



ISO 9001 Certified
JQA-2172

**GENERAL
GUIDANCE
2011**

**Flowmeter
Levelmeter**

Flowmeter
Levelmeter

TIV TOKYO KEISO CO., LTD.

7=@H > 62DF C6> 6? E 2? 5 4@? EC@=
 :? DECF > 6? ED

H ZUV gRcZ/j ` VW/h Z_dcaf ^ V_ed Rcd dVRUj e` dVagV WcgRcZ f d
 W/h ^ VRdf d/^ V_eRaa]ZReZ _dZ

7` JJ` h ZX RSSd/gReZ _d Rd/ Raa]ZRSJV` _ aRXV" e` ! WcW/h
 ^ VRdf d/^ V_eR_U T` _ec`] Z_dcaf ^ V_edZ

2aa]ZRSJV W ZJd

6i a] dZ _fac` W

(☰) +7` c]bf ZU dVagZVd

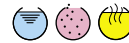
Exd +7]R^ Vac` WRgZRSJV

(☼) +7` cXRd dVagZVd

Exi +:_ecZ_dZTRJJ` dRW RgZRSJV

(☹) +7` cdéVR^ dVagZVd

2> dVcZ/d > Ver] Ef SV 7] h ^ Ve/cd



AM1000 series

AM7000 series



2> 1" %!
 = TR] ZUZReZ _



2> 1" \$!
 A_Vf^ ReZ` fæfe



2> 1" *!
 = TR] é dR]kReZ _
 Af]d` fæfe



2> 1" &#!
 6]VteZ` fæfe



2> 1" (%
 2]Rc^` fæfe



2> (!!!
 = TR] ZUZReZ _



2> (!!! ŽE
 6]VteZ` fæfe



2> (!!! ŽCŽ? Ž
 C +CWU dh ŽTY R]Rc^
 ? +Ac i Z` ž dh ŽTY R]Rc^
 E dR]kZX af]dV` fæfe > +> Žc dh ŽTY R]Rc^
 92CE



2> (!!! ž6ž9žA
 6 +6]VteZ` fæfe
 9 +6]VteZ` fæfe :92CE
 A +AC@7:3F D A2

> 1 dVcZ/d > Ver] Ef SV 7] h ^ Ve/cd #& ^ ^ gvcdZ _



F _ZUV U Z_dR]ReZ _]V_XeY+#&! ^ ^



?> 1 dVcZ/d
 6]VteZ` fæfe
 2]Rc^` fæfe

Exd Exi

?> 1 " =77
 dVcZ/d
 A72]Z ZX
 6]VteZ` fæfe
 2]Rc^` fæfe



?> 1 #!!!
 dVcZ/d
 6]VteZ` fæfe

Exd



> 1 1 %!
 = TR] ZUZReZ _

> 1 1
 6]VteZ` fæfe d:
 UZkZ] ZUZReZ _

Exd



> 1 1
 6]VteZ` fæfe

Exd



> 1 1 (!!
 2]Rc^` fæfe

Exd Exi

> dVcZ/d > Ver] Ef SV 7] h ^ Ve/cd



7` cé f XY Raa]ZReZ _d df TY Rd _f T]VR&YkY ad/ddf d/ XRd VerZ



> 1 \$!
 A_Vf^ ReZ` fæfe



> 1 %!
 = TR] ZUZReZ _

> 1 &!
 6]VteZ` fæfe

Exd



> 1 (!!
 2]Rc^` fæfe

Exd

Exi

> 2I*!! > I*!! dVc/d > Zc 7] h ^ Ve/cd

7`cRTTf dReV ^ VRdV dV^ V_e` Vd^ RJJ V] h dReV Rd] h Rd
! Z` e` ! Z=&=ZY Vbf ZJRJV_ee` h ReVz



> 2I*!!
= TRJ ZUZReZ _

> 2I*!&
2]Rc^` fæfe



> 2I*#!
6]VTæZ` fæfe

Exd



> I*!! = TRJ ZUZReZ _



> I*!! A_Vf^ ReZ` fæfe



> I*#! 6]VTæZ` fæfe

Exd



> I*!& 2]Rc^` fæfe

Exi



> I*!!
Photo-electric switch type
alarm output

24 dVc/d CVdZ_ 7] h ^ Ve/cd



24IE
> RUV` VWV` c` TRcS` _ dVdZ
2]Rc^` fæfe
DeR_URdU dZV` &^ e` #! ^ ^



24I
> RUV` VAG4
2]Rc^` fæfe



With alarm

GRz f d \Z Ud` VT` __ VTæZ` d df TY Rd EDLCT e/dVU R_U V]R_XVd RdV RgRZRS]Z
DeR_URdU dZVd RdV` & e` & ^ ^ Z

C dVc/d 8]Rdd Ef SV 7] h ^ Ve/cd



CI*!"

