

CdYfUhjcb UbX A U]bhYbUbW A Ubi U.
Gi V!G`UV 8 YdfYggi f]nUhjcb GmghYa
i 6 i]X]b[7
@W\ YYX A Ufhjb A]XX`Y F]j Yf 7 ca d`YI
& & 9 UghYfb 6 ci `Yj UfX
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Rtgr ctgf hqt<

Nqenj ggf O ctvkp Eqtr qtcvkp

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Vgvc Vgej . kpe0

Ugr vgo dgt 4235



O lej cgnO ctvkp. RI 0
Tgi kqpcnO cpci gt



Rgvgt COTlej . RGO
Rtlpekr cnGpi kpggt





H5 6 @ C: 7 CBH9 BHG fWc bhjbi YXL

5 DD9 B8 7 9 G

5 DD9 B8 5 5 5 G! 6 I = @ H 8 F 5 K = B; G

5 DD9 B8 6 6 6 GMGH9 A! 7 < 9 7 ? : C F A G

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Dwrf kpi E dcugo gpv k Hgdtwct{ 4234 *Vgvc Vgej . 4234c+ kpf kcvqf vlej rqtqgy gpg *VEG=cnq
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Vj g uwd/urcd f gr tguwtk ctkp u{uvgu ku f guki pgf vq o ckpckp c pgi cckxg r tguwtg qh 2023 kpej gu y cvgt eqnwo p *Y E+wpf gt vj g uwd/urcd kp vj g vcti gvctgc vq r tngxpvr qvgnknxcr qt o ki tcvkp vj cv eqwf chgev kpfqqt ck s wcrk{0 Vj ku o cpwcn rtqxf gu i wfcpeg hqt vj g uchg qr gtcvkp. o ckpvcpeg. cpf o qpkqtkpi qh vj g uwd/urcd f gr tguwtk ctkp u{uvgu 0Vj g o clqt eqo r qpgpw qh vj g u{uvgu . vj g tgs wkgf o ckpvcpeg hqt gcej r kgeg qh gs wkr o gpv. cpf kputwckpu qp u{uvgu uctwr. uj wf qy p. cpf qr gtcvkp ctg qwnkpgf kp vj g hmqy kpi ugevkpu 0 kputwckpu hqt o qpkqtkpi vj g u{uvgu vq o ckpckp | gtq qt o kpk cn XQE go kulkpu vq vj g dwkf kpi kvgtkqt cpf xgtkh{ uweeguuhw u{uvgu qr gtcvkp ctg cnq r tqxf gf 0Tghgt vq vj g rcvgu xgtukp qh vj g uwd/urcd f gr tguwtk ctkp cn



GYWjcb & GmghYa DfcWggYg UbX 7 ca dcbYbhg

&'% **GMGH9 A 8 9 G7 F -DH-C B**

&'%% **9I lfUWjcb GmghYa**

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UX/43/E. UX/45/E. UX/48/E. UX/49/E. UX/4:/E. UX/4;/E. UX/52/E. UX/53/E. UX/54/E.
UX/55/E. cpf UX/56/E *ugg F tcy kpi u I 3 cpf I 4 k Crr gpf kz C+0Vj g qtki kpcngztcevkqp y gmu
kpuvcmgf k O ctej 422: *UX/43/E cpf UX/45/E+ ctg eqppgevgf d{ r qn{xkp{n ej mtkf g *RXE+
r k kpi vq c vj tgg/kpej/fkco gvgf RXE j gcf gt cpf ngcf vq vj g o clp xcr qt/kphwgpv
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k vj g u{vgo ai rtqegu cpf kputwo gpvkvqp f kci tco *F tcy kpi I 6 k Crr gpf kz C+0 Cm y gm
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Uwd/urcd xcrqtu ctg gztcevgf wukpi qpg COGVGM¹ 907 jqtugr qy gt *J R+J R Tqvtqp¹
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Hckn/uchg uy ke j gu ctg kpuvcmgf qp vj g UUF U. vkgf kvq vj g eqpvtqnr cp gn cpf r tqi tco o gf kvq cp gli j vej cppgn cwq/f kcrgt0 Vj g hckn/uchg uy ke j gu uj wwf qy p vj g dny gt kp vj g gxgpv cp{ qh vj g hqmny kpi qeewtu<

j k j r tguwtg cvvj g ghmwgpvqh vj g dny gt

j k j vgo r gtcwtg cvvj g ghmwgpvqh vj g dny gt

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&'%& J Udcf HfYUra YbhGng hYa

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xkti kp. r gmgvk gf eqeqpw/uj gm ectdqp= vj g RR\ wkv ku hknf y kj 822 r qwpfu qh r qvcuukwo
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vtgcvo gpv cp{ tgo clkpi eqpf gpucvg kp vj g xcrqt utgcuv x

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&"& Ac]gh fY GYdUfUrcfg

C 52/i c m p p o q k u w t g u g r c t c v q t *I c u j q o q f g n I Z / ; 2 + k u k p u c m g f k o o g f k c v g n f f q y p u t g c o q h v j g x c r q t g z v t c e v k p o c p k h r f . d g h q t g v j g d n y g t . v q t g o q x g e q p f g p u c v g h t q o g z v t c e v g f x c r q t u 0 C u g e q p f k f g p v e c n o q k u w t g u g r c t c v q t k u k p u c m g f h q m y k p i v j g j g c v g z e j c p i g t v q t g o q x g g p v t c k p g f e q p f g p u c v g f t q r n g u . v j g t g d { t g f w e k p i v j g e j c p e g q h d q v x c r q t n k p g h q w k p i c p f v j g r q u a k d k v k q h u c w t c v k p i v j g I C E w p k u 0 C j k i j / r e x g n u y k e j k u k p u c m g f k p g e j w p k v c p f y k t g f v q v j g e q p v t q n r c p g n v q g p c d r g u j w f q y p q h v j g d n y g t k h g k j g t o q k u w t g u g r c t c v q t h k m u w r y k j e q p f g p u c v g 0 O q k u w t g u g r c t c v q t f g v k u c t g k p V c d r g 4 / 4 0

