

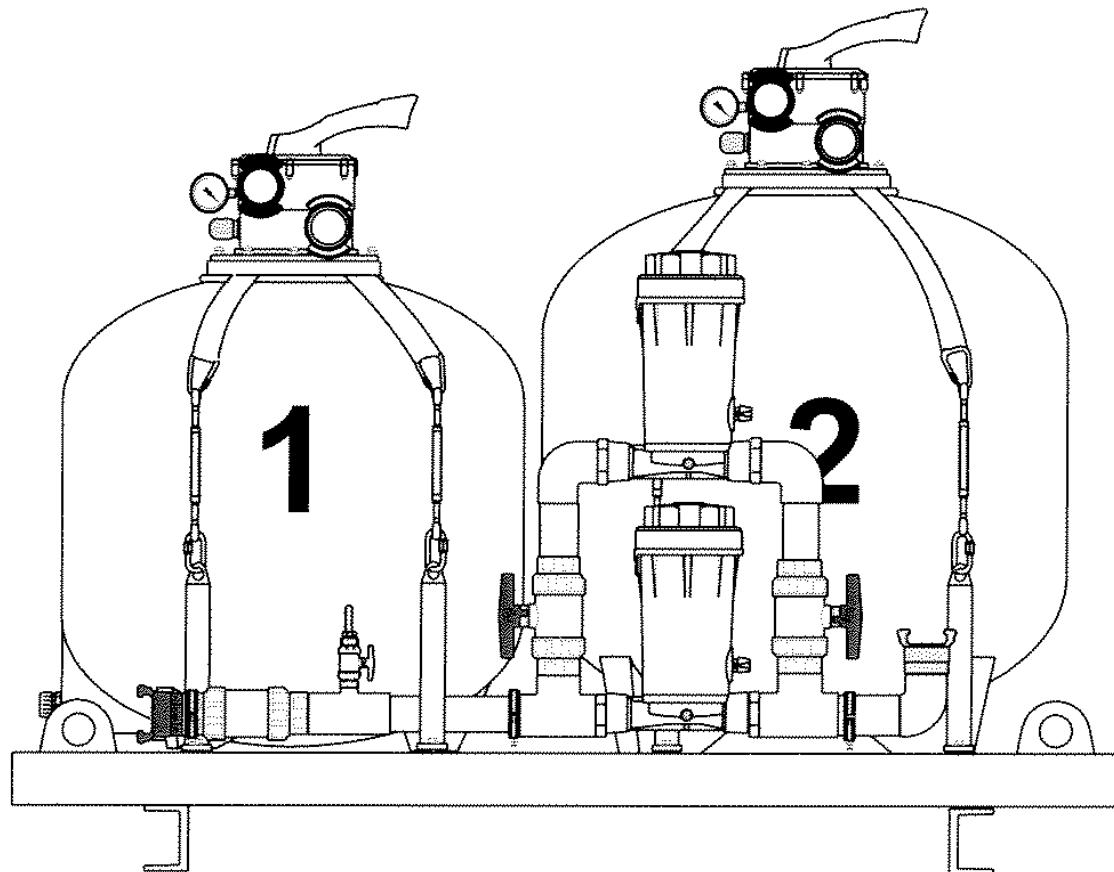
ՀԵՂԱԿԱՆՈՒՅՆ
(Instruction Manual)

(pi Eš w̄suf a½ghm;a&oeþþp)

OX A1 & D1
MOBILE UNIT ON SKID
Diesel engine version
(ołt [kw])

(aemw̄s mOES w̄suf a½ghm;a&oeþþp)

OX A3 & D3
MOBILE UNIT ON TRAILER
Diesel engine version



rmwdm

ñEñUm;csuñvupf

OX A1& D1 (off[w] OX A3 & D3

- (1) t ajccbabmw&m;
a&oeþubpleþf wyfq i ylt q i q i h- yll 1 » Eþhyll 2 »

(2) a&oeþufwlf yði aom t plwt yll frsm;

(3) a&oeþuf o, f, yllqmi scif^jyevnþtqnfjci f
3- 1/ o, f, yllqmi scif - yll 3 »
3- 2/ jyevnþtqnfjci f (3 &uþx uylu) puþyfem; ygu)

(4) a&oeþubpleþf wpþclvll wyfq i þae&mcjci f? t oþylici f
4- 1/ ae&mcsxm;jci f Eþhajrjyifqijci f
4- 2/ plþfwpþclvll t plwt yll frsm; quþywyfq i scif - yll 4 »
4- 3/ aq;xnAfrsm;ü xnlþef "gwlaq;jym;urða&fcs, scif - yll 5 »
4- 4/ tenþzþapaomAþsi t enþþpnþapaomAþt wþfollaq;xnfcif - yll 6 »
4- 5/ uvþifaq;xnfcif - yll 7 »
4- 6/ t i f si Eþlyewyfq i ft oþylici f

(5) a&oeþxþwþlyci f
5- 1/ jyi q i scif? ppþaq;jci f Eþhprþoyfarmi f Eþscif - yll 8 »
5- 2/ a&aemuþstþþþoyyll- yll 9 » Eþhyll 10 »
5- 3/ a&oeþwiþxþwþlyci f
5- 4/ uvþifaq; yll 11 »
5- 5/ A1 EþhFe ygði h
5- 6/ pH weþl (Level)

(6) oþt enþþAþuþjyevnþaq;allumjci f - yll 12 »

(7) umAþa&ppAþuþjyevnþaq;allumjci f

(8) yllfeft & nft aofþþaq;jci f
8- 1/ pH Eþhuvþif (Cl₂) ygði hwl wmyll- yll 13 »

(9) puft plwt yll frsm; ulxþefotfjci f - yll 14 » yll 15 »

(10) puEþlywbuaomt cuft vufrsm; - yll 16 »

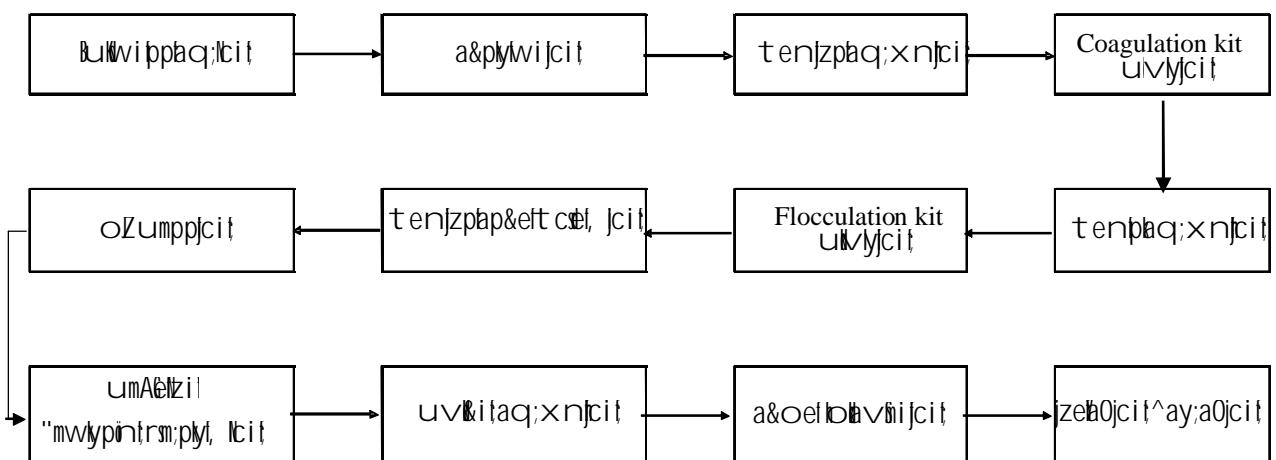
(11) a&t &nft aofþþaq;jci f yllwbuam urþusefrma& t zlþphfrsm;

1/ t ajccbabmw&m;

þa&oeþurs aomuð&oeþurly&eft wuf oþþlt aezi h t xluftusir rvt yfg
pubn f vlyaqmi frm; ulrnbom wqi ly) wqi hqmi &ubonf vlyppEshywbuam
tyl fu@vnf ryðibj' Z, f(o) "gwfqþiziharmi fEsbam t i s i swpVllomyðibonf

a&wif ygoi^laymDibaom tvb*ao*;i, aom trb*ua*v;r*m*;u*ll* xnb*ifv*b*ao*
"g*w*l*q*;r*m*;j*z*i*h*ten*z*p*v*map*jci*? ten*pl*0;v*mapjci*? o*E*l*u*iz*w*f*apjci*? u*m*A*efu*z*w*f*apjci* i*jz*i*h*
o*e*p*bi*ap*ly*naemuf uv*ll*i*z*i*h* y*la*opum to*h*omub*ll*aom aomu*ll*&u*ll*&*apjci*tom
i*z*p*fon*?