DdR_URdU g aV
GRz f d ZZX^ ReVzRj



CI*!"16

4`_gV_eZ`_R] g aV
=RcXV V] h dVcgZV



CI*!"&C<

AR_V] ^` f_eZ` X g aV
ERaVdU df SV UVeRTYRS]V



?6

NE series
Standard specifications



2I*!"

5ZVTeZUZReZ`
2]Rc^` fæfe



2I*!"#

2Dd dVc/d DJf c] 7] h ^ Ve/cd

D^` e` aReYLR_U YZY]j` RSdRdZ`_f dVdZRe_e



2DI*%!&

> VeR] ef SV
GRz f d` fæf ed RgRZRS]V

Exd

Exi



DI*!"#(&#

8]Rdd ef SV UZVTeZUZReZ`
2]Rc^` fæfe



2>I*!!!!DC

> VeR] ef SV
GRz f d` fæf ed RgRZRS]V

Exd

Exi



CI*!"IDC

8]Rdd ef SV
2]Rc^` fæfe

DC dVc/d DR_ZRg] 7] h ^ Ve/cd

Df ZRS]V WcW` U_R_U aYRc^` RTVf eTRj

A dVcZ/d Af cXV^ VeVcd

7Zxf dVd_ aRdV_eVdZi ^ VR_ T_ _VTaZ_ UzdeR_TV_Z_ ^ ^ SVeh W_ Z_VeR_U_` f eVz



At'!!
8V_VeR]afca`dV
i'"&^ ^/



At#!
8V_VeR]afca`dV
i#!! ^ ^/



At\$!
DeRZYej aV
i#!! ^ ^/



At%!
2]] DD ejaV
i#!! ^ ^/



At&"!
9ZY W'h ejaV
i#!! ^ ^/

0# 5VaV_UZ_X fa`_ eV
d/bf ZVU
daVTZReZ`_dt>` UV]
At&#! =h ZY gRjgV
^ RUJ` W'W' c` TRcS` _
dVZ` W]jd f` UVc
X` ^ Ud` GRjgVd` c
T` ^ a` _V_ei e'Ve' W
ZheU` Z` iZ! (` W'e h \$`
` W2aaV_UVU ERSJ` _
` W6i a` ce ERUV
4` _e']@dVcZ
4` _df]e f d WcUveRZdZ



At&#!^{0#}
^ RUJ` W'W'dZ
i'&! ^ ^/



At&\$!
4` ^ aRTe
ZYX W'h ejaV
i'&! ^ ^/



At&%
4` ^ aRTeR_U
h ZUV W'h cR_XV i#!! ^ ^/



At&&!
4` ^ aRTe
ZYX W'h ejaV i'&! ^ ^/



At' "!
CVdZ` ^ R'Ve
T` ^ aRtegejaV i' % ^ ^/



At' #!
CVdZ` ^ R'Ve
T` ^ aRteR_U
ZYX W'h ejaV i' (^ ^ ^/



At ("!
2]] W' c` TRcS` _
R_U T` ^ aRtegejaV
i' (^ ^ ^/



At) "!
= h]VR'RXVt
R_U WcV]Tae] e
a` ZYX i' % ^ ^/



At) #!
8V_VeR]afca`dV
i'"& ^ A#% ^ ^/



At) \$!
9VRd dVZeR_ejaV
i' (^ ^ ^/



At *! ! Z? A
8V_VeR]afca`dV
i'" % ^ ^/



At! &
=Zf ZJ dVcgZV
i#!! ^ ^/



At! '!
= eac UfTeZ` _ ejaV
i) % ^ ^/



I A
A]RdeT` ^ aRtegejaV
i) ! ^ ^/



JA
4` ^ aRtegejaV
i' ! ^ ^/

At ((! dVcZ/d 2]] 7]f` c` TRcS` _ Af cXV^ VeVcd



At (("
F]eRT]VR_ ejaV i) ! ^ ^/

0# 5VaV_UZ_X fa`_ eV
d/bf ZVU
daVTZReZ`_dt>` UV]A i' (#F
h ZY gRjgV W]jd f` UVcX` ^ Ud
` GRjgVd` cT` ^ a` _V_ei e'Ve' W
ZheU` Z` iZ! (` W'e h \$` W
2aaV_UVU ERSJ` _ ` W6i a` ce
ERUV 4` _e']@dVcZ 4` _df]e
f d WcUveRZdZ



