Level Switch

Type ANV... - ANH... MAGNETIC LEVEL SWITCH





Magnetic Level Switches

Use

The vertical (series ANV) or horizontal (series ANH) level switches are designed to detect level variations in tanks containing liquids. The alarm switches commute electric or pneumatic circuits to switch relays, pumps, electric valves... or control luminous signal or alarms. They can be used for normal, corrosive or dangerous liquids with particular severe conditions of most industrial processes.

Description

Principle

A stainless steel float follows the liquid level variations and transmits its movement to a rod equipped with an emitter. The rod and emitter assembly moves into a scaled non-magnetic guide-tube and magnetically controls the changeover of the switch which is protected by a waterproof of ADF case-housing.

The ANV models must be mounted vertically, either directly on the top of the tank (series ANV-T) or on the side of the tank through an independent chamber fitted with two side connections (series ANV-C)

The ANH models must be mounted horizontally, directly on the side of the tank or through an independent chamber (type ANH-C).



ORDERING Information - Coding Example:

ANV	CM E	EX –	CP	-AC -	- 20 -	-CC6 -	- PO	– MO	– H -	- <mark>S</mark> -	- Z –	D
<u> </u>		1										1
Design type	Construction type	Housing type	Emitter	Material type	Rating Flange	Connection type	Drain type	Float type	Care Housing Type	Switch type	Option types	Documents
see	see	see	see	see	see	see	see	see	see	see	see	
Page 3	Page 3	Page 3	Page 4	Page 8	Page 8	Page 5	Page 5	Page 6	Page 2	Page 4	Page 8	

CONSTRUCTION CODING = CODAP 2005 div1 or div2 – Instructions for pressure instruments 97/23/CE – module H or H1 / Electric equipments: STD, ATEX //ISO 9001/2000 Certification

Magnetic Level Switch

TYPES OF CONSTRUCTION

Top Mounting Version Series ANV...T...

Designed for direct mounting on the container through an adapted flange.

Flange materials: Carbon steel BF48N/A105 Stainless steel 316L or 304L Other materials on request

Detailed characteristics see table on pages 4 and 5

TYPES OF MEASURE

Float Version see code M

Used as standard for normal applications Min. specific gravity: 0.65 Max. operating pressure: 100 bars Max. operating temperature: 350°C Material: stainless steel Z2CND17-12(316L) Other material on request

<u>NOTA</u>: The adjustment of switching levels must only be made by changing the float position on the rod or on the cable. DO NOT CHANGE THE POSITION OF THE MECHANISM IN THE

OF THE MECHANISM IN THE CASE HOUSING

Detailed characteristics see table on page 6

TYPE OF CASE HOUSING

Standard case-housing - IP54

Waterproof case housing IP54, enabling the adjustment of the alarm switches. Electrical cable entry with cable gland, connectors, connections according to the needs (360° orientation)

Material :

Base: alloy epoxy polyester painted Cover : anodised aluminium Option : protection rating IP65

Explosive proof case-housing

EEx dIICT6 – IP66 Code = Ex Waterproof case housing enable to put alarm switches in electrical cable entry with cable gland, connectors, connections according to the needs and the type of contact.

Material :

Base: alloy epoxy polyester painted Cover : alloy epoxy polyester painted E B





Machined Welded Chamber Series ANV...CM...

Chamber model with machined welded elements. It allows realisation according to customer requirement.

Materials: Carbon steel version Stainless steel version 316L (304L in option)

Other materials on request

Mass Version

Mainly used for industrial processes with a high pressure/temperature couple and/or low specific gravity. Used when the buoyancy force is not sufficient to move the float/emitter assembly.

The float is replaced by a mass hanged to a spring. When the level gets higher, the buoyancy force on the mass reduces the tractive force on the spring which contracts.

The assembly mass/emitter gets higher and switches on the contact in the case-housing. When the level gets down, the buoyancy force on the mass decreases, the spring spreads itself, the assembly mass/emitter gets down again and the switch returns to its initial position. It is possible to use two independent masses to control two distinct switches or to create an important reengaging differential.