&"&" 6`ck Yf

C 907 J R C O G V G M T q t q p i t g i g p g t c v k x g d n y g t e c r c d r g q h c e j k g x k p i c u w e v k p h q y t c v g q h 4 4 2 u x p f c t f e w d k e h g g v r g t o k p w g *U E H O + c v 7 7 k p e j g u q h y c v g t e q n w o p *Y E + f t c y u u w d / u r c d x c r q t h t q o v j g g z v t c e v k p y g m u 0 V j g j g c f g t n k p g h t q o y g m u U X / 4 3 / E c p f U X / 4 5 / E e q p p g e w v q v j g u k / k p e j / f k o g v g t k p h w g p v n k p g h t q o y g m u U X / 4 8 / E . U X / 4 9 / E . U X / 4 : / E . U X / 4 ; / E . U X / 5 2 / E . U X / 5 3 / E . U X / 5 4 / E . U X / 5 5 / E . c p f U X / 5 6 / E . y j k e j e q p p g e v v q v j g x c e w w o u k f g q h v j g d n y g t 0 D n y g t f g v k u c t g k p V c d r g 4 / 4 0

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C 3 J R j g e v g z e j c p i g t *Z e j c p i g t . k p e 0 o q f g n C C / 4 7 2 + k u k p u c m g f k o o g f k c v g n f h q m y k p i v j g d n y g t v q t g f w e g v j g g h n w g p v v g o r g t c w t g *q h c p c k u t g c o h q y k p i c v 4 7 2 U E H O + h t q o c r r t q z k o c v g n f 4 2 2 a H v q c r r t q z k o c v g n f 3 4 7 a H 0 E q q n k p i v j g g z v t c e v g f x c r q t r t q v g e w v j g I C E w p k u h t q o v g o r g t c w t g u k p g z e g u u q h v j g t o c z k o w o *3 6 2 a H + v g o / r g t c w t g r k o k 0 C J c p f g o c r *q r r t k v g F ` v g j g c 4 g z e j c p r g t 0 &"&"

k g i k w p G v t w v j g

utgco ctg o qpkqtgf vj guko cvg y j gp vj g cf uqtr vkqp ecr cekv{ y kmdg gzeggf gf. uq ej cpi g/qw
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Vgxc Vgej y knej cpi g qwv j g ectdqp f two u wukpi vj g ngcf/rci o gvj qf y j gpgxgt 72' qt j k j gt
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Vj g I CE f two u ctg eqppgevgf y kj c pgqr tgp g/eqcvgf hkdgti r u u j qug vj cv eqppgevu vj vj g
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ej cpi g qwv j g ngcf I CE wpkvy j gp kputwvgf d{ vj g r tq lgevo cpci gt. hqmjy kpi vj gg





HUVY 8!8
A U'cf GrghYa 9ei Jda Ybh7 ca dcbYbh8 YHJ]g
6 i]X]b[7 Gi V!G'UV 8 YdfYggi f]nU]cb GrghYa
@W\ YYX A Ufhjb A]XX'Y F]j Yf 7 ca d'YI žA]XX'Y F]j YfžA UfmUbX
DU] Y %cZ'

9ei Jda Ybh	A Ubi ZWf fYf	Gi dd']Yf	A cXY	GdYVZ]WU]cb# gYhdc]bh	FYei JfYX a U]bhYbUbW
O qkuwtg ugr ctcvqtu	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. RC 3; 5: 2 Vgn<832/8; 4/787	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. RC 3; 5: 2 Vgn<832/8; 4/7872	I Z; 2	Ecr cek{< 52 i cm]pu Tcvgf]mq < 3.422 UEHO	<i>Every two weeks:</i> Ej gemhqt eqpf gpucvg cpf f tclp cu pgeguuct {0 Tghgt vq vj g y cvgt j cpf r]kpi r tqegf wtgu *Ugevkqp 50605-0 Ej gemwplvcpf uwtqwpf kpi r k kpi hqt r]cmu0 <i>Quarterly:</i> Ej gemo qkruwtg ugr ctcvqt hqt eqttqkqp cpf y gct0 Vguvj ki j /rgxgnuy ke] hqt r tqrgt qr gtcvkqp0
Dm]y gt	CO GVGMTqvtqp 849 Ncng Utggv M]pv. QJ 66462 Vgn<552/895/5674	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. RC 3; 5: 2 Vgn<832/8; 4/7872	FT: 7: C] 94Y	90]J R 682/Xqrv 5/rj cug 442 UEHO cv 77 k]ej gu Y E	<i>Every two weeks:</i> Ej gemcpf tgeqtf qr gtcvkpi vgo r gtcwgt0 <i>Quarterly:</i> K]ur gevi gpgtcneqpf k]qp qhdm]y gt cpf uwtqwpf kpi r k kpi hqt r]cmu0 O gcuwgt cpf tgeqtf co r gctci g ftcy0

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HUV Y 8!8
A U'cf GrghYa 9ei]da Ybh7 ca dcbYbh8 YHJ]g
6 i]X]b[7 Gi V!G'UV 8 YdfYggi f]nU]cb GrghYa
@W\ YYX A Uf]b A]XX'Y F]j Yf 7 ca d`YI žA]XX'Y F]j YfžA UfmUbX
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9ei]da Ybh	A Ubi ZWfi fYf	Gi dd`]Yf	AcXY	<input type="text"/>
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HUV'Y 8!
; U [YgžGk jHW YgžUbX A jgW`UbYci g 9ei jda Ybh-bZfa Ujcbž6i jXjb[7 Gi V!G'UV 8 YdfYggi f]nUjcb GngHya
@W\ YYX A Ufhj b A jXX'Y F j j Yf 7 ca d'YI žA jXX'Y F j j YfžA UfmiUbX
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9ei jda Ybh	A Ubi ZWfi fYf	Gi dd'jYf	AcXY	GdYVZjWUjcb# gYhdcjbh	F Yei jfYX a UjhbYbUbW
J ki j /r tguwtg uy kej	F y {gt kputwo gpvu O lej ki cp Ekf. R Vgn<43; /: 9; /: 222	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	3; 72R/4/4H	82 kpej gu Y E	<i>Quarterly</i> < Vguvhqt r tqr gt qr gtcvkqp0 Tgr rneg khpgeguact {0
Nqy /xcewwo uy kej	F y {gt kputwo gpvu O lej ki cp Ekf. R Vgn<43; /: 9; /: 222	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	3; 72/42/4H	320 kpej gu Y E	<i>Quarterly</i> < Vguvhqt r tqr gt qr gtcvkqp0 Kpur gevwdkpi vq gpuwtg pq hqwkpqi qt dtgcmj tqwi j u j cxg qeewtgf 0
Hqy o gvt	CO GVGMTqvtqp 97 Pqtj Utggv Ucwi gt vgu. P[34699 Vgn< 36/468/5623	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	772828	926572 UEHO	<i>Every two weeks:</i> Ej gemj cvhny i cwi g hcmu vq gtq y j gp u{ ugo ku qht0 Tgr rneg khpgeguact {0
Nxgnuy kej	F y {gt kputwo gpvu O lej ki cp Ekf. R Vgn<43; /: 9; /: 222	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	N8/GRD/D/U/ 5/2	52 i cmqpu	<i>Quarterly:</i> Vguvhqt r tqr gt qr gtcvkqp0 Tgo qxg uy kej htqo o qkruwtg ugr ctcvqt0 Engcp. tgr ckt. qt tgr rneg cu pggf gf 0
Xcewwo i cwi gu	F y {gt kputwo gpvu O lej ki cp Ekf. R Vgn<43; /: 9; /: 222	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	Xctkqwu	Xctkqwu	<i>Every two weeks:</i> Ej gemj cvxcewwo i cwi gu hcm vq gtq y j gp u{ ugo ku qht0 Tgr rneg khpgeguact {0
Rtguwtg i cwi gu	F y {gt kputwo gpvu O lej ki cp Ekf. R Vgn<43; /: 9; /: 222	L0G0I kuj q 682 Y guvI c{ Utggv Y guvEj guvgt. Rgpp03; 5: 2 Vgn<832/8; 4/7872	Xctkqwu	Xctkqwu	<i>Every two weeks:</i> Ej gemj cvr tguwtg i cwi g hcmu vq gtq y j gp u{ ugo ku qht0 Tgr rneg khpgeguact {0

