

APLISENS®



**A -2000/AL , APR-2000/AL ,
APR-2200/AL , APR-2000G/AL ,
APR-2000Y/AL , APR-2200D/AL**

.406433.000-01



EAC



13871 26.11.2020 26.11.2025

03 04 1896 20

BY/112 11.01. 020 005 06217

25.11.2020 24.11.2025

-2000/AL , APR-2000/AL ,
APR-2200/AL , APR-2000G/AL , APR-2000Y/AL , APR-2000D/AL (

181 (

II ,

III 12.2.007.0.
- 72 .

- 72 .

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1.1
1.1.1 -
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:
- -2000/AL - (, -
-);
- APR-2000/AL -
(,);
- APR-2200/AL - , -
, ,
; ;
- APR-2000G/AL - ;
- APR-2000Y/AL - ;
- APR-2200D/AL -
0 5 4 20 , 0 20 ,
1.1.2 HART. ,
, -
1.1.3 . -
-
1.1.4 . -
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1.2

), ,
(1.
)
1

1	2	3	4	5
AP -2000/AL	-	0-130	±0,05 ±1,00*	200
	-	0-700***		1,4
		0-2500	():	5,0
		0-7000***	±0,05 ±1,00*	14
		0-10000***		45
		0-30000	100 % 30 % ;	45
	-	0-25	(2,5 - (x %)/20)	100
	-	0-100	30 %	200
		0-200	10 % ;	400
		0-700***	2	1,4
		0-2500	10 %	5,0
		0-7000***		14
		0-10000***	***:	45
		0-16000	±0,025 ±1,00*	45 30
		0-30000		45
		0-60000	():	120
		0-100000	±0,025 ±1,00*	120
		(-0,7)-0,7**		50
		(-2,5)-2,5	100 % 30 % ;	50
		;- (-1,5)-7,0	(2,5 - (x %)/20)	50
	- (-10)-10	30 %	100	
	- (-50)-50	10 % ;	200	
		2	400	
		10 %	1,4	
			5,0	
			14	
APR-2000/AL		0-7000		C, CH:
		0-1600	±0,075 ±1,00*	16, 25, 32, 41,3 ;
		0-250	:	2 -
		0-100	±0,075 ±1,00*	(-700)-700 ;
		0-25	100 %	20 -
		(-160)-1600	30 % ;	(-2,5)-2,5 ;
		(-160)-200	(2,5-(x %)/20)	
		(-50)-50		P:
		(-16)-16	30 % 10 % ;	4 ;
		(-10)-10	2	7
		(-0,5)-7,0	10 %	0-7,0
		(-2,5)-2,5		
	(-0,7)-0,7			

1				
1	2	3	4	5
APR-2200/AL		(-16)-16	$\pm 0,10$ $\pm 1,00^*$	4, 10, 16
		(-50)-50	:	
		(-160)-200	$\pm 0,10$ $\pm 1,00^*$ 100 %	
		(-160)-1600	30 % ; (2,5-(x %)/20) 30 % 10 % ; 2 10 %	
APR-2000G/ AL		0-2,5	$\pm 0,10$ $\pm 1,00^*$: $\pm 0,10$ $\pm 1,00^*$ 100 % 30 % ; $\pm 0,40$ $\pm 2,00^*$ 30 % 10 %	35
		(-0,25)-0,25	$\pm 0,16$ $\pm 1,00^*$: [(- min)/(. - min.)], - ; min - ; - min. -	35
		(-0,70)-0,70	$\pm 0,10$ $\pm 1,00^*$	100
(-2,5)-2,5	:			
(-10)-10	$\pm 0,10$ $\pm 1,00^*$ 100 % 30 % ; $\pm 0,40$ $\pm 2,00^*$ 30 % 10 %			

1				
1	2	3	4	5
APR-2000Y/AL	-	0-16	±0,20 ±2,00* : ±0,20 ±2,00* 100 % 30 % ; ±0,60 ±2,00* 30 % 10 %	4
		0-60	±0,16 ±2,00*	
		0-100	±0,16 ±2,00* : 100 % 30 % ; ±0,50 ±2,00* 30 % 10 %	
APR-2200D/AL	-	(-7,0)-0	±0,10 ±2,00* : ±0,10 ±2,00* 100 % 50 % ; (4-(x %)/10) 30 % 10 % ; ±0,30 ±2,00* 10 %	4,0
		(-7,0)-7,0		
		(-25)-0		
*— (%) : ±0,025; ±0,05; ±0,075; ±0,10; 0,15; ±0,16; ±0,20; ±0,25; ±0,30; ±0,32; ±0,40; ±0,50; ±0,60; ±0,80; ±1,00; ±1,50; ±1,60; ±2,00 **— (%) : ±0,10; ±0,15; ±0,16; ±0,20; ±0,25; ±0,30; ±0,32; ±0,40; ±0,50; ±0,60; ±0,80; ±1,00 — , ,				

1.2.2

10° ,

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2.

(2)

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-
10° .

1.2.3

{ 0,05 %.

1.2.4

, 0,5

2

	, %	, %	, %	, %
	±0,025	±0,025	±0,32	±0,32
	±0,05	±0,05	±0,40	±0,35
	±0,075	±0,075	±0,50	±0,45
	±0,10	±0,10	±0,60	±0,50
	±0,15	±0,15	±0,80	±0,70
	±0,16	±0,16	±1,00	±0,60
	±0,20	±0,20	±1,50	±0,75
	±0,25	±0,25	±1,60	±0,80
	±0,30	±0,30	±2,00	±1,00

1.2.5

25 [70 [.

1.2.5.1

15150

3.1

25 [70 [.

1.2.5.2

100 %

40 °

1.2.6

- () 40 [

- 120 [.

1.2.8

84,0 106,7

1

12997 (

52931).

-

2.7

3.

3

		, DC*	, ,
APC-2000/AL , APR-2000/AL , APR-2200/AL , APR-2000G/AL , APR-2000Y/AL , APR-2200D/AL	4 20 , 0 20 , 0 5 HART	12** 36	0,72
* - 24 .			
** 3 .			
R.			

AL

1.2.9

R,

$$R_{TM} \frac{U_{ZU}^*}{I_{akc}}$$

*

U

3 ,

U -

, ;

U -

I = 22,5

4 ' 20 ; 0 20 ;

I = 6,0

0 5

(HART) 240

.1

1100 ,

240 .

0 3 .
60 .

500 .

0,5 .

14254

-

1.2.14

:

-I 65

AL -PD (

);

-I 66

AL (

);

-I 67

;

-I 65, I 66, I 67

AL *

*

1.2.15

III

12.2.007.0.

-

1.2.16

1.2.17

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0,1 %

/1,0 .

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1.2.18

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1.2.19

1 .

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-

(50±1)

400 /
400 /

±0,1 %.

1.2.20

(

100):

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- 20

;

- 1

100 %.

1.2.21 1 50 . -

75 1.2.22 : -

APR-2200/AL /V - APC-2000/AL /V, APR-2000/AL /V, 52931), (V3 12997 (-

10 150 0,35 -

49,0 / ²); -

12997 (- 52931) (N2 -

10 55 0,35).

1.2.23 55 [70 ° .

1.2.24 10 % 95 % -

35 ° 1.2.25 : -

) F3 12997 (-

52931), « »; ,

) 11 , 1000±10, 300 / ², -

1.2.26 .

1.2.26.1 020, 30804.6.2:

1.2.26.1.1 3 80

1,0 IEC 61000-4-3 .

1.2.26.1.2 2 (), 3 -

() 30804.4.2 -

1.2.26.1.3 2

30804.4.4.

1.2.26.1.4 3 , -

IEC 61000-4-6.

1.2.26.1.5 4 IEC 61000-4-8

1.2.26.2 .

EN 55022.

1.2.27 () 10⁻⁶

12.1.004.

1.2.28 ,

1.2.29 , - 12 .

1.2.29.1 , -

1.2.30 , - 320000 .

1.2.31 LCD - 7 .

1.2.32 (

) : AL - 170 100 140.

1.2.33 () , 18.

