

	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		1	11

	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		2	11

1

ZF11C-252(L)/T4000-50 U V W Ø X Y ZF11C-252 U GIS Z

2

2.1 [\]

ZF11C-252 U GIS ^ > _ ` a b c d e f g h i j k l ' ZF11C-252 U GIS m ` 2 n o ` 2 " # p q r " # 2 s SF<sub>6</sub> t 7 u v w ZF11C-252 U GIS x y z { | } ~ • ! " r ~ • # \$ ! % & ' { i & ' { ()\*+, { - ./0 l 01 ( 2 ~345 7 6 7 89 : : ` 0 2 s [; \<= ` 0 > ZF11C-252 U GIS ?@ v /A B <% 50 Hz i C : [; { DEF i G 252 kV H?I J ^K i : : i {7 \1 [; ) L A SF<sub>6</sub> MN OP QROPS : :T WU U) VWC : ?I ;XY PY Z[ % \ = P] ~ • 0 z ! ^ \_ ` 7

2.2 ab m

c 1-1 m

de	f Y		g }	p q h
1	i			@ v /@A
2	jkX lm	n l		+ 40
		no l		- 30
		npqlr	K	25
3	st		m	2 000

	ZF11C-252(L)/T4000-50		OPG.412.983-1	
			3	11

c 1-1Vu Z m			
de	f Y		g } p q h
4	vwxyzm		w/m ² 1 000
5	{| 7 }		!
6	~• m		mm 10
7	! \$		m/s 34
8	" m	qB " m # h	% 95
		\$ B " m # h	
9	! %& m V h ' \$m Z		m/s ² AG5
10	>D `(z ;))* 4 (z ' + , i - h		kV 1.6
11	i +. / O 0&12 34 3567) 89: ;<		

3

GB/T 191-2008	=>?@AB
GB 311.1-2012	C; L 6 D F E FG HG
GB/T 775.2-2003	IJK L 2 6 D JK L
GB/T 20840.1-2010	&' { 1 6 D r " # 2 s
GB/T 20840.3-2013	&' { 3 6 D M> i&' { N " # 2 s
GB/T 20840.2-2014	&' { 2 6 D %&' { N " # 2 s
GB 1984-2014	i <% y z {
GB 1985-2014	i <% ~ • !
GB/T 3222.1-2006	O8 ab PO Q _` RST
	1 6 D 6 p` RST L

	ZF11C-252(L) / T4000-50	OPG.412.983-1
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	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		5	11

4

- 4.1 y z { G q > rs g y k C B tu 2U 4v y z { w n g x2 _P
>QR y 3 4 z U { z % y PHz ,EF { z y %}} 50 kA
- 4.2 UV 8 ~ O y z { UV• 1oD 10000! | } ~ • ! " r ~
• # \$! UV• 1oD 10000! e " 2 ~ # \$
- 4.3 | } ~ • ! " r ~ • # \$! s) L % & ' h y v (
) C 2U 4 2tuU 4 v 6 3 4w xf 3 4 * 2 + ,
- 4.4 h - st m 2000m W 0! . JK p q # G Ag 2 s
n /
- 4.5 EF bc) d i Ho 0 y z { y EF bc) d i HG 0.6MPa A 1
y EF bc) d i H # G 0.4MPa 234 D 56 78 l y
9 X
- 4.6 y z { C _ ` a b U U) tuU 4 , F

5

: r 6 " # p q ; c 1-2, <7 " # p q) <

k l

c 1-2 GIS r " # p q

de	= f Y		g }	p q h
1	EF i		kV	252
2	EF >?		Hz	50
3	EF %	@/0	A	4 000
		`/0		3 150/4 000/5 000
4	EF { A | >BC i V1 min D h Z VB ! Z		kV	460
5	EF, EFBC i V G 1.2/50H s l h Z VB ! Z		kV	1 050

	ZF11C-252(L)/T4000-50		OPG.412.983-1	
			6	11

c 1-2Vu Z GIS r " # p q

6	EF { ABC %			kA	50		
7	EF { zJ u A 2			s	3		
8	EF I h BC %			kA	125		
9	)* 4 (z{ A |>BC i			kV	2		
10	. 0 ij i			! V	500		
11	PO h			dB	110		
12	SF6 i H V20K c i Z		y z {y	MPa	EFh		0.6
					N i H"		0.52#0.015
					n o z P i H"		0.50#0.015
			EFh		0.4		
			N i H"		0.35#0.015		
			no z P i H"		0.33#0.015		
13	L% ~y SF6 M ?			%/N	0.3		
14	SF6 " m	y z { y	< K O h	10^6	P 150		
			> QR h		P 300		
		J y	< K O h		P 250		
			> QR h		P 500		
15	W 6 X		S ' i	kV	460 V 1 min Z		
			JK i		1.2´ 252√3		
			L% ~y	pC	P 5		
			L g %		P 3		
			1 (		P 5		
16	T U		4 (z	V	DC 220		

)*(z v

AC 220 DC 220
B .
B .

	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		7	11

c 1-2Vu Z GIS r " # p q

18	A W " # p q	y z { X W	Y i H	MPa	0.80
			Z JK i H V5 minZ	MPa	1.05
			[\ JK i H	MPa	] 1.84
		J7 X W	Y i H	MPa	0.60
			Z JK i H V5 minZ	MPa	0.78
			[\ JK i H	MPa	] 1.38
		J7 ^ 9 W	Y i H	MPa	0.60
			Z JK i H V10 minZ	MPa	1.20
			[\ JK i H	MPa	] 2.1
		D Z JK BJ WEF i H (c i 20K) SF ₆ e M M? + U 0.5Pa.cm ³ /s			
19	A W_ ^ 7 }			IP4XW	
20	•		N	] 30	
21	e " j #		N	] 20	
D ` c @ ) i H 0 aA _ ` b c @) i H cA _ `					

	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		8	11

1 SF₆

SF₆ + d ;c 1-3 2 s e i { f SF6 f g ^
hf 7 ` + d ;c 1-4 2 s
 c 1-3 SF₆ 7 ` Ag

=	i A
bc) d (SF ₆) % (m/m)	] 99.9
X % (m/m)	P 0.05
j c) k (CF ₄) % (m/m)	P 0.05
l m (W HF Y) ppm(7 ` q)	P 0.3
8 h c) 6 (W HF Y) ppm(7 ` q)	P 1.0
m6 n ppm(7 ` q)	P 10
h (H ₂ O) 10 ⁶ (V/V)	P 8
o O	p 6JK. o

c 1-4 hf 7 ` Ag	
=	i A
h m % (V/V)	] 99.9

	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		9	11

2 SF₆

2.1 L ^HI

h SF₆ L ^ SF₆ 9xyp 7 `; z SF₆ ^ . o R {A . | n}
^ ~• !)y v | " 2 r! N#\$
C%X R SF₆ & p 6 6 ' 6 1 ! () *
S+ \$,- -p ./ 2 ' 6 0 12 31 (456 } h & \G78 .
67))9 6 { : SF₆ ab | A ; | w< W 0 6 ~• _ ^
2.1.1 " 2L { } = z &>? O * @ { : SF₆ \$; | - A =
4B%C {R D L E _o u c W ^ FDG ?I

2.1.2 HIJ K I L S W+ MR SF₆ N { : J ^ LK ")R9
{ : SF₆ {A OHI J
2.1.3 2 % \$ P p + MDQ45 R 4B DS | B+ : ' TUV)
| A 2 1 W 6 n) ^XY {2 'Z[) | A \I X^ W+ M_ A F
_ XY {2 'Z[

2.2 SF₆ t s
> %` L ^ 1a 2b " c )d' m 0a 2 e " )e " %` e g
2 SF₆ t h f * % R SF₆ ^ . o . / c % y B SF₆%^

	ZF11C-252(L)/T4000-50	OPG.412.983-1
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	ZF11C-252(L)/T4000-50	OPG.412.983-1	
		11	11

3.2.4 =Qf)2 6 | c H I f v L! = l | c 6 2 H
 &} J IK

3.2.5 | A L MN O k 2 A # L P 0 Q f)2 " |

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 1 -	. 27-

!

RSTUVW	.....
1 XY	.....
2 Z[N]	.....
3 ^_`a	.....
3.1 bcd^_	.....
3.2bcd=efgh	.....
3.3 ijk^_	.....
3.4 lmn_=efgh6op^_	 1
3.5qHrs	.....
4 bcd=tuRv	.....
4.1 wxyz	.....
4.2 bcd=Rv	.....
4.3 Rv{o	.....
4.4 |56\$}~•	.....
5 ! = SF ₆ %"# h	.....
6 bcd \$%& = '(	.....
6.1 y )	.....
6.2 *+,-	.....
6.3 *+. c\$ /	.....
6.4 yzbcdqH 0 c	.....
6.5 *+1 f 23 L 45	.....
6.6 n 67 f '(	.....
7 \$% 6 89	.....
7.1 89 Ly ;;<=>	.....
7.2 89 Ly :2 yzW ? = =>	 1
7.3 y : 0 @LTUVW	.....
7.4 A y6 89 = B"CD	.....
8 \$%qH 0 c EF	.....
9 tu G %0 @	.....
9.1 G %	.....
9.2 G %HI = JK	.....
9.3SF ₆ %" ` L	.....
10SF ₆ %" y) 0 @	.....
11 tu , -# h M*+	.....
11.1 , -# h	.....
11.2 , -*+NO	.....
12 3 SF ₆ %" L# PQ = R+ST	 2

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 2 -	. 27-

13 M SF₆% " • U2 =TUVW 2

13.1 VWXY 2

13.2SF₆% " = #Z 2

13.3 [+ = SF₆O) 2

14 K \]^ =bcd _ Ke B 6 `a 2

15 (b l1 cMdeNO 2

15.1 (b 2

15.2 1 c 2

15.3 de 2

16 fghi 0 j 2

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 3 -	. 27-

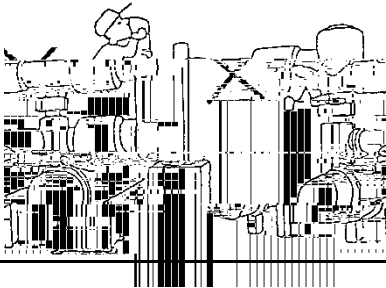
252kV%"klmnop w q`ar GIs t # H`a A\$ Huv #A tw RSJKA
`3TUVW x%EF QJK `ay&z{ }~• p EF Qp EF 8K !"#\$\$%&
y# 6 ()*+ y# Q

"#\$%&'