HUV'Y 8!'

; U [YgžGk]HW YgžUbX A]gWV`UbYci g 9ei]da Ybh-bZfa U]cbž6 i]X]b[7 Gi V!G'UV 8 YdfYggi f]nU]cb GngHya
@W\ YYX A Ufh]b A]XX'YF]j Yf 7 ca d'YI žA]XX'YF]j YfžA Ufm]bX
DU Y & cZ'

9ei]da Ybh	A Ubi ZWfi fYf	Gi dd`Yf	AcXY	GdYWZ]WU]cb# gYhdc]bh	F Yei]fYX a U]bhYbUbWV
Ur kmr rrvhqt hqt RR\ wpku	Gci rg O cpwrcwtkpi Eqo r cp{ 4622 Ej ctrgu Utggv Y gmdwti . Y X 48292 Vgn<526/959/5393	I tclpi gt 4322 J clpgu Utggv Dcnko qtg. OF 43452 Vgn<632/456/23: 6 j wr <^y y y fl tclpi gt@eqo	38: : F 97 2	342/i cmyp ur km er eekf { 2 32.222/rd rcf ecr cekf O ggu WUGRC 62 EHT 486897 cpf UREE r rpu	c c8/i E

GYWjcb '
GmghYa CdYfUjcb



' '% **=B+H5 @CD9F5HCB**

Gz xcevkqp y gmu y kndg qr gp vq cmqy cr r tqzko cvgn(42 ucpf ctf ewdle hggvr gt o kpwg *UEHO + cktmqy gcej. hqt c eqo dlpgf hmqy tcvg qh 442 UEHO 0 Fcvc y km dg tgi wctn(gxcnvcvf vq f gvgto kpg khqr gtcvkqpcncf lwwo gpw ctg y cttcpvgf 0 Vcti gvgf qt r wugf qr gtcvkqpu ctg r qvgpvkcm(hgcukdrg cpf y kndg gxcnvcvf 0

' "& **9A9F; 9B7MCD9F5HCB 5B8 : 5=@G5: 9 : 95HI F9G**

' "&'% **Dck Yf : Uj' fY**

Vj g uwd/urcd f gr tguwtk(cvkqp u{uvg0 *UUF U+y kmuj wvf qy p eqo r rvgv(kp vj g gxgpvqh c r qy gt hckntg0 Vj g mqy /xcewwo uy kej y km crcto wr qp uj wvf qy p. cpf vj g cwq/fkrgt y km ecm vj g u{uvg0 qr gtcvqt0 Y j gp r qy gt vq vj g eqpvtqn r cpgn ku tguvtgf. vj g UUF U y km pqv cwqo cvkcm(tguvtvdgecwug qh vj g mqy /xcewwo crcto 0

' "&"& **: Uj!GUZY : YUhi fYg**

Hck/uchg hgcwtgu cpf lqt crcto u ctg r tqxkf gf y kj vj g UUF U vq uj wvf qy p vj g u{uvg0 kp vj g gxgpv qh c r qvgpvkcm(wpuchg eqpf kkp0 Vj g u{uvg0 ku y ktf vq uj wvf qy p hqt vj g crcto eqpf kkp0 rlvuf kp Vcdrg 5/30 Vj g UUF U cnq j cu c xcewwo /tgrkgh xcixg ugv vq cmqy ckt kpvq vj g dmry gt kh vj g xcewwo gzeggf u : 7 kpej gu y cvgt eqnwo p *Y E+0 Vj g mqy /xcewwo uy kej j cu c vko g fgr{ ugv ev l#v n 04 dx? j M q o# # j g

i kxgp c fguetr vkqp qh vj g ecwug*u+ cpf cevkqpu vcnrp vq cfftguu vj g eqpfkkqp cpf tguvctv vj g
u{uugo *cv ko gu qh j k j r tgekr kvkqp. vj g u{uugo o c{ pqv qr gtcvg wr vq y q fc{u wvkn y cvgt
rgxgm fgetgcug+0 Vj g UUFU cwq/fkcrgt ecp cnq dg ecngf d{ Vgvtc Vgej rgtuqppgn cv
665/732/36: 90Ecmkpi vj ku pwo dgt y km r tqxkf g vj g ucwuu qh cmto eqpfkkqpu. r qy gt. dcwgt{.
cpf uqwpf0

• " **GMGH9 A ACB-HCF-B;**

Vgvtc Vgej y km eqmgev o qpj n{ ckt uco r ngu htqo vj g kphwgpv vq vj g i tcpwrt cevkxcvgf/ectdqp

*I CB t kv tn 50y qrw eu tn 50y



' '(**bgdYWjcb cZJUdcf HfYUra Ybhl b]hg**

Vj g I CE cpf RR\ f two u y kmdg kpur gevfg hqt i gpgtcneqpf kkp. kpenw kpi r tqr gtn{ ugcrgf tlo u. wr qp f grkxgt{ vj y g ukv cpf dghqtg dgkpi r rcegf kvq ugtxleg0F co ci gf I CE cpf RR\ f two u y kmpqvdg r rcegf kvq ugtxleg=vj g{ y kmdg tgwtpgf vj y g xgpf qt0Vj g ur kmr rvhqt o hqt vj g RR\ f two u y km cnq dg kpur gevfg hqt i gpgtcneqpf kkp. kpenw kpi ceewo wrvfg rls wk r xgn *h cp{+ cpf ftckp ecr0