- (2) a&oeþuN vlyfaqmibuf

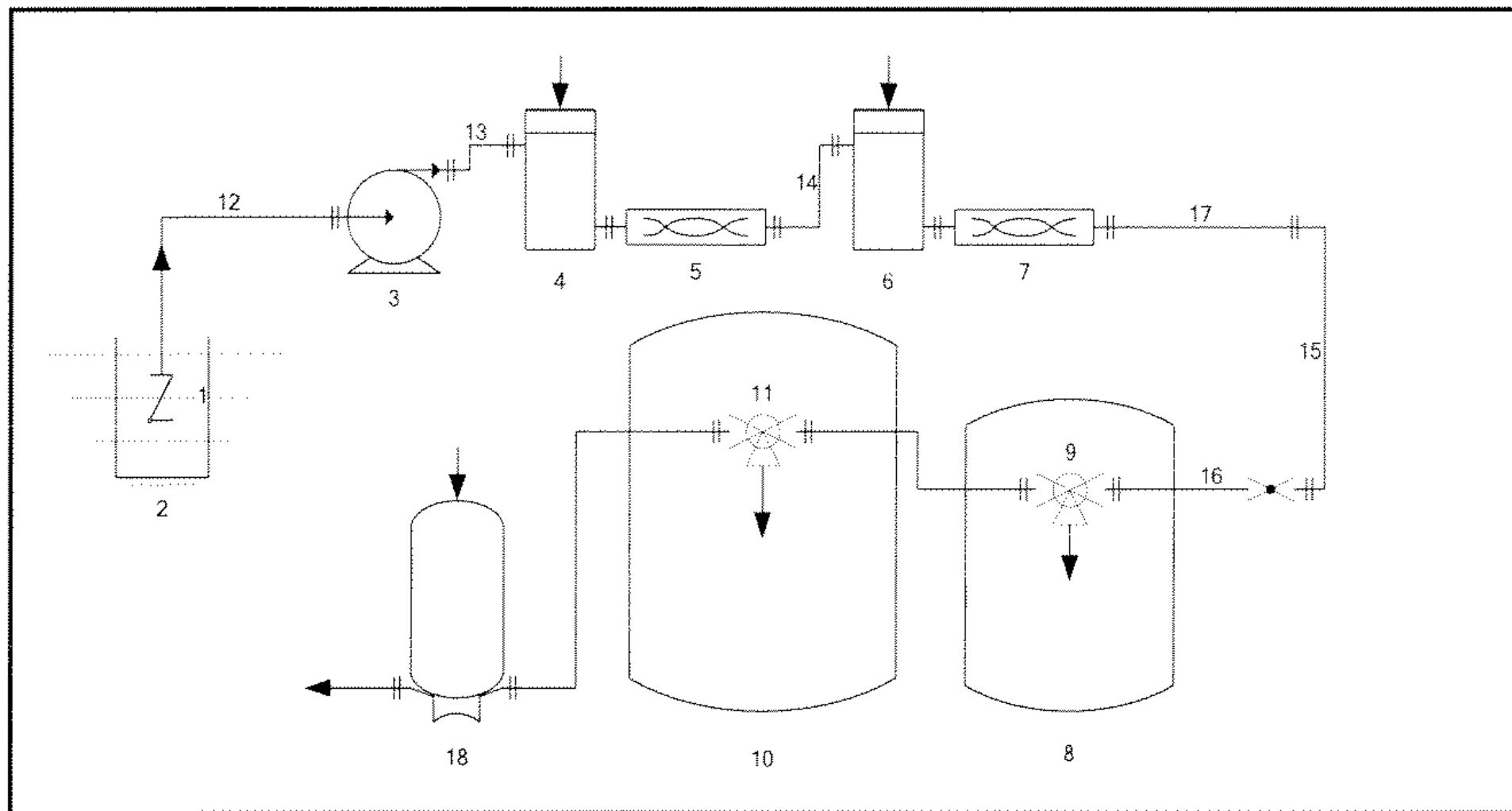


2/ a&oeþuſwif ygoi þaom t þlwt yli frm;

- 1- t ayqulazmuſx;aom yvwþwpþliſ (t Oga&mi) Eſ ha&ppft 0wþ (trſwf2)
- 2- bñlacgi ſxn&ef yvwþwpþciſ (teuþ&mi) (trſwf1)
- 3- 20ay &ñi vñfacmiſ Eſ hiquſx;aom; bñlacgi ſ (trſwf12)
- 4- jri faumi þ& 6. 8 &li, ft i*si Eſ hifwſx;aom yell (trſwf3)
- 5- tenþzþapaom? tenþþnþapaom yvwþwpþliſ 2 Aſ (trſwf4 Eſ h trſwf6)
- 6- yvwþwpþliſ fav;rm;yaom yvwþwpþliſ (aq;a&mpyliſ) 2 ck (trſwf5 Eſ h trſwf7)
- 7- ygoi þaomyliſ;
 - (u) yliſquacgi ſwyliſ; 20ay&ñi vñfacmiſ 2 acmiſ (trſwf12 Eſ h trſwf14)
 - (c) t zliſ t yliſAm; ygonhi t Oga&mi ſ yliſquacgi ſwyliſ;aom 10ay&ñi vñfacmiſ 1 acmiſ (trſwf16)
 - (*) teuþ&mi ſ yliſquacgi ſwyliſ;aom 3 ay&ñi vñfacmiſ 1 acmiſ (trſwf)
 - (C) t jzla&mi ſ yliſquacgi ſwyliſ;aom 4ay&ñi vñfacmiſ 1 acmiſ (trſwf)
 - (i) t jyma&mi ſ yliſquacgi ſwyliſ;aom 10ay&ñi vñfacmiſ 1 acmiſ (trſwf9)
 - (p) t eþ&mi ſ yliſquacgi ſwyliſ;aom 10ay&ñi vñfacmiſ 1 acmiſ (trſwf20)
 - (q) t jzla&mi ſ yliſquacgi ſwyliſ;aom 10ay&ñi vñfacmiſ 2 acmiſ (trſwf13 Eſ h trſwf17)
- (Z) yliſquacgi ſwyliſ;aom t jyma&mi ſ yliſ 80ay&ñi pþaygi ſ 4acmiſ (trſwf15)
- 8- oElyaoom tenþþliſ (trſwf8)
- 9- a&wl hysmDi þeaom "gwypinfrm;uſi, &li;onliumAþyaoomAþliſ (trſwf10)
- 10- tenþþpiyliſa&ulluvliſ vliſforlæq;xniſ;onliuvliſtaq;xniſ (trſwf18)
- 11- Tool Box 2 ck
- 12- aemulwſ m0Eſ h t yliſpinfrm; (*srſwf t yliſ rlvñliſ vu)
- 13- uvliſ? pH ? OH(Iron) "gwliſ t vrliſ ri(Aluminium) "gwlygoi H prþoyliſ mEſ h vliſ yaoom "gwlaq;jym;rm;

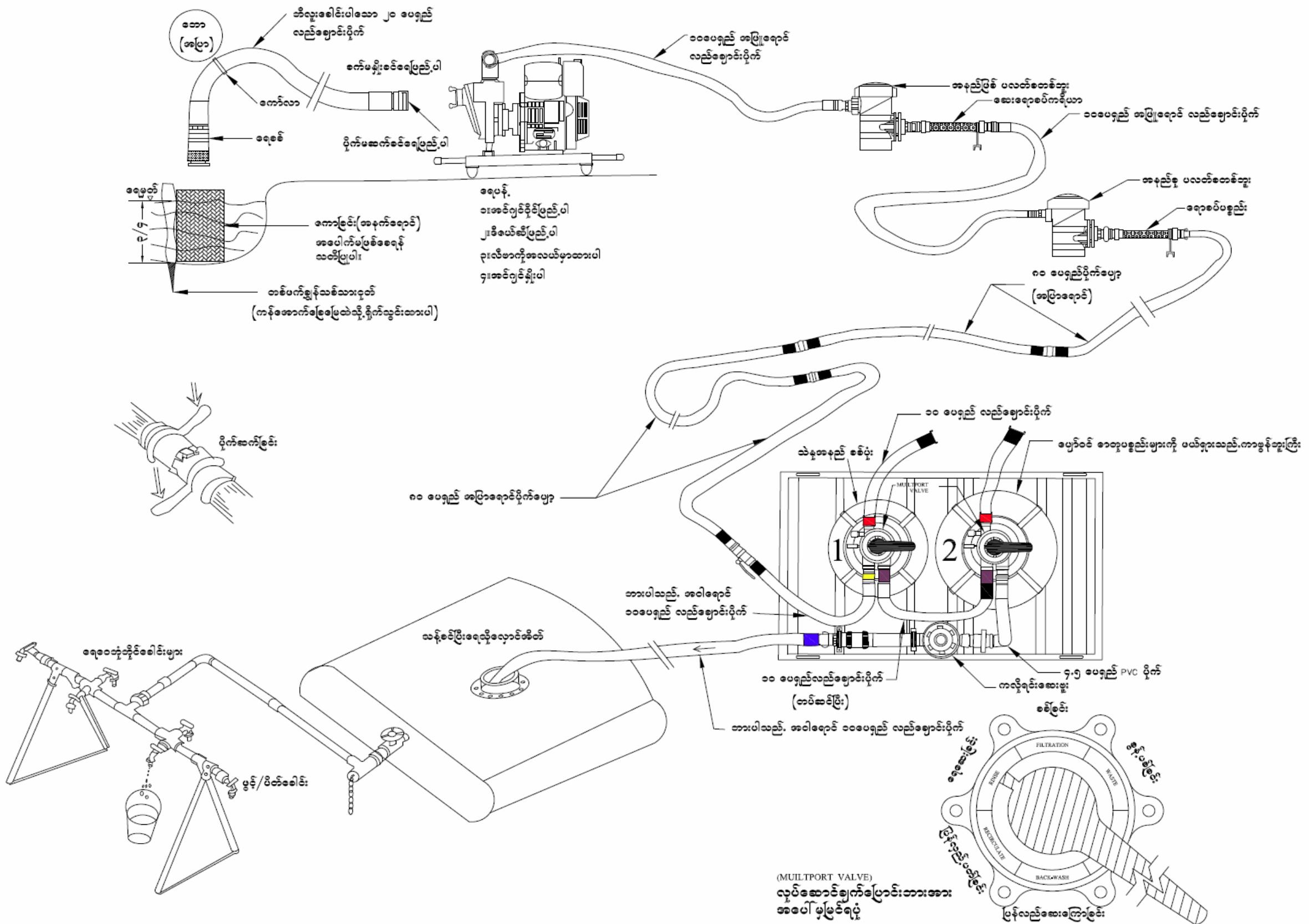
trſwfcsur / t oEſ aemulwſ m0f wþlygnſ ygrvmyg/
aemulwſ m0yaoomvnſ t yliſypinfrplviſy/
uvliſEſ h pH ygoi H prþoybonliſ m0m yg&lwliſonſ/

а&oeбуթрwyqiyt qibih



уќ 1 »

ခရာသန့်ခက်တပ်ဆင်ပုံအဆင့်ဆင့် [ပုံ-၂]