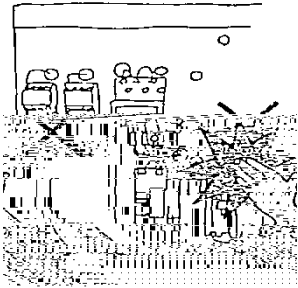
, tw RSJKAp EF - 6 *./- JK 01 K 23
&'3 456 . 7 A 89:;<=>? = &'@A Q
BC3 456 . 7 A DE89:;<=>? = &'@A Q
TU 3 456 . 7 A 8FGHI = JK<L A `a lv Z I
Mn! = N< A OP u Q

B C

, 6 S QR GIS
S T y : UV0W A 6 S QR GIS
DEFG # # XY Q

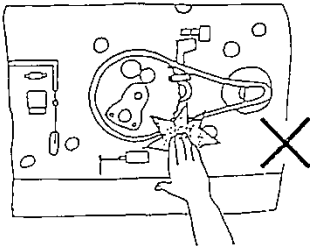


, 6 SU Z \$% 8= [H. cQ
DE\]^_ \$ ` I a U\$Q



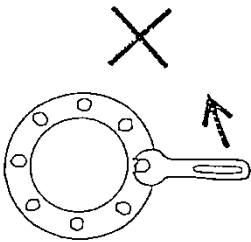
()

, 6 S bc= U Z ef8= \$ def Q
DE89:Jgh< Q

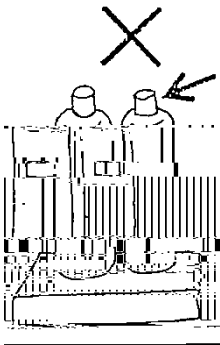


!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 4 -	. 27-

, 6 S i 1 %" j o# = kl u me 5Q
S 6 S i 1 ef8 n 5% " j o# = kl Q
oe = Hl 8 J i 1 = kl u me 5 p% A
9:Jgh< Q

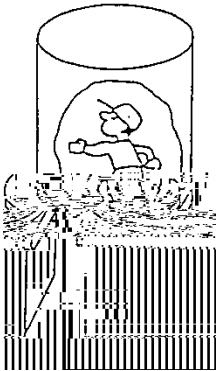


, 6 S q U i 1 r H s d= G t %u Q
sawwJgh< Q

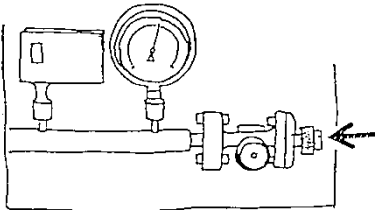


()

, x xy "2 A SG- z %A J| { %| 5
} 18%~22%Q
456 G- z %A y " o G~ SF₆= Q %2 A
89:•{ <Q



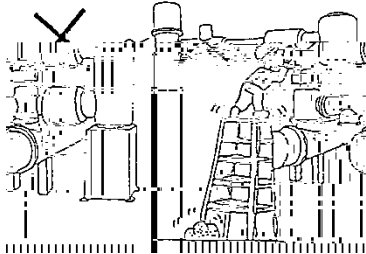
, Rvl ! v 2{N "#\$% %6 SF₆%"
& G t %u # ' %0 ()* 1 \$ +, sQ
4] ' %#\$% %6 SF₆%"& * T
, sA , s DE8 -. p A 9:Jg
h< Q



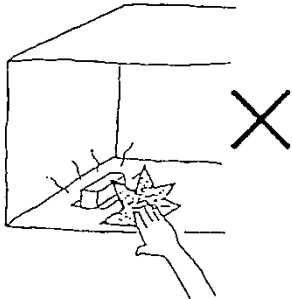
!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 5 -	. 27-

\$
%

, 6 S]6 / K={0 x% # %f 0 Q
DE89:Jg & # # 1 Yh< Q



, 6 S 2 •K 3 U Z 45 dQ
S 6 S 2 • U Z n_x8= 45 dQ
DE8 -6 < Q

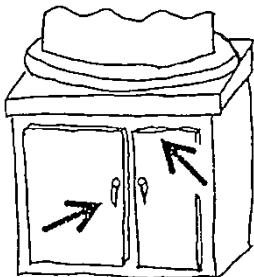


\$
%

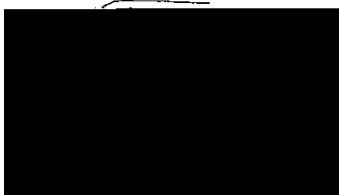
S y :2 45]S * 1n 5 - = , s 2 A 7 J| oe =% "HI
t m(A) x%7 fQ
89 oe = HI DE8 . p , sA 9:Jgh< Q

\$ + I 8: - =TUVW

tw RSJK% "klmnop w q`ar GISA
: TU 01 VW 3
, ; S < S qp = Q
S y : (VKSq = 7 fn_x=x ; Q
89 DE8 x x > ,u Q



, ? 5 @A PqHd]V 2 # B ef CD Q
S EF GISG8 # B ef CD An_x
8= ? 5 @A PqHd]V 2 # B ef
CD Q
89 89: x o ^PQ



!"#\$%
&'()*+,-./0

ZF11C-252(L)/T4000-50

0PG.412.983-2

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 7 -	. 27-

1 78

ZF11C-252 Ls [GISKbcd G- @K w SF6%" \] =ij L E A B (\^ =wb
E I A _M (lm 71 n_A ` K abcd : ^_A B (^_ f e ly : 0 f 6 E %l gh
)u `aQbcd B" `a 413
Aij tN k 3 \$% h1
lk bcd MK V mD no 7 f=lm 71 n_A mlm 71 n_ D0U p \$% h1 A
j tN k bcd - q l Yq L r 4 s 1 ; Yq 7 fQ tuv 1 pw " / IRSI Db x N k
1 f y <L = A - qy < Vz D 1 { 6 [B 3mQ
B B (\] =wb L E
ijk ` K |7 x = } 1 s E j ijk^_A B (\] =wb L E Q
Q Db L #
lm 7 fn_A t /*+lmn_= S~ !yV AL E • - Db An 6 ! } " 10000
Q
D \$% [
3 v 1 ST x% \c ` & A' [w7 f (Q y 2] n_x - 4 v wB ()* l +%, 5
= -. sAJ 7 f \$% [/' [Q
E tuRv 01
ZF11C-252 Ls [GISTV uno =9 d 1 n \$ 2 tuA78bcd 3 C] 4 o < : %
",-# h6` L 5 ' efAtu 2 • M 7 6 n 53•RvA1 { !!R A78 w tu D
e ;< Q

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 9 -	. 27-

; 2-3 lmn_ P S Z[]

BG	W ? Q R	1 f	\] N
1	\$n 9 K \$ H	V	DC/AC220,DC110
2	\$n 9 K (>	W	640
3	9 K \$ H 1 S E 23	s	F 15
4	Yq \$ TU9 K \$ H	V	DC220/110
5	- q \$ TU9 K \$ H	V	DC220/110
6	VW \$ / 9 K \$ H	V	AC220
7	VW \$ / 9 K (>	W	100
8	Yq \$ TU %w	mm	5E 0.2
9	Yq \$ TU %w	mm	2.5E 0.5
10	- q \$ TU %w	mm	3E 0.2
11	- q \$ TU %w	mm	0.9E 0.1
12	PXY - Z[M\] 3 ^	mm	1.5E 0.2

3 =>?@

ZF11C-252 Ls [GIS=bcd e - _` " lijkLlm 71 n_ u me 5 ! : A
] ^_ - ! : V u<t =9v 1 n Aa (no %kAtuRv 2 6] * v6 # hAbcd^
_ : U 2-2Q
3.1 ./0=>

1.\$?b ^ d x 2. bcdv Mx 3.cd x
4.lmn_ x 5.n_x x
Ux 48cdvcdv

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 10 -	. 27-

3.2 ./0ABCDE

lm 71 n_ Up H7 lm (A e t = E +=1 ~ f A Up oW XY l~ f l kl g
f l W11U " \$1 A j t - l Yq 7 fA78N k bcd Up \$% h1 j t y hV 1 Q

3.3 FGH=>

tu ijk _i U" v MI 1U " v MI kl jk y l kl gf v MI e - ! : Qt
u ijk _kl mn v o K] p p s - A_ _kl gf v MW11U " v Mx%- Yq \$1 Q

3.4 IJK>ABCDEL MN=>

3.4.1 Yq S E 7 f

q bcd Yq 7 f^ r 2r : U 2-3sA) f w q " S E \$n r 3-7s • U A S E \$n 12 Tf 24 0

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 11 -	. 27-

U 2-3 lm 71 n21545.76 61.32 TD (4j /F2 10.56 Tf 12.12 0 TD ()_1 0 TD (lm) Tj

!"#\$%&'()*+,-./0123456789:;<=>?@	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 12 -	. 27-

4 ./0AST12

bcd %4 2 A3 C] 4 o 5 ' Y 2 Q t fB \$ + 6tuRvA U K f t ZF11C-252Ls
[GIS8 V u! :n 5A M7 6 n 5 ! : V ut 3 + 9v \$ + QtuRv 2 A3]S " 3 +
- = - 9v 4 * w3• 5 D Q B" Rv h 6 413

4.1)UVW

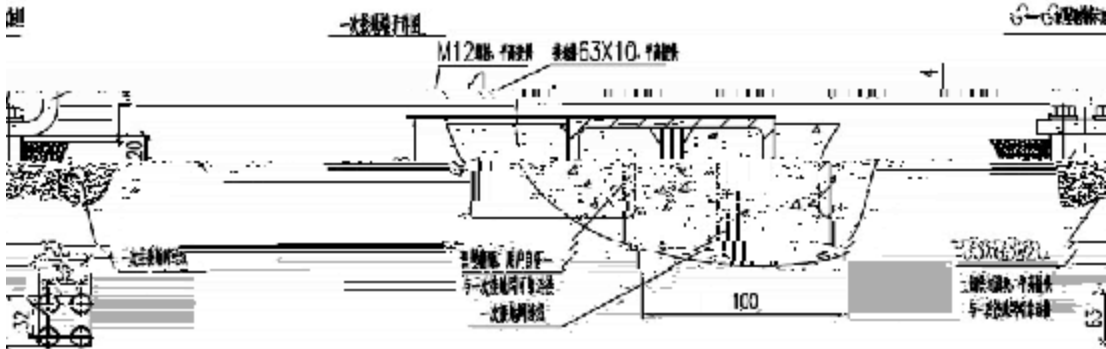
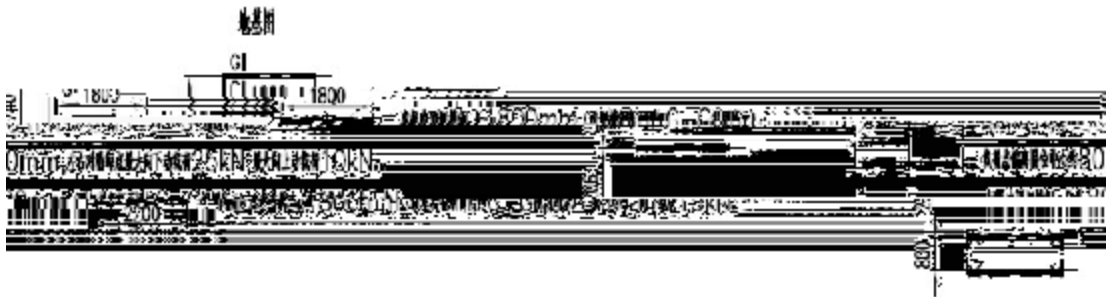
7 w9vx (A_ , q n MW=vx 1 l q nRvK ! 8 1 l q n _ Ke B 8 1 9;;
3 ! e 5l q nRvK ! L q n _ Ke B G8 < S6 <= A_ yz ! = /] > LJK E
F G8 ? Y de Yy = ST Q4F t(! e 5 @) =N A L ! F e 6 ? Y de Yy y
A _ wx (10B y oU O H 9 4 Q