HVY

HUV'Y' !&
GmghYa A cb]rcf]b[UbX A U]bhYbUbW HUg_g
6 i]X]b[7 Gi V!GUV 8 YdfYggi f]nU]cb GmghYa
@W\ YYX A Uf]jb A]XX'Y F]j Yf 7 ca d'YI žA]XX'Y F]j YfžA Uf]mUbX
DU' Y & cZ&

Acbh`m
30 Eqmgevck uco r ngu ltqo vj g kphwgpvcpf ghwgpvqh vj g rgef I CE wkvcpf ltqo vj g ghwgpvqh vj g RR\ wkvwukpi qpg rksgt Uwo o c ¹ ecpkvgtu cpf uwdokvq VguCo gtlcc Ncdqtcvqtkgu. kpe0hqt xqrwkg qti cple eqo r qwpf *XQE+cpcn{uku d{ WUGRC O gjv qf VQ 370
40 Tgeqtf kpf wegf xcewwo cvvj tgg o qpkqt kpi r qlpw gcej kp vj g uqwj vti gv qpg cpf egpvcnvti gv qpg hqt c eqpvkpwqu 46/j qwt r gtlkf 0Tqvcv g o qpkqt kpi r qlpw o qpvj n{ co qpi vj g xcr qt o qpkqt kpi r qlpw *XO Ru+cvvj g qwgt gzvppvqh vj g kpf wegf xcewwo tcf kw0Ugvwr Fy {gt O ci pgugpug ¹ O U343 f khtgpvcn/r tguwtg vtcpuo kvgtu y kj 26207 kpej Y E tcpi g *ceewtce{ vq 2027 kpej gu Y E+cpf Fy {gt F Y /WUD r tqi tco o cdrg f cv/nqi i gtu ug v cvhxg/o kpwg uco r kpi tcvgu vq tgeqtf vj g kpf wegf xcewwo cvvj g ugrvegf XO Ru hqt 46 j qwtu0Eqmgev vj g gs vkr o gpv vj g hqmy kpi f c{0F qy pnycf cpf i trj vj g f cv hqt cpcn{uku cpf kpenwukpp kp u{ugv tgr qt w0

HUVY' !'
JUW i a ɁZi YbWY Acb]rcf]b[Ì JUdcf Acb]rcf]b[Dc]bŋg
6i]X]b[7 Gi V!g`UV 8 YdfYggi f]nU]cb GngŋYa
@W\ YYX AUf]b A]XXYF]j Yf 7 ca d`YI žA]XXYF]j YfžA UfŋUbX

Ya Y fYU	JUdcf YI fUW]j cb dc]bh	5ggcW]Uh YX j Udcf a cb]rcf] b[dc]bŋg	Acb]rcf]b[žYei YbWn	6UgYa Y bhUfYU	JUdcf YI fUW]j cb dc]bh	5ggcW]Uh YX j Udcf a cb]rcf] b[dc]bŋg	Acb]rcf]b[žYei YbWn
gpv	UX/43/E cpf UX/45/E	223/E/UX. UUF/5/E. UUF/6/E. UUF/4E. UUF/44/E. UUF/46/E. UUF/47/E. UUF/3/E	Dky ggm{ lo qp yj n{	O kf rg dcugo gpv ctgc	UX/52/E	357/E. 266/E. 365/E	Dky ggm{ lo qp yj n{

gpv

Dkw

Dkq 7t2/E
UUF/3/E

/E7t 2/

/E.

Dkwg
UUF/3/E

c2/E7t 2/ /E.
UUF/3/E

GYWjcb (
GmghYa GhUf hi d UbX
G\ i hXck b DfcWYXi f Yg

40 Ftckp cp{ eqpf gpcvg htqo vj g o qkwtg ugr ctvqtu. kh r tguvp0 Rww cm eqpf gpcvg kp c
rtqr gtn{ rdgrgf vcpur qtvdng eqpvkpgt0 Tghgt vq y cvgt j cpf rkp r tqegf wtgu kp
Ugevqp 506050

(" **G<I H8CKB DFC798I F9 : CF @CB; !H9FA D9F-C8G
fACF9 H<5B & <CI FGL**

30 Vwtp vj g J QC uy kej gu hqt vj g dmjy gt. j gev gzej cpi gt. cpf eqpvtqn r cpgn vq vj g QHH
r qukkqp0 Vwtp vj g y cm/o qwpvgf grgvtkecn f kaepppgev uy kej vq vj g QHH r qukkqp0
F kaepppgev vj g cwq/fkrgt r j qpg rkp cpf dcwgt {0

40 Ftckp cp{ eqpf gpcvg. kh r tguvp. htqo vj g o qkwtg ugr ctvqt0 Tghgt vq Ugevqp 50605 hqt
y cvgt j cpf rkp r tqegf wtgu0

50 Enqg cmxcrgu qp vj g gztcevqp r qkpv0

(" **G<I H8CKB DFC798I F9 : CF 9A9F; 9B7-9G**

30 Vwtp vj g eqpvtqn r cpgn J QC uy kej vq vj g QHH r qukkqp0 Vwtp vj g y cm/o qwpvgf grgvtkecn
f kaepppgev uy kej vq vj g QHH r qukkqp0

40 Ecm vj g Vgvc Vgej. Kpe0 *Vgvc Vgej + r tqlgev o cpci gt qt vj g rtqi tco o cpci gt kh vj g
r tqlgevo cpci gt ecppqvdg tgej gf 0E qpvcevgr r j qpg pwo dgtu ctg rkrgf kp Vcdng 3 qh vj g
rvguv xgtukqp qh vj g *Remediation Contingency/Emergency Response Plan for Sub-Slab
Depressurization Systems in Buildings A and C* *Vgvc Vgej. 4234d+. K vj g Vgvc Vgej
d c E e tuk% pg j g

GYW]cb)
Hfci V`Yg\ cch]b[



GYW]cb + F Ydcf h]b[

S wctvgn[cpf ugo kppwcn r tqi tguu tgr qtvu y km dg uwdo kwgf vq Nqenj ggf O ctvkp Eqtr qtcvkqp0
Vj gug tgr qtvu y kmkpenmf g<

o cuu/tgo qxcnf cvc hqt vj g o qpkqtkpi r gtlqf cpf ewo wrcvkxg o cuu/tgo qxcnf cvc vq f cvg
kpf kxf wngzvtcevkqp/r qlpvhqf b

x

x

GYWjcb , F YZYf YbWYg

30 Oct {mpf Fgr ctvo gpv qh yj g Gpxktqpo gpv *OFG+ 42290 Vgrgr j qpg eqo o wplecwkpp
dgwy ggp Ot0 Fcxg Owo o gtv qh Ckt S wcrkw{ Rgto ku ugewkpp cpf Vgwc Vgej. kpe0

5 DD9B8 L 5 I 5 G!6 I = @ H 8 F 5 K B; G

5 DD9B8 6Ì GMGH9A!7 <97? : CFAG

5DD9B8 71 A5H9F 5 @G5: 9HM85H5 G<99HG

2JQGMKOMKH 5JA\$^w

C'B' 6W' /*
-, + <ZNNV E'
EN_RLSTNa% C5 * , * - ,
CQWVN3 - * + ' 0 - * + ,) ; J'3 - * + ' 0 - * + / 0)

2I CMECJAS 8FKJC 7PI @CM.