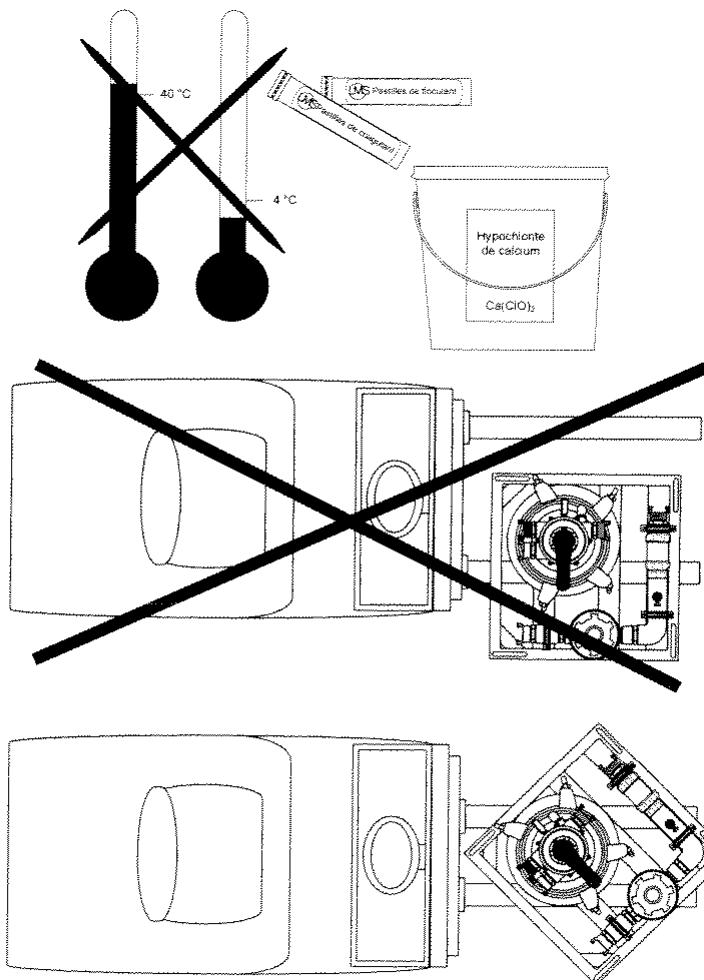


3/ a&oebufo, f, ly^lqmi scif^jyeVnbtqnsjcf

þa&oeþuful o, f, lyqmi scif? jyevnþotfqntci frsm; vlyfaqmi &mü ysufþ
, H frh&sp&efat muyst csufrsm; ulvliuem&efvlt yfon/

3 - 1/ o, ə, y, ʌ, qmijcf

- -o**A**b*u*? um**A**é**A**l*u***r***m*; t w*f*r*S*v*u***u***s***a**&**r***m*; u**e****a**t m*f*x**w****o***l***r***a*&**l***j***y***m* i**&**/
 - -aem*u***w***f* m0*f*u*l***u***m*; j*z*i **l***q***n***h**t* cg v*h***E***l***h***o***m****b***l***a***o*;av;u*l***t** ay:o*l***a****c***g***u***w**f* i**y***g*
b*l***a***v*;b*l***t** e*l***&***l***a***x***m***u***a***v*;cl*l***v***n***f** aj*l***h***u***w*f* i**x***m*;y*g*/**
 - -aem*u***w***f* m0*N*0*e***f***u***l***q***E***l***h***o**i***l***w***m***l***a***o**m**u**m*;u*l***o***l**y*/
 - -aem*u***w***f* m0*f*u*l***F**orklift j*z*i **l***h**r* ry*E***S***h*
 - -aem*u***w***f* m0*N*b*l***a***v*;b*D***E***h***t***y***l***b**u**l***a***v**y**g**i***c***l***e***s***t***l***h****p***l***q**;y*g*/



yH« 3 »

3-2/ jyevnboraqnisci (3 &uxufly) pu&yem;yu)

- olt enppAulla&oejzi h Back-Wash vlyy/
- olt enppA E humAfe&ppA (2)cþvixsuvusel&rm;ulvloz, fkwlypy/
- uvliq;xna xwif Calcium Hypochlorite aq;jym;rm; ushgyu z, fkwlypy/
- aq;jym;t m;vhes h aq;Afrm;ul (Calcium Hypochlorite tablets E h Coagulant/ Flocculant tubes) ajcmuao ly tybsef 4 þi wft&wes 40 þi wft&wllm; &ae&mü omohvni &ef

4/ a&oeþuplepþwpclv wyfq i þe&mcjci ? tohjci

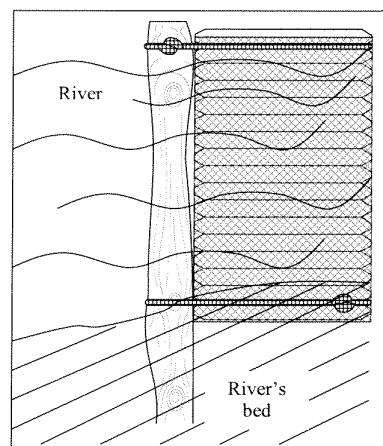
4-1/ ae&mcxm;jci fE hajrji lq i jci

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4-2/ þlepþwpclv &t pñvt yl frm; quþywyfq i jci

yxrOþh a&xli Oj oþ [kf opf kwþpacmif pluy) a&ppZumjci (trswf1)ul xli luuycsnly/ Zumjci tonfa&ü 3^4 (av;ylly)ce epfrlyþeygap/

yll 4 »



bMlacgi twyfq i xmaom 20ay&hnvnacmi fyli (trswf12)ul, l a&jznly bM acgi ful Zumjci teuþbli vnfau mi? t jcm;wpzuful yel (trswf3)ü vnfau mi wylq i yy bMlacgi tonf ueatmuajcrs tenfq 6vurcel uha0;aeap&ef tjyma&mi labmE h aumvnuue&rsuE h yi E hceþqwyfq i yy yekblvnf xlfayqif rswqi ha&tjynfzny/

tjzla&mi 10ay&hif vnfacmi fyli (trswf13)\wzuþull yel a&xlfayqif E h vnfau mi? t jcm;wzuful tenfzþapaom aq;xna (trswf4)\ t oides h vnfau mi quoþ yy þalonf tenfzþaprmlif xrlayi jzponf 4ifA\ t xlfayqif

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'kw&f aq; x n&A& (trSwf6)? yxraq&mpyfu&d m(trSwf5)E&h 'kw&f a&mpyfu&d m (trSwf
7) w&lnf wyl&lnfjz&f aq; x n&A&t csi f csi f (O&ll) a&mpyfu&d m t csi f ae&majym f
wy&f q if oly&ll ygon&f

Olygaomt enppA&U(t rSwf 8) \ t Oga&mi yLufquft OES h t z& fit ydWAm; ygaom 10
ay&h&f t Oga&mi yLufquacgi fyg vnfacmifyl(t rSwf 16)u\ quify/ 10 ay&h&f
t jyma&mi yLufquacgi fyg vnfacmifyl(t rSwf 9)ES h umA&fa&ppA&U(t rSwf 10)\
oe&bi y\ a&x&u&m&x&u&y&u&z&p&a&om t jyma&mi yLufquacgi f t OES h quify/ t q\y 10
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a&a v&f i ft w&f ay:& t z&u&z& &yg&n&/

4-3/ aq;xnʌrsm;ü xnɪf "għaq;jym;rsm;ulta&gs, fci t-

a&wiflygibonf omrefsupjzih rjri El favmufatmibao;i, homtrefsm;ul oEk
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rvtaogol&rnntzpbony

ba&oe&buft wif toly&rnñ "wlaq; 4 r&lyon/

- 1/ Alufloc (SA) Aluminium Sulphate (aq;ym;-1)
 - 2/ Ferufloc (SF) Iron Sulphate (aq;ym;-2)
 - 3/ Aniofloc (2A) (aq;ym;-3)
 - 4/ Catiofloc (1C) (aq;ym;-4)

yxraq;xna¹(trwf4)wf Alufloc (SA) or[wf Ferufloc (SF) wpfclu¹ 10jym;
xn²rn³ 'kw⁴ aq;xna¹(trwf6)wf Aniofloc (2A) or[wf Catiofloc (1C) wpfclu¹
5 jym;xn²rn³ y⁴ft m;jzi h aq;xna¹wpfcpwf aq;wpfclu¹ xn²rn³zpaomvnt
tcs¹&rs²;twuf aq;(2)rs¹ a&mpy&wwfyon¹, i{olvit yqu yxraq;xna¹wf

wptʃtʃvɪf 5 jym;pl xnb̄ygrnɪ 'kw̄ aq;xnAtwɪf wptʃtʃ 3 jym;? uəlwptʃtʃ 2 jym;pl xnb̄ygrnɪ

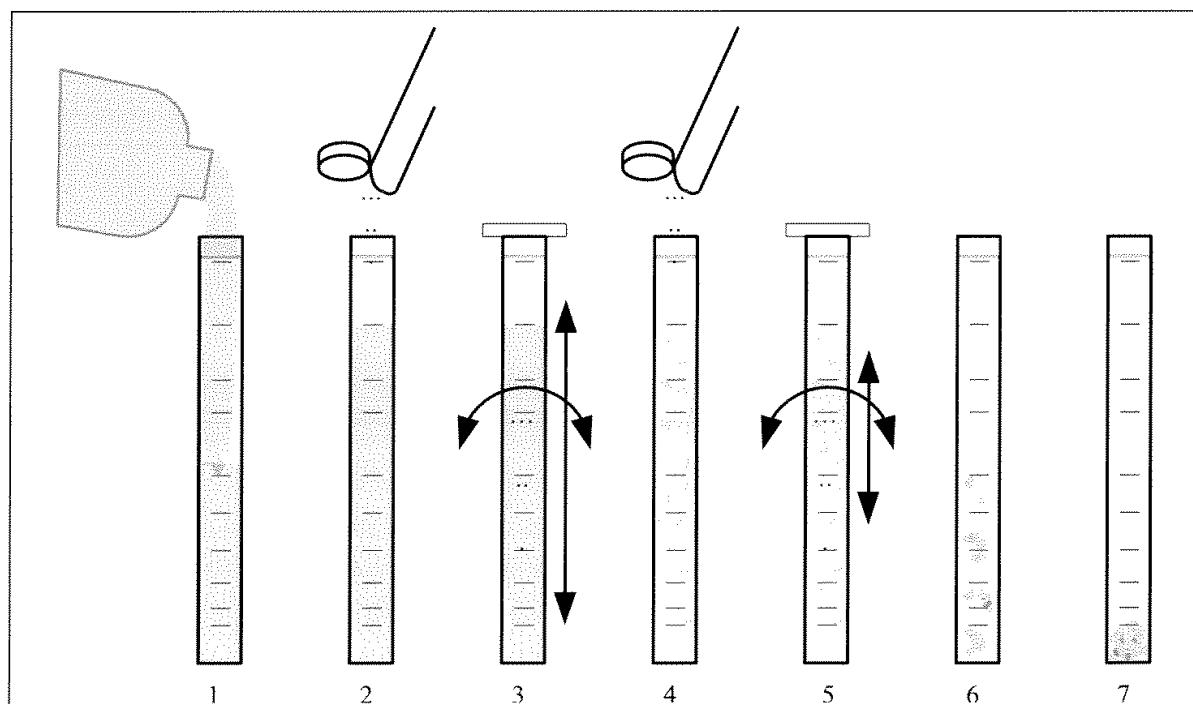
r̄luefaom aq;t w̄ a&fc, Eɪ̄&ef vufawlaqmɪ&u&rntenfūl atmuw̄azmfy xm̄;ygonɪ