Min. specific gravity: 0.45

Max. operating pressure: 400 bars

Max. operating temperature: 350°C

Material: stainless steel Z2CND17-12(316L), other material on request

Double level models/double float on request

Designation

Code

H0

H1

H2

H3

H4

H5 H6

H7

H8

H9

H10 H12 HX Code

H0

H1

H2

H3

H4 H5

H6

H7 H11

H13

H14 HX

	Standard IP54 with 1 cable gland PG11 for diam. 8 to 10 cable
	Standard IP54 with 2 cable glands PG11 for diam. 8 to 10 cable
	Standard IP54 with 1 brass gland PG16 for diam. 10 to 15 cable
	Standard IP54 with 1 cable gland M20 X 1.5 BV2 for diam. 8.5
	to 14.5 cable
	Standard IP54 with 1 tap M20 X 1.5
	Lengthened housing (height dimension 230 becomes 330)
	Heat dissipater (according to the switch type)
	High temperature extension
	3 pins SOURIAU male plug (Stainless steel)
	7 pins SOURIAU male plug (Stainless steel)
	Waterproof IP65
	3 pins SOURIAU female (Stainless steel)
	Special
	Designation
	Designation Standard IP66 with 1 tapped entry ³ / ₄ " NPT
	Designation Standard IP66 with 1 tapped entry ³ 4" NPT Standard IP66 with 2 tapped entries ³ 4" NPT
	Designation Standard IP66 with 1 tapped entry ¾" NPT Standard IP66 with 2 tapped entries ¾" NPT Aluminium cable gland for diam. 5 to 12 cable
	Designation Standard IP66 with 1 tapped entry ¾" NPT Standard IP66 with 2 tapped entries ¾" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable
	Designation Standard IP66 with 1 tapped entry ¾" NPT Standard IP66 with 2 tapped entries ¾" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ¾" NPT- M20 X 1.5
	Designation Standard IP66 with 1 tapped entry ³ /4" NPT Standard IP66 with 2 tapped entries ³ /4" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ³ /4" NPT-M20 X 1.5 Lengthened housing (height quotation 300 becomes 400)
	Designation Standard IP66 with 1 tapped entry ³ /4" NPT Standard IP66 with 2 tapped entries ³ /4" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ³ /4" NPT- M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type)
	Designation Standard IP66 with 1 tapped entry ³ /4" NPT Standard IP66 with 2 tapped entries ³ /4" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ³ /4" NPT- M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type) High temperature extension
:	Designation Standard IP66 with 1 tapped entry ¾" NPT Standard IP66 with 2 tapped entries ¾" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ¾" NPT- M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type) High temperature extension Brass nickel plated cable gland armoured cable diam. 6.5 to 12,
:	Designation Standard IP66 with 1 tapped entry ¾" NPT Standard IP66 with 2 tapped entries ¾" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ¾" NPT- M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type) High temperature extension Brass nickel plated cable gland armoured cable diam. 6.5 to 12, diam.10.5 to 16
:	Designation Standard IP66 with 1 tapped entry ³ /4" NPT Standard IP66 with 2 tapped entries ³ /4" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ³ /4" NPT- M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type) High temperature extension Brass nickel plated cable gland armoured cable diam. 6.5 to 12, diam.10.5 to 16 Brass nickel plated adaptator 3/4NPT / M20 X 1.5
	Designation Standard IP66 with 1 tapped entry ³ /4" NPT Standard IP66 with 2 tapped entries ³ /4" NPT Aluminium cable gland for diam. 5 to 12 cable Bronze cable gland for diam. 9 to 15 cable Brass nickel plated steel reduction ³ /4" NPT - M20 X 1.5 Lengthened housing (height quotation 300 becomes 400) Heat dissipater (according to the switch type) High temperature extension Brass nickel plated cable gland armoured cable diam. 6.5 to 12, diam.10.5 to 16 Brass nickel plated adaptator 3/4NPT / M20 X 1.5 Brass nickel plated adaptator 3/4NPT / 1/2NPT

Page 3



1

TYPE OF SWITCHES

- Switches actuated by sta	inless stee	l magne	tic piston (CP)
	REED SWI	TCH	• · · ·
	Model : Simple	CODE S0	U U 24 48 110 230 I.Res. 1 1 0.55 0.25
	Double	S1	Changeover switch Screwed electric connection S=2.5mm ² *Operating temperature : -40°C à +100°C
6	IS REED SV	VITCH	
	Model :	CODE	Characteristics Change over switch Certificate - ATEX Nº I CIE05 ATEX6034X
	Simple	S15 S16	Marking: Marking: Electric Parameters: Ui≤30V; Ii≤50mA; Pi≤400mW Ci=0nF ; Li=0mH Screwed electric connection S=2.5mm ² *Operating temperature : T6: Ta=50°C max./ T5:Ta=65°C max./ T4: Ta=80°C max
	MICROSWI	ТСН	·
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OW	Model :	CODE	Characteristics
	Simple	S2 S3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
200			Changeover switch Screwed electric connection S=2.5mm ² *Operating temperature : -25°C to +85°C
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PNEUMATI	C SWITCI	H
	Model :	CODE	Characteristics Series changeover Supply circuit : filtered air 1 to 6bar
	Simple	S6	*Operating temperature : -15°C to +60°C