0+ - ' 1 + 0 ' 1 * 1 *

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

; CA0GKJ) # 4C?H0F 4?T?MB 1?0? !#(')&' *%\$"

- 9aN[3 >ZRPJ\N _RQ _J\NZ RUUNMRJ\NTa' DNxNJ\ J[VNNMNM \W 0T] [Q XJZRLTN 0Z\U NaN' >0 RZRJ\RVV XNZ[R[\[% LWV[]T\ UNMRLJT XNZ[WVVNT'
- ESRV3 I J[Q _RQ [WJX JVM _J\NZ \W J^WRM [SRV MZaRVP WZ LOJXXRVP'
- >VPN[\RVV3 A(5
- >VOJTJRVV3 A(5

; CA0GKJ * # 9C?A0G0G0S 1?0? OKI L?0G@HG0S 1?0?

- EVJKRTRa3 5^WRM LWVJL\ _RQ [\ZVVP W^ RMRbRVP LONURLJT[% [] LQ J[WbWVN% XNZLQTWZRL JLRM% XNZUJVPJ\J\N% [WNR] U LQTWZRN% N\L' 9^ XW[] ZN \W QaMZWLJZKWW[JVM ^NPN\JKTN WRT[UJa LJ] [N [TW_ W^ RMJRVV] VRT RPVRRVV XWRV\ R[ZNJLQNM&&LWVJL\ [QW]TM KN J^WRMNM'
- >VLWUXJ\RKTRa3 E\ZVVP W^ RMRbRVP UJ\NZRJT['
- =JbJZMW] [8NLWUXW[\RVV CZWM] L[3 B^ aPNV [\J^NM LWUK] [\RVV UJa aRNTM LJZKWW U\WVW^ RMN'
- =JbJZMW] [CWTaUNZRbJRVV3 I RTI VW\ WLL]Z'

; CA0GKJ + # ; 0KM?EC 4?JBHGJE /JB =NC

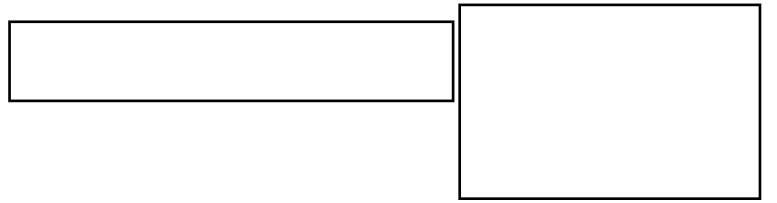
- 5LRVW FW FJSN ; WZ EXRT[3 EQW^NT JVM [_NNX UJ\NZRJT RVW JXXZWXZRJ\N LWVJRVNZ' >0 VNLN[[JZa _J[Q JZNJ _RQ _J\NZ'
- 8R[XW[JT @N\QWM3 DNJL\R^ JRVV% TJVMORTI WZ RVLRVNZJRVV% RV JLLWZMJVLN _RQ JXXTRLJKTN ZNP] TJRVV['

; CA0GKJ , # 8CMNKJJCH 8MK0CA0GKJ

- HNVRTJRVV3 ?WLT N^ QJ] [\ZNLWUUNVMNM URVRURbRVP M] [\ N^ XW[] ZN'
- DN[XRZJWZa CZWNLRVV3 5XXZW^NM !V]R[JVLN M] [\! M] [\ UJ[S[[QW]TM KN _WZV RV M] [\ N^ XW[] ZN JZNJ ['
- CZWNL\R^N 7TWQRVP3 CZWNL\R^N PTW^N[LJ\ KN _WZV'
- 9aN CZWNLRVV3 EJONa PTJ[[N[_RQ [RMN [QRNTM[[QW]TM KN _WZV JVM NaN _J[Q LJXJKRTR\N [[QW]TM KN J^JRIJKTN'

; CA0GKJ - # ; LCAG?H 8MCA?P0GKJN /JB /BBG0GKJ?H 5JDKMI ?0GKJ

CZNLJ]RVV[\W KN \JSNV RV QJVMTRVP JVM [WZJPN3 SNNX MZa4 _N\ LJZKWW _RT JM[WZK W^ aPNV JVM UJa ZNM] LN W^ aPNV TN^NT[RV LWVORVNM [XJLN[\W MJVPNZW] [TN^NT[' 5MNY] J\N ^NVRTJRVV JVM XZNLJ]RVV[[QW]TM KN NUXTWaNM _QNVN^NZ L[W[NM UJVS[% ZNLNXLJLTN[WZ WQNZ NVLW[NM [XJLN[LWVJRVVP LJZKWW JZN JLLN[[NM' E] [XNV[RVV[W0 M] [\ [QW]TM KN J^WRMNM JVM N^ XW[] ZN W0 [] [XNV[RVV[W0 M] [\ \W [W]ZLN[W0 RPVRRVV [QW]TM KN J^WRMNM'



SECTION 4 - REACTIVITY HAZARD DATA

STABILITY

- Stable
 Unstable

Conditions
To Avoid

Incompatibility
(Materials to Avoid)