1- a&aemufuſt̄w̄faom zelyēnatmuyl̄(wp̄zuyw̄) xb̄lprfoyrnɪ&(oep̄f rn̄l̄)ūl̄3^4 (av;ybl̄)xnȳ

2- yxrqiftaejzi h Alufloc (SA) aq;jym;(aq;jym;-1)t̄m; tenfi , f̄l̄jcpl̄xnȳ zefyēl̄tz̄l̄kuzul̄w̄lȳ 30 pūel̄jyiſxeþ̄ xuatmuðl̄ m̄ vly&f̄;ay;yḡ (þol̄ vly&f̄;ay;jciſt̄m̄;jzi h aq;Eſ̄h& a&maEñom̄;lȳ) tenft r̄f̄sm; jzpfay:vm̄ aprnfzþonl̄)

3- 'kw̄ qiftaejzi h Aniofloc (2A)aq;jym;(aq;jym;-3)t̄m; tenfi , f̄l̄ jcpl̄xnȳ zefyēl̄tz̄l̄kuzul̄w̄lȳ 30 pūel̄ȳf̄l̄om̄ xuatmuðl̄ m̄ vly&f̄;ay;yḡ (þol̄ vly&f̄;ay;jciſt̄m̄;jzi h aq;Eſ̄h& a&maEñom̄;lȳ) tenft r̄f̄sm; t̄cſiſciſaygi ſpl̄ ȳl̄aom̄tenft r̄f̄sm; jzpfaprfzþonl̄)

4- a&üjzpfay:vm̄aom̄ tenft zw̄l̄uðr̄m;rl̄ a&l̄unvi h w̄l̄uðr̄sþom̄;yḡ



ȳl̄ 5 »

5- þenftw̄l̄ aq;jym; 1 Eſ̄h4? aq;jym; 2 Eſ̄h3? aq;jym; 2 Eſ̄h4? aq;jym; 1 +2 Eſ̄h4? aq;jym; 1 + 2 Eſ̄h3? aq;jym; 1 + 3 Eſ̄h4? aq;jym; 2 + 3 Eſ̄h4 t̄p̄þþjzi h aq;t w̄t r̄f̄sm; v̄ñlywþþl̄p̄f̄ prfoym̄unȳ a&t̄l̄unvi h Eſ̄h tenft zw̄l̄uðr̄m;ql̄zpfapónhaq;t w̄l̄uðr̄a&fc, f̄l̄þygrnɪ

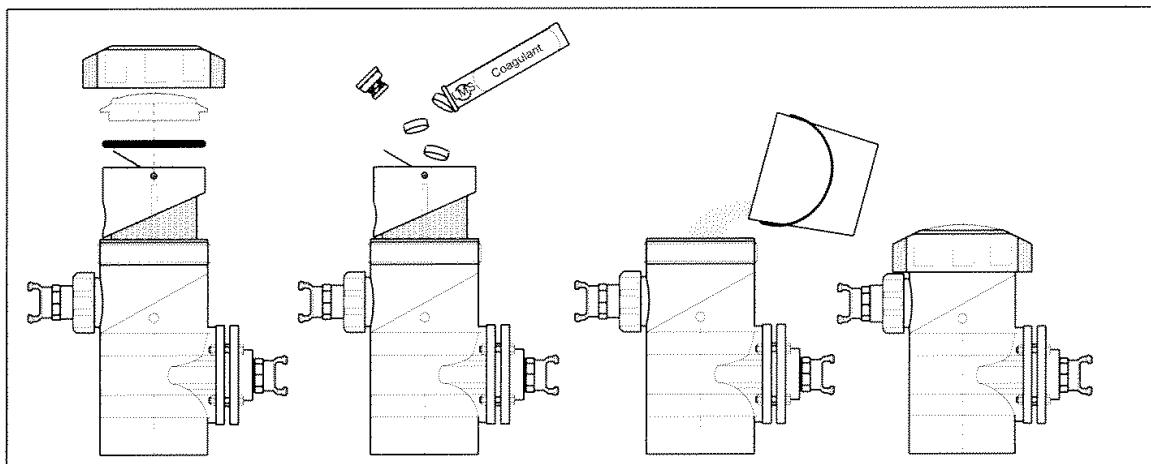
- 6- prfoyrl wplutlywlf zelyell Brush jzi hocmpm aq; allmlydrsaemufwpblt
prfoyrlkly&ygrn/
- 7- txlowjy&efn aq; twf; prfoyrl jykly&mwlf yxrtqiesh 'kw tqi h
wlft olylaomaq; reppplaygi fym Prf prfoyrlwpblt Es wplutl wwEl lbrl
telpyql whlt mifc qprfoyrl jykly&ygrn/
- 8- atmulyaq; twf; wplutl prfoyrlunibom aq; twf; jzplygon/

| aq; twf | yxrtqih (yitxeþmvlly&el) | 'kw tqi h (omrefomvly&el) |
|---------|-----------------------------|------------------------------|
| 1 | aq;jym;- 1 | aq;jym;- 3 |
| 2 | aq;jym;- 1 | aq;jym;- 4 |
| 3 | aq;jym;- 2 | aq;jym;- 3 |
| 4 | aq;jym;- 2 | aq;jym;- 3 |
| 5 | aq;jym;- 1 + 3 | aq;jym;- 2 + 4 |
| 6 | aq;jym;- 1 + 4 | aq;jym;- 2 + 3 |
| 7 | aq;jym;- 1 + 2 | aq;jym;- 3 + 4 |
| 8 | aq;jym;- 2 + 3 | aq;jym;- 1 + 4 |
| 9 | aq;jym;- 2 + 4 | aq;jym;- 1 + 3 |

vufawBlaom tawltlull & a&lnlvipm xuluvmlydrs repfteni , f
tllmwf a&t Oga&mi befvmygu aq; Atsm; xlwf aq; ulefon; i jzpEllygon/ xblzpfygu
aq; Atxblloufqll&maq;jym; ul2 q xnlly t iksipufull vAm teni , bavolcscisjizi
vnlywrlaE\$apum tenjzphl tempponfrlt wlf t cslly&1 a&lnlvipm xuluvmrn/

4-4/ tenjzphapaomA&EshtenpponfapaomA&twf;folaq;xnlci
a&fc, Nydaom aq; twf; wlf yxrtqih&q; (1 rsl ol2 rsl) pplaygi f 10 jym;ul
tenjzphapaomaq;xnlA(trsf4)twf;folknlyg 'kw tqi h&q; (1 rsl ol2 rsl)
pplaygi f 5jym;ul tenpponfapaomaq;xnlA(trsf6)twf;folknlyg
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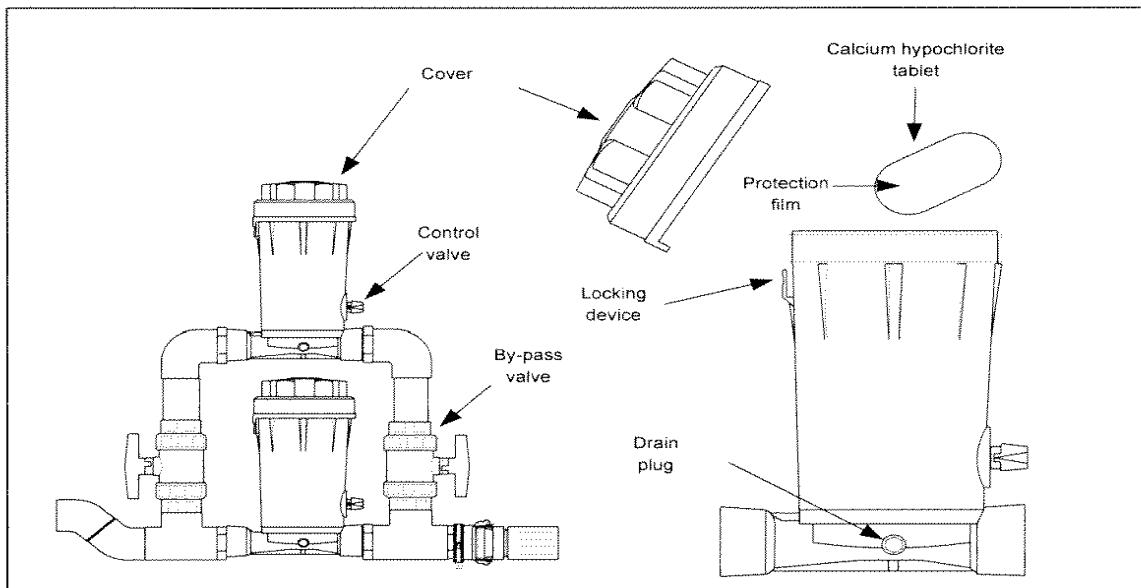
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yll 6 »

4-5/ uv&faq;xnfci

300 *&rft av;cetn u, vpl H luyuv&uf aq;w\ 3 wluuv&it
 aq;xnf\ (trwf18)\ tay:AtEf h atmuAf E&clitwifolknyg/ , ifA\tzlul
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yll 7 »

4-6/ t i f si E s y e l w y l q i f t o l y l c i f

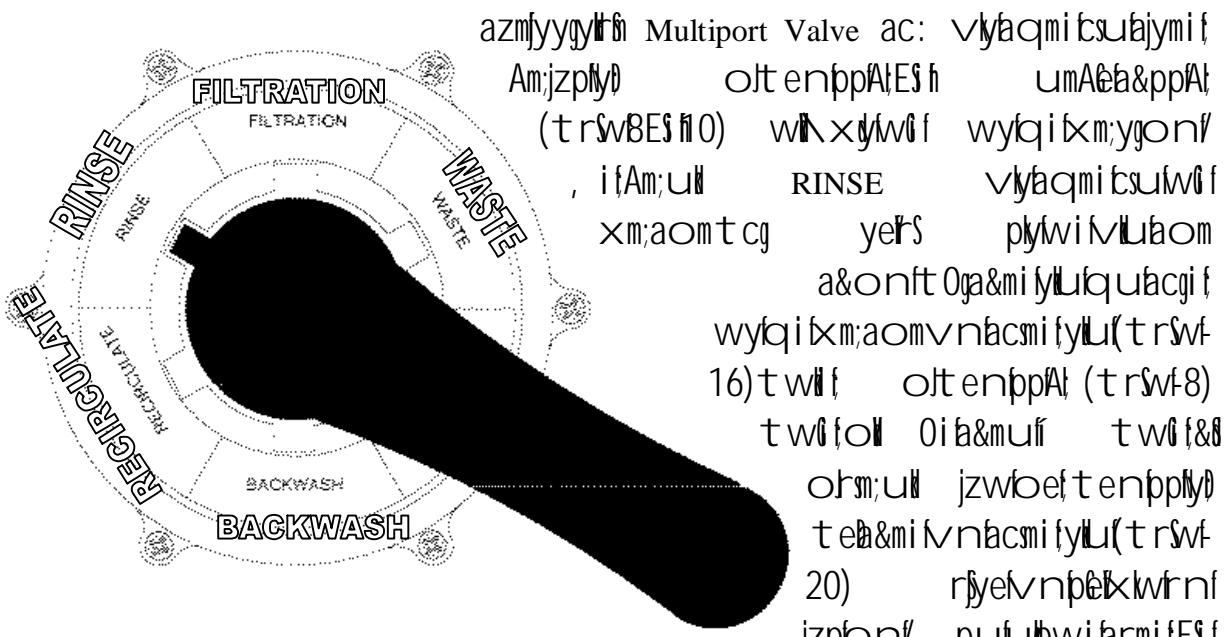
t i f si p u f a r m i f E s h t i f si D i f E s h ' l , f q l & f r & f p f a q ; l y l o i f a w m a o m
Level & f s p u f u l a r m i f E s y g / y e l l f i a & d & e f v l o m y e l z p a o m f v n f p w i f t o l y l & m w i f
Suction pipe (a & p l y l l) x b l l a & t j y n f z n l l r b m a r m i f E s y g /