- Switches actuated by magnet (MA)

	CONTACTS TYPE MICROSWITCH HERMETICALLY SEALED									
	Model :	CODE	Characteristics							
	Simple	S7	$U \sim U = 24$ 48 110 230							
	1		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
	Double	S 8	I. Ind. 5 3 2 1.5 (A) 2.5 1.8 0.5							
			Changeover switch							
4000			Screwed electric connection S=2.5mm ²							
			*Operating temperature : -30°C à +65°C							
	DEED OUU		Options : ** Operating temperature : -55°C a +155°C							
	KEED SWIT	CODE	Characteristics							
	Model :	CODE								
See Do	Simple	S9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
04			(A) 1 1 1 0.33 0.23 (A) 1 1 1 0.35							
and the second se	Double	S10	Changeover switch							
			Sciewed electric connection $S=2.5$ mm ² *Operating temperature : -40° C à $\pm 100^{\circ}$ C							
	IS REED SW	/ITCH	operating competation. To e a 100 e							
	Modèle :	CODE	Characteristics							
Construction of the			Change over switch							
Contraction of the second	Simple	S17	Certificate : ATEX N° LCIE05ATEX6034X							
Co Di la contra			Marking: VII 1 G ExiaIICT6/T5/T4							
	D 11		Electric Parameters: U1≤30V; I1≤50mA; P1≤400mW C1=0nF; Li=0mH							
	Double	818	*Operating temperature : T6: Ta=50°C max/T5:Ta=65°C max/T4: Ta=80°C max							
			*Operating temperature : 16: 1a=50°C max./ 15:1a=65°C max./ 14: 1a=80°C max							

*Allowable temperature at the switch level

For an allowable temperature inside (with ambient T°<40°C) it is possible to increase the maximum temperature by 80° C with standard design, by 130°C with H6 option, by 230°C with H6+H7 option.

For the explosion proof version, liquid and ambient T° must be in accordance with explosion proof certificate.

MA*= Used with switches actuated by magnet (see page 3) CP*= Used with switches actuated by magnetic stainless steel piston (see page 3) Interface level measures on request.

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CHARACTERISTICS AND CHOICE OF CONNECTION ACCORDING TO THE TYPE OF CONSTRUCTION

ANV-T TOP MOUNTING

Carbone steel version									
CODE	PN*	DN							
CO	*	80 (3")							
C1	*	100 (4")							
C2	*	150 (6")							

Stainless	Stainless steel version 304 L								
CODE	PN*	DN							
C3	*	80 (3")							
C4	*	100 (4")							
C5	*	150 (6")							

Stainles	s steel versio	n 316L
CODE	PN*	DN
C6	*	80 (3")
27	+	400 (4")

ANV – CM With Mechanically Machined Welded Chamber DN 80 (3") (Side-bottom = CF, Side-side = CC, Drain = P)