1.2.34 , , -

1.2.35 AL -

1.2.36 -2000 - 0H17N14M2 (316L),

: Hastelloy - Hastelloy C276 (, GP

30 2, HS);

Au - G1/2 (0 7 ; 0 16 ;

0 30 ; 0 60 ; 0 100 ,

HS, Au/Hastelloy -

Hastelloy 276 G1/2 ();

—

1.2.36.1 PR-2000 - 0H17N14M2 (316L),

: 316L/Hastelloy - C CH: -

316L/ : Hastelloy C276 (

HS); C CH:

316L/Ta - C CH:

316L/ : (HS,

);

316L/Au - C CH:

316L/ 0 25 (HS);

Au/Hastelloy/Hastelloy - C CH

- Hastelloy C276/ Hastelloy 276 (-

HS);

Hastelloy/Hastelloy - C CH: Hastelloy C 276 (HS, -

Hastelloy/ - 41,3);

Hastelloy C276/ : (C CH:

41,3); HS,

C CH/

—
/

1.2.36.2

APR-2000G, APR-2200 – 0H17N14M2 (316L).

1.2.36.3

2000Y, APR-2200D – 0H17N14M2 (316L).

PR-

1.2.36.4

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ALW –
0H17N14M2 (316L).

1.2.37

PR-2000Y/AL , APR-2200D/AL –

33259.

1.2.38

(,
)

1.3

1.3.1

4.
4

		-	
.406433.____*	PC PR	1 .	-
.406433.____*	PC PR.	1 .	-
.406433.000-01	PC PR.	1	1 . , -
.144-2006	PR.	1	, / -
-		1 .	
-	HART/RS-232	1 .	
-	HART/USB	1 .	
-	« »	1 .	
*			

1.4

1.4.1

1.4.1.1

LCD

4 20 ()	0 5 0 20
()	-
BELL202	-
HART rev5,	-
,	-
	-
1.4.2	.
1.4.2.1	-
,	.
M20x1,5 ½ NPT ()	-
:	.
,	.
,	.
1.4.3	.
1.4.3.1	-
.	15°
,	,
.	.
LCD	-
.	-
1.4.4	.
1.4.4.1	-
.	.
,	,
,	-
(APR...	-
).	-
.1 - .6 .	-
APR-2000/AL	-
P C (.2)	-
.	-
APR-2000G/AL	-
(-
100 (35)	-

() -
 -
 6, 8, 10 ,
 .4.
 1.4.5
 1.4.5.1 **ALE**

Ip = (4-9, 4-20', 4-24),
 I = 4 .
 :
 ((4-20)
 «4-24 LOOP»);
 (0 ... 5 0 ... 20)
 (I = Ip - Io)

1.4.6
 1.4.6.1 , , -

APR-2000Y/AL , R-2200D/AL

1.4.7 -

1.5

1.5.1. , :
 - ;
 - ;
 - ;
 - ;
 - « » - « .
 !» ;
 - ;
 - ;
 - ;
 - ;

— ();
 — ;
 — ;
 — ;
 — 14254.

1.5.2

— ;
 — ;
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 — ;
 — ;
 — « », « » (—);
 — ;
 — .

1.5.3

— , 14192 ;
 — « », « ».

1.6

1.6.1

1.6.2

1.6.3

1.6.4

(). — (LDPE)
 ().
 ().
 ().
 10354, ()
 3-0 9.014.

2.1									
2.1.1									
2.1.2									
2.1.3	7.3	, 6.4.	181						
2.1.4									
18 2.1.5						II			
2.2									
2.2.1									
2.2.2									
2.2.3									
-									
-									
-									
-						(100	/)	
«	»								
2.2.4									



2.2.4.1

(),

.5

2.2.5.1



2.2.5.2

2.2.6

2.2.6.1

120 °C.

120 [C,

2.2.7

)

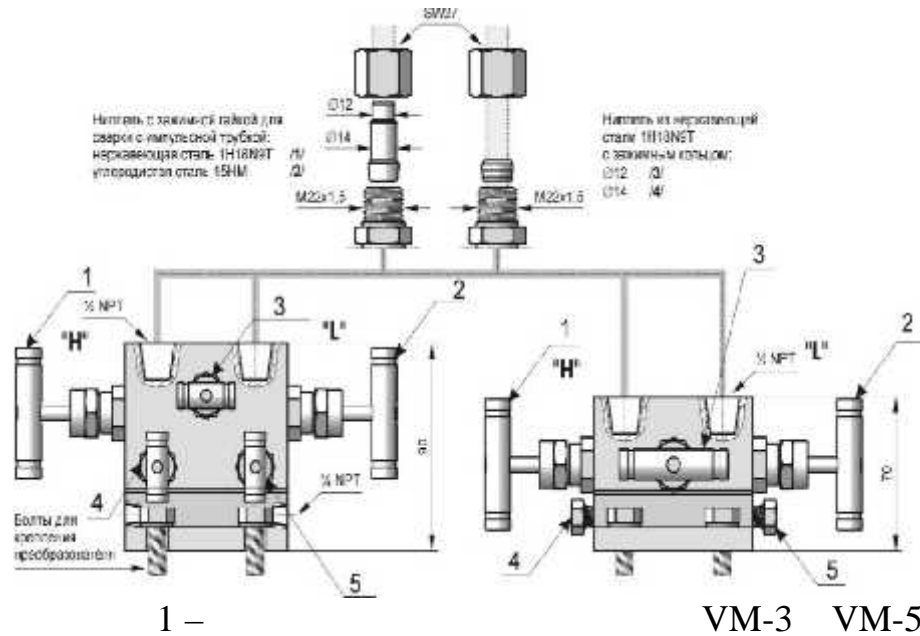
2.2.8

(00H17N14M2).

2.2.9

APR-2000Y/AL APR-2200D/AL .

			2l	VM-3	VM-5.	-
	2.2.16.1				VM-3 / VM-5	VM-3
/	2.2.16.1.1				:	
	VM-5 (1)	1 2		«H» «L»	-
,					;	-
				3,	1,5-2	-
,					;	-
					;	-
		1			« »,	
			1,5-2		2,	
			1,5-2		;	
						4, 5
(VM-3).				4		5;
						4, 5 (VM-5).
			4			
						-
5;						-
					(-
						;
				3,		-
						-



2.2.17	APR-2000G/AL	«	»	-
		Ø9	6, 8, 10	-
M20x1,5		M20x1,5		-
2.2.17.1	R-2000G/AL			-
VM-3 VM-5 ((.4),	«	».	-
VM-3 VM-5.				-
2.2.18	APR-2000Y/AL			-
	(.5).			-
2.2.19	APR-2200D/AL			-
2.2.19.1	(.6).			-
80				-
	APR-2200D/AL		S-WOL c	-
2.2.19.2				-
	« - »,			-
2.2.19.3		« - ».		-
		L		-

27
2.2.20
2.2.20.1
« ».

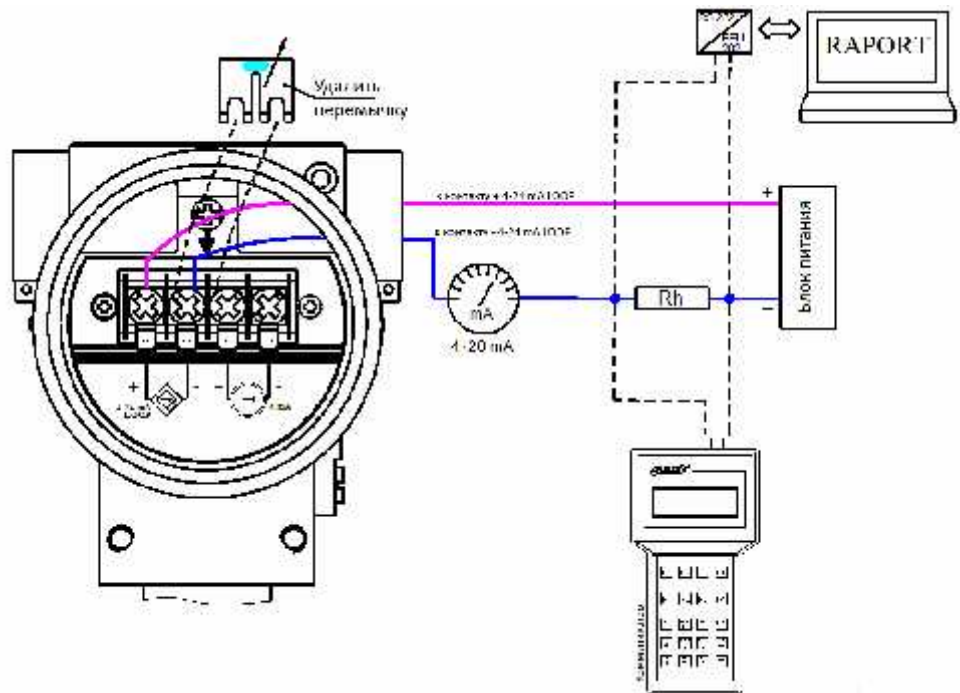
« »

2.2.20.2

() IP65, IP66, IP67.