5/ a & o e l x l w f l y l c i f

5-1/ j y i f q i f c i f ? p p f a q ; j c i f E s f p r f o y a r m i f E s f c i f

10ay & h f t e l & m i f y l l u f q u a c g i f w y l q i f x m ; a o m v n f a c m i f y l l (t r s w f 20) u l
o l t e n f p p A l \ t e l & m i f y l l u f q u a c g i f t o E s h q u l y l o l t e n f p p A l \ v l y a q m i f c s u f
a j y m i f A m ; u l R I N S E (a q ; a l l u m j c i f) v l y a q m i f c s u f w l f x m ; y g / t O g a & m i f y l l u f q u a c g i f
w y l q i f x m ; a o m v n f a c m i f y l l (t r s w f 16) \ t z l f t y l w A m ; o n f y l a e & r n f x b b l l v l f
p u E l & e f t o i f z p l y l o l l o m a t m u f g t c s u f s m ; u l x y l b p f a q ; y g /

- 1- aq ; x n A l (t r s w f 4 E s l) w l l f a q ; j y m ; r s m ; x n h l y l ^ r l y l
- 2- u v l l f a q ; x n A l (t r s w f 18) w l l f a q ; j y m ; r s m ; x n h l y l ^ r l y l
- 3- t i f si E s y w b o u h o m a q m i & l & e f s m ; (' l , l t i f si D i f l a & j z n l l e) l y l ^ r l y l
- 4- a e m u f w l m o f t a e t x m ; E s h t a j c t a e w n l l f t l & f r & l
- 5- v l l t y l o m a & E l w f a j r m i f s m ; a q m i & l u f l y l ^ r l y l
- 6- a & a v f i f t l w o w l s w f x m ; a o m t j r i h & f r & l
- 7- b l b l l f a c g i f o l l v l f x l u f v r l t q i f a j y r l & f r & l
t x u f g t c s u f s m ; E s f j y n f l y l u p u f w i f a r m i f E s f E l l y g y l



v l l p R I N S E a c : a q ; a l l u m j c i f v l y a q m i f c s u f s i f o p w i f a r m i f E s f & r n f

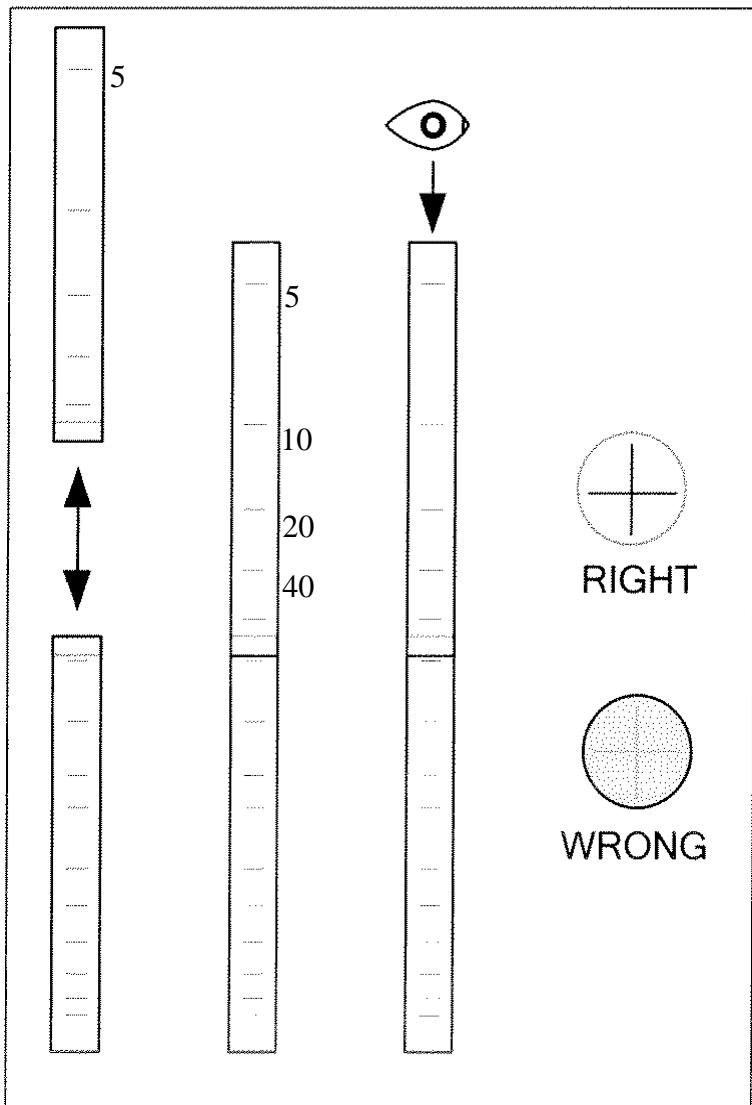
ykk 8 »

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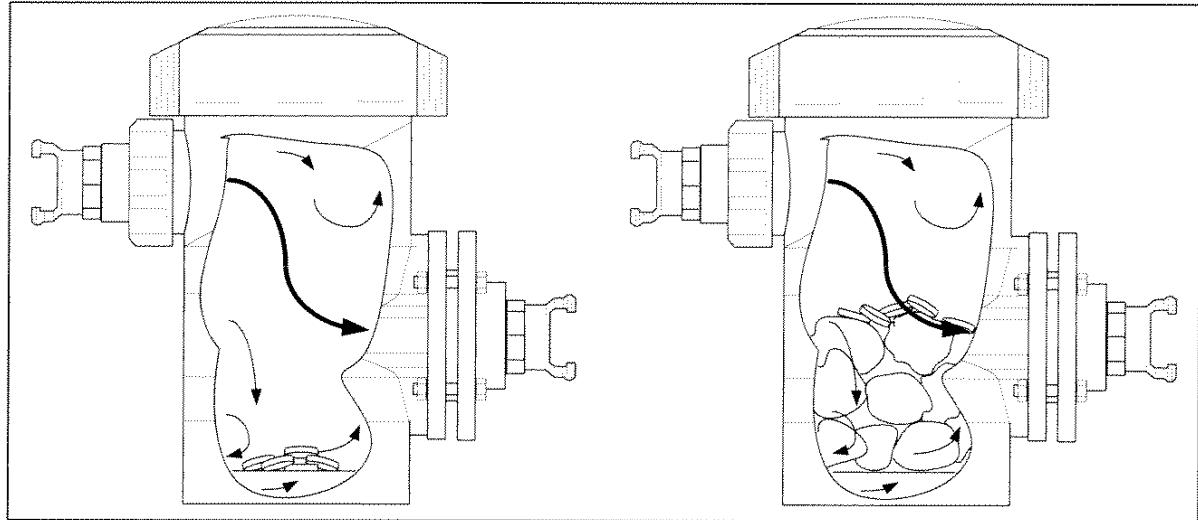
tu, ſi + trſwſtom; ul
munvi jywſom; pñrjri & ygu zefyef
twif& tenſi, þul munvi
jywſom; pñrjri & onft xl wajz; ajz;
ciſi foþyfyg/ a&a&muþeaom trſwſ
ulþwſyg/ (u) a&\aemufuſonſ
5Eſt 10Mum; & ygu t iſi NreEſtul
tenſi, þavñr a&aemufuſh
yrñP 5 a&muſonft xl avñcſyg/
a&aemufuſh yrmP 5 & ygu
a&oeLipwi xkwſ vlyEli ydy



VI《 9 》

(c) a&aemufuslonf 10 Esh 40 Mum; x&mu&eygu pufulyem; yg/ yxrenftaejzi h tenfzphapaomaq; Al Esh tenppn&apaomaq; Alrsm; twifol aq;jym; tenfi , pD (2 jym;? 3 jym;) xyfrkny; yD pufulyefvnlarmi fESy/ , ifolq; xyfrxnlMvif' kwI enf taejzi h at mu&gyt wif aq; Alrsm; twif& aq;jym; wA tjrifulljrsay; yg/ xbjrsay; ef pufulyf/ aq; Alrsm; \tzluz; yg/ aq;jym; xnlam jci tulkwif/ jci twi fr&q; jym; rsm;

ukklyfli) jci t wifoll ausmuflav;rs;ull trifi 1 vurEsh 2 vur tnum; a&muf atmiszny/ , i fausmufchm;tay:rsaq;jym;rs;ulljyefxny/ Nydaemufci fullaq;Alt wif jyef ae&mwusxny/ &mbmuifEs fit zhull aocmusepbyefwir pufulyevnarmi fEf Ellygon/



yk« 10 »

t xulygenfEbkteufs Ebouft qibajymenf (1) rshull tolyk pufulyevnf armi fEf yg/ armi fEf ny/ 5 ncpell tnumwif te&mi vnfacmifysu a&ukyntli l a&aemufustull ppfq;yg/ a&aemufustlyrmPul 5 &ap&eft wif t i*fisreEfefull xefnlyaqmi ly/ a&aemufustlyrmP 5 &yu a&oeulpwifxwlyElly/