CODE	TYPE OF	CONNECTION	NOTES
	CONNECTION	DRAWINGS	
CF0	Socket Weld 1"		
CF1	Tapped ¹ / ₂ " or ³ / ₄ " NPT-F		
CF2	Tapped ¹ / ₂ " or ³ / ₄ " BSPP-F	nini 150	
CF2	Threaded tube 1"		- Body and Head DN80 PN standard 20, 50, 100
	(L<=150mm)		- Connections : please precise:
CF4	Flange ISO PNDN15		The dimension of connections ABCE
CF5	Flange ISO PNDN20		• The dimension PNDN
CF6	Flange ISO PNDN25		
Cf7	Flange ISO PNDN40	B	- Mini 150*: depending on PN/DN flange, float type, switching level
CF8	Flange ISO PNDN50	A and B as standard construction	will be defined by Technical Dept
CF9	RTJ gasket facing	and on request	- Chamber material: Carbon steel. Fittings A105 or equivalent,
CFX	Special on request		flange BF48N, tube P265GH (standard or other on request)
CC0	Socket Weld 1"		Chamber material: Stainless steel 3161 Flanges, fittings, tube
CCI	Tapped ¹ / ₂ " or ³ / ₄ " NPT-F	nini 150	cap 316L (standardised components other on request) 304L in
CC2	Tapped ¹ / ₂ or ³ / ₄ BSPP-F		ontion
CC3	I hreaded tube $1^{\prime\prime}$		option
004	(L<=150mm)	E.	- Standard head Gasket: Klingersil C4430 or according to service
CC4 CC5	Flange ISO PNDN15		conditions.
	Flange ISO PNDN20		- Studs and Nuts : as standard carbon steel (B7-2H), stainless steel in
CC7	Flange ISO PN DN40	Ŧ.	option
CC8	Flange ISO PN DN50	E and B as standard construction	W. C. C.
CC9	RTJ gasket facing	and on request	- various options see page 8
CCX	Special on request	*	
PO	Socket Weld 1"		PN EN1092 16 20 40 50 100
P1	Tapped ¹ / ₂ " or ³ / ₄ " NPT-F		NP ANSI B16-5 150# 300# 600#
P2	Tapped ¹ / ₂ " or ³ / ₄ " BSPP-F		DN EN1092 15 20 25 40 50 80 100
P3	Threaded tube 1"		ND ANSI B16-5 1/2" 3/4" 1" 1 1/2" 2" 3" 4"
	(L<=150mm)		
P4	Flange ISO PNDN15		
P5	Flange ISO PNDN20		
P6	Flange ISO PNDN25	Li	
P7	Flange ISO PNDN40		
P8	Flange ISO PNDN50	C and B as standard construction	
P9	RTJ gasket facing	and on request	
PX	Special on request		

Characteristics of Chamber Construction:

• Standard construction : connection welded by fillet welds, on request, full penetration weld (code Z2 see page 8)

• Pressure/temperature limit of chambers according to the normalised rating of the flanges.

• Design conditions for construction = Service (or design) value of customer.

• Hydrostatic test (at 20°C) = service (or design) pressure X 1.5 or X 1.2 following the max. pressure for float (see page 6)

• Calculation and verification of the resistance according to CODAP (on request see D3 page 8)

Pressure/temperature LIMITS (NFE 29005) for:

NOTA:

The maximum operating pressures are limited either by the float or the flange and chamber rating.

Make sure that the tank dimensions are compatible with the necessary measuring elements (see floats page 6)

• Precise the PN (standard 16, 20, 40, 50, 100)

On request : other PN or DN

On request : other materials

		CAI	RBON S	STEEL	FLAN	GES				S	TAINL	ESS ST	TEEL 3	16 L FL	ANGE	S	
PN/T°	20	50	100	150	200	250	300	350	PN/T°	20	50	100	150	200	250	300	350
16	16	16	16	15.7	15.2	14.4	12.8	11.2	16	13.5	12.9	11.8	10.8	9.7	9	8.4	8
20	19.6	19.2	17.7	15.8	14	12.1	10.2	8.4	20	15.9	15.3	13.2	12	11	10.2	9.7	8.4
40	40	40	40	39.2	38	36	32	28	40	33.8	32.4	29.5	27	24.4	22.6	21	20.1
50	51.1	50.1	46.4	45.2	43.8	41.7	38.7	37	50	41.4	40	34.5	31.2	28.7	26.7	25.2	24
100	102.1	100.2	92.8	90.5	87.6	83.4	77.5	73.9	100	82.7	79.9	69	62.5	57.4	53.4	50.5	48.1

