

VAC[®]

Axial cartridge Valve Control Valve

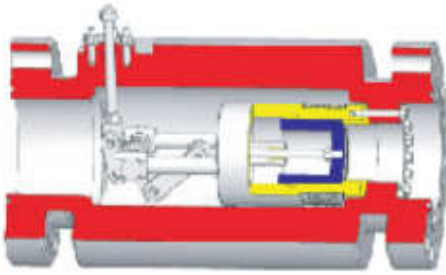


Fig.1 VAC control Valve

MPSA model : VAC

VACSS-L1, VACAS-L1, VACSS-L2, VACAS-L2

from 10" to 40", VAC body length stays close to 50" (1300mm).

Product data sheet:

Function : control valve

Design : cartridge valve

Standard Size : 12"-40" (upper on request)

Standard pressure ratings :

ASME Class 150,300,600, 900

On request : 1500, 2500

Technical advantages :

Easy maintenance. Modularity.

Seism resitant. Fire resistant.

Insensitive to thermalvariation.vibration resistant.

Best typical applications :

High speed regulation.

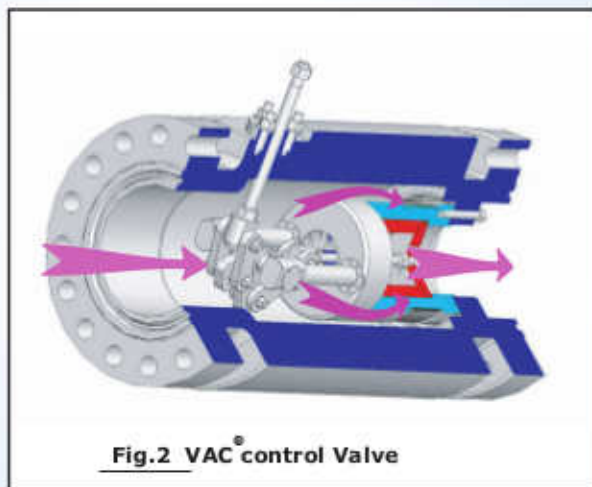
Accurate process.

Severe duty.

Extreme climatic conditions. Sub sea on request

VAC[®] Axial Cartridge Valve

Control Valve



Operating device :
Control rod

Low torque & fast Actuator :
Operates with 700 cm² actuator at 3bars
less than 8s from 0 to 100%
Pneumatic Actuator
Hydraulic Actuator
Electric Motorization

Applications :
Gas, liquid natural gas, Steam, Liquid,
Liquid with particles, Gas with particles

Material :
Anticorrosion Coated Carbon steel,
Low temperature Carbon steel,
Stainless steel Alloy, Titan alloy

Working Temperaturee :
Standard : -60°C up to +220°C
Extended : -200°C up to + 260°C

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150	bicorps									
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500	Fig. 1-3									
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000	sur demande									



Fig.3 VAC/DN500/PN100 L=1302.8mm H=813mm

VCM[®] Manual cartridge Valve

Control Valve or Shut off valve



fig 1 VCM-AC

MPSA model : VCM-AC
VCM-CR, VCM-CR ISO
VCM-TR, VCM-TR ISO

VCMACSS-L1, VCMACAS-L1, VCMACSS-L2, VCMACAS-L2,
VCMCRSS-L1, VCMCRAS-L1, VCMCRSS-L2, VCMCRAS-L2,
VCMTRSS-L1, VCMTRAS-L1, VCMTRSS-L2, VCMTRAS-L2,

For all diameter, VCM-AC body length stays close to 50" (1300mm). Body length for VCM-CR and VCM-TR are ISO standard.

Product data sheet:

Function : Relief valve, pressure or flow reducing valve, safety valve, hand operated control valve, shut off valve.

Design : cartridge valve

Hand wheel with linear linkage (VCM-AC/CR).

Hand wheel with rotative linkage (VCM-TR).

Standard size: 12"-40" (VCM-AC/CR), 8"-40" (VCM-TR).