4.2 ./0A12

\$ 2 Rvtu=bcd9v 1 n]% 4 2 3 C 5 ' Y 2 Alm 71 n_6bcd 3 C3
• <t A 6]S tu 5 t A 3] , 1 ~ AB RvQ

4.3 12XM

Rv{o\ C U I GIS3{o=fK I IRvK{ D kl = E ` 0 @: U 2-4Q



U 2-4 Rv{o\ C U

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 13 -	. 27-

4.4 YZL[]^

F |v= j 5 G \$dRv] ZF11C-252 Ls [GIS- = G %• "- Abcd%k j 5
G \$d= 9 KHIt 0.6MPa H (I> 0 4FJK =; G \$} Mj 5 G \$d=• 0 ' [~
= Q

5 _`A SF6!"aE

! Rv <: (A]Sx% %"# hA _ B bcd%k] 4 o 3 C x%# hA _ !] \$
+pw 8 L G (0.02MPa 0.03MPa SF6%" A> 0 tu D0 2 •3bcd G SF6%" "
9 KHI Q

6 ./0bcdAef

bcd] Nx \$%& Af 01 yzA _ _~ OEF = XK N Q

6.1 Vg

, XKG x 9 K SF6%"r 20@A; Hs (A_ x% tuy) Ay) , p EF , 11
P >Y0 @x% A H j o r=) %> _ ? Y ST Q

6.2 hijk

, tu ,-*+X w (0 @: p EF , 12P)3bcd o SF6%" : ,+x%*+ A%
" 8 ,- : + _ ? Y Z[Q5= ST Q

6.3 hil/[m

bcd # BYq f Z A U0 100A2 ? \$? A P . c\$ / 6 [B 100N R Q

6.4 VW./0OPn/

bcd Y I -7 f V # A k _ &]d _ &] V # x

6.5 hioCpqrst

bcd %4 2 3 C3 45 6 23x%w*+ _ 5 t S Y 2 Au TU 6) *+ AV ({ I
5 t - I Yqy <L 5 D Q

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 14 -	. 27-

6.6 KuvCef

bcd] 9 K SF₆%H = @A1 A , ; 2-4 8 XK =0 @L #] x% n 67 f '(_ E
WK Q

; 2-4 n 67 f '(XY

'(BG	- Yq 0 Z \$ H %		7 f	'(#]	a T
	- q	Y q	XY		
1	100	100	Y I -	5	
2	65	-	-	5	
3	-	85	Y	5	
4	110	110	Y I -	5	
5	30	-	-	3	6E - q

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 15 -	. 27-

7 bcLwx

_ B h tu Q 5=)HA ! =p " L 71 n_8= n 5 VW 6E tu [" Q4 (]S

_U O H 9 4 \ _ J " tuy : Q

VW # E 3 S 1 { 6) %A 9 3]K<89 Ly :71 n_6(q v 1 =n 6 e - QT

w JK = B K 89 WA7 [: =;< _ Mw q`a =\$! 6n 6 ! k q Q

7.1 wxrVyz{}}

7.1.1 B /;] y

l B /l ;x%r ,B = , ; ^> \$ _ B" @A s %JKs A_`a H ;& N ATU `a

(b 6 JK Q

7.1.2 A y

l AV # A3 71 n_ x% tuy : A y 2 DE (H 8 23 c \$Q

7.1.3 [:

~ O 1 Y Q 5 2 !]S d 4 [: 3

7.1.3.1 , \$! 3 bcd ~ e ` 8 cwb 20# Q

7.1.3.2 , n 6 ! 3 bcd 1 f ~ 10000# Q

7.2 wxrVypVW~•A]}

7.2.1 Wf

7.2.1.1 yz g c G8 (; r N A L ; r hi A j' @k (• # = ; r CDG8<= Q

yz ;< 3 B /;] yl A y6 [: Q

7.2.1.2 yz•{ ' r0s 6\$} l • " G8 i 1 Q

yz ;< 3 A y6 [: Q

7.2.1.3 yz 71 n_ H f Z \$ G8J J Q

yz ;< 3 B /;] yl A y6 [: Q

7.2.1.4 yz _`a bcd 7 f #]Q

yz ;< 3 B /;] yl A y6 [: Q

7.2.2 p "

7.2.2.1 yzbcd= %w 6 mwG8 ? Y XK N Q

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 17 -	. 27-

yz ;< 3 A y6 [: Q

7.2.5.5 H qH . cl; G . cef G8JK Q

yz ;< 3 B /;] yI A y6 [: Q

7.2.5.6 h ~ L p ~ . c G8JK Q

yz ;< 3 A y6 [: Q

7.3 Vy ! r "\$ ~

7.3.1 yz j 5 G \$d= 1 f N

j 5 G \$d 3xy yz ,6E 5 ' (z Q Q 5), { 6 Y 2 A 9 N d 45 : Q

7.3.2 7 f '(

7.3.2.1] 9 K SF₆%"HI I 9 K | H I 9 K 7 f\$ H 1 3bcd x% 3#1 - I 1 Y 7

f6 2# - -0.3s- Y -7 fA I # 7 f y3S (2min~2.5min= 233 + Q

7.3.2.2 *+ bcd= 1 f 23 I } 3 y <L Q {S2 D *+- I Yq 45 Q

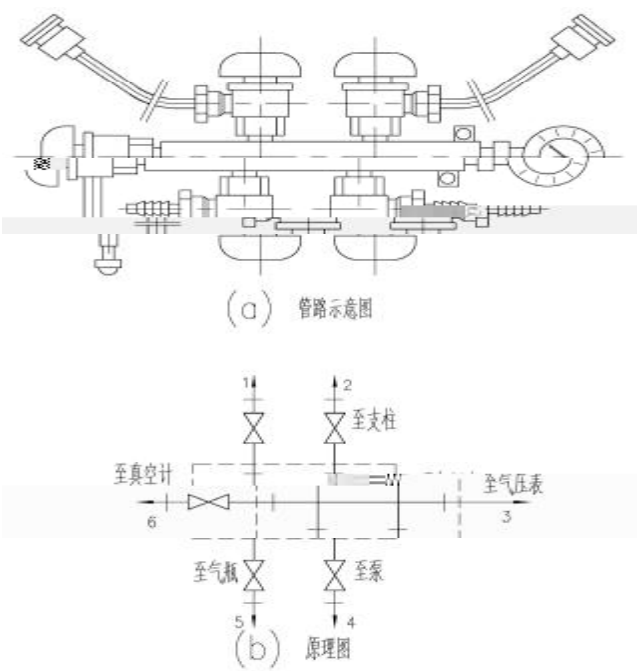
7.3.3 q lm 71 n_ = 1 1 51Yq A *+.A A 1 } A n_ = 6

!'"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 18 -	. 27-

9 ST) ! !

9.1) !

bcdRv (G SF₆% " L8 +\$ %2 A D K 2-7a > = _ K G %v ZG %A) v Z %c~ U 0 j : U 2-7bQ78(5 u u ; - , qH - } %l *} %5 6 G %A _M (V b We H=% H ; Q



U 2-7 G %v Z

9.1.1]6 C - } %x 2 • G %= @A1 A7 G %0 @t 3

qpG %v Z = u ; 1l 4l 6A 7 w u ; 2l 5A u ; 5 M SF₆%. y3 K /0 c ~ = A 12 7 w% . u ; AK l . w u ; 2- >~ = /0 c 3 V' = s o • " AJ _ K G %v Z L c c8= %%' %x G ~ SF₆% " AH (qp % . u ; AF) s o • " Mj 5 G \$d= G % • " 3• () 7 w% . u ; G %S 9 KHI Aqp % . u ; Abw~•A F j 5 G \$d=• " K' , o = A _ K W4 F j 5 G \$d 4 - Q

9.1.2] 7 - } %(G %= @A1 A7 G %0 @t 3

! = g c %k] Rv ({N 7 - } %A3 WA! C ["[: (G %& L N 7 - } %A y 2 - } %6 G %L JK _ K G %v Z A70 @t 3

!"#\$%

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 20 -	. 27-

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 22 -	. 27-

w M} %& k ~≡~M}

2f 432.1230PG.412.983-2

!"#\$%&'()*+,-./0123456789:;<=>?@	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 23 -	. 27 -

12 2 SF₆!"r 345 A 6 i 78

SF₆%" _ ? Y ; 2-6 ST Q G SF₆%"& JK= Q %A 0 G # PQ A7 R+ _ ? Y ;

2-7 = ST Q

; 2-6 SF₆%"R+ * %

W ?	\$ *
yz c { (SF ₆) | (m/m)	} 99.9
%% | (m/m)	F 0.04
l z c ~ (CF ₄) | (m/m)	F 0.04
, - (H ₂ O), ppm (m/m)	F 5
• 5 (0 HF&) ppm (m/m)	F 0.2
D , [z c (0 HF&) ppm (m/m)	F 1.0
! | ppm (m/m)	F 4
" L	G '(E "

; 2-7 # PQR+ * %

W ?	\$ *
P5 10 ² (v/v)	} 99.9993
{ : + ppm	F 2.0
# : + ppm	F 1.0
CO,CO ₂ L CH ₂ ppm	F 2.0
, - ppm	F 2.6

T 3 Q = P5 89: w \$ + % = + ¢

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 24 -	. 27-

13 / SF₆!"^ 9 pA "\$ ~

13.1 ;;<=

P SF₆%" 6 VW SF₆%" H 9 4 \ G = R+ Y 2 = SF₆%" GE " =A M7• U2
E N`) =1 9CD A * 4] k o efA 3 S U +]= • %Q

C h p t \$6\$jfK= SF₆%" A8 Ge -- [Å , - [6 V (-. =% / A
x ! 3 J 0 = 12 } (&L A ? , - [3 (% D L (o D (45 = " , - 8: t 67 C
R)A] - - [h 8 = SF₆%" = Y G 8ef 2 A 9 (` t 01 =op CD G< S 6 xy
=Q