At ((# 0#
F]eRT]VR_ ejaV i' & ^ ^/



At ((\$
F]eRT]VR_ ejaV i'" & ^ ^/



At ((%
F]eRT]VR_ ejaV i' ! ! ^ ^/

Af cXV^ VeVcd h ZY 2]Rc^ T` _eRTe

GRcZ f d dh ZYVd Rd/ RgRZRSJ WcR]Rc^ d+
CVWU dh ZYVd
@aeZT] R]Rc^ d

DW EVTY_ZT] 8f ZJR_TV WcUveRZdZ



At! '!
CVWU dh ZY



At! &!
CVWU dh ZY



At) \$"
CVWU dh ZY



At (("
@aeZT] R]Rc^

4A4C4> 42> dVcZ/d Af cXV Dved

<Wa_ZX T` _deR_eW'h VgV_h YV_ ac TVdd adVddf dV TYR_XVd



4At"#!"!!



4At#"! "!!



4At###!



4At\$#!&!



4C dVcZ/d



4> !#"! "!!



42> dVcZ/d

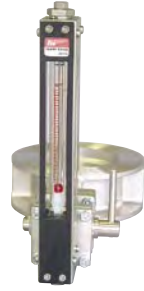
@Ł95E dVcZ/d 5ZMwV_eR] AcVddf dV 7] h ^ VeVcd



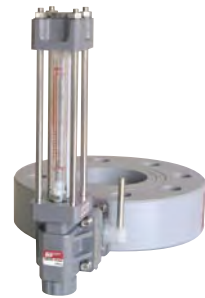
@")!
DTdh T`__VTæ`_



@")!
7R_XV T`__VTæ`_



@")!
H RWcT`__VTæ`_



@")!
H RWcT`__VTæ`_
iCZU gZ] JY] dUV



@!)!
2]Rc` fæfe g aV



@")!!
8]Rdd e SV g aV
2]Rc` fæfe



Exd
Exi

@")!!!
> VeR] e SV g aV
GRZ f d` fæfe d RgRZRS]V



95E"!!!
5ZÆR] Z_UZ]Re c
GRZ f d` fæfe d RgRZRS]V

G4G5G> dVcZ/d G4`_V
5ZMwV_eR] AcVddf dV 7] h ^ VeVcd



DY` æedæRZYef`_d

G> dVcZ/d
5ZÆR] Z_UZ]Re c
GRZ f d` fæfe d RgRZRS]V

H RWd 4`_V 5ZMwV_eR] AcVddf dV 7] h ^ VeVcd



DY` æedæRZYef`_d

G9 dVcZ/d
5ZMwV_eR]
a dVddf dV g aV

G?E dVcZ/d
5ZÆR] Z_UZ]Re`_
GRZ f d` fæfe d RgRZRS]V

G5E dVcZ/d
5ZÆR] Z_UZ]Re c
GRZ f d` fæfe d RgRZRS]V

GEH dVcZ/d
5Z]Te dV RUZ_X
2]Rc` fæfe

47H Ł45E dVcZ/d AÆ eEf SV 7] h ^ VeVcd



47H`#!
7Z VU g aV



47H`%!
7Z VU g aV



47H`#!!!
5VæRTYRS]V g aV
5` f SJV dTR]Vd



45E"!!!
5ZÆR] Z_UZ]Re c
7Z VU g aV

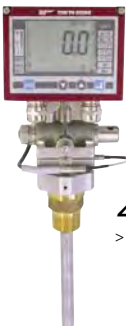


45E`%!
5ZÆR] Z_UZ]Re c
7Z VU g aV



45E`#!!!
@_V e fTY V]h
3Reæ]V g aV

45E\$!!! 4R] dV>`_Æ c



45E\$!!!
> f]æUZXÆR] Z_UZ]Re`_

4I Ł? 77 dVcZ/d 7] h DVeGR]gVd

<WVa_Z X T`_dæReV]h dæR VgV_h YV_eV a dVddf dV V]TæReVd Ref a dæVR`_`cU` h_dæVR`_Z