Standard pressure ratings : ASME Class 300 600 900

On request : 1500 2500

Technical advantages :

Easy maintenance. Modularity. Low torque, fast operating.

Accurate operating. Fire resistant.

Best typical applications :

Emergency relief Valve. Accurate control valve

Severe duty.

Extreme climatic conditions.

Cartridge Flow can be customized on request

VCM[®]

Manual Cartridge Valve Control Valve or shut off valve

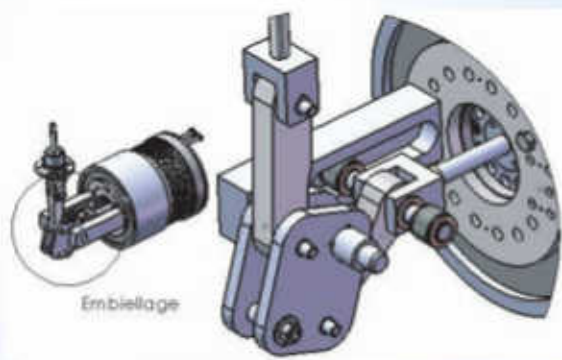


Fig.2 VCM-AC control Valve

Working Temperaturee :

Standard : -60°C up to +220°C

Extended : -200°C up to + 260°C

Low torque handwheel :

Less than 7mkg for any diameter (1.8mkg for DN300,110 bars)

36 revolutions from 0 to 100%

Hand operated without gearbox

(full range could be achieved in less than 40s)

Material :

Anticorrosion **Coated** Carbon steel, Low temperature

Carbon steel, Stainless steel Alloy, Titan alloy

Applications :

Gas, liquid natural gas, Steam, Liquid,

Liquid with particles, Gas with particles

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150										
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500										
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000										

Fig. 1-3

on request



Fig.3 Coated valve Body VCM/DN300/PN100 L=1240mm H=590

VCR[®]

Roller cartridge Valve Control Valve

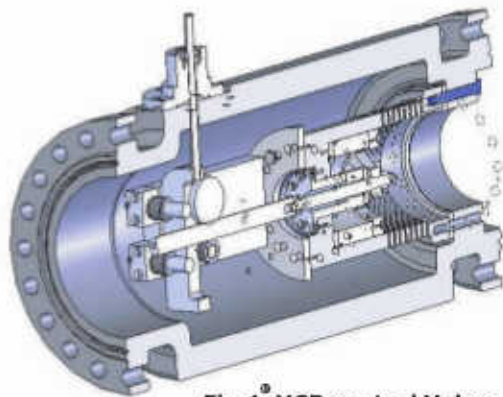


Fig.1° VCR control Valve

MPSA model : VCR

VCRSS-L1, VCRSS-L2, VCRSS-L3, VCRSS-L4,
VCRAS-L1, VCRAS-L2, VCRAS-L3, VCRAS-L4,

For all VCR, from 10" to 40",
body length stays close to 50" (1300mm).

VCR on request:

(body length could adapted to clients needs)

Product data sheet:

Function : control valve

Design : cartridge valve

Size : 12"-36" (upper on request)

Standard pressure ratings : ASME Class 150, 300, 600, 900

On request : ASME 1500, 2500

Technical advantages :

Easy maintenance. Modularity.

Seism resitant. Fire resistant.

Best typical applications :

High flow rate.

Severe duty.

Sub sea on request

VCR[®] Roller Cartridge Valve

Control Valve



Fig.2 VCR control Valve

Working Temperaturee :

Standard : -60°C up to +220°C

Extended : -200°C up to + 260°C

Low torque & fast Actuator :

Operates with 700cm² pneumatic actuator
less than 8s from 0 to 100%

Pneumatic Actuator

Hydraulic Actuator

Electric Motorization

Material :

Anticorrosion Coated Carbon steel, Low temperature
Carbon steel, Stainless steel Alloy, Titan alloy

Applications :

Gas, liquid natural gas, Steam, Liquid,
Liquid with particles, Gas with particles

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150										
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500										
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000										

Fig. 1-3

on request



Fig.3 VCR/DN500/PN100

body size : L=1302.8mm H=813mm

Valve mass including Cartridge L1 : 2700Kg

Cartridge mass type L1, DN50 : 200Kg

Cartridge mass type L4, DN500 : 400Kg

VFAC[®] Axial Fast Closure Valve Shutoff Valve



Fig.1 VFAC Shutoff Valve

MPSA model : VFAC

VFAC,

VFAC are ISO standard
VFAC-B (linkage), from 10" to 40",
body length Less than 50" (1300mm).