2.2.20.3

2-3.

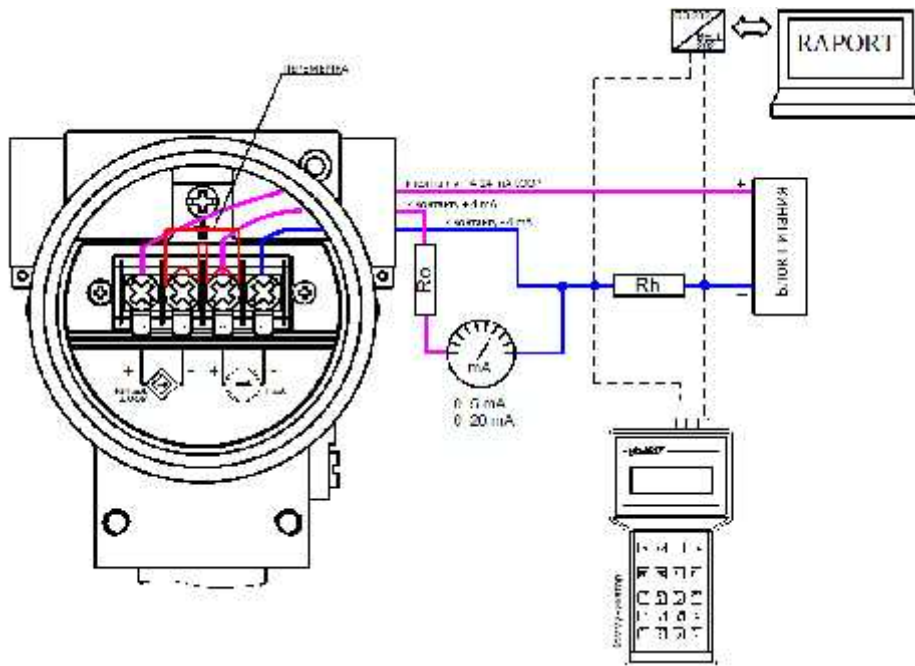


HART
Rh

240
Rh

2-

(4 20)



HART

Ro 500 Rh

Rh. 240 () ,

3 - (0 5 ; 0 20) -

2.2.22.1 -

2.2.22.2 () (6). -

() (6). -

UZ-2

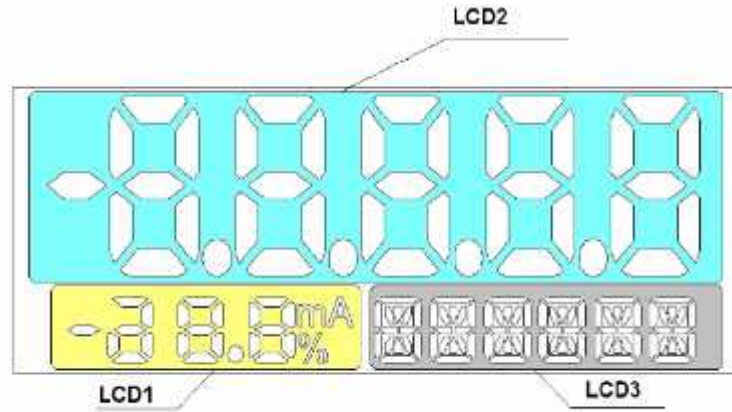
6 -

	()	/
1	2	3
PC... (PR...)/AL	39	230

2.2.22.3

2.2.23 LCD 2 3 6.

4.



4 – LCD

– LCD1 –

0,1 A,

4 20 A

– LCD2 –

1 %.

<<->.

– LCD3 –

– LCD –LCD
(.1).

2.2.23.1

AL

:

[], []
MENU,

[]

4 ,
LCD3

„EXIT”.

2

„DONE” , „ BACK”

2.2.24

2.2.25

2.2.1 – 2.2.24

2.2.26

2.2.27

« »,

!

2.3

2.3.1

2.3.1.1

2.3.1.2

()

180[.

« »

2.3.1.3

2.3.1.3.1

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,

-

2.3.1.3.2

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(

4 (0) , - 20 (5)
: 20 (5) 4 (0)).

1.2.1.

2.3.1.4

HART.

4 20 ().

2.3.1.5

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-

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- ;
- ;
- .

2.3.1.5, « -
».
2.3.1.6 , , -
, : , -
, (3 20), UCS, TSD, , -
, - , -
(,). , , :
- ;
- ;
- .

2.3.1.5, « -
».
2.3.1.7 « » -
, , -
, . -
, (-
- 2.3.1.8). -
: (. -
); -
- , HART; -
- HART/USB « HART/RS-232 -
. ” ” -
” 21- ”, -
2.3.1.9 I_SPAN -
: -
- 4 20 [4-20 mA];
- 0 -5 A [4-9 mA];
- 0 20 A [4-24 mA].
2.3.1.9.1 , -
HART . -
RAPORT HART/RS-232 -
HART/USB: -
- 0 5 A -
0 A 5 A;

- 0 A 20 A 0 20 A -

2.3.1.10

2.3.1.10.1

EXIT	[]	[]	[]
PVZERO	[] ←BACK PVZERO	[] ←BACK PVZERO	[]
SETLRV	[] ←BACK SETLRV	[] ←BACK SETLRV	[]
SETURV	[] ←BACK	[] ←BACK	[]
SETURV	SETURV		
UNIT	[] ←BACK INH2O INHG FTH2O MMH2O MMHG PSI AR MBAR GSQCM KGSQCM PA KPA TORR ATM MH2O4 MPA INH2O4 MMH2O4	[] ←BACK MMH2O4 INH2O4 MPA MH2O4 ATM TORR KPA PA KGSQCM GSQCM MBAR BAR PSI MMHG MMH2O FTH2O INHG INH2O	[]
DAMPIN	[] ←BACK 60 [S] 30 [S] 10 [S] 5 [S] 2 [S] 0 [S]	[] ←BACK 0 [S] 2 [S] 5 [S] 10 [S] 30 [S] 60 [S]	[]
TRANSF	[] ←BACK LINEAR SQRT SPECIA SQUARE	[] ←BACK SQUARE SPECIA SQRT LINEAR	[]
%SQRT	[] ←BACK 1.0 %	[] ←BACK 0.0 %	[]

	0.8 %	0.2 %
	0.6 %	0.4 %
	0.4 %	0.6 %
	0.2 %	0.8 %
	0.0 %	1.0
LCD1VR	[][←BACK CURREN PERCEN]	[][←BACK PERCEN CURREN]
LCD2VR	[][←BACK PRESS USER SENS_T CPU_T]	[][←BACK CPU_T SENS_T USER PRESS]
LCD2DP	[][←BACK XXXXX● XXXX●X XXX●XX XX●XXX X●XXXX]	[][←BACK X●XXXX XX●XXX XXX●XX XXXX●X XXXXX●]
FACTOR	[][←BACK RECALL]	[][←BACK RECALL]
RESET	[][←BACK RESET]	[][←BACK RESET]
MID_WP	[][←BACK ON OFF]	[][←BACK OFF ON]
I_SPAN	[][←BACK 4-9MA 4-20MA 4-24MA]	[][←BACK 4-24MA 4-20MA 4-9MA]