4I f`"!"
7Z VU V]h dVæZ_X
DeR_URdU URZ`&^^ e`%^^
7`c]æf Z]d



4I f`&!
7Z VU V]h dVæZ_X
DeR_URdU URZ`&^^ e`%^^
7`c]æf Z]d R_U XRddVd



4I f`#!!!
GRæRS]V V]h dVæZ_X
DeR_URdU URZ`&^^ e`"!!^^
7`c]æf Z]d



? 77]D dVcZ/d
7Z VU V]h dVæZ_X
DeR_URdU URZ`\$^^ e`%^^
7`c]æf Z]d

E7 dVcZ/d EYVc^ R] > Rdd 7] h ^ VeVcd 🍷



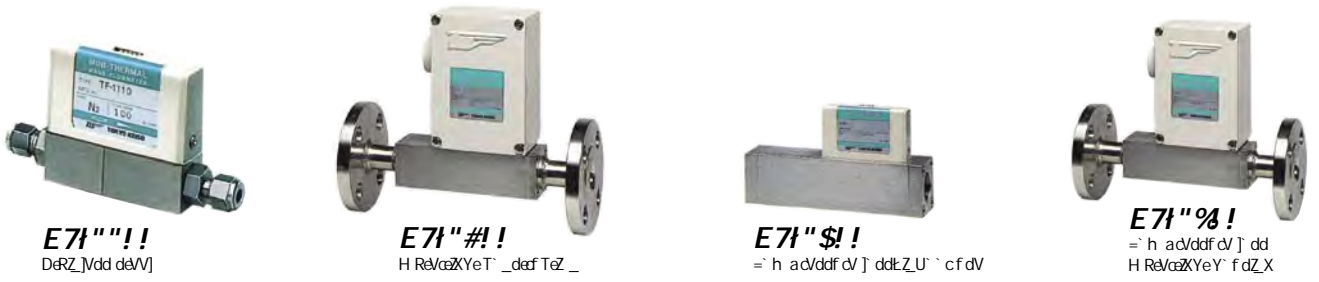
E7! !!!
D^ R]] d&V R_U]XyCh VZYe

E7! ! "5
D^ R]] d&V R_U]XyCh VZYe
h ZY Z_UZRe c

E7! ! "G
D^ R]] d&V R_U]XyCh VZYe
h ZY Z_UZRe c R_U gR]gV

E7! * !!
D^ R]] d&V R_U]XyCh VZYe

E7! ! ! ! A&D
A+A]RdZ
D+D&R_Z]dd d&V]

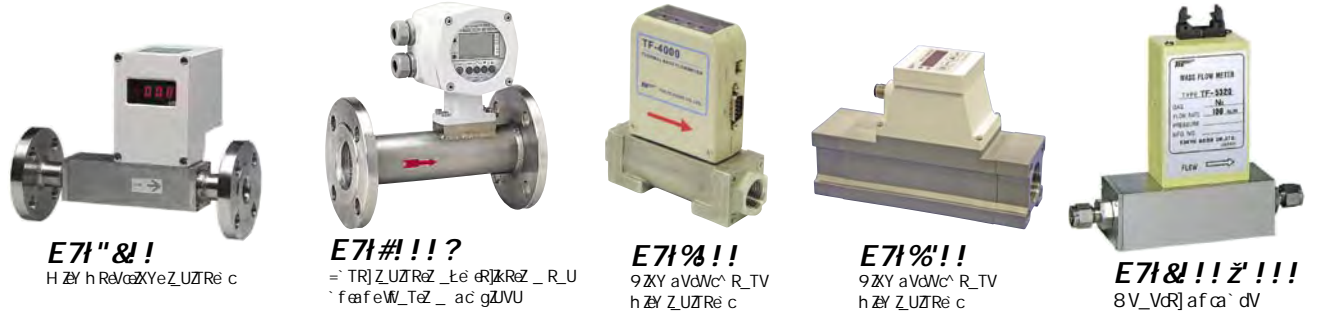


E7! ! ! !
DeRZ]dd d&V]