Product data sheet:

Function : Shutoff valve

Design : cartridge valve

Standard Size : 10"-36"

Standard pressure ratings : ASME Class 150, 300, 600, 900

On request : 1500 2500

Technical advantages :

Very Fast closure (less than 2s),

Easy maintenance. Modularity.

Seism resistant. Fire resistant.

Insensitive to thermal variation(VFAC-B).Vibration resistant.

Best typical applications :

High speed closure.

Severe duty.

Extreme climatic conditions.

Sub sea on request

VFAC[®] Axial Fast Closure Valve

Shutoff Valve

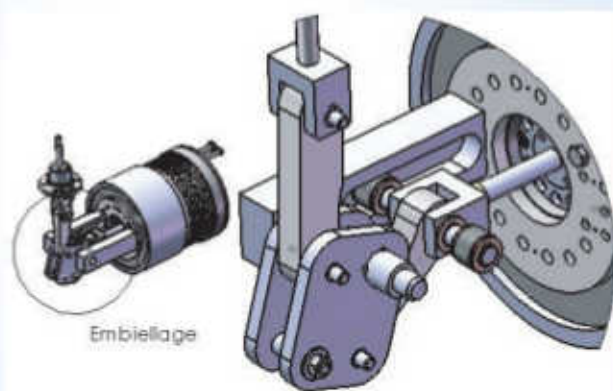


Fig.2[°] VFAC-B Shutoff Valve

Material :

Anticorrosion Coated Carbon steel,
Low temperature Carbon steel, Stainless steel Alloy, Titan alloy

Working Temperaturee :

Standard : -60°C up to +220°C

Extended : -200°C up to + 260°C

Small & fast Actuator :

Less than 2s for sealing and closure

Pneumatic Actuator

Hydraulic Actuator

Electric Motorization

Applications :

Gas, liquid natural gas, Steam, Liquid,
Liquid with particles, Gas with particles

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150										
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500										
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000										

Fig. 1-3

on request



Fig.3 VFAC/DN300/PN100 RJ
body L=1120mm H=590,

VHIPPS[®] Axial Fast Closure Valve

High Integrity Protection Pipe System Valve

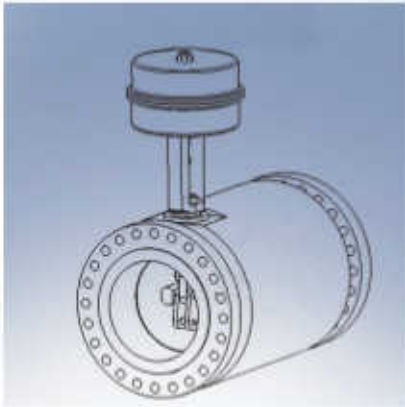


Fig.1 VHIPPS Safety Valve

MPSA model : VHIPPS

VHIPPS are designed as SIL4
(Safety Integrity Level- 4).

VHIPPS Valves are controlled by
a Safety Logic Control System (SLCS),
based on K3 qualified components.

K3 qualification, is an
International Safety Qualification
used for more than 30 years in Nuclear plants.

Product data sheet:

Function : Fast Safety valve (Less than 2s under any conditions)

Design : cartridge valve

Size : 12"-36" - ISO Standard.

Standard pressure ratings : ASME Class 150, 300, 600, 900

On request : 1500 2500

Technical advantages :

Very Fast closure. Seism resistant. Fire resistant.

Insensitive to thermal variation. Vibration resistant.

SLCS to control VHIPPS used K3 Qualified components.

K3 qualification includes electric, seismic tests (details on request).