2.3.1.10.2

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: [ ] [ ] [ ] [ ] :
- [ ]
- [ ]
- [ ]
/
4 .
ERR_L16, ,
( . HART 132, 133).
4 LCD3
EXIT.
EXIT 1 .
, [ ].
[ ] [ ]
PVZERO__ [ ].
[ ] [ ]
←BACK [ ]
PVZERO [ ]
[ ] LCD3
SETLRV__ „DONE”
(LRV) – [ ].
[ ] [ ]
←BACK [ ]
BYPRES LRV
LCD3 “DONE”
BYVALU LRV
„UNIT”
LCD2 [ ].
LRV.
[ ]
+/- )
00000 [ ] [ ]
5
[ ] [ ]
[ ]
LCD3 [ ]
„DONE”
UNIT__

```

[] []
 []
 []
 []

←BACK
 IN_H2O
 IN_HG
 FT_H2O
 MM_H2O
 MM_HG
 PSI
 BAR
 MBAR
 G/SQCM
 KG/SQCM
 PA
 KPA
 TORR
 ATM
 M_H2O
 MPA
 INH2O@4
 MMH2O@4
 DAMPIN__

[]
 [] []
 []

4 .
 „DONE”.

[]
 [] []
 []

←BACK
 0 [S]
 2 [S]
 5 [S]
 10 [S]
 30 [S]
 60 [S]
 TRANSF__

[]
 [] []
 []

4 .
 „DONE”.

[]
 [] []
 []

←BACK
 LINEAR ()
 SQRT ()
 SPECIA ()
 SQUARE ()

4 ,
 „DONE”.

% SQR__ %

[]
 []

←BACK
 0.0 %
 0.2 %
 0.4 %
 0.6 %
 0.8 %
 1.0 %

4 .
 „DONE”.

LCD1VR__ , LCD1
←BACK []
 CURRENT LCD1
 PERCENT LCD1

	[]	4 .	'	
		„DONE“.		
LCD2VR__				LCD2
←BACK	[]			
PRESSUR		LCD2		
USER		LCD2		
SENS_T		LCD2		
		[c.		
CPU_T		LCD2		
		[c.		
	[]	4 .	'	
		„DONE“.		
LCD2DP__				LCD2
←BACK	[]			
XXXXX,				
XXXX,X	[]	4 .		
XXX,XX		„DONE“.		
XX,XXX				
,XXXX				
		LCD2		
FACTORY__				
←BACK	[]			
RECALL				
		„DONE“)		
RESET__				
←BACK	[]			
RESET				
		„DONE“.		
MID_WP__				
←BACK	[]			
ON				
OFF				
	[]	4 .	'	
		„DONE“.		
I_SPAN__				(
ALE)	[]			
←BACK				
4-9MA		0-5 A		
4-20MA		4-20 A		
4-24MA		0-20 A		
	[]	4 .	'	
		„DONE“.		



!

50 %
„oVER” „uNDER”.

LCD2



HART [247].

„RAPORT”. KAP,

<i>INH20</i>	68°
<i>INHG</i>	68°
<i>FTH20</i>	68°
<i>MMH20</i>	68°
<i>MMHG</i>	0°
<i>PSI</i>	-
<i>BAR</i>	
<i>MBAR</i>	
<i>GSQCM</i>	
<i>KGSQCM</i>	
<i>PA</i>	
<i>KPA</i>	
<i>TORR</i>	
<i>ATM</i>	
<i>MH204</i>	+4 °C
<i>MPA</i>	
<i>INH204</i>	+4 °C
<i>MMH204</i>	+4 °C

2.3.1.10.3

LCD2

ERR_L07 [in_write_protected_mode].

EDDL.

ERR_L09 [applied_process_too_high].
() -

ERR_L10 [applied_process_too_low].
() -

ERR_L14 [span_too_small]. -

ERR_L16 [access_restricted]. ,
-

EDDL.
!

EER_L16 « »
() -

WNG_L14 [new Lower Range Value Pushed]. ,
(URV) (LRV) -

! SET URV, UNIT, LCD2DP, FACTORY, RESET, -