Technical data Sheet 50466-609 October 2008

Magnetic Level Switches

CHOICE OF THE FLOAT OR MASS

Nota: th	e charac	cteristics mentioned here	eafter are v	er receiving the float or the mass, has harmonized characteristics.												
Min becific ravity	Max perat. essure	TYPE OF FLOAT	CODE	CODE Mini specific gravity Standard operating pressure (bar) according to max.							C.	Test pressure				
SI 50	Pr	OK MASS		acco	rding to	level	operating t	empe	rature	C°	(000)					20°C
TOP N		NG > 4"	1	ц	МА	CP	Tomn °C >>	20	50	100	150	200	250	200	250	
0.70	27		M3	<250	0.75	0.7	Standard	20	26	23	21	19	17.5	16	15	Test pres=Op.pres
à	à		Stainless	<500	0.9	1.75	Mayimum	27	21.5	20	25	22	21	10.5	10	X1.5 (<=40 bar) Test pres=Op.pres
0.85	33	X	material	<500	0.8	1.75	Maximum	33	31.5	28	25	23	21	19.5	18	X1.5 (<=40 bar)
0.05	bar	* \$909p0.5	316L	<1000	0.9	0.85										
WELD	ED CH/	AMBER 3"OR TOP M	OUNTIN	G				• •		100	1.00					
0.85	40		M0	H	MA	CP	Temp. °C >>	20	50	100	150	200	250	300	350	Test pres=Op.pres
à	à	Δ	steel	<230	0.9	0.85	Standard	40	30	34	38.	20	20	24	22	X1.5 (<=60 bar) Test pres=Op.pres
1	50	L	material 316L	<500	0.95	0.9	Maximum	50	47.5	42	5	35	32.5	30	28	X1.2 (<=60 bar)
1	bar	\$70x150ép1		<1000	1.05	I										
0.65	12	[]	2.64	н	MΔ	CP	Temn °C >>	20	50	100	150	200	250	300	350	
0.05	12	XI	N11 Stainless	<250	0.7	0.75	Standard	12	11.5	100	9	8.5	7.5	7	6	Test pres=Op.pres
à	à	<u> </u>	steel	<500	0.75	0.7	Maximum	15	14	12	11.5	10.5	9.5	9	8	Test pres=Op.pres
0.8	15		316L	<1000	0.85	0.7	Waxintani	15	11	12	11.0	10.0	7.5		0	X1.2 (<=18 bar)
0.0	bar	✓ ₱70×150ép0.5		<1000	0.05	0.8										
>0.6	155	<u> </u>	M5	Н	MA	СР	Temp.°C >>	20	50	100	150	200	250	300	350	
			Stainless	<1000	0.6	0.6	Standard	155	140	130	125	115	110	100	90	Test pres=Op.pres X1.5 (<=230 bar)
	à		steel material				Maximum	188	170	158	142	140	134	122	110	Test pres=Op.pres
	188	a70-1504-2	316L													X1.2 (~-230 bal)
> 0.45	bar	- Frexibept		ц	МА	CP	Tomn °C >>	20	50	100	150	200	250	200	250	
>0.45	150		M6 Stainless	<3000	0.45	0.45	Standard	150	143	126	116	105	97	88	83	Test pres=Op.pres
	à	\triangle	steel				Maximum	190	180	160	147	133	123	112	104	X1.5 (<=230 bar) Test pres=Op.pres
	190	E.	316L				Waxintani	170	100	100	117	155	125	112	101	X1.2 (<=230 bar)
	bar	\$60x2506p2.7														
0.9	16	× 1	M11	Н	MA	СР	Temp.°C >>	20	50	100	150	200	250	300	350	Test pres=On pres
à	à		Stainless steel	<12000		0.9	Standard	16	14.5	13.5	13	12	11	11	11	X1.5 (<=25 bar)
**	20		material 316L				Maximum	20	17.5	16.5	16	14.5	13.5	13.5	13.5	X1.2 (<=25 bar)
* *	20 bar	Ø76x66 ép2														
FLOAT	ING RO	DOF		1												
	0	M	M10	Н	MA	СР	Temp.°C>>	20	50	100	150	200	250	300	350	T pres=Op pres X1.5
	à		Stainless steel	<6000			Standard			INON I		4000	7d1			=T.pres of chamber
	400		material 316L				Maximum			Non li	imited t	111 400b	ar	I		=T.pres of chamber
	400 bar	< Ø80x30														
FLOAT	FOR 4	l" chamber or TOP	·	·			ı 									
in ific ity	ux aure C)	TYPE OF FLOAT	CODE				CHARA	CTE	RIS	FICS	3					
Image: Signal state Image: Signal state OR MASS CODE Mini specific gravity Standard operating pressure (bar) Image: Signal state According to flange or chamber CODE Mini specific gravity Standard operating pressure (bar)								r) acco	ording	to max	. opera	ting	Test pressure			
		[]	Мо	Н	MA		Temp.°C >>	20	50	100	150	200	250	300	350	20.0
			IVIð Stainless	<250	0.75		Standard	102	88	79	73	69	66	63	61	Test pres= 127 bar
>0.75	102	JJ-	steel	<500	0.78			I	1	<u> </u>	L	I	I		L	
		2Ø85x160	316													
			MO	Н	MA		Temp.°C >>	20	50	100	150	200	250	300	350	
		Ψ H	Stainless	<250	0.66		Standard	51	44	39	37	34.5	33	31.5	30	Test pres= 63 bar
>0.66	50	D	steel	<1000	0.7			I	1	1	I	I	l	1	L	
		Ø85x160	316		<u> </u>											
·				•												