13.1.1 3 SV • U" W(;;<= L %/ =E ; h 8 = SF₆%" A • {N JK > E = W(
4? p @d M< MA =) " r B A 0 1 9 B < V ST Q

13.1.2 CD _ K= 4 [6 EF 07 : M SF₆%" • U A) _ K1 9 E 4 A 3 (] M- h 8
= SF₆%" • U2 A GCDH Q

13.1.3 S TU u J I G A 7 :< x 45 6 J - 4? AEF < K Qef (_) o 5] 3 A]
ef 2S TU 6 J L e ` , G MN • U ? ,OP Q] ef 2 TU D - MQ A07 :& UWg
& J MN • U ? ,OP Q

13.2 SF₆!"Aa >

13.2.1 %".b

@K U 3-8a > = G %v Z A _ \ R 7 - } %2 = c c~•0 @A F c [V ' = s o
• " • "j S 1 ' = G %• "-=j 5 qHd= G %• "- A3 V ' ~ .b v Z Aw 85 .
b T %Q

q bcd%k o = Hl "" m; H 0 (A S G 9 F I U

!"#\$%&'()*+,-./0	ZF11C-252(L)/T4000-50	0PG.412.983-2	
	123-456	, 26 -	. 27-

15 f EFGH/IJ01

15.1 f E

! " } ? = { (A ^ > de Yy 69v 8 1 8 a9v65]Az F >(9vx _ <t
E N A 4F t X 2 6 3l • 5l9v =me 5 N A A _] 10s oU O H 9 4 Q
! %4 q n459 M3 RvJK EF I Y 2 { lx 8 1 l q n a! 8 1 l p # 0 cg
hL De UI _ K `a e B 8 1 Q

15.2 GH

! _7 : \t] qr L = [%8A \t = Y G Q 5 _] +5@~+35@! U + # \$ = k o A
] o t <3 H G %j o ! 5= SF₆% " = N₂HI 6_[B 0.02MPa[s l 6u t _ yz V
A { [B 0.02MPa _ \$ x : ,+ Y 2 = S SF₆% " = N₂S 0.03 MPaQ
9v(, <tVA Q

15.3 IJ

- !de2 _ FJ 3
- A. ! [G I QR I] + Q
 - B. 9 K \$ H I \$? L 8 cwb\$? Q
 - C. qH . c\$ H 3 DC110~~V~~ DC220~~V~~
 - D. \$n 3 AC220~~V~~ DC220~~V~~
 - E. _ Ke B QR 6] + Q
 - F. a! 8 1 3 QR L] + Q

!"#\$%&'()*+ !"#\$%&'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./0	0PG.412.983-2	
	123-456	, 27 -	. 27-

16 KLMN O

!"#\$%&'()*+ } u *+ F z e
\$ v 0375 @3804185
v } 0375 @3803999

6p*+ hi2 ,: C O 01os3

F G 2 3			s % %Q	
FG {a				
`a QR				
[G				
H 9 w #				
os				
FG 2 = C A	\$% 8 ,c | 8 ,f 0 8 ,- q 2 ,Yq 2			
	% "HI	MPa(kgf/cm²)	7 f HI	MPa(kgf/cm²)
	- Y ;	- A Y A - Y y3		
	FGe -	% " 8A %%8		
FG (= : x	(A E			
t] = C A				
ST: G= B <				
JK W= hi 0 j	e y J3		\$ v G k 3	

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 1 -	. 15-

!

RSTUVW	.....	
1 XY	.....	
2 Z[N]	.....	
3 ^_l`abc=deLfghi	.....	1
3.1 ^_bc	.....	
3.1.1 Njk^`abc	.....	
3.1.2 lm^_bc	.....	
3.2 no`abc	.....	
4 Rpqrs	.....	
4.1 ^_bc=Rpqrs	.....	
4.2 tuv=wxWy	.....	
4.3 `abc=Rpqrs	.....	
5 uz6{[	.....	
5.1 {[Lw}~•	!	
5.2 {[Lw}	" wxWy= !	1
6 #\$ l1 %q &'()	.....	
6.1 #\$	.....	
6.2 1 %	.....	
6.3 &'	.....	

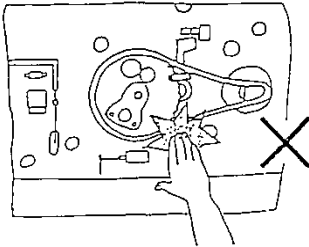
!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 2 -	. 15-

!'"#\$% &'()*+	ZF11C-252(L)/T4000-50 !'"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 3 -	. 15-

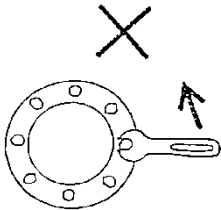
()

Z ` IBC

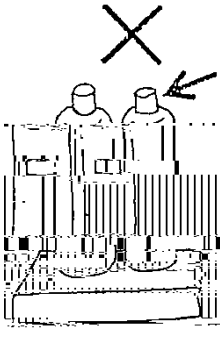
\$F f (K ,>? DS/ES g Ge=
a f b ' c w} " FU l Ge= J
K 5 de B f =6 A g " F /hi :
gA ./ U` l Q
\$ uz8A F f (` j mK ,>? 34
: gK= kl!b kA ./` l Q
\$, f : g " A F f (m K BC no m
K pqr A ./,s mtb` l Q
\$, f : g deG e " A F p u'bv , c \$f : g mw (Rp
v , = pqa A F f (x,] 9: g Ge] Ay f (9 z Md
e fg=0M] {l ,./de #ou } tu U' Q



Z f (~ f% , • 1U = ! ! " b 5Q
\$ f (~ ffg8 # 5% , • 1U = ! Q
\$ b = 8 p > J ~ f= ! ! " b 5 %T A
ijx =` l Q

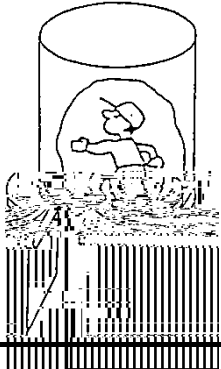


Z f (&U~f ' 8 () =*] %+ Q
(E,- x =` l Q



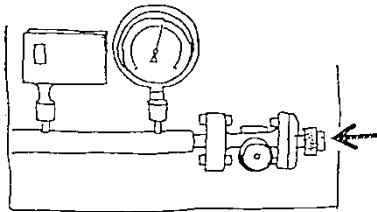
()

Z ./0 , " A (*12 %A U l 3 %45
6 18%~22%
def *12 %A 0 , \$*7 SF₆m 8 %" A
>ij 93: <Q



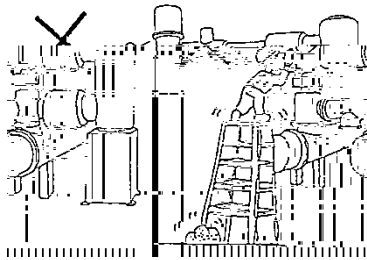
!'"#\$% &'()*+	ZF11C-252(L)/T4000-50 !'"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 4 -	. 15-

Z Rpl ; p "H(<=>? %6 SF₆%,
0 *] %+ U@T` AB 8 a u CD H Q
d9 @T=>? %6 SF₆%, v 8%
D H A D H<=> EF% A ijx =
` I Q

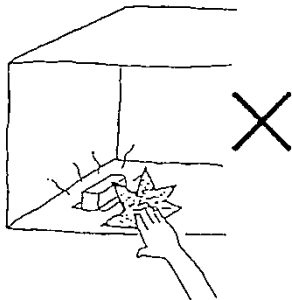


\$ %

Z f (9f G A=a0 . z# ? g < Q
<=>ijx =0 # U H#` I Q



Z f (I `K ,>? JK) Q
\$ f (I `>?G e v 8= JK) Q
<=> EL I Q

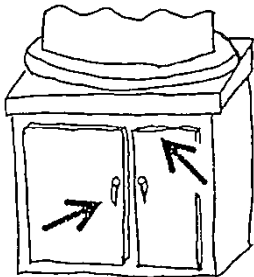


\$ %

\$ w} "de M(8 a # 5] = DH" ANUI \$ b =% ,8 p
["A AB. z : gQ
^_ \$ b = 8 p <=> F%D HA ijx =` I Q

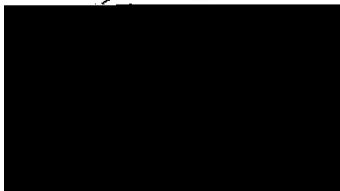
u C I{}] =TUVW

[\ 1 O%,-./012 bc 345 G I\$ 8
^_l`abc= PQ uzA F TU `a VW c
Z R(S Sc 2 u Q
\$ w} A @A(c u : g Ge v = v R Q
^_ <=> ./TU ! Q
\$U I VW p { = JK
X %\$%I G YVWA A : g " FU I34 = JK A ./ Z : gV [
= tu Q

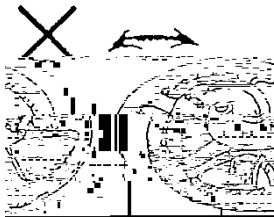


!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 5 -	. 15-

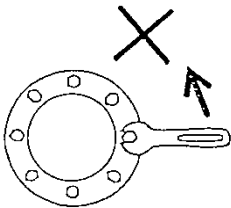
Z \5]^ P i H)M @I U+ jg JK Q
\$I _ GIS7 ^ U+ jg JK A Ge v
8= \5]^ P i H)M @I U+ jg
JK Q
^_ >ij v \$ dPQ
\$ F /) ` : g Ge
F f () ` : g Ge v c ./v , ab L cU Q



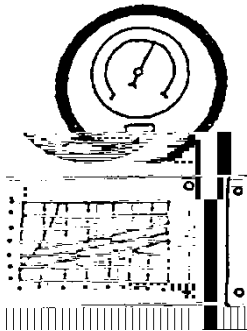
Z f (: guz 34 8= de+R Q
\$ GISU+ jg8 " A f (: g 34
= +R Q
^_ (<=ij I fPQg S %,8 p Q