Best typical applications :

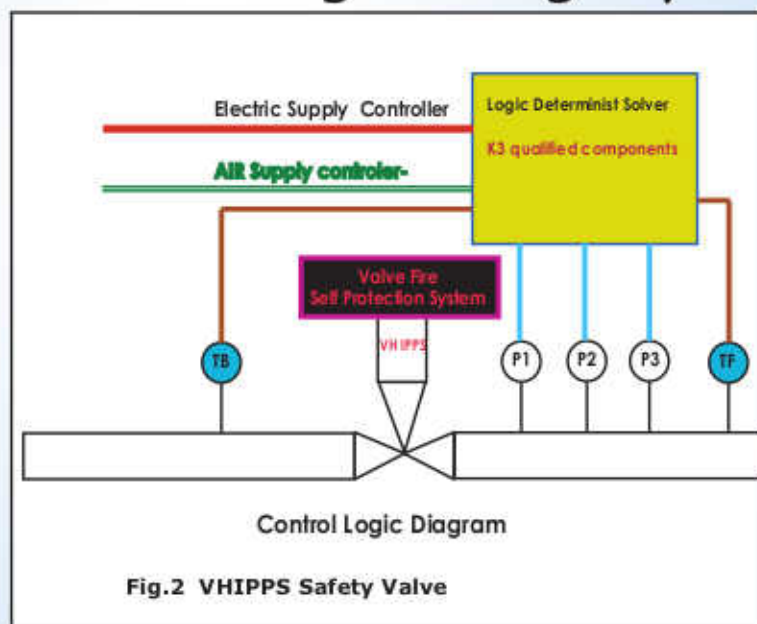
SAFETY closure. Severe duty.

Extreme climatic conditions.

Sub sea on request

VHIPPS[®] Axial Safety Valve

High Integrity Protection Pipe Valve



Operating device :
Control rod

Low torque & fast Actuator :
Operates with 700 cm² actuator
less than 2s for closure under any conditions.
Pneumatic Actuator
Hydraulic Actuator

Applications :
Gas, liquid natural gas, Steam, Liquid,
Liquid with particles, Gas with particles
Typical application :

Material :
Anticorrosion Coated Carbon steel,
Low temperature Carbon steel,
Stainless steel Alloy, Titan alloy

Working Temperaturee :
Standard : -60°C up to +220°C
Extended : -200°C up to + 260°C

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150										
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500										
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000										

Fig. 1-3

on request



Fig.3 VHIPPS/DN500/PN100

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VKF[®]

Fast Check Valve Check Valve

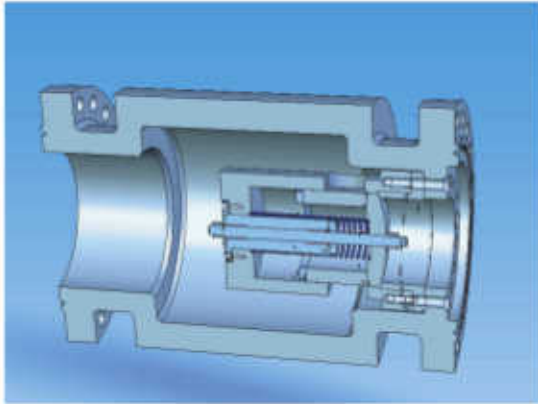


Fig.1 VKF[®] Check Valve

MPSA model : VKF

For All MPSA' check valves, flow profile could be optimized.
VKF are ISO standard

Product data sheet:

Function : Check valve
Design : cartridge valve
Size : 2"-36" (ISO standard)

Standard pressure ratings : ASME Class 150, 300, 600, 900
On request : 1500, 2500

Technical advantages :
Adjustable spring force in check valve
Easy maintenance. Modularity.
Seism resitant. Fire resistant.
Insensitive to thermal variation.vibration resistant.

Best typical applications :
Severe duty.
Extreme climatic conditions.
Sub sea on request.