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Magnetic Level Switch

ANV...R... Type



CONSTRUCTION VARIANTS ON REQUEST

Standard st.steel housing or lengthened (according the switches numbers)										
	 -St.steel housing for using with ANV switches -Chambers and floats connection and mounting type ANV. -Specific chamber on request. -K3 Earthquake models see specific notice. 									
ANH-C Type (housing and switches identical to ANV model)										
Standard housing	Explosion proof housing									
Chamber and float as customer specifications.	Chamber and float as customer specifications.									
ANH 410 Type										
Aluminium Standard housing St. Steel float P<30bar 20°C SG>0.5 Other on request	Aluminium Explosion proof housing St steel float P<30bar 20°C SG>0.5 Other on request									
Std flange connection or specific -1 or 2 reed switch SPDT EExiaIICT6	Std flange Or specific									

GENERAL CODIFICATION

ANV	Level Switch	(vertical	mounting	g)							
ANH	Level Switch	(horizor	ital mount	ing)							
·	Т	Standa	ard case-h	ousing, to	op mounting						
	TR	Top Mounting type R housing									
	TFX	Explo	Explosion proof case-housing, top mounting								
	CM	Welde	Velded chamber with standard case-housing								
	CMP	Wolde	Nelded chamber with standard case-housing								
	CIMIK	weiue	Welded chamber with type R Housing								
	CIMEX	welde	ed chambe	r with ex	plosion proof case	-nousing					
		CP	Construc	tion with	n piston emitter						
	1	MA	Construc	ction with	n magnetic emitter						
			AC	Carbon	steel model						
			SS	Stainle	ss steel model						
			I	***	Nominal connect	tion pressure: 1	6,20,40,50,100				
				1	C0 to C	Top mountir	ng				
					CF0 to CF	Side-bottom	mounting				
					CC0 to CC	Side-side mo	ounting				
					ı	P0 to P	Type of drain for	or welded chamb	ber		
						· ·	M0 to M	Float or mass	code		
							· <u> </u>	H0 to H	Code for options on case-hou	using	
								·	S0 to S Code for typ	be of switch	
										Code for varied options	
									20102	- Code	
										D0 to D documents	
	, L										
★	•		*	*	*	*	*	*	* *	▼	
		OVIC									
70	Stainless	steel bo	Its and n	uts (30/	or 316)]	
Z1	Spiral hea	d gaske	et	1004	0.010/						
Z2	Full penet	ration w	eld								
Z3 74	Welding w	Ith pene	etrating tu	steel we	elded chamber)						
Z5	Sand blas	ting SA	2.5 (for c	arbon st	teel chamber)						
Z6	Epoxy pai	nt steel	chamber	(cleanir	ng + primary epo	xy + epoxy fin	ish)				
Z7	Silicone p	aint T =	400°C (6	500°C fo	r peak) (cleaning	+ 1 layer of s	ilicon aluminium)			
DOC	UMENTS	OPT	IONS								
DO) Mate	rial certi	ficates 3.	1.B. (mu	ust be asked whe	en the order is	placed)				
D1	Nace	standa	rd certific	ate (cur	ve and annealing	diagram for o	carbon steel)				
D2	2 Weid 3 Calci	ing boo ilation r	k (weiding	g proced rding to	CODAP (machin	s qualification) mber)				
D4	A File a	ccordin	g to Fren	ch Pres	sure Vessel regu	lation					
D5	5 Tech	nical pa	ssport (a	ccording	to definition)						
D6	Dye p 7 10%	benetrai dve per	it test for	weids	lds by Third Part	v					
D7	A 20%	dye per	etrant tes	st for we	lds by Third Part	y Y					
D8	3 10 %	radiogr	aphy for	butt weld	ds	-					
D8	A 20%	radiogra	aphy for b	outt weld	S						
D1	0 Thick	ness te	st with ca	irtograph	าง						
D1	1 Docu	mentati	on on CD	ROM	·						
D1	2 G/A (Irawing		and the second se	udroullo toot (opplication 11					
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