Z f (~ f ! Q
\$ f (~ f GIS] = ! I h %] =
! Q
^_ <=>ij %, Oi Q



Z jg8% ,8 p!] j C 9 k A jlm\$ Q
\$ jg " A SF6%, = 8 p(1 n 9 %, o5 -8 p
pqlm\$ Q



\$: g% , +R " A M(x K %, rst ATU f
(Z : gQ

\$ - 3 f (9 W\$ JK a K : g ,2 . z 1u : gQ

\$ M(K : g ,2 . z 1u : g " A(N c 2 i H\$ v Q

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 6 -	. 15-

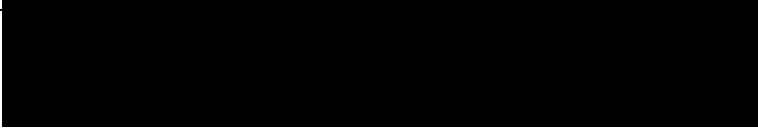
1 89

^_l`abc 7 ZF11C-252 L6 w Glsk (# 5 F@ Q
^_bc 9 1x JK a b j ^_ yz A9 ux JK a=< { am q | A \$ Q 6 } A [~
\$ Q Q^_bc w (• p { A ! = b y " 4 =\$ Q A f= b y| A \$ Q 6 } A [~ \$ Q Q
^_bc@K^_bc yz = < { -. = p A

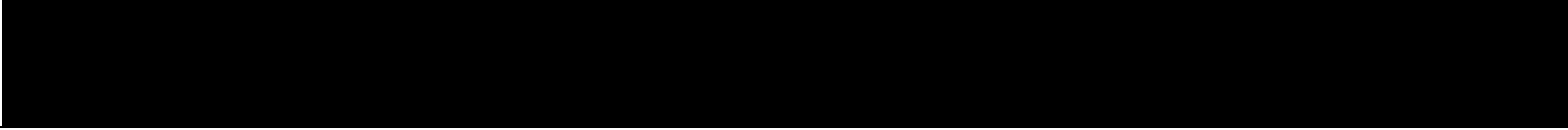
!"#\$% &'()*+	ZF11C-252(L)/T4000-5000 \$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 7 -	. 15-

6 2-55 J 6 ^_l`abc 78 \]			
9:	Wy ;<	= k	\] j
10	| A | j B ` \$ Q	kA	125
11	1x " D	s	@1

12	ux " D
13	^_bc 1x o 5 1 l ux " K o 5



| |



!"#\$% &'()*+	Z-252(L)/T4 +,-./01)*	0PQ	3-3
	234-567	-	

9:	Wy ;<		= k	\\ j
5	V g A \$ O			@40
6	o A s # \$ Q			
7	| A } " j >B ` \$ 8 5 1 min(C j 6	yz D	kV	4605 +1466
		2 3a		460
	| A E \$ FGB ` \$ 8 5 S H 1.2/50 s l j 6	yz D	kV	1 0505 +2066
		2 3a		1 050
8	| A } " B ` \$ Q		kA	50
9	| A } A n J " D		s	3
10	| A l j B ` \$ Q		kA	125
11	1x " D		s	@1
12	ux " D		s	@1
13	1xl D			

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 9 -	. 15-

c 1 1 f ux D [0 \$ G \$. 1 > Q 1 f u . w = D Q 2 1x o 5 [0 X 1 V : 1A 30 mmY# \$ =" K o 5 Q 3 ux o 5 [0 u v 30 mm: X u VY# \$ =" K o 5 Q			
N	no`abc		
1	| A \$ 8	kV	252
2	| A >?	Hz	50
3	| A } " B ` \$ Q	kA	50
4	| A } A n J " D	s	3
5	| A l j B ` \$ Q	kA	125
6	| A } A c u \$ Q	kA	125

10	ux 0 3	m/s	SE 0.8
11	1 l ux g •]	ms	@5
12	G Y MN	O	10 000

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 10 -	. 15-

6 2-55 J 6 ^_l`abc78 \]			
9:	Wy ;<	= k	\] j
: f Ge : g0 M		N 2 G YV f J N 2 e	
14			

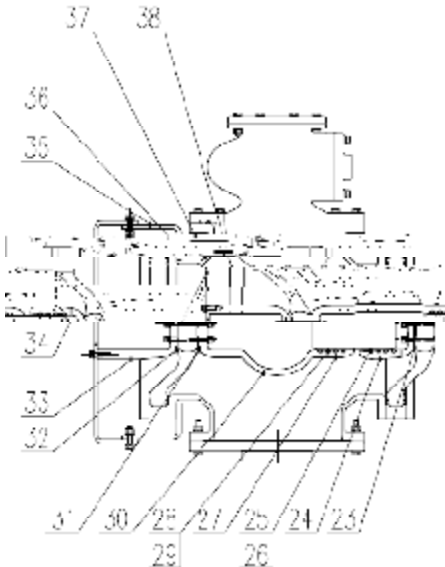
!'"#\$% &'()*+	ZF11C-252(L)/T4000-50 !'"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 11 -	. 15-

3.1.2 JK./)*

^_bcdeqNjk^_ b 1 de 2 g Q`2 ^_bc[, =de 7 2 g =A 2D {
ab q 2Dc l de N 2 V fQ Ge @f p 9 %2 F D h \$f : f GeA QR . z , f : gA
XY <` de \$fq , f .2 VW Q

3.2 LM01)*

no`abc= ' b d t 2-6> \_ A`2 `abc[, =de 7 2 g =A 2D { ab q
2Dc l de N 2 V fQno`abc Gep 9 g2 h de : f GeA Ge QR . z , f :
gA XY de \$fq , f .2 VW Q



t 2-6 no`abc

4 23NOP

4.1 ./)*?23NOP

4.1.1 ^_bc6\$f : f Ge T h " \ Rp k ` Si QtuvA f j & UX , Q\$f : g
Ge k A9 lm] Am q 2Dc l q^_bc[, 2 k Q

4.1.2 N 2 1 l ux = g •] <` mqr n2Dc l = / 5 R de Q

4.1.3 ^_bco 5 = ST

A o 6 pq 0 f

mK S o r mqaB) s }S o f. z 1 l ux o 5 pq , 7 A o dac

!"#\$% &'()*+	ZF11C-252(L)/T4000-50!"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 13 -	. 15-

5 RXYZ[
*+ ` e•& 5=)HA } =[, L : f Ge8= # 5 @f f= e• X , Qd (M(
C m) Hi h !" x : e• w}Q
@f RM # (1 Of i %A_ # MA •{[Lw} : f Ge6(c a f= G Y b 1 Q%
\\ PQ = \$ Q { | ' A7 0 }=~• C qbc 34 =\$ MN 6 G Y MN2 %Q
5.1 Z[BT\\]^_`
5.1.1 \$ /~ & w
` \$ / ` ~ . z 5 '\$ m' ~ () \$ {1 ,pq * z U A6 A X +, d 6p j ATU 34
(- f PQ Q
5.1.2 . w
` . @OA3 : f Ge . z e• w}A E"<= (v } " D / \$Q
5.1.3 0 }
' G Y MN c fg 7 10000O" } M(0 h0 } c
5.2 Z[BT\\aTUVW?_`
5.2.1 ' 1
5.2.1.1 wx 2 %7 ^ (6 3 ~ 4 L 6 356 A %P f 7 V ` U = 6 3 JK 7 ^ S u Q
wx~• c \$ /~ & w | . w6 0 }Q
5.2.1.2 wx`a P 5 q 6 6\$ 89 ` Q7 ^~ fQ
wx~• c . w6 0 }Q
5.2.1.3 wx : f Ge d k {S _ 7 ^ P U Q
wx~• c \$ /~ & w | . w6 0 }Q
5.2.1.4 wx X +, : g O]Q
wx~• c \$ /~ & w | . w6 0 }Q
5.2.2 [,
5.2.2.1 wx y A) =z | 6 y | 7 ^ : uk A j Q
wx~• c 0 }Q

!"#\$% &'()*+	ZF11C-252(L)/T4000-50!"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 14 -	. 15-

5.2.2.2 ; 21 N < Q

wx~• c 0 }Q

5.2.2.3 STV g A \$ O 7 ^ u = Q

wx~• c . w6 0 }Q

5.2.2.4 ; 2 • 1 > Q

wx~• c 0 }Q

5.2.3 : f Ge

5.2.3.1 3 : f Ge= a f b 1. z ?@ Q

wx~• c \$ /~ & w l . w6 0 }Q

5.2.3.2 wx : f Ge 7 ^. T Q

wx~• c \$ /~ & w l . w6 0 }Q

5.2.3.3 A k ! Q

wx~• c . w6 0 }Q

5.2.3.4 : f Ge BC L d / kp { wxQ

wx~• c . w6 0 }Q

5.2.4 SF₆%,

5.2.4.1 wx de 6p S _ = P U] Q

wx~• c \$ /~ & w l . w6 0 }Q

5.2.4.2 SF₆%, U1 ST Q

wx~• c 0 }Q

5.2.4.3 3 89b 1 = SF₆%, w i Q

wx~• c . w6 0 }Q

5.2.5 i Hrs

5.2.5.1 SF₆8 p n A j = P U] Q

wx~• c . w6 0 }Q

5.2.5.2 d i H g A l; : g A j g 7 ^ PQ Q

wx~• c \$ /~ & w l . w6 0 }Q

5.2.5.3 VW L 2 Wg A 7 ^ PQ Q

wx~• c . w6 0 }Q

!"#\$% &'()*+	ZF11C-252(L)/T4000-50!"#\$ %&'()*+,-./01)*	0PG.412.983-3	
	234-567	, 15 -	. 15-

6 bc>deNfghi

6.1 bc

 } : 6 y=a A A() &' u g 69p D = D V 9p65]Ax N >(9p vC S n
I ~ A dt e k = f 3l 9 5l9p m" b 5 ~ 4 A C 9 10E \$ m) H i h Q
 }T h & G 459 \ c RpJK MNO I u = O lp v D = l & G 4} D = l ZO q
A hiL F j t l " K 34 j 1 D = Q

6.2 de

 } C h G ?] 9 Hl] = 0 %8A ?] = JK o5 C 9 +5L ~+35L Y m M=> = x \$ A
91] • D d* %• 1 ; 5= SF₆%,m N₂8 p f C@ + 0.02MPa 0 N ` 6 OP C wx
@O A Q @+ 0.02MPa C R . : U T u = = S SF₆%,m N₂T 0.03 MPa Q
 9p(C • [@ . Q

6.3 fg

- }&" C N U c
- A. } w : l ;< l] T Q
- B. | A \$ 8 l \$ Q Q
- C. i H g A \$ 8 Q
- D. \$ G \$ 8 Q
- E. " K j 1 ;< 6] T Q
- F. 4 } D = c ;< L] T Q

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 1 -	. 11 -

!

