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## INTRODUCTION

ORBINOX offers, supplies and certifies valves according to the information received from the customer. The customer is liable to make sure this information is accurate and according to specific working conditions requirements where the valve will be installed.

By default, this marking considers the use of these valves with industrial liquids. For other specific applications/services please contact with our technical office to evaluate marking requirements and availability.

## EUROPEAN DIRECTIVES

- **2006/42/EC (MACHINERY)**

For automatised (with pneumatic, hydraulic or electric actuators) Knife Gate Valves

- **2014/68/EU (PED)**

<b>Category (Directive 2014/68/EU)</b>	<b>Scope of valves</b>
Category I – Module A → Self-certification	Knife Gate Valves in catalogue
Category II – Module A2 → Notified body surveillance plan	EX, EB, HERA, EK, HK, TL, TK, VP, CX, VG → DN50-DN1200 ET, EW, BT, WG → DN50-DN1200 XC, DT → DN50-DN600 CR → DN100-DN600 BC → 150x150-2000x2000 CW → DN80-DN1000 HB → DN80-DN600 HG → DN80-DN900 BX → DN450-DN1000 WS → <DN3000 (on request) TH → <DN1200 (on request)
Category III – Module H → Notified body surveillance plan	MP → DN250-DN2400 MI → DN250-DN2400
Category III – Module B+F → Notified body surveillance plan	Valves upon order

- **2014/34/EU (ATEX)** 

There are certain restrictions which shall be followed. Contact ORBINOX representative for availability of this certificate of your specific valve's requirement.

**ATEX 0/20 Valves (Availability)**

<b>VALVE</b>	<b>SIZE</b>
BX	DN 450
	DN 700 – DN 1000
EK, EX, HK	DN 50 – DN 1200
CX	DN 200 – DN 900
XC, TL	DN 50 – DN 600
EB TK	DN 50 – DN 1200
	DN 80 – DN 600
ET, BT	DN 50 – DN 900
BC	150x150 – 2000x2000

**ATEX 1/21 Valves (Availability)**

<b>VALVE</b>	<b>SIZES</b>
3VY	DN 50 – DN 250
DAMPER ML	DN 200 – DN 3000
DAMPER DI	DN 200 – DN 3000
DAMPER PE	200x200 – 3000x3000
DAMPER DG	DN 500 – DN 3000
	500x500 -3000x3000
DAMPER GF	DN 500 – DN 3000
WS	DN 100 – DN 3000
SLIDE GATES	CC: 200x200 -4500x4500
	MU: 200x200 -4000x4000
	RB: 200x200 -6000x2500
ORBINOX PNEUMATIC CYLINDERS	Ø100 – Ø 300
KNIFE GATE VALVES	EX, EB (&HERA), EK, TL, TK, VP, CX: DN 50 – DN 1200
	KP: DN 80
	ET, BT, WG, VG: DN 50 – DN 900
	XC, DT: DN 50 – DN 600
	CR: DN 100 – DN 600
	BC: 150x150 -2000x2000
	CW: DN 80 – DN 1000

**ATEX 2/22 Valves specifications →Self-certification**

Availability same as above for 1/21, plus SG (DN80-DN400)

Some considerations:

- Electrically, pneumatically and hydraulically operated valves must be subject to a conformity assessment of their own and also of the whole unit valve actuator to get EC Type Approval to ATEX Directive
- Hand operated and bare shaft valves have been subject to an ignition risk assessment. Even if they are out the scope of application of ATEX Directive some considerations shall apply:
  - Valves are suitable for ALL ATEX zones as long as valve guarantees full electrical conductivity. Some special arrangements shall be added to regular valves to comply with above statement
  - For installation and maintenance, same ATEX requirements for explosive areas shall apply

**OTHER CERTIFICATES**

**• EAC Declarations TR/CU 010:2011:**

Contact our ORBINOX representative for further information and product range availability

<b>Cat. TR/CU 010:2011</b>	<b>Scope of valves</b>
Knife Gate Valves	BT, EX, EB, ET, TL, CR, DT, VG, XC, BC, CW, WS, EK, TK, AT, VP, KP, SD, SG, TH, HB, HK, WG, BR, HG, BX, CX, SK
Other valves	TP RM 3V,4V,3VY
Dampers	ML
Penstocks- Slide Gates	MU, CC, RR, RC, BU, CT, MV, RB, AG, SL, SA

• **EAC Declarations TR/CU 032:2013:**

Contact our ORBINOX representative for further information and product range availability

Cat. TR/CU 032:2013	Scope of valves	Fluid type	Fluid hazard*	Approved range depending on working conditions	Pressure range (bar)	P*DN (bar*mm)
Cat. 1	EB, VG, TL, TK, TH, HB, WG, HG, BT, BR, XC	Liquid	1	DN250- DN1200	0.5-10	<2000
	CW, WS, CR, DT, EX, ET, EK, HK, EW	Liquid	1	DN250- DN1200	0.5-10	<2000
	CW, WS	Liquid	2	DN250- DN1000	10-100	<5000
	RM, RA	Liquid	1	DN250- DN900	0.5-10	<2000
		Liquid	2	DN250- DN600	10-40	<5000
	3VY,4VY	Liquid	1	DN250- DN300	0.5-10	<2000
PA	Liquid	1	DN250- DN300	0.5-10	<2000	
Cat. 2	EB, VG, TL, TK, TH, HB, WG, HG, BT, BR, XC	Liquid	1	DN250- DN1200	10-16	<2000
	CW, WS, CR, DT, EX, ET, EK, HK, EW	Liquid	1	DN80- DN1000	10-80	<2000
		Liquid	1	DN80- DN1000	80-100	<3500
	RM, RA	Liquid	1	DN65- DN900	10-40	<2000

\*Note: 1 dangerous liquid  
2 no dangerous liquid

- **EN 14432:2014** (Tanks for the transport of dangerous goods).  
EX valves with GJS-400 and CF8M bodies and EPDM/FKM/NBR seat available. Contact our ORBINOX representative for further information

## **MAIN STANDARDS**

- **ISO 9001:2015**

- ORBINOX S.A.

- ORBINOX CANADA

- ORBINOX INDIA

- ORBINOX NINGBO

- **ISO 14001:2015**

- ORBINOX S.A.

- ORBINOX INDIA

- ORBINOX NINGBO

- **ISO 45001:2018**

- ORBINOX S.A.

- ORBINOX CANADA

- ORBINOX INDIA

- ORBINOX NINGBO