MENU, -

2.3.1.11 -
-

HART- , (- :
) , EEPROM, , DS33 (-
) .

: 22 () 3,6 A () , 3,6
22 « ».
50 % -
-

E0256.
2.3.1.12 -

KAP
«RAPORT» HART/RS232.
2.3.1.13 APR-2200/AL -

2.3.1.13.1 ,
X .

$$X_{\dots} - X_{\dots} \frac{[/ c^3]}{4[C[/ c^3]}$$

$$X_{\dots} \cdot X_{\dots} \frac{[/ c^3]}{4[C[/ c^3]}$$

X 4 °C 1 / 3, / 3. 2 , -

X . 2 -
 , -
 , -

2.3.1.13.2

X . APR-2200/AL -

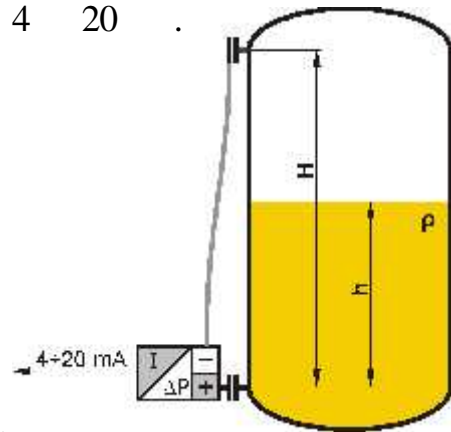
(5):

$$= 0,87 / c^3 \quad 0 \quad h_{\max}$$

4 20 .

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$$0 \quad h [] \quad h_{\max} = 0,87 / c^3$$



5

HART

; KAP

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$$(N_2 \times h_{\min} [\text{°C}])$$

$$X \times h_{\max} [], : 0 \quad h_{\max} \times 0,87 [],$$

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$$P_{\min} [\text{H}_2\text{O}] = -H [\text{mm}] \times X$$

$$P_{\max} [\text{H}_2\text{O}] = h_{\max} [\text{mm}] \times X - H [\text{mm}] \times X$$

DC-550	1,068 /c ³
AK-20	0,945 /c ³

2.3.1.13.3 (6) APR-2200/AL -

$$X_{\min} = 0,6 [\text{c}^3] \quad X_{\max} = 1,2 [\text{c}^3]$$

$$= 3000 \times 0,6 [\text{c}^3] = 1800$$

$$= 3000 \times 1,2 [\text{c}^3] = 3600$$

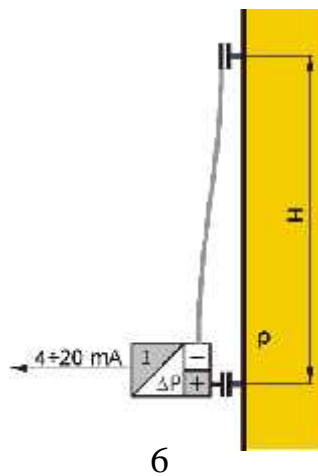
$$= 3000 \times 1,068 [\text{c}^3] = 3204$$

DC-550

$$= 3000 \times 0,6 [\text{c}^3] = 1800$$

$$= 3000 \times 1,2 [\text{c}^3] = 3600$$

$$= 3000 \times 1,068 [\text{c}^3] = 3204$$



$$P_{\min} = H_{[\text{mm}]} \times (X_{\min} - X_{\text{zero}})$$

$$= 3000 \times (0,6 - 1,068) = -1404 [\text{H}_2\text{O}];$$

$$P_{\max} = H_{[\text{mm}]} \times (X_{\max} - X_{\text{zero}})$$

$$= 3000 \times (1,2 - 1,068) = 396 [\text{H}_2\text{O}];$$

;

;

6 KAP,
 « » ("Reranging" procedure);
 « » ("Reranging");
 8 « » ("Reranging");
 H₂O 4 °C,
) P_{min} = -1404 P_{max} = 396

2.3.1.13.4 (7)

) APR-2200,
 0 1000
 $x_1 = 0,7 /c^3$ $x_2 = 1,0 /c^3$,
 H = 1600
 DC-550
 1,068 /c³.

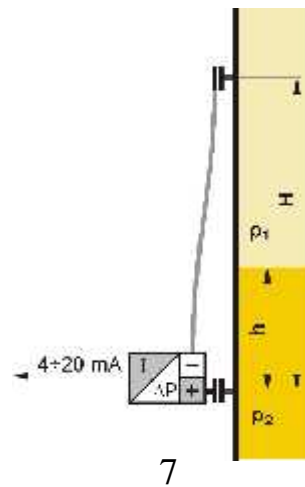
$$= 1600$$

$$0 \text{ h [] } 1000$$

$$x_1 = 0,7 /c^3$$

$$x_2 = 1,0 /c^3$$

$$= 1,068 /c^3$$



$$P_m$$

$$i$$

$$n$$

$$, H [] \times (X_1 - X_2) =$$