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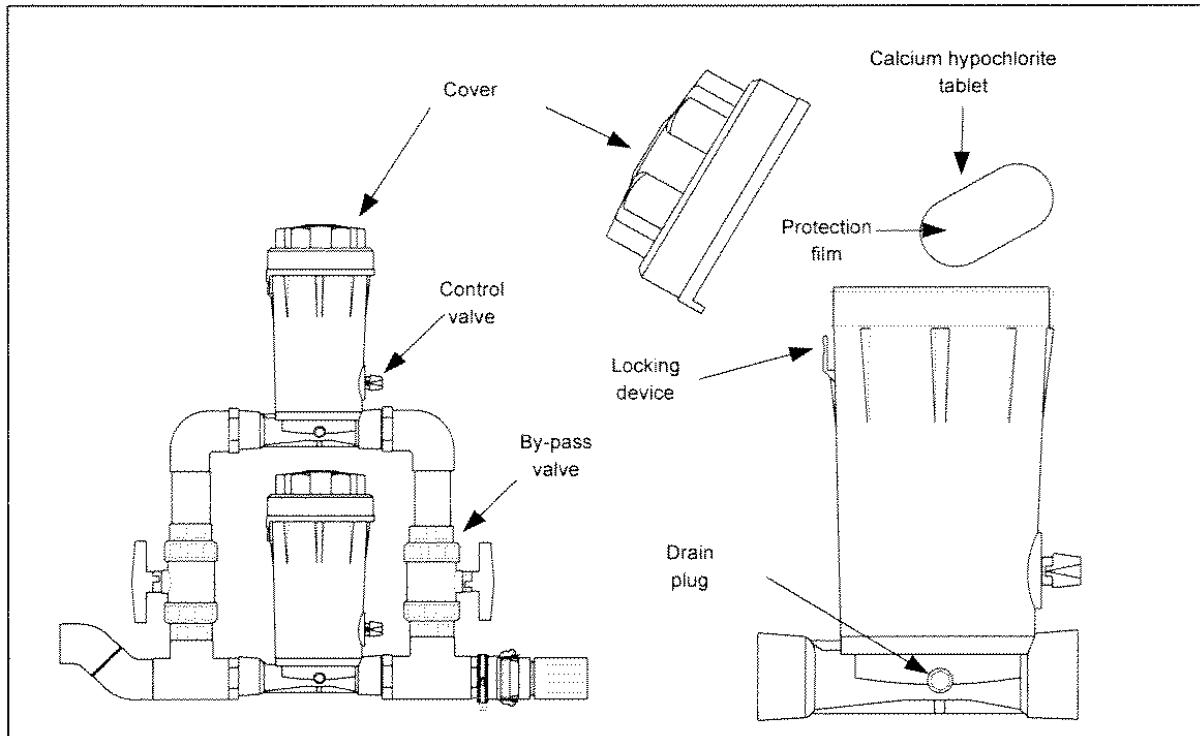
5-3/ a&oebwifxwlyfcif

t i*fisifull &yfy/ olt enppAf(trswf8)Es h umAef&ppAf(trswf10)wiftay:& Manometer ac: y&u&f*ifm;ull zw&ly/ y&u&f o trswfif jy&ygrn/ , i faemuf 4ifAtwif vlyaqmi ksuajymi fAm; 2 cmyll FILTRATION (a&ppfcif) vlyaqmi ksuwfif xm;yg/ t jymamif vnfacmifysu (trswf9) Es ha&avift wifull aocmphiqulog yg/ xqulog f rnif yluEsfyluqufacgi fwifull aocmphiobif ybif quibg yg/ t i*fisifusif Elly/ olt enppAf&f y&u&f*ifmif 0.3 rs0.5 bm; (0.3 rs0.5 bar) twif jy&ygrn/ umAef&ppAf&f y&u&f*ifmif 0.2 rs0.3 bm; (0.2 rs0.3 bar) twif jy&ygrn/ puarmifcifpif oebllyda&onf a&avift wifull pwidif a&mufaellyzpon/

, iſtajctaetwif rēpf 30cel tluumwif a&avfiſt wif txūſs a&uſ aemufuſt
prſoyluuny/ aemufuſt yrmP < 5 jzp&ygrn/ uvlifygifluvn/ ppaq;luuny/ u
uvliſt ygoiſt 0.5 Eſh 1.0 mg/l luu&grn/

5-4/ uvlifygifluuny/

uvliſt ygoiſt m;zi h 0.5 mg/l ywDefusi luu&grn/ , iſtymP&½ſef
twuſatmufyt wif cſqEſlyon/



yll« 11 »

ylfet m;zi h puſarmiſſ Eſpwif uvlifaq;Aſ (2) Aſvull Am;zü bkm;&ygrn/ oſhom
&&vmaom oeþiyl&\ uvlifymPon/ 1.0 mg/l xuſauſaeygu tay:Aloſ
toliAm; Eſh tay:Aloſ txuAm; By-pass valve (2) clvull ywyp&ygrn/ , iſaemuf
atmuſtwpAſwnfEſh uvliful cſqxnllyon/ uvlifitAſ (2)Aſpvwif uvlif
yrmPcſq oncvwf (Control valve) Aſ ab;wif yyllyon/ ylfet m;zi h (2)Aſpvwif
cvlwif elygwf 2 wif bkm;yon/ oſhom vltt ylov/ twitavsmlyay;ciſjzi h a&wif
ygoiſom uvlifymPul xefnelyon/ tu, ſi uvlifaq;Aſ (1)Aſ(atmuſt)
wntjzi h vluvmuſaomyrmP&½ſel ygu aemift cgrm;wif a&ply, Inſueſ rajymifrciſ
tay:Aloſlaq;xn&ſef rvluvmy/

5-5/ A1 Eſh Fe ygoiſt

, cþuſwif tolyonft enſpapaomaq;jym;2 rſm Aluminium aq;jym;(1) Eſh
Ferrous (Iron) aq;jym;(2) wif tajcylazmþybm;yon/ xluumifrlvroeþi&ao;aom
a&\ A1 Eſh Fe(Iron) ygoiſt yrmPul WHO (urfluſerma&t zl\ plheſEſh cſq
ppaq;yo/ Aluminium aq;jym;ul tolyygu aq;jym;\ "mwkt mebiſaluſi hoþiyl&wif

Aluminium y^goⁱ h^ry^mP y^hh^ji^hm; v^mrⁿf x^ht w^l Fe aq; jym; to^hly^gu o^epⁱ h^a&w^f
Fe (Iron) y^goⁱ h^ry^mP y^hh^ji^hm; v^mrⁿf x^hh^lumⁱ h^rv^oe^pi &ao; a^oma&w^f Al E^h Fe
y^goⁱ h^hl^lpr^oy^h rⁿb^on^h aq; jym; o^ol^o b^on^hu^lc^oq^h l^lg^on^h

5-6/ pH web^h (level)

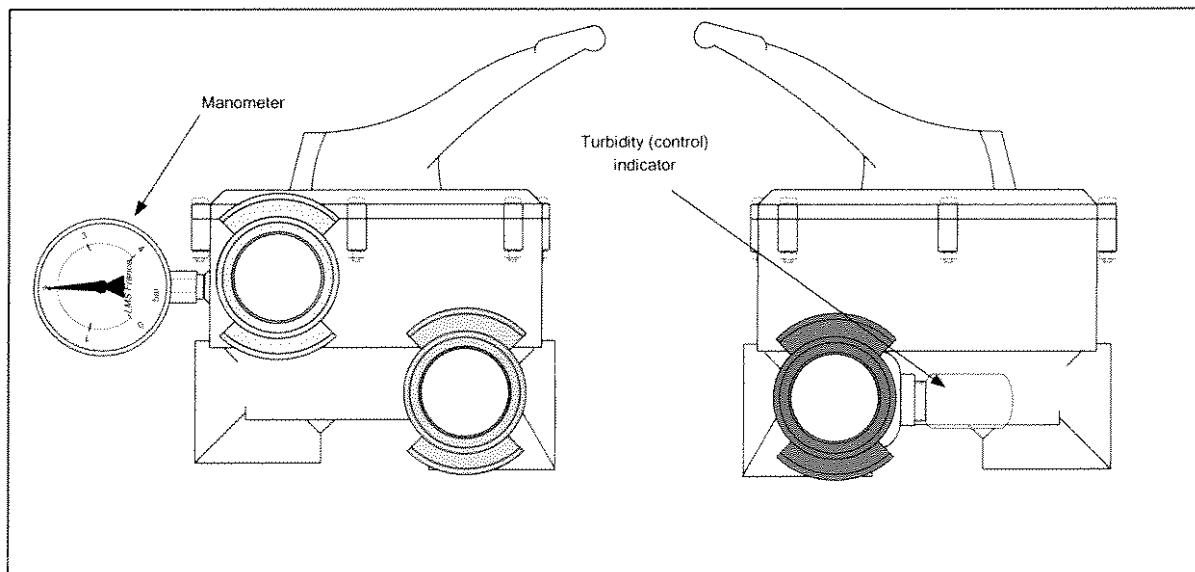
aq; jym; r^m; t^hly^lc^lh^lo^epⁱ h^a&\ pH web^h(Level)r^h r^hv^oe^pi h^h pH
web^hx u^hf y^hh^len^ho^hr^hn^hz^hp^on^h who (u^hh^luse^hfrma& t^z^h\ p^he^ht &^hh^lb^hon^hha&\ pH
web^hr^h 6. 5 r^h8. 5 t^hw^hfj^hz^hp^og^hon^h t^ha^hu^h f^hq^h pH web^hr^h 7 j^hz^hp^og^hon^h r^hv^hue^h
a&on^h pH web^hr^hi^hb^heygu aq; jym; r^m; u pH web^her^hpo^hzi h^ho^epⁱ h^a&\ pH web^h
on^h 6. 5 r^h8. 5 t^hw^hf^hab^hmi^h Di^hb^heygu t^hq^hi^hf^hyy^hg^hon^h r^hv^hue^h&\ pH web^her^hb^heygu
(Oyr^h 6. 5) aq; jym; r^m; t^hly^lc^lh^l pH web^hy^hh^lu^hso^hr^hn^hz^hp^of^h (Oyr^h 6. 3) pH
web^hab^hmi^h 0^hi^h f^haw^hmy^h/ x^hh^lumⁱ h^rva&\ pH web^hu^h0^hp^hw^h f^hw^hu^hn^hy^h pH web^h
6. 5 E^hat muft w^hu^hf^hpa&oe^hbu^hu^h t^hly^llo^hiy^h/