Hazardous
Decomposition Products

HAZARDOUS POLYMERIZATION

- May Occur
 Will Not Occur

Conditions
To Avoid

SECTION 5 - HEALTH HAZARD DATA

**PRIMARY ROUTES
OF ENTRY**

- Inhalation
 Skin Absorption

- Ingestion
 Not Hazardous

- NTP
 IARC Monograph

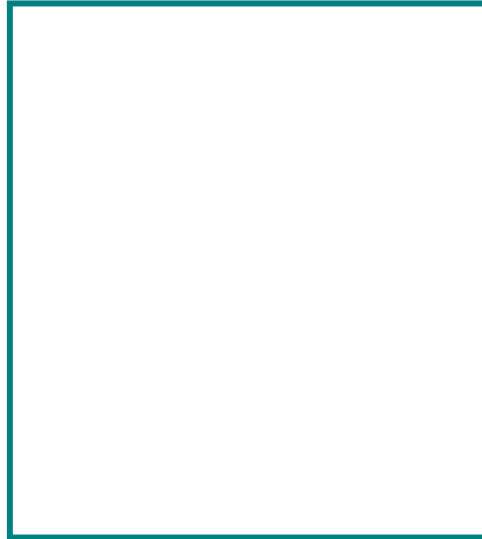
- OSHA
 Not Listed

HEALTH HAZARDS

Signs and Symptoms



460 West Gay Street
West Chester, PA 19380



Tetra Tech Geo

51 Franklin Street
Suite 400
Annapolis, MD 21401

Operation and Maintenance Manual

Anna8 dP9999ne n407 t 000042il 0 1070VRVda5A0VRVd 1062 0o

Description **Date** **Revision**

Item	Qty.	Supplier	Description	Part Number	Misc ID	Weight
1	1	Ametek Rotron	Regenerative Blower	DR858AY72W		38738
2	1	Gasho	Base Weldment			
3	1	Solberg Mfg.	3" Inline filter			

REV. DATE DESCRIPTION

DIMEN
SCALE

TOLERANCE

MATERIAL

ANGULAR TOLERANCE

WEIGHT

SHEET

OF



Industrial / Chemical Processing Blowers

DR 858 & CP 858

7.5 / 10.0 HP Regenerative Blower

ROTRON°



**SERVICE AND PARTS MANUAL
FOR
BLOWER MODEL**

DR6, 858, 909, 979, 14

**DIRECT DRIVE REGENERATIVE
BLOWER**



Your Choice. Our Commitment.™

**WARRANTY, INSTALLATION, MAINTENANCE AND
TROUBLESHOOTING INSTRUCTIONS**



imbalance greatly speeds bearing wear, thus reducing blower life. Disassembling the blower will void warranty, so contact the factory for cleaning authorization.

3. **Support the Piping** - The blower flanges and nozzles are designed as connection points only and are not designed to be support members.

Caution: Plastic piping should not be used on blowers larger than 1 HP that are operating near their maximum pressure or suction point. Blower housing and nearby piping temperatures can exceed 200°F. Access by personnel to the blower or nearby piping should be limited, guarded, or marked, to prevent danger of burns.

4. **Wiring** - Blowers must be wired and protected/fused in accordance with local and national electrical codes. All blowers must be grounded to prevent electrical shock. Slo-Blo or time delay fuses should be used to bypass the first second of start-up amperage.
5. **Pressure/Suction Maximums** - The maximum pressure and/or suction listed on the model label should not be exceeded. This can be monitored by means of a pressure or suction gage (available from Rotron), installed in the piping at the blower outlet or inlet. Also, if problems do arise, the

- 6) Remove the housing bolts and remove the motor assembly (arbor/housing on remote drive models).
- 7) Arbor disassembly (Applicable on remote drive models only):
 - a) Slide the bearing retraining sleeve off the shaft at the blower end.
 - b) Remove the four (4) screws and the bearing retaining plate from the blower end.
 - c) Lift the shaft assembly far enough out of the arbor to allow removal of the blower end snap ring.
 - d) Remove the shaft assembly from the arbor.

Impeller Shimming Procedure:

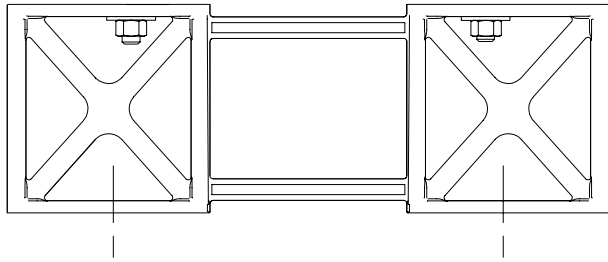
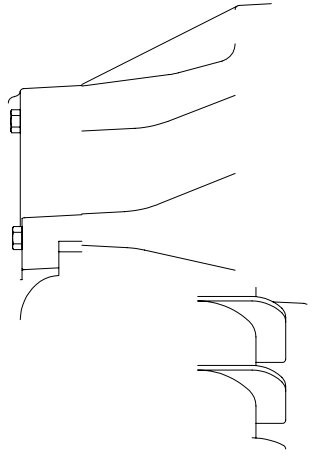
A. 1Ø, 6 WIRE

115 VAC

230 VAC

1		1	LINE
3	LINE	2	
5		3	
2		5	
4	LINE	4	LINE
8		8	

INTERCHANGE LEADWIRES 5 & 8 to REVERSE ROTATION





B24	4	Lockwasher Rail	251787	251787	Not Used	251787	Not Used	251787	See Next Page	251788
	8	Washer Rail/Motor	Not Used	Not Used	Not Used	See Next Page	Not Used	155091	See Next Page	Not Used
B25	4	Nut, Rail	251789	251789	Not Used	251789	Not Used	251789	See Next Page	155070
B26	2	Rail Mounting	478338	595301	Not Used	See Next Page	Not Used	595301	See Next Page	551658

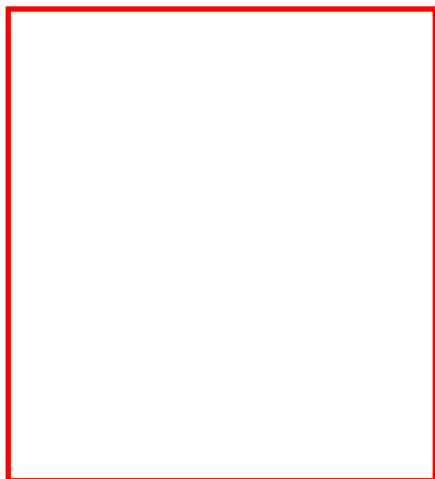
Model	Part #	Motor	Wiring Diagram	Specific Parts	Bearing, Rear (M1)	Bearing, Impeller End (M2)			
DR6D89	027578	500291	C	Elbow - not used	510217	510218			
DR6D86	027579	500292	G						
DR6K72	027600	500293	C						
DR6D5	036212	510459	A	Elbow - (1 pc) 120153					
HiE6D89	038071	529325	C						
DR858AY72W	038738	511570	C						
DR858AY86W	080172	515568	G						
DR858AY86X	080173	515568	G						
DR858BB72W	038740	511571	C						
DR858BB86W	038742	515567	G						
HiE858BB72W	038743	529600	C						
DR858BB72X	038735	511571	C						
DR858AY72X	038736	511570	C						
DR858BB86X	038737	515567	G						
DR909BE72W	038620	511572	C				B23 (4 pcs) 140016 (16 pcs) 155091 B26 (2 pcs) 595301		
DR909BB72W	038621	511571	C						
DR909BE86W	038625	511601	G						
DR909BB86W	080300	515567	G						
HiE909BE72W	038633	529601	C				B23 (4 pcs) 120256 (8 pcs) 155091 B26 (2 pcs) 516242	516840	516844
DR909BE72X	038622	511572	C						
DR909BB72X	038623	511571	C						
DR909BE86X	038626	511601	G						
DR909BB86X	080183	515567	G						
DR909BE72W	081737	511572	C						
DR909BB72W	081738	511571	C						
DR909BE86W	081739	511601	G						
DR909BB86W	081744	515567	G						
DR979BE86W	080702	551605	G	B4 = 551383, B15 = 140019 B19A = Not used, B23 = 155095, B26 = 595301 B24 = (4pcs) 251787 & (8 pcs) 155091, B25 =595301, B20 = 551422					
DR979BE72W	080704	551604	C						
DR979BE72W	080632	551603	C						
DR979BH72W	080718	551635	C	B4 = 551560 B15 = Not used B19A = 155070, B23 = 120256 B26 = 551658 B24= (4 pcs) 251788 & (8 pcs) 120211, (8) 155091, B20 = 551422 B25 = 155070					
DR14DW72MW	038750	516096	C		516844	516846			
DR14DW86MW	038751	516097	G						
DR14BH72MW	038752	510463	C		516842	516844			
DR14BH86MW	038753	511511	G						