$$= 1600 [] \times (0,7 - 1,068) = -588,8 [\text{H}_2\text{O}]$$

$$-588,8 + (1,0 - 0,7) \times 1000 = -288,8 [\text{H}_2\text{O}]$$

$$a$$

$$x$$

$$P_{min} [\text{H}_2\text{O}] + (X_2 - X_1) \text{ h []} =$$

, , ()

min < (min; max). < max, H

$$H_{[]}^{TM} \frac{[H_2O]}{X \dots min Z X \dots}$$

$$H_{[mm]}^{TM} \frac{[H_2O]}{X \dots max Z X \dots}$$

)

APR-2200/(-10) - 10 a

0,6 1,2 /c³.

AK-20

0,945 /c³.

(-10) a = -1020 H₂O

$$H_{[]}^{TM} \frac{Z1020}{0,6 Z 0,945}$$

$$H_{[]}^{TM} \frac{Z1020}{Z0,345} H_{[]}^{TM2957}$$

10 a = 1020 H₂O

$$H_{[]}^{TM} \frac{1020}{1,2 Z 0,945}$$

$$H_{[]}^{TM} \frac{1020}{0,255} H_{[]}^{TM4000}$$

2957

2.3.1.14

APR-2000Y/AL

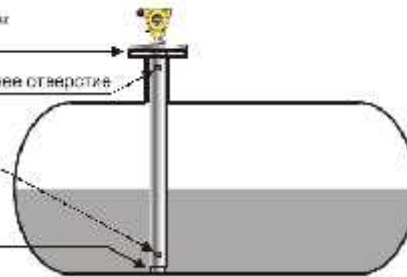
Пример установки прибора на резервуаре

Механический монтаж на фланце ёмкости

Уравнительное верхнее отверстие

Уравнительное нижнее отверстие

Комплект мембранного разделителя



2.3.1.14.1

APR-2000Y

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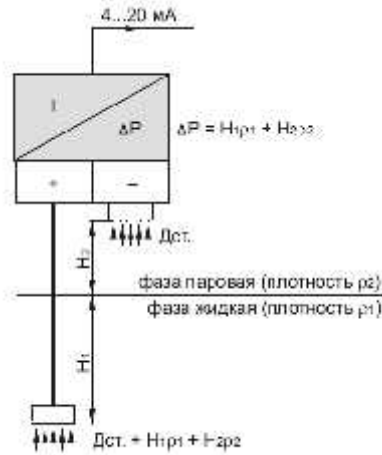
-

2.3.1.14.2

0,78

0 3200
1

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9

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20 (14 °):

$$3200 \cdot 0,87 / 3 = 2784$$

20.

3

-

20 4 ° .

4

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(, : -4250 20).

5

-4250 20

$$-4250 \cdot 20 + 2784 \cdot 20 = -1466 \cdot 20$$

6

(-4250 20)

(-1466 20)

-

2.3.1.15 APR-2200D
 2.3.1.15.1 :
 400 600 / 3 4 20 .
 (998,20 / 3 g = 9,807 / 2), 20 [-

85
 20 [. , -
 , , .
 (20), -
 , « » (« »)

1,16 / 3 (, -
 «PV» , « -
 » (, = - 6, 649). -

: = 0,000 , ∂ = 998,20 / 3
 : = -6, 649 , ∂ = 1,16 / 3
 ,
 ∂ = 400 / 3
 -
 (∂ - ∂) = $\frac{6,649}{997,04} (-598,2) = -3,989$

∂ = 600 / 3 ,
 -
 (∂ - ∂) = $\frac{6,649}{997,04} (-398,2) = -2,655$

(| | , -
 |) . | -

2.3.1.15.2 -
 (- 7) - 0 . -
 1) ∂:

$$= \partial gh,$$

g – , / ², . g = 9,815 / ²;
 h – ,
 0,68 .

$$\partial = 1000 / ³$$

$$= 6,674 .$$

2) $\partial = 1,16 / ³ (-)$.
 $= 0,007 .$

3) $= - 6,674$, $= 0$

), (| | -)

2.3.2
 2.3.2.1 – 72 . -

– 72 . -

2.3.2.2
 . 144-2006 « PC PR. -
 » (1 - 10). APR-2200D