E7! ! # !
H R&RcaZYeT _daf TeZ _

E7! ! \$!
= h adVddf d/] ddtZ_U `cf dV

E7! ! % !
= h adVddf d/] dd
H R&RcaZYeY` f dZ_X



E7! ! & !
H ZY h R&RcaZYeZ_UZRe c

E7! ! # ! ! ?
= TR] Z_UZReZ _Le eR]kReZ _R_U
`f&feW_TeZ _ ac gZUVU

E7! ! % ! !
9ZY aVdVc^ R_TV
h ZY Z_UZRe c

E7! ! % ! !
9ZY aVdVc^ R_TV
h ZY Z_UZRe c

E7! ! & ! ! ! \$! ! !
8V_VcR]af ca` dV

E4 dVcZ/d > Rdd 7] h 4` _e^]Vcd 🍷

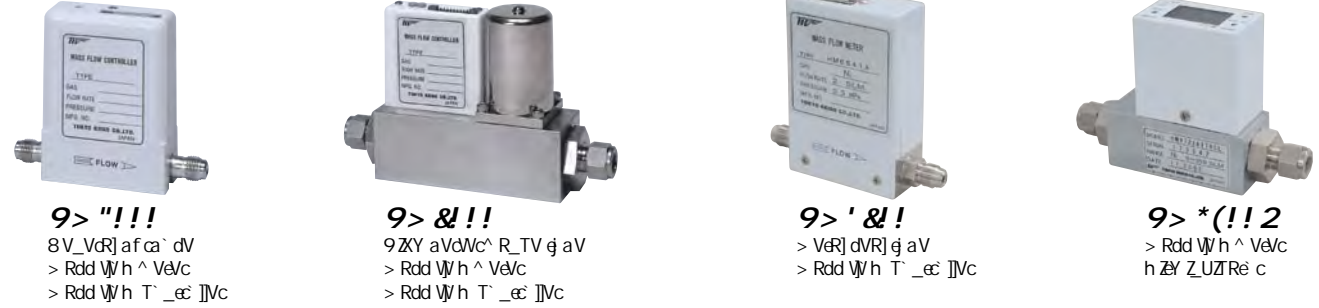


E4! ! ! ! \$ # ! !
8V_VcR]af ca` dV

E4! ! \$! !
9ZY W]h g]aV

9! 6AIE7! & ! ! \$ 6AIE4! ! ! !
7]R^ Vac` W] _daf TeZ _
7` cYZY adVddf d/dVgZV fa e` %Z > AR

9 > dVcZ/d > Rdd 7] h ^ VeVcZ4` _e^]Vcd 🍷



9 > ! ! !
8V_VcR]af ca` dV
> Rdd W]h ^ VeVc
> Rdd W]h T` _e^]Vc

9 > & ! !
9ZY aVdVc^ R_TV g]aV
> Rdd W]h ^ VeVc
> Rdd W]h T` _e^]Vc

9 > ' & !
> VeR] dVR] g]aV
> Rdd W]h T` _e^]Vc

9 > * (! ! 2
> Rdd W]h ^ VeVc
h ZY Z_UZRe c

E7ZE4 4` _gVcVcF _Zd

7] h Z_UZReZ _eR_R] X` f&fe eR]kVU W]h Z_UZReZ _eR_U e R]kZ_Xaf]dV` f&feW_TeZ _ac gZUVU



E > ! ! % !
7` cE4 dVcZ/d

E > ! ! # ! !
7` cE7 dVcZ/d

E9 dVcZ/d EYVc^ R] 7] h ^ VeVcd 🍷

5VeTè cđ



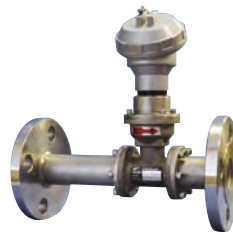
E9I"!!!
:_dVcZ _ g aV



E9I"#!
7]R_XV T _ VTcZ _



E9I"#!
GRcZRS]V Z_dVcZ _ g aV



E9I"(!
7]R_XV T _ VTcZ _



E9I")!!
3f Z_d dcaRXYeV_Vc g aV

9ZY bf R]Z gVcZ _ WcdV^ Z^ _Uf Tè cXRd]_VZ
6]VTcè a^]Z]Z_XeYVc^ VdeZ dVR]Z_XeR_U] h]NR]RXV