Model	Part #	Motor	Wiring Diagram	Specific Parts			Bearing, Rear (M1)		Bearing, Impeller End (M2)	
DR14DT72MW	080451	551037	C				516844		516846	
DR14DT86MW	080612	516100	G							
HiE14DW72MW	038759	529603	C							

32	2	Flange	529912	529912		2	Lockwasher, Motor/Muffler	Not Used
33	6	Flange bolts	140016	140016		2	Washer, Motor/Muffler	Not Used
34		Flange Cap.	Not used	Not used	B23	4	Bolt, Rail	155025
35		Not used	Not used	Not used	B24	4	Lockwasher Rail	251788
36		Nameplate- Blower	Not used	Not used		8	Washer Rail/Motor	Not Used
37		Rotation Sticker	Not used	Not used	B25	4	Nut, Rail	155070
38		Not used	Not used	Not used	B26	2	Rail Mounting	551658
39								
40								
41								
42								

Model	Part #	Motor	Wiring Diagram	Specific Parts	Bearing, Rear (M1)	Bearing, Impeller End (M2)
DR14DW72MW	081476	516096	C		516844	516846
DR14DW86MW	081479	516097	G			
DR14BH72MW	081480	510463	C		516842	516844
DR14BH86MW	081481	511511	G			
DR14DT72MW	081483	551037	C		516844	516846
DR14DT86MW	081484	516100	G			
HiE14DW72MW	081497	529603	C			

>

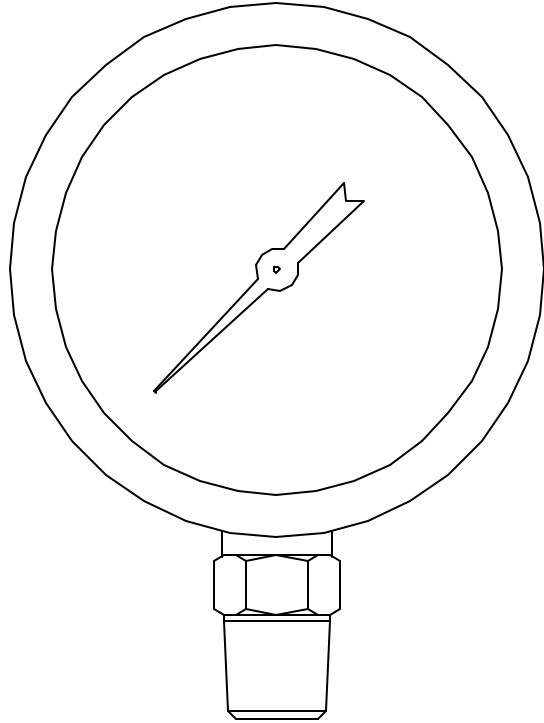
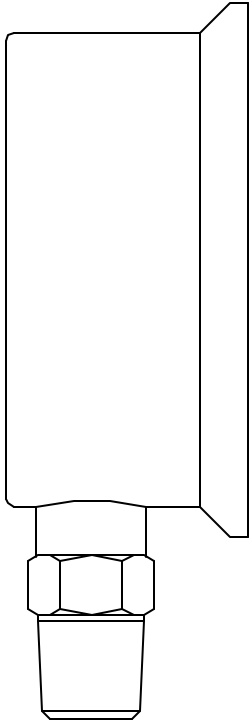




IPC's 64 series brass ball valves comply with the latest



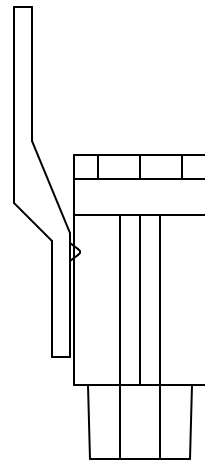
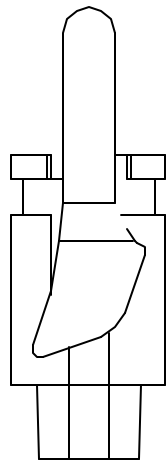