6/ olt en^hpp^hA^hu^hl^hye^hv^hn^haq; a^hl^hum^hci^h

o^epⁱ h^a&\ aemuf^hay: r^hwn^h pu^hu^hto^hly^lon^h t^he^hft w^hft w^hwp^hh^lum
v^hif olt en^hpp^hft w^hft &^hh^lom^h pp^h, l^hxa^hom^h t^hen^hz^hi^h y^hw^hq^hy^h olt en^hpp^hA^h
tay:&^hy^h&^h*w^hS w^hizn^hz^hn^h y^h&^hw^hri^h i^hy^hv^hm^hr^hn^hz^hp^on^h y^h&^h*w^hS we^hz^h 2. 0
bm; (2 bars) j^hy^hv^h f^hpu^hu^h10&y^hwe^h j^hye^hv^hn^haq; a^hl^hum^hci^h f^hy^hl^hob^h qu^huft o^hly^l&r^hn^h
j^hye^hv^hn^haq; a^hl^hum^hci^h f^hy^hl^ho^h t^hly^ll^hy^h/

y^hx^hrt q^hi^h j^hye^hv^hn^haq; a^hl^hum^h&eft w^hu^hf^h pu^hu^hly^ly^h/ olt en^hpp^hft hay:&^h v^hly^laq^hmi^h c^hu^hf^hu^h f^hx^h; y^h/ j^hye^hv^hn^haq;
a^hl^hum^h&eft w^hu^hf^h o^epⁱ h^a&(a&av^hfi^h ft w^hft w^hfr^h&) u^hb^h t^hly^l&r^hn^h a&av^hfi^h ft w^hrs
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ye^ht x^hl^hz^hu^h f^hu^h Am; y^hon^hit Oga&mi^h v^hn^hac^hmi^h f^hyu^h(t r^hSwf 16) z^hi^h qu^ho^h f^hy^h, i^hly^lu^h
t^hcm; wp^hz^hu^hbn^h olt en^hpp^hA^h\ t^hOga&mi^h f^hlu^hqu^hu^h f^he^h*h^h v^ht w^hft w^hy^hl^hu^hsub^h m;&r^hn^h/
, i^hfol^hly^lq^hi^h &ef t^hu^hft a^h0; r^hly^lgu t^hcm; y^hl^hu^hwp^hly^lu^h f^hoe^hs^h fa&j^hly^ly^h qu^ho^h f^hy^h
y^hon^h t^he^h &mi^h f^hu^h qu^hly^lq^hi^h f^hx^h; a^hom v^hn^hac^hmi^h f^hyu^h(t r^hSwf 20) u^h olt en^hpp^hA^h\
t^he^h &mi^h f^hu^hqu^hac^hgi f^hE^h f^hqu^ho^h f^hy^h, i^hfy^lu^hl^hsaq; a^hl^hum^hda&r^hm; x^hl^hu^hmr^hn^hz^hp^on^h/

, i^hfaemuf umA^hff&pp^hA^h\ v^hly^laq^hmi^h c^hu^hf^hu^h f^hq^ham^h f^hAm; u^h BACKWASH (j^hye^hv^hn^haq;
a^hl^hum^hci^h) v^hly^laq^hmi^h c^hu^hf^hu^h f^hx^h; y^h/ x^hhemuf t^hi^h f^hu^h E^h f^hu^h v^hAm^hu^hl^haj^hz; n^h f^hsp^h wi^h f^hay; y^h/
v^hAm^hu^hl^h qu^hly^lgu olt en^hpp^hA^h\ t^hw^hft &^h oE^h f^hit en^hsm; v^hly^l&v^hml^h wp^hft w^hft
at^hmu^hazm^h f^hyy^hg^h Turbidity (control) indicator ac: ze^hlav; t^hw^hft w^hft oE^h f^hit r^hfr^hsm;
y^hgv^hmr^hu^hl^h &r^hn^h x^hbl^h&my^hgv^hmv^hif ze^hlav; t^hw^hft w^hft o^hhy^lgv^hmap^h t^hen^hft r^hfr^hsm;
om y^hgv^hmat m^hif v^hAm^hu^hl^h j^hye^hft b^hly^lg^hy^h/



« 12 »

4if Turbidity (control) indicator ac:zeAav;twiwif tenfrerfsm;ulebof;yu
t i f si fu k y m u l y) ' kw t q i f a e j i h o l t e n p p A \ vlyaqmi tsuajymi fAm;u RINSE
vlyaqmi tsu wif x m; y / t i f si fu jyeE\ pu e l 30 cel armi fay; y / Nbaemuf yxrenfwi
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rva&oe k w v ly p o u t w i y l u l y e v n f q u b y / o l t e n p p A E s h umAef&ppA
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jyevnfaq;allum&ef a&oe t cuft c&bnit cg roebi &ao;onfa&uef&E s y i f
aq;allumjci t jyE\ ygon/ , i foluefa&E s h jyevnfaq;allumjci t jy k vif yxrtq i f z p o n h
vlyaqmi tsuajymi fAm;u BACKWASH vlyaqmi tsu wif x m; y / t enfz papaom aq;A
E s h t enppn fapaomaq;A w i s aq; x n f x m; a o m j c i f u l x w f , x m;NydrS jyevnfaq;allum
jci t jy k y / p t cuft s r useaomvlyaqmi tsu f m; r m a&oe E s h q;allump0fuE s h xywlyif
jzpbn/

' kw t q i f z p o n h vlyaqmi tsuajymi fAm;u RINSE vlyaqmi tsu wif x m; onft cg
w i f aq;Afrsm;twi fo l q; x n f x m; a o m j c i f r m; jyevnf x n b i f y d r S q u f u r a &oe E s h
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a&oe jyevnf xlwvlyfonft cg olt e n p p A t a y : & Manometer y&u&f * w f u n y g
e * H v y &u&f 2. 0 b m; r S o b m p h a v m u s o f ; o n f u l l a w & r n f /

7/ umAef&ppA t u jyevnfaq;allumjci t

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\ Manometer y&u&f * w f o n f 1. 5 b m; t x j y v myu pu f u t u b s i {&y l y / umAef&ppA
jyevnfaq;allumjci t aqmi &u &rn f /

a&oe~~ix~~kwlyaeonfitwif ylu~~rsm~~? aq;xn~~Arsm~~? a&mpyfu&d m~~rsm~~? Am;r~~m~~? vlyf
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 Am;ul BACKWASH vlyaqmi~~tsuafjym~~ fyy/ olt en~~pp~~~~A~~\ vlyaqmi~~tsuafjym~~ fAm;r~~m~~
 rlv twif FILTRATION üomqu~~lvu~~&leap&r~~n~~/ umA~~ef~~&pp~~A~~tay:& t~~e~~&mi
 ylu~~quacj~~ fo~~ll~~ t~~e~~&mi ylu~~quacj~~ fwy~~xm~~;aom vnacmi fylu~~qu~~y/ , i ylu~~rs~~
 aq;alluma&r~~m~~; xlu~~vrn~~r~~n~~/ olt en~~pp~~~~A~~ jye~~vn~~faq;allumou~~bl~~ t i~~*si~~ fu~~E~~ vAmul
 jzn~~f~~n~~f~~ p~~fw~~wi~~ly~~ umA~~ef~~&pp~~A~~& Turbidity (control) indicator ac: ze~~A~~av;t wif
 umA~~ef~~t re~~rsm~~;rygbj tenft re~~rsm~~;omygvmatmif vAmul c~~ef~~qí aq;allumy/ tenf
 tr~~rsm~~; ze~~A~~t wif uifpi b~~ll~~;vif jye~~vn~~faq;allumicif Ny~~dy~~ t i~~*si~~ fu~~ly~~y/
 umA~~ef~~&pp~~A~~\ vlyaqmi~~tsuafjym~~ fAm;ul FILTRATION vlyaqmi~~tsuafj~~ jye~~vn~~if
 a&ljymifí a&oe~~lye~~vn~~lx~~kwlybonfitcg umA~~ef~~&pp~~A~~
 ay:& Manometer y&u&*wull lln~~ly~~ e*lv y&u&* 1.5 bm;rs obmp~~fi~~ avsmus
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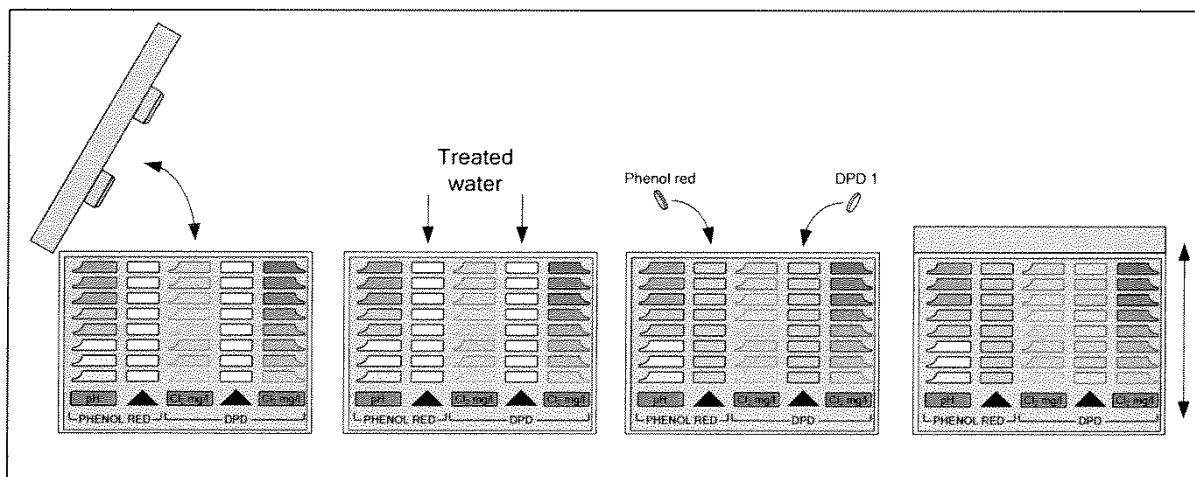
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- 1? uvli~~fygi~~ H (Cl₂)
- 2? tv~~re~~ rES h~~o~~gwf y~~gi~~ H (Al and Fe)
- 3? pH webo~~ll~~ (level)
- 4? a&aemufu~~ll~~ (Turbidity) - ponfw~~ll~~ppaq;wi~~fwmrswfom~~&r~~n~~