E9I"!!!19B
:_dVcZ _ g aV



E9I"&!!19B
:_]ZV g aV

H ZY W_VTeZ _ è adVgV_eUf de
W ^ RUYVcZ_X è dV_d cdVTeZ _



E9I"!!!1DAZE9I\$#!1DA
:_dVcZ _ g aV h ZY af cXV W_VTeZ _

9ZYZ=^ h èV^ aZgVcZ _



E9I\$!!!Z\$#!Z\$#!
2aa]ZRS]V W ^ e^* s e fl& s

DCE dVcZ/d EYVc^ R] 7] h ^ VeVcd

🍷



DCEI"!!!
:_dVcZ _ g aV
9ZY Uf cRSZ



DCEI"\$!!
7]R_XV T _ VTcZ _
9ZY Uf cRSZ

E9LDCE dVcZ/d 4` _gVcVcd



ECI I'!!!
%9ZY aVdVc^ R_TV
%2_R] X` fæfe
%Af]dV` fæfe
%5ZXR]` fæfeCDI%&
%EV^ aVdRef cV T ^ aV_dReZ _
%2]Rc^` fæfe
%Af cXV T _ cè]
%7Z]U g aV



ECI I'(!
%2_R] X` fæfe
%Af]dV` fæfe
%2]Rc^` fæfe
%5ZXR]` fæfeCDI%&
%EV^ aVdRef cV T ^ aV_dReZ _
%AcVddf cV T ^ aV_dReZ _



ECI I'!!!
%2_R] X` fæfe
%Af]dV` fæfe
%2]Rc^` fæfe
%5ZXR]` fæfeCDI%&
%EV^ aVdRef cV T ^ aV_dReZ _
%AcVddf cV T ^ aV_dReZ _

7PH > 6UOG > 6E: ? DDE > 6HD

> 28 > 2I 6]VTec ^ RX_VeZ 7] h ^ Ve/cd

4` ^ aRTegVcdZ _
A]RdeZ Y` fdZ_X



68 > "!!! 4
A72]ZVcfl
9Rde]] j 4` V]VTec UV
"! e` "& ^ ^

68 > %!!! 4
7]R_XV g aV
"! e` "!!! ^ ^

68 > &!!! 4
4VcR^ Z` efSV
#Z e` "!!! ^ ^

4` ^ aRTegVcdZ _
2]f ^ Z_f ^ R]] j Y` fdZ_X



68 > "\$! ! 4
A72]Z_X fl
9Rde]] j 4` V]VTec UV
"! e` "& ^ ^

68 > %\$! ! 4
7]R_XV g aV
"! e` "!!! ^ ^

68 > &\$! ! 4
4VcR^ Z` g aV
#Z e` "!!! ^ ^

5Ve/Te` cd R_U T` _gVcd/cd dVaRcRd/] Z` deR]] MU gVcdZ _
5Ve/Te` cd



68D"!!!
DeR_URd] g aV

68D%!!!
7]R_XV g aV

68D&!!!
4VcR^ Z` efSV

4` _gVcd/cd



684"!!! H
8V_VcR] af ca` dV



684\$! ! 7ZH
7]R]] WRef dU g aV

8V_VcR] af ca` dV Wch Rdc
A`]j ac` aj]V_VZ9Rd] of SSVc]Z_X



68 > #! ! 4



68 > # \$! ! 4

?` _T` _dRTeV]VTec UV g aV



68 > (\$! ! 4
4RaRTeR_TV UVe/TeZ` _ g aV
#& e` "!!! ^ ^

6]VTec ^ RX_VeZ 7] h ^ Ve/cWc7]Vc

9ZYI daWU SRefY dj deV`



68 > &&! ! 4
=Z` Yeh VZ` YeR_U T` ^ aRte
4VcR^ Z` ^ VRdf cZ_X ef SV RU` a dU
9ZY RTTF dRTJ

3ReVg] A` h Vc]U
6]VTec ^ RX_VeZ 7] h ^ Ve/cd



6E > \$! (! dVcZ/d
?` Vi e/c_R] a` h Vc]d/bf ZVU
> Rdd e R]Z_X W] h ^ Ve/c

> 2DD > 2I 4` cZ]d > Rdd 7] h ^ Ve/cd

**> 2DD > 2I
"!!! dVcZ/d**
8V_VcR] af ca` dV g aV



> > "\$! ! 4
DeRZ` Yedh Z` ef SV
2TTF dRTJ +=! Z` ` WVRUZ_X

**> 2DD > 2I
\$\$! ! dVcZ/d**
Df ZRS]V WcgVg] j h
W] h ^ VRdf d^ V_e



> > \$\$! ! 4
DZ_X]V ef SV
2TTF dRTJ +=! Z` ` WVRUZ_X

**> 2DD > 2I
(\$! ! dVcZ/d**
6Rd] UeRZ_X R_U
VRd] T]VR_Z_X



> > (\$! ! 4
DeRZ` Yedh Z_X]V ef SV
2TTF dRTJ +=! Z` ` WVRUZ_X