RSTUVW	.....	2
1 XY	.....	
2 Z[\\]^_	.....	6
3 `aLbc	.....	6
4 1dLef	.....	9
4.1 ghei	.....	9
4.2 jkef	.....	9
4.3 lmef	.....	10
4.4 noef	.....	10
4.5 pqef	.....	10
4.6 efTUVW	.....	11

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 2 -	. 11 -

!"#\$%

wxLyJKz{|8}Y~RSJKust=0•L

%[&' A ()* I +,-./0 YVWQ

1 9;;<=>?

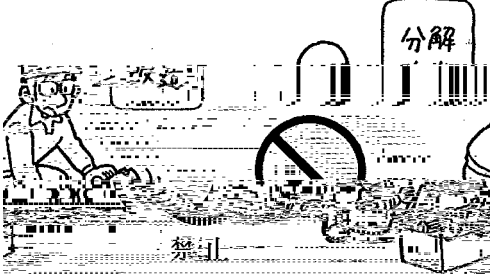
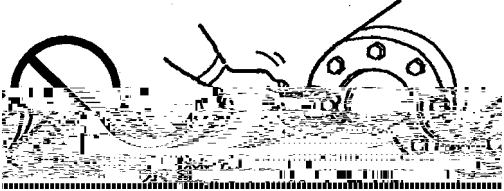
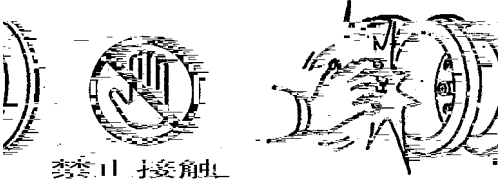
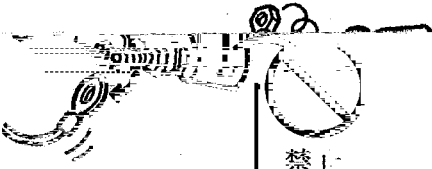
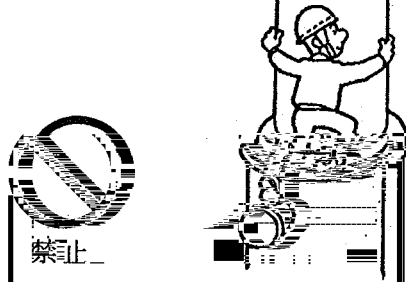
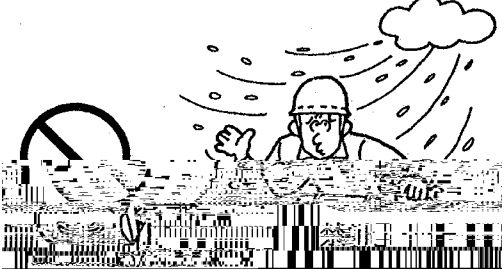
uz{| 23 M45 \] 6789 (%v ;;<=>?@

G QJK H(IJ)* uz{|A - r 45KL \] 67

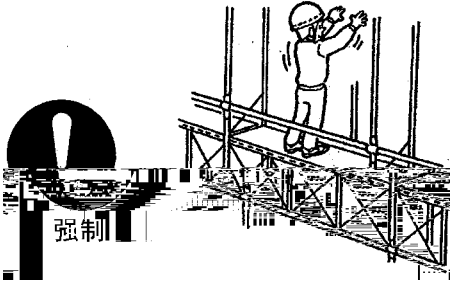
!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 3 -	. 11 -

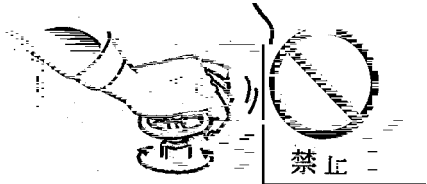
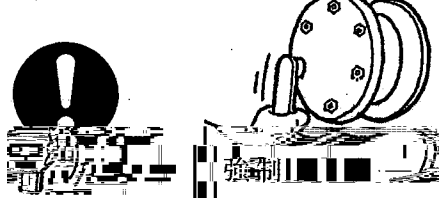
1 GHIJ?

rst=JK pL 8 qr TU -./s0&t

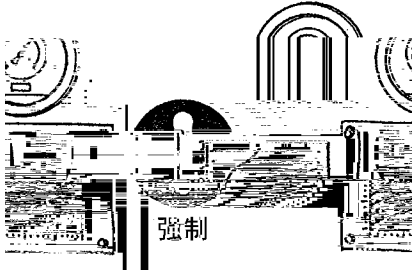
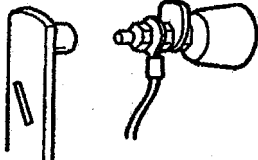
⚠ 危険	
u F j K vwPx, L yz K vwPx, L yz y >?{bce#| } l ~ \$l hg L >?"• l c0 ! Y Q 	u %"# = \$%& c '('(%"# = \$% {bc#\$ # 5)* l + h8 %vO , Y Q 
u - P 8 & [. ~ /01 & = /0# x . ~ /0#2 H 34/0# x =\$ 5 AK e\$ 678 l2 9: \$Q r" ;- P 8 (Rb /01< Q 	u - P 8 /01 & = = k N>& c)* = k N>)* a s \$ =#\$? bcde #~ \$V " Q r @A Y BC Or DE= k N> A U r - P< F H [%GH. T Q 
u F j IJ uvl /01 lc K Y IJ 8 bcde# LM l + h L >? NO PQ Y V " Q 	u r RS l TU Y VWX %q & [OP ef lj#\$ + h IV "Y Q 

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 4 -	. 11 -

 危險	
u # Y R5 qA l> Z[o =ei \]^ ei \&[obcd#\$ L_* I + hY V" Q 	u eflnoeil `a# 5l b(>? q (cd u*+ e Y R5 f [g # = 45 \]6 hi K 9 A]^ 7 j *+ OPR5 Abcde#| } | ~ \$l hg L >?"• I c0 ! Y Q 
uo k ef H A >?qr : j - P]^&: j - Pbcd#\$~ \$ Y V" Q 	u lm q (n u*+ op q v & r 2(%v @SF6A]^& OP s +bcd#\$ q v Pt e#67hgY Q 

u r - PpL 8 & [QR uv & c w;x h% ? bcde#"• Ar y z %v { | a A { uv}~• @^ ! %v 67 " AQ 	u=T /01 = <]^R # l \$% O & & # bcde#"• Q M8 \$% t 12N m(120Kg'f cm) M10 \$% t 30N m(300Kg'f cm) 
u(OP 1def Lq1defA c (H#) >? * r= + , LV " -. A0 l]"• LV " = #\$ Q	u SF ^ LV &ATj&/F=2

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 5 -	. 11 -

 	
u ?./0 = \$; JK 4 K <=>? A @[1= 2 4N*m((40Kg f*cm) <=9 p 4N*m((40Kg f*cm)A \$ A d B }4 Q  	

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 6 -	. 11 -

. / 0 1 2

1. "#

ZF11C-252(L)/T4000-50C %v ;; DEFG <=>? H K S IJ \$ KLMN QOP
\$ KLMN r > Q w;- P I p RST 8 UQ "• q VW \$ K AXVWY] 6 Z \$ N 1 U
([\$ K ^ WQ\] \$ KLMN &b b 4]^ 5] = k > _ Q= k `a x bcT 1 U I V
W61 U N P Q

2. \$%&'()

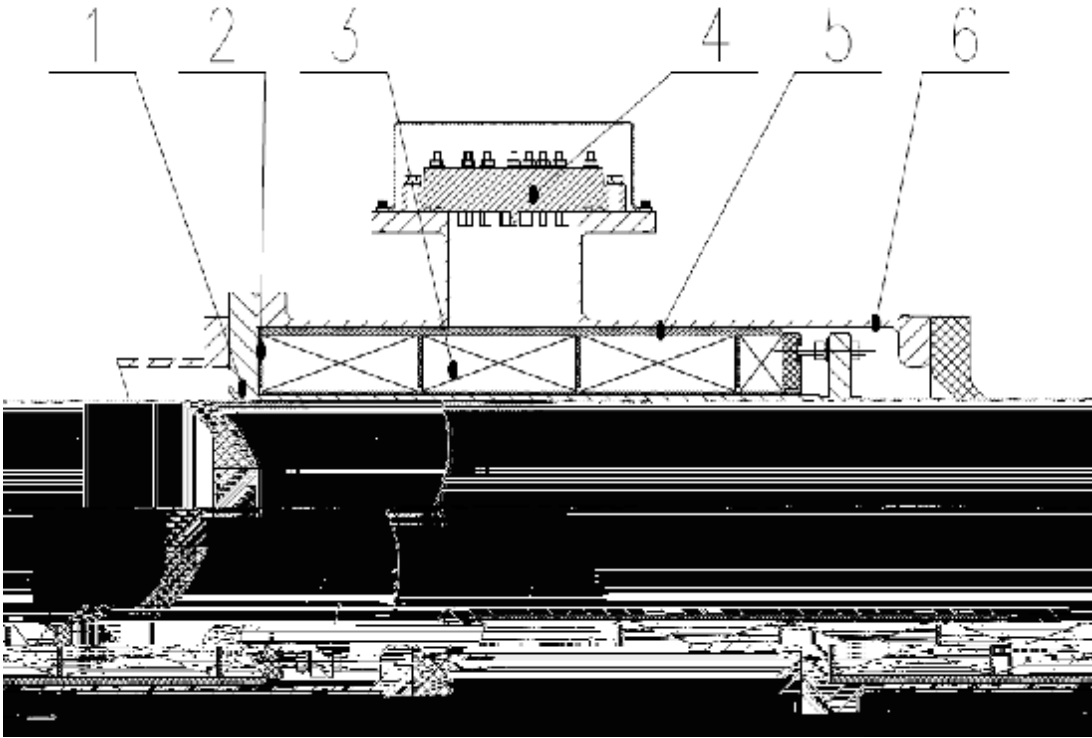
y\$ KLMNd o \]^_ e] 4-1Q
] 4-1

fg	Whij	k	^_ 2
1	CJ 8 Cg		\$ IJ
2	mZ CJ		& Z / n Z
3	d o \$?	kV	252
4	d o op	Hz	50
5	d o lk\$ K	A	4000
6	d o = k\$ K	A	5/1
7	d o U q q + \$ K	kA	50

8 d o UQrs q t TD () Tj 12.54.5 Tf 12 0 TD (.4.51 1j 12.54.51 ;0277.92 1

!"#\$% &'()*+	ZF11C-252(L)/T4000-50!"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 7 -	. 11 -

k > _ @3A) " 4-1@s b 4 z > _b * A 8 Z = + f no b & A > _ 2 t b & , - _
 W = :: . _ @2AA / x 0 b & • 1 l \$ % 2 A (a r = k > _n b & :: 3. @5AA 4 a
 bc\$ KLMN q v @6AQbc a ! v n > _ 2 t & 5 (67 A > _ & 5 (8 M ' () 9 Q
 \j > _ e • (:: w < P1 P2Ab & q l n ! v e = w < P1 P2loA s 1 = lk
 .>/0n= k .>/0 r > l ? t 9 (> l :: Av - lk\$ K @ P1K M P2qA = k\$
 K/ Sn1C n ~ QK M Sn2@nb A A B A C 8 D AQ