VKF[®] Fast Check Valve

Check Valve

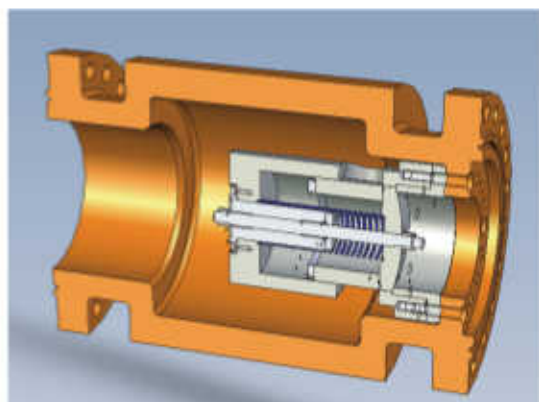


Fig.2 VKF[®] Check Valve

Material :

Anticorrosion Coated Carbon steel,
Low temperature Carbon steel,
Stainless steel Alloy, Titan alloy

Operating device :

Spring (VKF), adjustable force

Fast operating:

Closure less than 2s

in VKF, spring force is adjustable

Applications :

Gas, liquid natural gas, Steam, Liquid,
Liquid with particles, Gas with particles

Typical application :

Working Temperaturee :

Standard : -60°C up to +220°C

Extended : -200°C up to + 260°C

Pressure Range :

	PN10	PN16	PN20 – 150 lbs	PN25	PN40	PN50 – 300lbs	PN64 – 400lbs	PN100 – 600lbs	PN160 – 900lbs	PN250 – 1500lbs
3/8" – DN10										
1/2" – DN15										
3/4" – DN20										
1" – DN 25										
1" 1/4 – DN32										
1" 1/2 – DN40										
2" – DN50										
2" 1/2 – DN65										
3" – DN80										
4" – DN100										
5" – DN125										
6" – DN150										
8" – DN200										
10" – DN250										
12" – DN300										
14" – DN350										
16" – DN400										
18" – DN450										
20" – DN500										
24" – DN600										
28" – DN700										
32" – DN750										
36" – DN900										
40" – DN1000										
48" – DN1200										
56" – DN1400										
64" – DN1600										
72" – DN1800										
80" – DN2000										

Fig. 1-3

on request



VKF DN250 PN100

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MPSA

VAD[®] Direct Axial Valve

T or Line On/Off Valve



Fig.1 VAD-On/Off valve with bends

Material:

Bronze, stainless steel, font GS500

Low torque & fast motorization :

Pneumatic Motorization

Electric Motorisation

Flange or threaded ends

Applications :

Gas, Liquid,

LPG ou LNG

working temperature :

Standard : - 60°C à + 220°C

LNG : - 200°C à + 260°C

	PN10	PN16	PN20 - 150 lbs	PN25	PN40	PN50 - 300lbs	PN64 - 400lbs	PN100 - 600lbs	PN150 - 900lbs	PN250 - 1500lbs
3/8" - DN10										
1/2" - DN15										
3/4" - DN20										
1" - DN25										
1" 1/4 - DN32										
1" 1/2 - DN40										
2" - DN50										
2" 1/2 - DN65										
3" - DN80										
4" - DN100										
5" - DN125										
6" - DN150										
8" - DN200										
10" - DN250										
12" - DN300										
14" - DN350										
16" - DN400										
18" - DN450										
20" - DN500										
24" - DN600										
28" - DN700										
32" - DN750										
36" - DN900										
40" - DN1000										
48" - DN1200										
56" - DN1400										
64" - DN1600										
72" - DN1800										
80" - DN2000										

Fig. 1-3

étendue

étendue

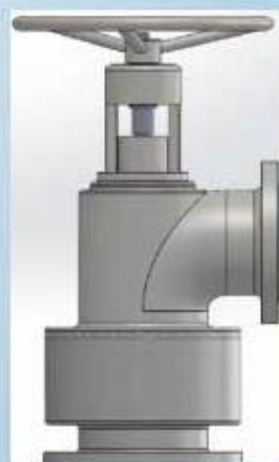
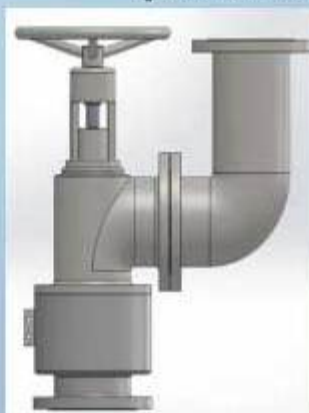