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 a&ul t~~jynfzny~~ Al\ b, bu~~scr~~ PHENOL RED [a& ;xm;aomtjc~~r~~& jzn~~fx~~m;aom
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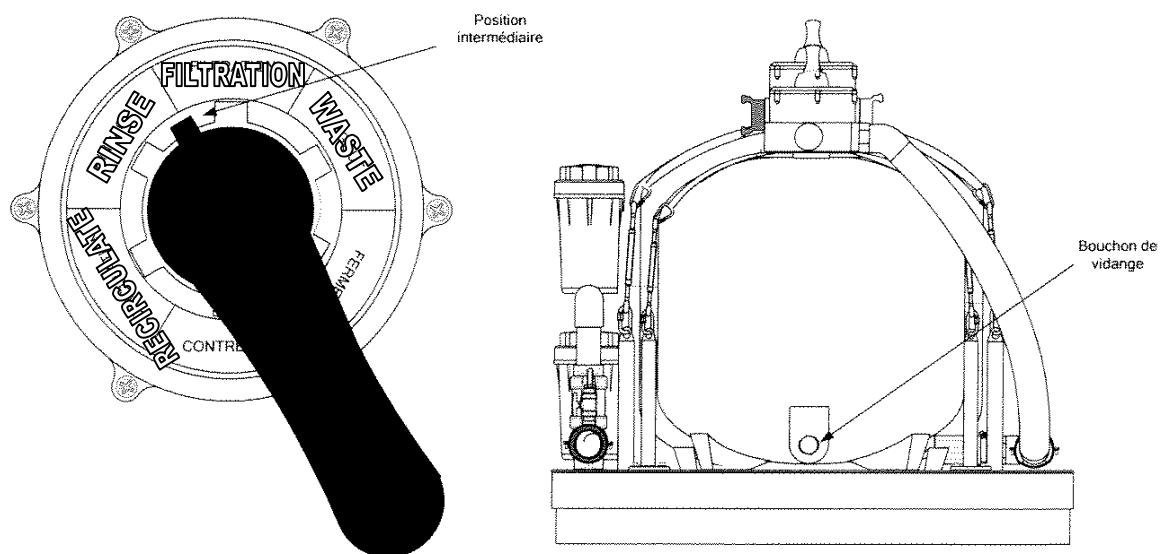


« 13 »

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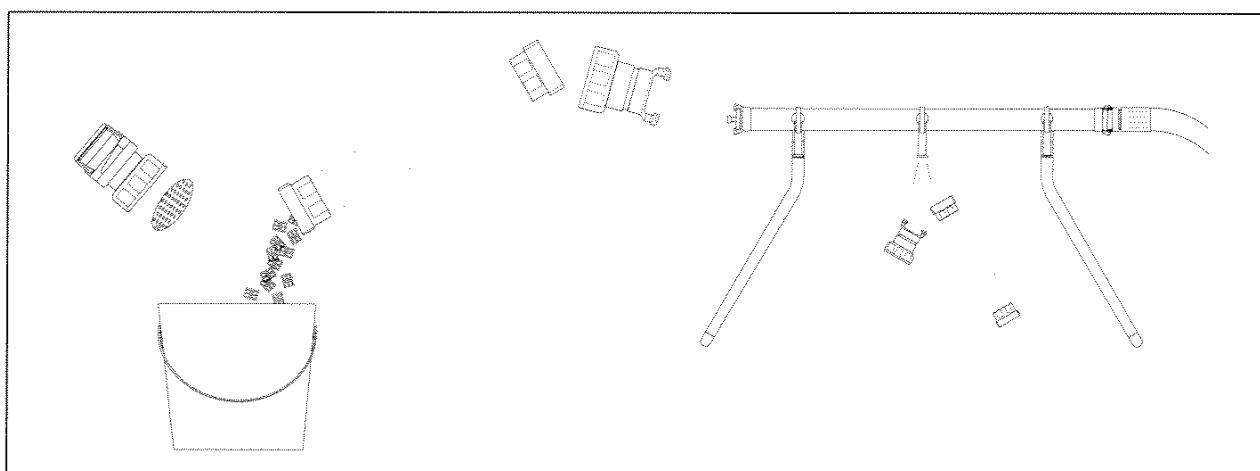
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« 14 »

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» 15 »

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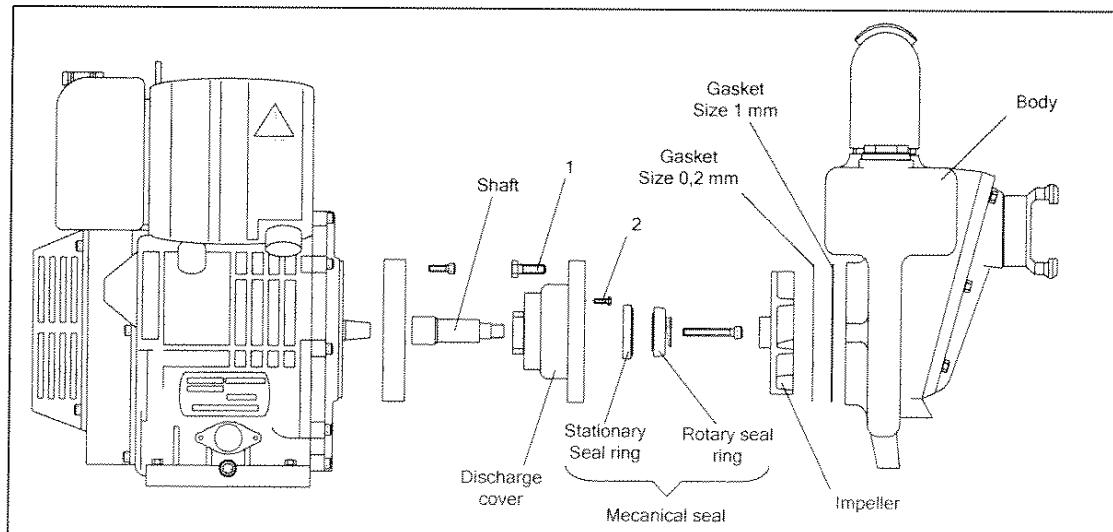
| Model | Maxi cty ¹⁾ m ³ /h | Diesel engine | Size L x l x H (m) | Weight ²⁾ kg |
|-------|---|-------------------|-----------------------|----------------------------|
| OX A1 | 15 | 6,8 HP – 3600 RPM | 2,6 x 1,35 x 1,55 | 1 200 |
| OX D1 | 20 | 6,8 HP – 3600 RPM | 2,6 x 1,35 x 1,55 | 1 400 |

¹⁾ Maximum capacity depending on the physico-chemical features of the water to treat (turbidity, color, PH...).

²⁾ Drained filters and units without optional accessories (supply ramps, water tanks...).

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- For the pump, this one doesn't have bearing (use of the engine bearing), the only wearing part is the mechanical seal. To replace it, to follow the following stages :
 - To loosen the four motor-pump body screws (Rep.1) thanks to a 17 open-end wrench.
 - To put off the gaskets (2 different thicknesses 0,2 mm and 1 mm).
 - To unscrew the impeller (anticlockwise).
 - To put off the rotary seal ring.
 - To put off the discharge cover by unscrewing the four screws (Rep.2) thanks to a 13 open-end wrench.
 - To get out the stationary seal ring.
 - To put in the new stationary part taking care to clean the place and to grease slightly the gasket with alimentary silicone grease (or with soapy water) without putting any grease on the friction side.
 - To put in the new rotary part by greasing the gasket (interior part) with the same grease that you used for the stationary part.
 - Caution: do not touch with the fingers and do not scratch the mechanical seal friction sides.
 - To put back the discharge cover by adding a drop of thread locker on each four screw thread (13 wrench).
 - To screw the impeller handly going over one or two compressive strength.
 - To put a 1 mm gasket on the discharge cover.
 - To add a 0,2 mm gasket.
 - To put the pump body and to fix it thanks to the four screws (17 wrench) and to tighten crosswise (to begin to screw in the following way : left, right, top, and bottom, then always in that way to tighten with equal strength the four screws without overtightening completely).
 - To try to run the engine very slowly thanks to the rope.
 - If there is no resistance (except the engine compression), the mechanical seals replacement is over.
 - If you hear a scraping noise between the impeller and the body pump, to strip down the body and to add a 0,2 mm gasket. To tighten again and check the lack of scraping (to proceed like this up to obtain the less space between the impeller and the body).



y « 16 »

11/ a&t &nft aoeS ywbuafom urm& t zNphfrsm;

Organoleptic parameters :

| Parameters | Units | WHO guide value |
|-----------------|---------------|-----------------|
| Colour | Mg/l platinum | 15 |
| Turbidity | Jackson unit | 5 |
| Smell - Flavour | - | - |

Parameters regarding undesirable matters :

| Parameters | Units | WHO value guide |
|-----------------------|---|-----------------|
| Nitrates | mg/l (NO ₃) | 50 |
| Nitrites | mg/l (NO ₂) | 3 |
| Ammonium | mg/l (NH ₄) | - |
| Hydrogen sulphide | µg/l (S) | 0,05 |
| Dissolved Hydrocarbon | µg/l | - |
| Phenols | µg/l (C ₆ H ₅ OH) | - |
| Iron | µg/l (Fe) | 300 |
| Manganese | µg/l (Mn) | 500 |
| Copper | mg/l (Cu) | 1 |
| Zinc | mg/l (Zn) | 3 |
| Phosphate | mg/l (P ₂ O ₅) | - |
| Fluorine | mg/l (F) | 1,5 |

Physico-chemical parameters

| Parameters | Units | WHO guide value |
|------------------|-------------------------|-----------------|
| Conductivity | µS/cm to 20°C | - |
| Temperature | °C | - |
| pH | Unit pH | 6,5 to 8,5 |
| Chlorides | mg/l (Cl) | 250 |
| Sulphates | mg/l (SO ₄) | 400 |
| Calcium | mg/l (Ca) | - |
| Magnesium | mg/l (Mg) | 50 |
| Sodium | mg/l (Na) | 150 |
| Potassium | mg/l (K) | 12 |
| Aluminium | mg/l (Al) | 0,2 |
| Dissolved Oxygen | Saturation % | - |
| Total hardness | °F | 50 |
| Dry residues | mg/l (to 180°C) | 1000 |

Parameters regarding toxic substances :

| Parameters | Units | WHO guide value |
|----------------|-----------|-----------------|
| Arsenic | µg/l (As) | 10 |
| Cadmium | µg/l (Cd) | 3 |
| Cyanides | µg/l (CN) | 70 |
| Total Chromium | µg/l (Cr) | 50 |
| Mercury | µg/l (Hg) | 1 |
| Nickel | µg/l (Ni) | 20 |
| Lead | µg/l (Pb) | 10 |
| Antimony | µg/l (Sb) | 5 |
| Selenium | mg/l (Se) | 10 |

Microbiological parameters

| Parameters | Units | WHO guide value |
|----------------------|------------|-----------------|
| Total Coliform | N / 100 ml | 0 |
| Faecal Coliform | N / 100 ml | 0 |
| Faecal Streptococcus | N / 100 ml | 0 |