!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 8 -	. 11 -

n Z J \$ KLMN" 4-1b 8A\$ KLMN q v @2A = k >0TBA(J);Tj /F1@DA(2)Tf 12k+1 12 Tf
FGHIJ T=I z K vA \z >0e0T(p)(J)Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf

1. p L q 2. \$ KLMN q v 3. >0 T
4. ; .0 TD (J\$.Tj /F1@DA(2)Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf 12k+1 12 Tf

!"#\$%&'()*+,-./0123456789:;<=>?@	ZF11C-252(L)/T4000-50!"#\$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 9 -	. 11 -

4. /0,12

b ~J\$ KLMN c NO kw;- P A ! V " = # \$ A l Lq OP 1def @1defw P ^ !] 4-2AQ

] 4-2 1deiLefw P

eiW h	ei &'	K + w P
n Y ei	(WZ ; [l Z\ Y	& c (Z ; [l Z\ Y
	q vl]^ Y (W\$ _ l Q h	& c (`a \$ _ l Q h
	\$% l \$; b (W)*'(	\$% l \$; b & c ()*(
	Y]M^@] ? A2 9w;	Y] = M^l r K + 2 s&
%vO ,	%v " F # 2 9 (, %c	& c (, %c

] 4-3 gheiW h L K + w P

x b		eiLef Q k	&'
ghei		1^ 2 Q	- P 8 h hei
jkef		- P l U a	r - P ST 0OP ef
o k ef	lmeF	3 U	: j - P A & { Y %v OP ef
	noef	6 U	: j - P A & { Y %v OP ef
pqef		rghei8 #) Z ; q r - P 8 :)+, q	3 d # OP f + l `a# 5 8x,

4.1 ghei

ghef 1^ 2 Q OP 1 kAeiW h ^ !] 4-3A & c RS K + 2 qA (n u*+ op Q

4.2 jkef

r >?< F- T a , 1 U OP jkefAeiW h ^ !] 4-4Q

jkef V b f [45 =\]6 hi K9 A> s(cd u*+ OP efQ

] 4-4 jkefW h L K + w P

Wh	ef &'	R5 X[	K + w P
%ve ,@A	%ve ,@A	K SF6 %ve , Y ei " F # (W %vO ,	& c#\$ %vO ,
gheiW h	n ghei X>		

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"# \$%&'()*+,-./012	OPG.412.983-4	
	345-678	, 10 -	. 11 -

4.3 lmef

\ e 3U>? : j - P A & { Y %v= ST 0OP lmefAefW h ^ !] 4-5Q

3 lmef @+ p u*+ fg p = 678 u*+ OP efQ

3 ef H[8 l>? h : j - P Q

] 4-5 lmefW h L K + w P

Wh	ef &'	R5 X[	K + w P
/01 =ef	/01 = . _ (Wl t	h h 8 l	Wl t
	& # (Wm Q	h h 8 l	W`a = mQl n %l o Y
	& # (Wpq \$ _	h h 8 l	Wpq l \$ _
	c > @[ST = 8 l	h h 8 l	& c ('(l Q hY
%vO , ei	%vO , ei	K SF6%ve , Y ei " F # (W%vO ,	& c (, %) 9
ghefW h	6ghef X>		

4.4 noef

\ e 6U>? : j - P lr & { Y %v= ST 0OP noefAefW h ^ !] 4-6Q

3 noef @+ p u*+ fg p = 678 u*+ OP efQ

3 ef H[8 l>? h : j - P Q

] 4-6 noefW h L K + w P

Wh	ef &'	R5 X[	K + w P
V o	V o %v8 # x	K # x YV o %v8 # x	K + 2 s0
ij eiW h	6lmef X>		

4.5 pqef

r - P 8 :)+, 8 ghei8 #) Z ; q A r 3 d # OP f + l `a# 5 8x, Q

V pqef f [g # = 4 v \]L hi N k A (cd /*+efQ

3 pqef @+ p u*+ fg p = 678 u*+ OP efQ

!"#\$% &'()*+	ZF11C-252(L)/T \$%&'()*+,-./012 345-678	0!"# OPG.412.983-4 , 11 - . 11 -
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!"#\$%&'()*+,-./	ZF11C-252(L)/T4000-50	OPG.412.983-5	
	012-345	, 1 -	. 4 -

!

1	"#	2
1.1	RSTUIVW	2
1.2	XYKZ	2
1.3	XY[Y^	2
2	\$\$%&'()*	2
2.1	_`=ab	2
2.2	cdef	2
3	+,-./	3
3.1	_`=9ghi	3
3.2	_`jk	3
3.3	_`=lmng	5
3.3.1	ogpq	5
3.3.2	_`rstLuv=wx0y	5
3.3.3	lm3z0y	5
3.4	lm{[]~	5
4	01-23	6

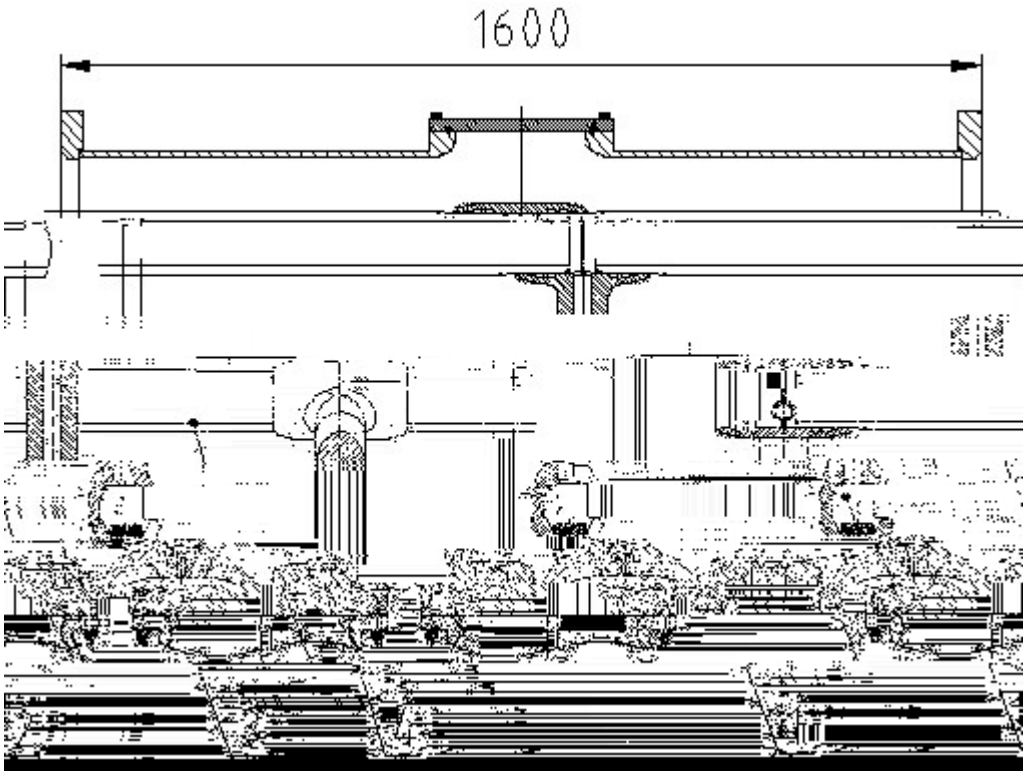
!"#\$%&'()*+,-./	ZF11C-252(L)/T4000-50	OPG.412.983-5	
	012-345	, 2 -	. 4 -

1. 67
I 1.1 RSTUIVW
ZF11C-252(L)T%• !"#\$%&' pqK_`Q
I 1.2 XYZ
ZF11C-252(L)T%• !"#\$%&' pqK_` () GIS= *+,-. 5A /01 \$
2 z56 GIS7 3. 5 2/ A 4567 =Xz`0 8 A 9;; I <= 6 >? \$ @Q
I 1.3 XY[]^
_`XY[]^ ABC 5-1Q
C 5-1 _`XY[]^

D U	}~VW	EF	]^ G
1	HI \$ J	kV	252
2	HIKL	Hz	50
3	HI \$ M	A	3 150/4 000/5 000
4	HINOPQ \$ M	kA	50
5	HINRSTOU	s	3
6	HIVGPQ \$ M	kA	125
7	HINO c KPQ \$ JW 1 min (XG`WZ 3j Y	kV	460
8	HI[\$ \]PQ \$ JW^ r 1.2/50 _s VG`WZ 3j Y	kV	1 050

2. 89;;<=>
I 2.1 _`=ab
ZF11C-252(L)T GIS. ` \_` a N Z. ` \$%8 A bc 0.40 MPa SF6%•A\_` db
1M _` e N fghi A S !jk N Z \_` llm*I = Fin Aop 3j ! =dKQ
q 5-1 e ZF11C-252(L)T%• !"#\$%&' pqK_`ab rq Q
) _` des H5A t (% uv Y w A xyn g(z{| 5 }
~~ •c %z ! = u "# \$ \$
~~ %&'
~~ (|)

! "\$ % & ' () * +	ZF11C-252(L)/T4000-50 ! "\$ % & ' () * + , - . /	OPG.412.983-5	
	012-345	, 3 -	. 4 -



1l_` d • 2 l * 8 lj 3 l 1 \$ + g = 4 l 1 •
q 5-1 ZF11C-252(L)T%• !"#\$%&' pqK_`ab rq
I 2.2 cdef
ZF11C-252(L) GIS K_`N , . `hi A8 - X 1 \$. R\$% / zj= "#y • b A
y • bc SF₆%•d e! 012 8 - 1 •K * 8 lj uv / "#y •8 32 _` d • b
3 g(<j 4 A 567 H SF₆%•8 8 'L SF₆%•(9 < :: =: <2 u "# \$ \$56=
> _` db %•= J ? Q