Fig.2 et 3 VAD/DN50 à DN700



VAL[®] Valve Axial L

On/Off Valve "L" LNG-LPG



Fig. 2 VAL-DN50-stainless steel- LNG

Material :

Carbon steel fully coated,
Bronze,
stainless steel, Titanium alloy

Low torque & fast operated :

Less 1kN up to DN100 under 100bars
Less than 0.7s for operating time pneumatic (DN250)
less than 6s for operating time electric (DN250)
Direct hand wheel, without gearbox upto DN600
Pneumatic Motorization
Electric Motorization (180w)

Applications :

Gas, Liquid, LNG, LPG

Working temperature:

stainless steel: - 160°C à + 70°C
Standard: -25° à +60°C (extended +200°C)

Range:

	PN10	PN16	PN20 - 150 lbs	PN25	PN40	PN50 - 300lbs	PN64 - 400lbs	PN100 - 600lbs	PN160 - 900lbs	PN250 - 1500lbs
3/8" - DN10										
1/2" - DN15										
3/4" - DN20										
1" - DN 25										
1" 1/4 - DN32										
1" 1/2 - DN40										
2" - DN50										
2" 1/2 - DN65										
3" - DN80										
4" - DN100										
5" - DN125										
6" - DN150										
8" - DN200										
10" - DN250										
12" - DN300										
14" - DN350										
16" - DN400										
18" - DN450										
20" - DN500										
24" - DN600										
28" - DN700										
32" - DN750										
36" - DN900										
40" - DN1000										
48" - DN1200										
56" - DN1400										
64" - DN1600										
72" - DN1800										
80" - DN2000										

Fig. 1-2

étendue

étendue

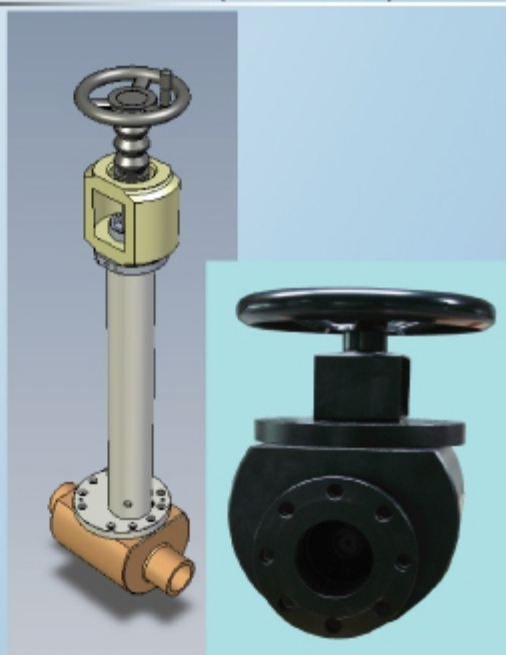


Fig. 1 VAL/DN100/PN100 Motorized or hand operated,

VAS[®] Globe valve

T or Line Valve



Fig.2 VAS-von/off T valve

Material:
Bronze, stainless steel, font GS500

Low torque & fast motorization :
Pneumatic Motorization
Electric Motorisation
Flange or threaded ends

Applications :
Gas, Liquid,
LPG ou LNG

working temperature :
Standard : - 60°C à + 220°C
LNG : - 200°C à + 260°C

Range :

	PN 10	PN 16	PN 20 – 150 lbs	PN 25	PN 40	PN 50 – 300lbs
3/8" – DN10						
1/2" – DN15						
3/4" – DN20						
1" – DN 25						
1" 1/4 – DN32						
1" 1/2 – DN40						
2" – DN50						
2" 1/2 – DN65						
3" – DN80						

Fig. 1-2

extended



Fig.1 VAS/DN10 up to DN50/PN20