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2.3.2.3.1
 APR-2200D

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3.1 : - (-); - (, -); - (, -); - « ».

3.2 , , , , . , (().). .

3.3
3.3.1
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4	-	2.3.1.10.3, 2.3.1.11

3.4.1

3.5.1

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c)

3.5.2

4

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3.6.1

-

PD:

3.7

4.1

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- : « »
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« - « »
,210004, . , . . , .42
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+7 702 629-07-98
e-mail: info@aplisens.kz; www.aplisens.kz

4.2

!

4.3

!

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5.1

5.2

5.3

5(

[, 70 [, 10 % 95 %
35 °) 15150.

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6.1									-
				3 (-
	:				50 [50 [,		-
		98 %	35 °)		15150.				-
6.2									-
					1 (-
	:				40 [5 [,		-
		80 %	25 °)		15150.				-
6.3.									-
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6.4									-
									-
7									-
7.1					()		-
									-
7.2									-
									-
7.3									-

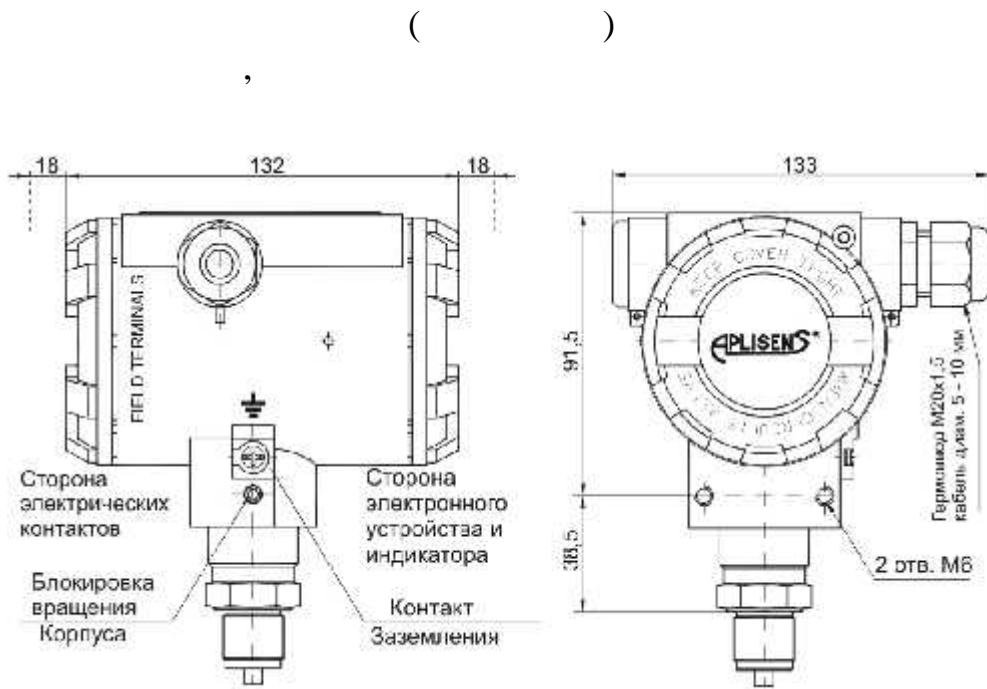
()

$\frac{_}{1} \frac{_}{2} \frac{_}{3} \frac{_}{4} - \frac{_}{5} \frac{_}{6} = \frac{_}{7} \frac{_}{8} \frac{_}{9} \frac{_}{10}$

390171150.001-2004*,

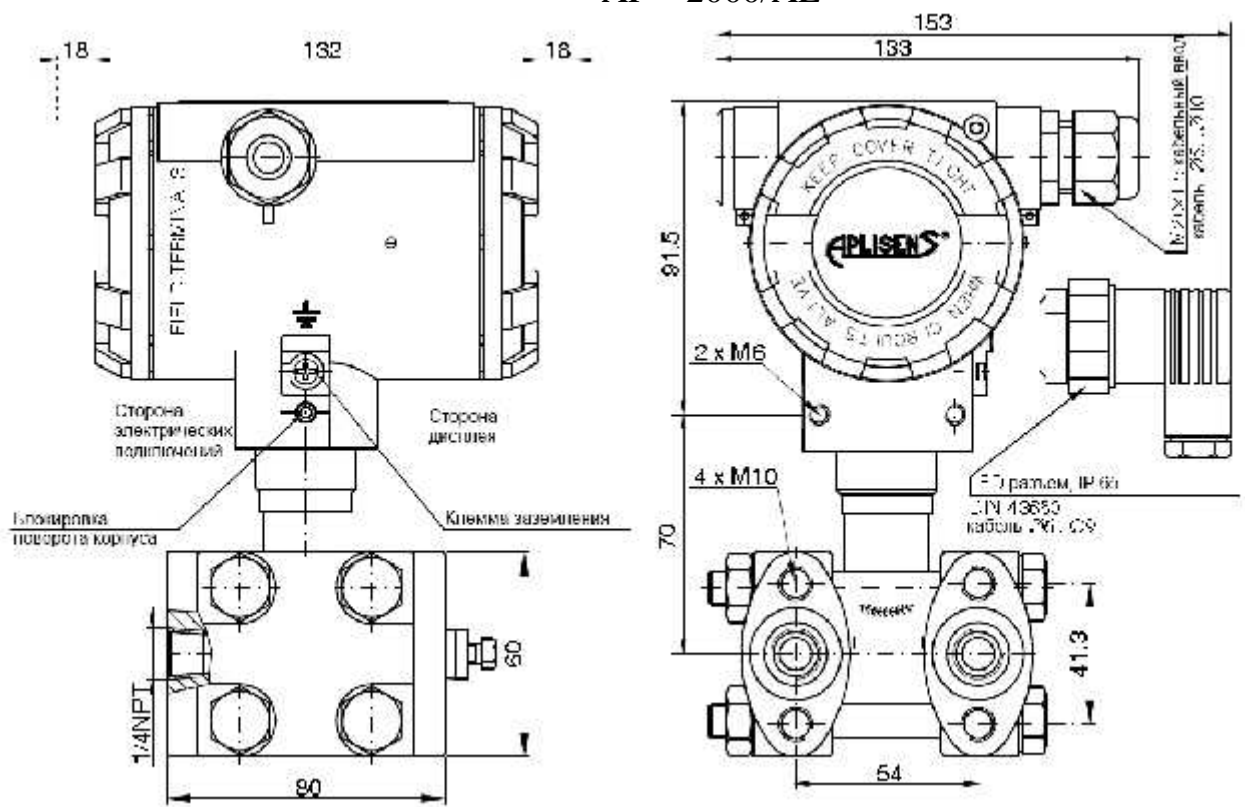
1
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-3).
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10 :
BY, KZ, RU, AZ, UZ . ().

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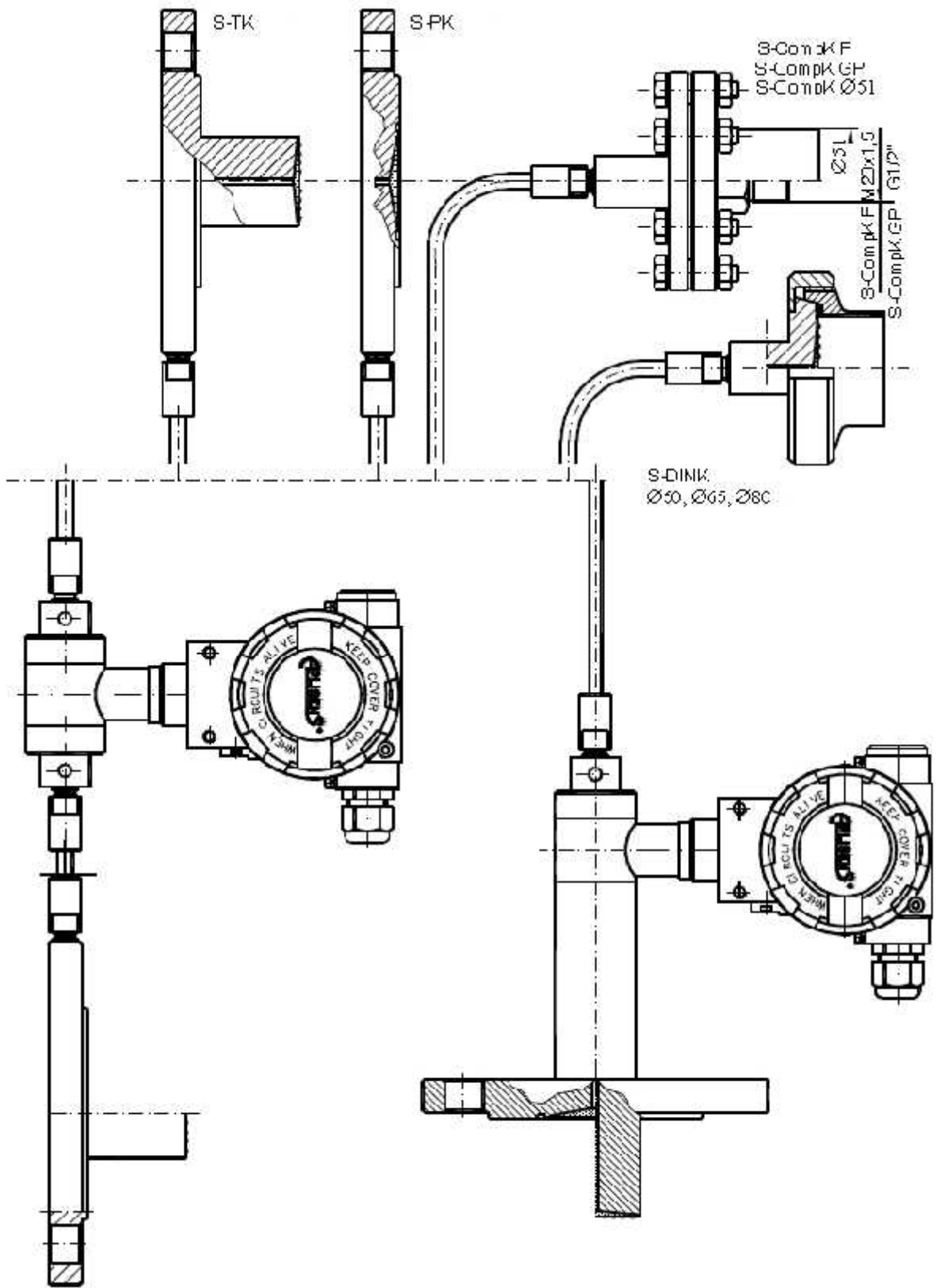
.1-

AP -2000/AL



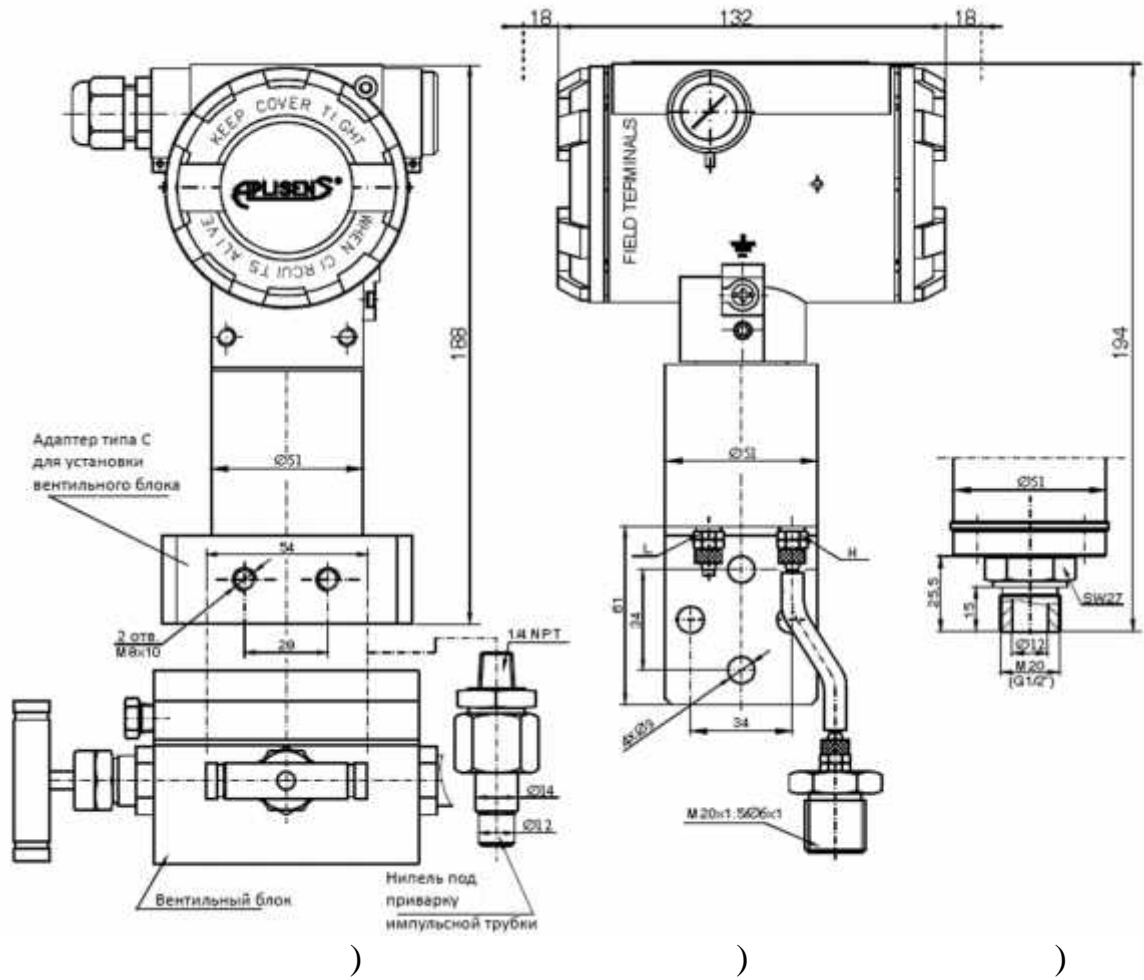
.2-

APR-2000/AL



.3 -

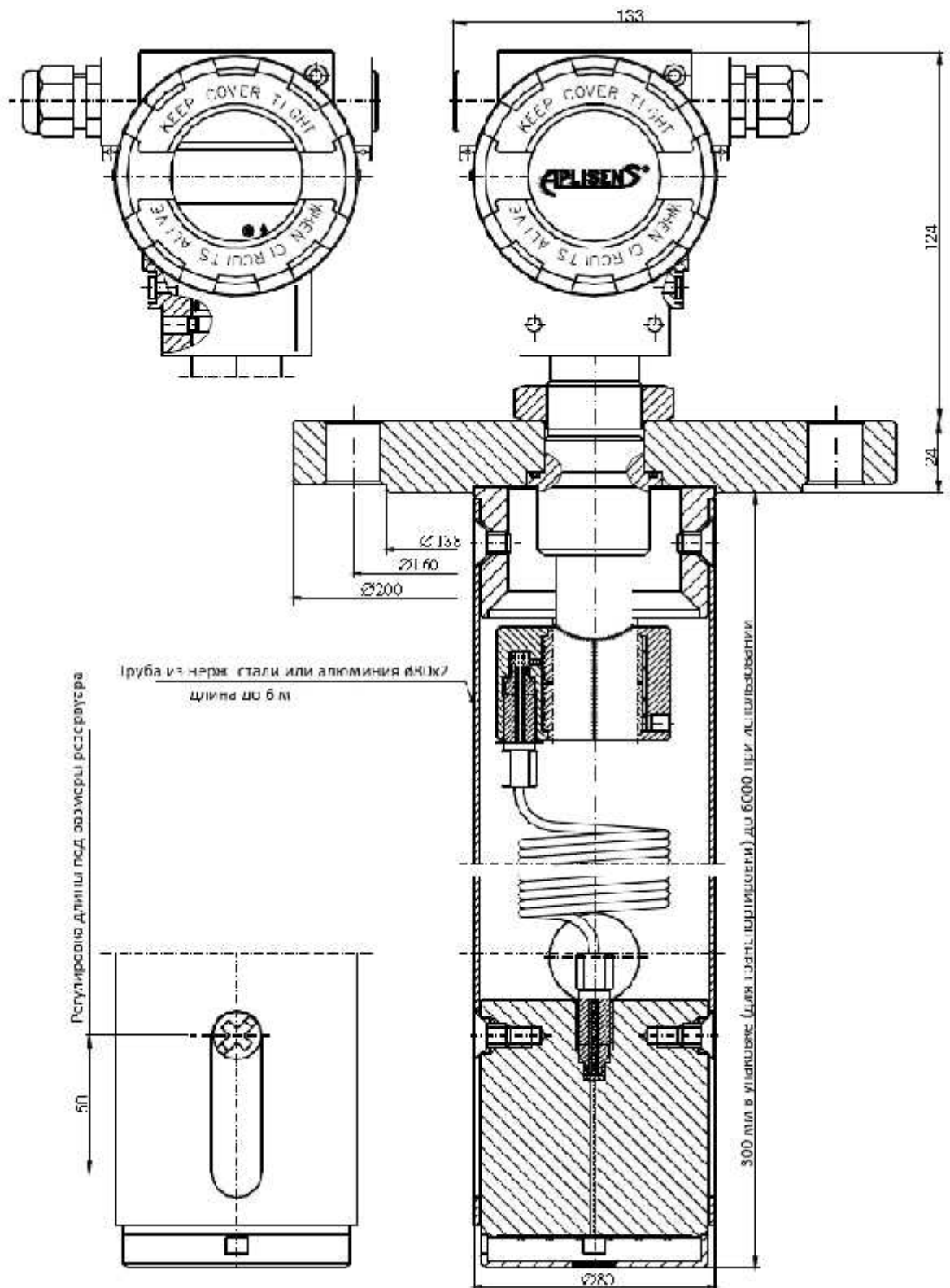
APR-2200/AL



- a) C;
-) PCV;
-) GP P;

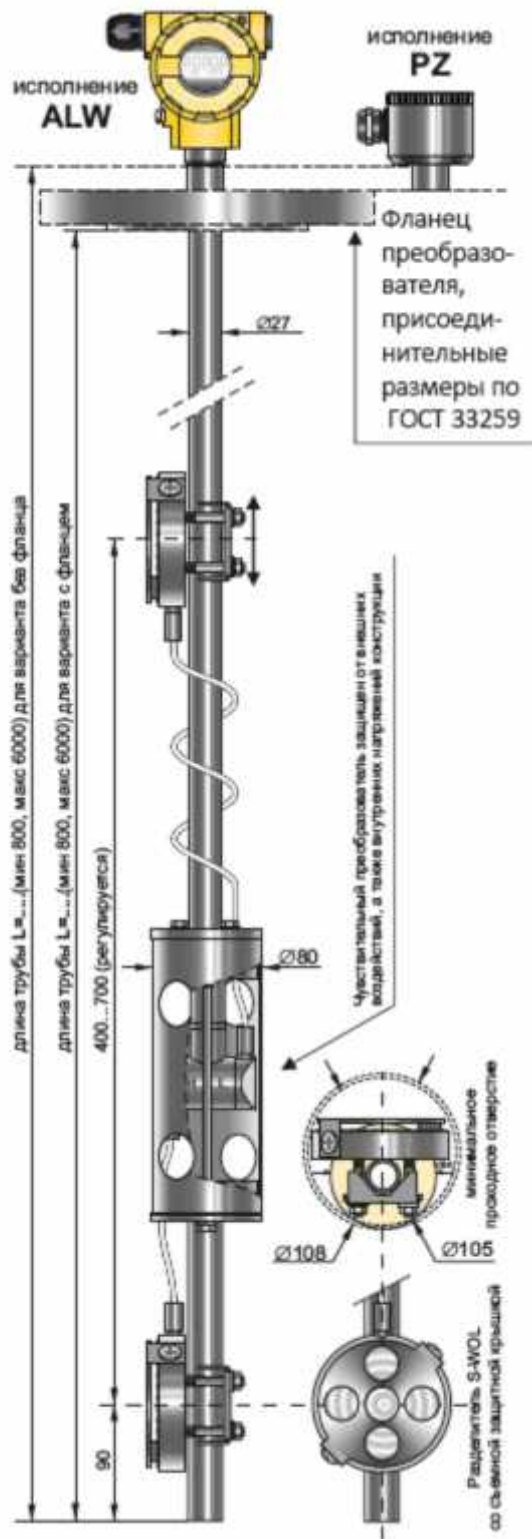
.4 -

APR-2000G/AL



.5 -

APR-2000Y/AL



.6 -

APR-2200D/AL

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SW27 SW32 .

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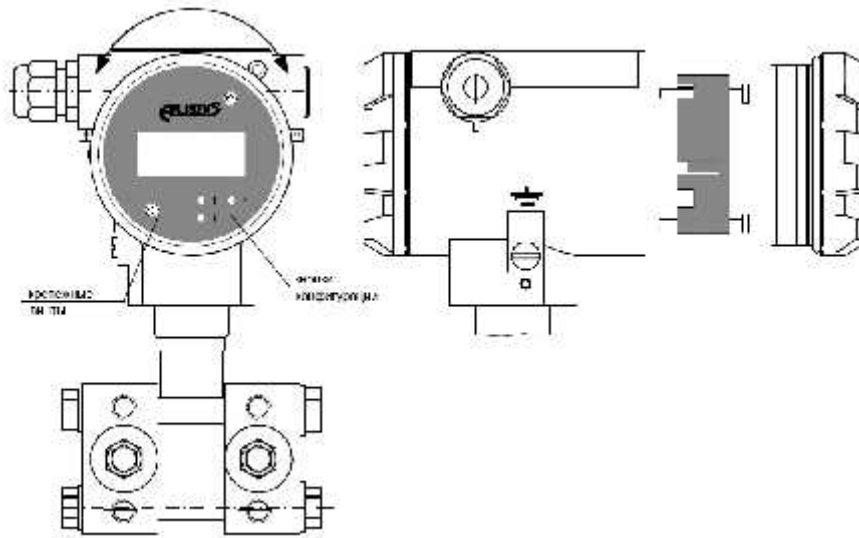