3. 01?@A

I 3.1 _`=lmng

I 3.1.1 ogpq

ZF11C-252(L) GIS K E @_` AB 0.4t Almng O 5CDEF \_` G" n HIJ
=o A pqQ

!"#\$%&'()*+,-./	ZF11C-252(L)/T4000-50	OPG.412.983-5	
	012-345	, 4 -	. 4 -

I 3.1.2 _`rstLuv=wx0y
a. _`rst=wx0y
_`rst) F KL/ Im SF₆%• c MNOPQ wxAvx <RD q S t •Y w PQ
wxQ
b. _`uv=wx0y
`uv RTU' 37# "PQ wxQ VWXY wx Z[ A M wx U' k \_`wx \ IJ =# " A X] II Z[A ^N k wx Z[` * a AK Z _ X]b5 Q
I 3.1.3 lm3z0y
x c _`L b 3 1 \$ de q f Y wp o Ng 7 h . 53z W/ijk 8 lm Y2VW w
xuv n Fi L# " AJ7 g _`u o 2 z] l N A k uv np3qrg jk st Quv@
_` d w 53z lm Axybz< X . R \$ { A l |) } b 3 \$z ~• o45 p ! q f Y
w Q N T P Q zj r l u "# \$ \$ L % R2/ t " | 5=ngQ
I 3.2 lm{[]~
a X . R \$ {z< A _` < g lmb5PQ Q
b u\$ {[Ag = lm ocHIJ ? = SF₆%• NPQ #\$ {[Q
c 8 ' z< Ag = lm ocHIJ ? = SF₆%• NPQ8 ' z< Q
d P J {[A g x + GIS*p P Q Q

4. 2-?BC

%& O eEF ^ < '(z{u\$ a A B C 5-2Q
C 5-2 XBC

9890
41(Q) Tj 156 Tz Q (2399) T

!"#\$%
&'()*+

!"#\$%&'()*+,-./	ZF11C-252(L)/T4000-50	OPG.412.983-6	
	012-345	, 2 -	. 5 -

6 7 8 . /

1. "#
ZF11C-252(L)%jklmnopqr\]KstuRSvwGIS=xyz{|5A
~•u GIS" JKQ
2. \$%&'()
RS # 5 \$%&' 6-1Q

' 6-1 RS ()*+\$%

, -	e . / 0		12	\$ % 3
1	45 i 6			784
2	9:			; / <=>
3	() \$?		A	4000
4	()@ABC \$?		kA	50
5	()@DEFAG		s	3
6	()H3BC \$?		kA	125
7	()@A V IBC \$ JK 1 min (L 3MKN 3 OM		kV	460
8	()P \$ QRBC \$ KST 1.2/50 U s H3MKN 3 OM		kV	1050
9	V \$ WX		mm	7850
10	\$ KYMZW X		mm	[1800
11	S/P			[0.9
12	\] ^ _ `	a " b M	N	2000
		a " c M		1500
		de		1250
		^ Sf%		^g 2.75A hg 1.7

!"#\$% &'()*+,-./	ZF11C-252(L)/T4000-50	OPG.412.983-6	
	012-345	, 3 -	. 5 -

3. *+,-./0 Tj 0.1 Tj 0.12 Tc.

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-./	OPG.412.983-6	
	012-345	, 4 -	. 5 -

a WX* AUY o Z 6 Li\$ [" ,\ Y Y] AK ^_`a bc) j !" AdefD RS
gh ~= 2m AUfi =RSZ Hj RS gh ~3 " Aef RS6 gh ~ k G= l\$ = %
mL z{ A1 n RS gh)op 2m k u a " qr | s uv A tuD [P^vjw Z G Q
xj K#•W yzU | 6-1 8 {| =e 1!"# [V A}~ N r | s uv ^["O \$ Q
5. 56,78

5.1 78=>?@

r i • 8=`a !"# * \$
Al %&\$ 1 Ez) =^ SWX A '(' 6-2 = N re . = &) Q
Bl) *&)\$+ \$ } , t%j j A -. RSs ' 6-3 N re . = &) Q
' 6-2
_____,- e . 0_ /))

ZF11C-2

!"#\$%
&'()*+

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !" #\$%&'()*+,-!./	OPG.412.983-7	
	0123456	, 1 -	. 5 -

!

"#\$%&'()	2
1 *+,\$%	2
1.1 RSTU=\$%VH	2
1.1.1 WXTU\$TYVHZ[	2
1.1.2 \]^_`Z[	2
1.1.3]^_`Z[	2
1.1.4 a^_`Z[	2
1.2a^VHZ[	2
1.3]^VHZ[	3
1.4a]^bc=d`	3
1.5efl1g6hiVHZ[	3
1.6a]^j	3
1.7klmnop	3
2 -. /0,\$%	4
2.1]^Rq	4
2.2 a^Rq	4
2.3 d`r_`	4
3 1234/0,\$%	4
3.1]^Rq	4
3.2 a^Rq	4
3.3 d`r_`	5
4 5634/0,\$%	5
5 789:	5
6 SF ₆ #;<=\$%	5

!"#\$% &'()*+	ZF11C-252(L)/T4000-50 !"#\$%&'()*+,-!./	OPG.412.983-7	
	0123456	, 2 -	. 5 -

-!./7845

stiuvwxyz=\$%VHy[z{HA3}][~•!"#\$%

- a)][~!&' mnl () mns *+ a^ ,-.
- b) WXB /0.
- c) SF₆%*1234.
- d) VHZ[56 \$Q

1 98;:/

1.1 RSTU=\$%VH

1.1.1 WXTU\$TYVHZ[

RSTU 78 (9 \$TYAK 220V: I ;<= K\$ST 6 SWX /0 A>?) , mn 37VHQ

@][~]^Rq ABC A) , mn DE0 \$T (F AE0 \$T 6 S GHI S GJKC LMN AFOPQD]^WX 4RE0 QGJOS p T A+]^WX U=qK !GJVWK CL 0M= UX AYZC]^ [\ ~ DGJ] =]^ ^,_ `` ` AJRqTU1 a+]^ E 0#\$ Q

1.1.2 \]^_`Z[

@ SF₆%*4U!bW \]^_` cC A 4U mn= d | ( p\_A ef \]^\_`; j .+4U]gOh 8A @4UcgW \]^_` ij4UC A\_]= ( p}mA]^\_` ij Q

1.1.3]^_`Z[

@ SF₆%*4Uk lkm04UC A 4U mn= d | (p_A ef]^_`;j . +4U]gOh 8A @4UcgW ]^\_` ij4UC A_]= (p}mA]^_` ij Q

1.1.4 a^_`Z[

@ SF₆%*4Uk lkm04UC A 4U mn= d | (p_A ef a^_`;j . +4U]gOh 8A @4UcgW a^\_` ij4UC A_]= (p}mAa^_` ij Q

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1.2 a^VHZ[
\$%VHy[8 nop=qrstd l duvw =a^Z[%x a^Z[6 y a^Z[Q
x a^Z[%?z{}} = ~ Va^ • ! ? "# }} = \$ Va^ • AJa^\$ %&
6 \$ ']AJ][~ r (a^SqQ
y a^Z[%?z{}} = ~ Va^ • ! ? "# }} = \$ Va^ • AJa^\$ %&
6 \$ ']AJ][~ r (a^SqQ
1 1) * + a^Aa^ • a , C c 5 - 50mQ

1.3]^VHZ[
?z{}} = ~ V]^ • ! ? "# }} = \$ V]^ • AJ]^\$ %&. \$ ']AJ
][~ r (]^SqQ][~]^= tC A ? klmn / jd][^Z[=;jQ
1 1)][~ * +]^A 01]^ • l 2 a , C c 5 - 100mQ
3 %~ V6 \$ V ?N 4 mn 5 VHA 67 N 4 mn N 4 W8 ~ V 9!8\$ V 9Q

1.4 al^bc=d`
+][~Rq r (T Aklmn :. 6][~ x o ; d |= , - A>(klmnop <
= T >) ? +9 @A A Z A +t9C BC (9 [\$ %& y D • *E q= , - A F ^p al
]^;j tC GH \$ %& y D Q

1.5 efl1g6hiVHZ[
TU l 78 (ef61g HJ ~A ? AC220\$ K o \$A > * ? -L][~VH7 M/ Q
ef HJ ~ NOPQR* ? S PVH~VH7 M/ Q

1.6 al]^;j
][~ + a^ , - C Aklmn= T _op_]A * ef a^;j .
][~ +]^ , - C Aklmn= T mop_]A * ef]^;jQ
1.7 r][~ x o ; t U =klmnA. V f 10WT ml 10WT _op o XY JKQ

2. -./0,\$%

&' mn• a^ #\$ A Z \$SRSTUQ
2.1]^Rq
? VHmn [f]^ • A(o~ \ &' mn= (o~ <] - + ^ V _`a =op_]A

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(F \$T P N A 6 SWX 4RE0 AWX] =eS ? QOS p T bc WX U AJ &' mn]
^Rq Oh 8 FO]^ (o~=op1 a&' mn= *+]^ d ^TN 4 mn /4 A
}m]^Z[Q

2.2 a^Rq

? VHmn [f a^ • A(o~=op_]A (F \$T P N A 6 SWX 4RE0 AW
X] =eS ? QOS p T bc WX U AJ &' mna^Rq Oh 8 FO a^ (o~=op
1 a&' mn= *+ a^Aa^ d ^TN 4 mn /4 A}ma^Z[Q

2.3 ? `r\_`

a]^ (o~= 9 3 T _op ef } 30=RqZ[A gX u `A F ^]a^= hi \
j Q
WXTU *kl SRqA @Rq lmn } Rq o C A pq }mRq o] = Q h mnA /
}]a^Z[A ZC50 \$SRqQ
@5 rs _` tu C A ]v =\_`op 5F A F ^ w RqQ

3. 1234/0,>8

() mn• a^ #\$ A Z \$SRSTUQ
3.1]^Rq
VHmn [f]^ • A(o~op_]A\$T 6 \$ x M P N AeS y S z MN A()
mn]^A]^ (o~] - @{ 1 a qK= T mopA1) () mn *+]^Ab TN 4 m
n /4 A}m]^Z[Q

3.2 a^Rq

VHmn [f a^ • A(o~op_]A\$T 6 \$ | M P N AeS y S z MN A()
mna^Aa^ (o~] - @{ 1 a qK= T mopA1) () mn *+ a^Ab TN 4 m
n /4 A}ma^Z[Q

3.3 ? `6\_`

a]^ (o~= 9 3 T _op ef } 30=RqZ[A gX u `A F ^]a^= hi \
j Q
\$STU *kl SRqA ZC }m p Q h mnA / }a^Z[A 50 \$SRqQ

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@5 rs _` tu C]v =\_`op 5F A F ^ w RqQ

4. <=>?)*;./

r &' mn=VH }~ dt \ (o~] -+ TU l`a Q

5 @ABC

mn=TU l 78 <] (• ~AK Sq ! ! "# \$T \$ S! A* ? -L }[~
VH7 M/ Q

6 SF₆!"DE./

%& f X' %A @ SF₆%*4UbkW , 9 () cC A' %%*+,- \$~ = 9 3op
_JA ef . %() ;j . % SF₆%*4U - , !bW , /() cC A 0+,- \$~ = 1 9
3op_JA ef _`jQ
