Q4
Taishan 1 + 2 – China (Type 375)	Q3
Isar 2 – Germany (Type 216)	AS3, AS5
Neckarwestheim 2 – Germany (Type 216)	AS3, AS5
Emsland – Germany (Type 216)	AS3, AS5
Beznau – Switzerland (AKZ)	Q3
Unterweser – Germany (Type 216)	AS3
Biblis B – Germany (Type 216)	AS3
Philippsburg 2 – Germany	AS3
Brunsbüttel – Germany	AS3



SISTO products and competencies

Diaphragm valves for sterile processes



SISTO-C



SISTO-C

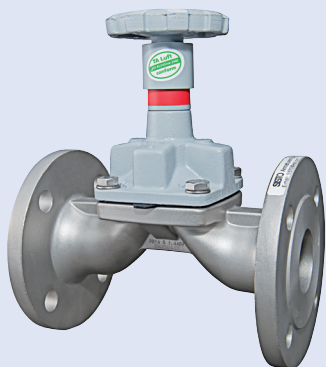
Diaphragm valves for energy, industry und building services



SISTO-KB



SISTO-20



SISTO-20 stainless steel



SISTO-16RGAMAXX

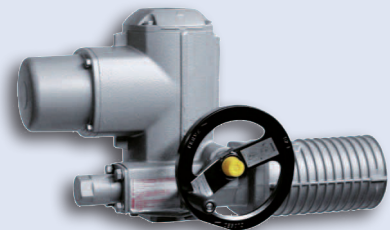
Actuators for valves



SISTO-LAP

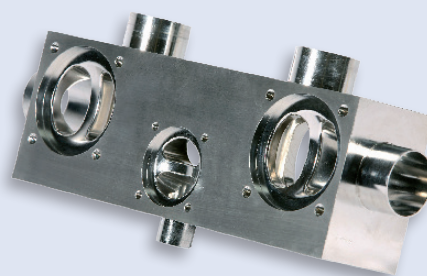
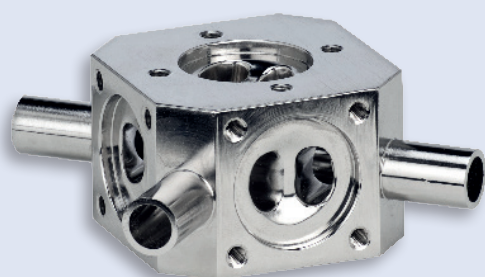


SISTO-LAD



SISTO-LAE

Complex machining



mechanically polished and electropolished

Lining and coating



Rubber

Polyamide

PTFE

Elastomer parts

PMUC



Diaphragms

Balls

Discs



In house execution of customized corrosion protections with **ACQPA** (level 1 and 2) certified personnel.

In house execution of **visual inspections** with ISO 9712 (level 1 and 2) certified personnel according customized inspection plans.



Execution of **Non-destructive testing (NDT)** with ISO 9712 (level 1, 2 and 3) certified personnel according customized inspection plans.



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