.1 -

1	2
VM- /___	VM- BY 390317133.002
VM-1/___	VM-1 BY 390317133.002
VM-2/___	VM-2 BY 390317133.002
VM-2-R/___	VM-2-R BY 390317133.002
VM-3/___	VM-3 BY 390317133.002
VM-5/___	VM-5 BY 390317133.002
A	10 P 25
A12.9	10 P 40
	7/16" 1"
	7/16" 21/4"
U	3
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
-___	BY 390317133.004
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-___	BY 390317133.004
-___	BY 390317133.004
30 2	30 2
G1/2	G1/2"
G1	G1"
—	,
DIN 40 (DIN 50, Clamp1", Clamp1,5", Clamp2")	30 2 -
S (S)	(S - , S -)
S (S)	(S - , S -)
	-
AL	AL
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-2	2"

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-3		-
25	25	
TR	TR	
(AL), L = _____	APR-2000Y	-
27, L = (100 - 6000)	27	-
	APR-2200D	100 6000 -
_____, L = _____	(APR-2000G	, .) -
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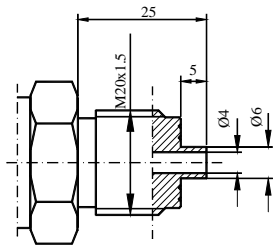
/ , , , 15 (345)



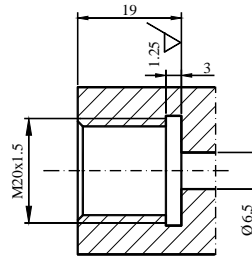
Если переключатель установлен (как на фото) то подсветка дисплея выключена, если переключатель установлен на другое положение переключателя подсветка дисплея включена.

.1 -

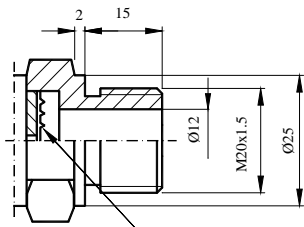
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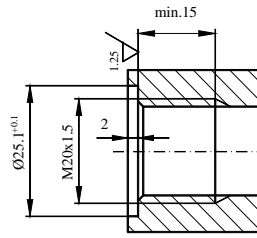
.1 -
20 1,5



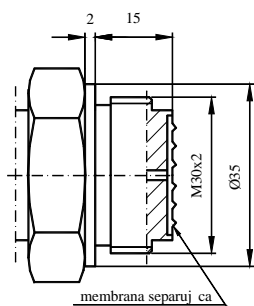
.1 -
20 1,5



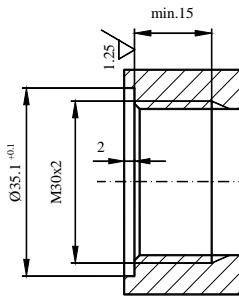
.2 -
20 1,5



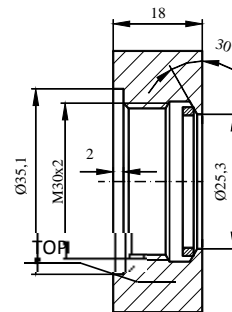
.2 -
20 1,5



.3 -
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.3 -
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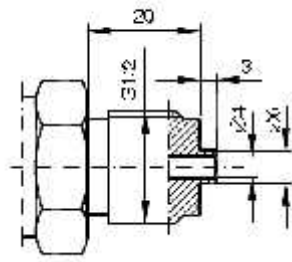


.3 -
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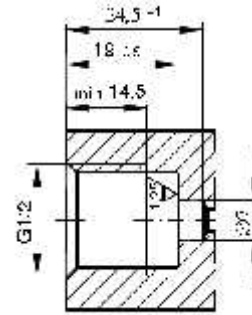
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.3

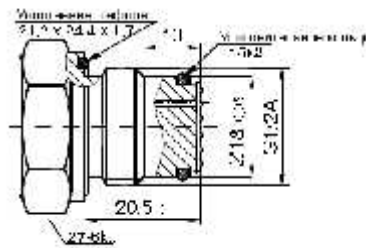
«TOP»



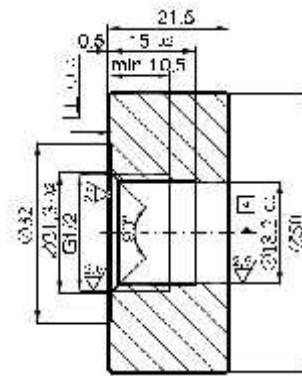
.4
«G1/2»,
G1/2''



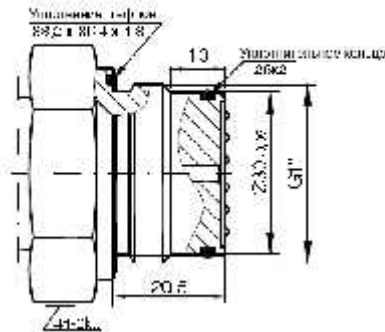
.4
«G1/2»



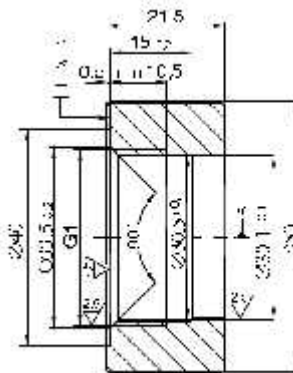
.5
«G1/2»,
G1/2''



.5
«G1/2»



.6
«G1»,
G1''



.6
«G1»

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