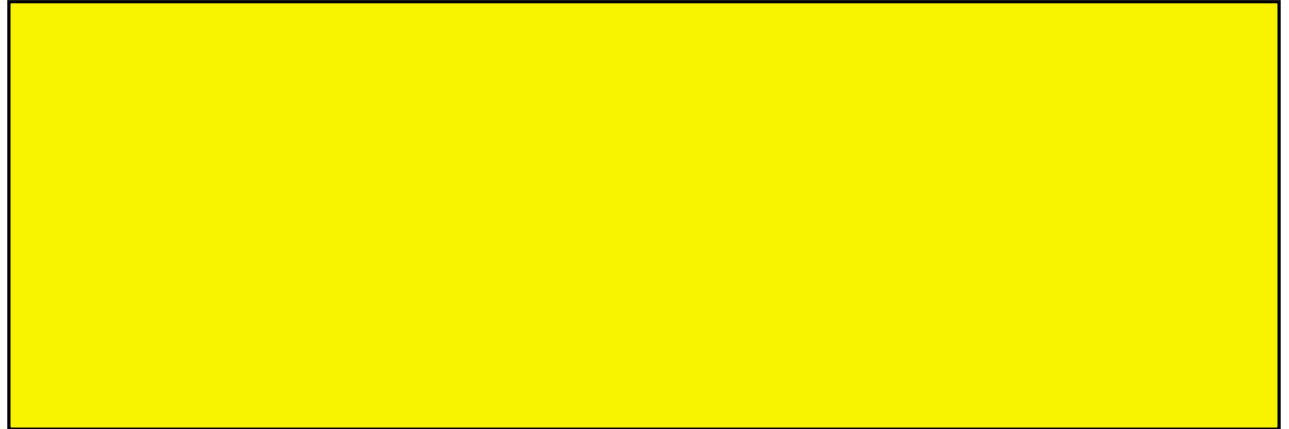
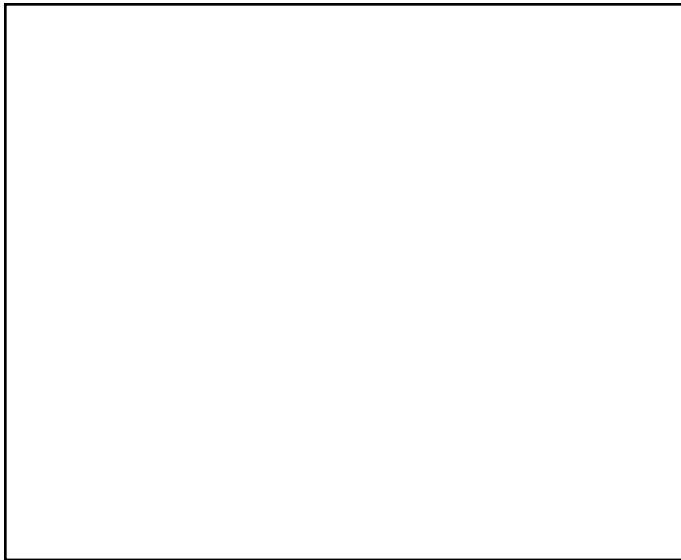
J. E. GASHO & Assoc., Inc.

WEST CHESTER, PENNSYLVANIA 19380

DIMENSIONS IN INCH



025 SERIES BALL/4 vLHxTd(Body Options)Tj/T



025 Series Options

Material Options Brass Body, Nickel Plated Brass Ball, Teflon® Seats, Stainless Handle Screw

Seal Options Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®), Neoprene

Body Options

1/4 Female x 1/4 Female NPT	1/4 Female x 1 1/16-16 Male
1/4 Female x 1/4 Male NPT	1/4 Female x 7/16-24 Female
1/4 Female x 1/8 Female NPT	1/4 Female x 1/4 Female Flare
1/4 Female x 1/8 Male NPT	1/4 Female x 3/8 Compression
1/4 Female x 1/4 Hose Barb	

Handle Options Zinc Die Cast Lever (Standard), Zinc Die Cast Lever with Red Vinyl Sleeve, Steel Lever, Steel Lever, Round Handle, Steel Lever, Steel Lever with Red Vinyl Sleeve, Round Zinc Die Cast Handle, Black Nylon T-Handle, Blue Nylon Knob, .312 x 1" Stem, Screw Slot Headed Ball

Plating Options Electroless Nickel, Black Zinc



**At Min.
Set Point**

0.025

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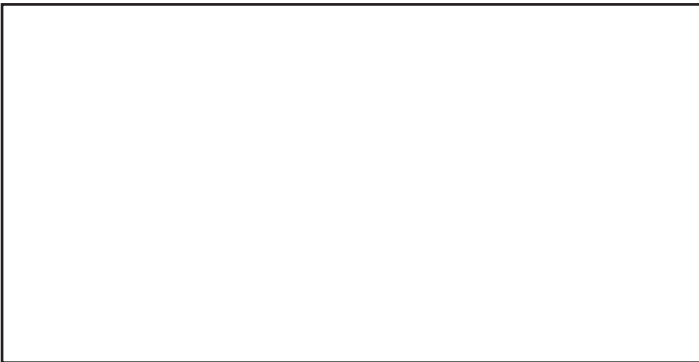
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INSTALLATION

1. Select a location free from excess vibration and corrosive atmospheres where temperatures will be within the limits noted under Specifications on reverse. Switch may be installed outdoors or in areas where the hazard of explosion exists. See reverse for specific types of hazardous service.

2. Mount standard switches with the diaphragm in a vertical plane and with switch lettering and Dwyer nameplate in an upright position. Some switches are position sensitive and may not reset properly unless they are mounted with the diaphragm vertical.

3. Connect switch to source of pressure, vacuum or differential pressure. Metal tubing with 1/4" O.D. is recommended, but any tubing which will not restrict the air flow can be used. Connect to the two 1/8" female NPT pressure ports as noted below:

- A. Differential pressures - connect pipes or tubes from source of greater pressure to high pressure port marked HIGH PRESS, and from source of lower pressure to low pressure port marked LOW PRESS.

Select A Model 110 Dial Size

20-110
& bW

30-110
3 Inch

3 Inch Dial Size



Size & Model Number:
NPT Connection Size & Type:

30.110 STOCK MODEL SPECIFICATIONS

Case ' \$('GhU]b`Ygg`GhYY`'
Connection %#&`"BDH'6fUgg'7YbhYf'6UW_`7cbbYVW]cb`
Bezel ' \$('GhU]b`Ygg`GhYY`9`YVWfcdc`]g\YX`
Crystal =bghfi a Ybh; `Ugg`
Stem ' \$('GhU]b`Ygg`GhYY`'
Accuracy

B-Series Switches – Pressure, Differential Pressure, Temperature & Hydraulic

FEATURES

B-Series switches have proven reliable in such harsh environments as:

- *Offshore oil rigs*
- *Chemical and petrochemical plants*
- *Pulp and paper mills*
- *Steel mills*
- *Power plants*
- *Water and sewage-treatment plants*
- *Other corrosive environments*

Ashcroft Inc. supplies highly reliable Ashcroft® switches and controls for industrial and process applications. We begin with rock-solid designs, matching the most appropriate technology with the safety and reliability requirements of the applications. The materials of construction are specified to Ashcroft's exacting standards, and product is built to last in the toughest applications. Our modern, responsive manufacturing facility is supported by an extensive network of stocking distributors and factory sales offices located in virtually every part of the world. Special application assistance is always just a telephone call away.

The Ashcroft B-Series switch line is designed to satisfy most switch requirements. Materials of construction have been selected for long life. A wide variety of precision switch elements are available to meet every application requirement, including hermetically sealed contacts for added reliability and safety. The actuators we use have been proven in more than 20 years of service in the world's plants and mills. Special designs are available for fire safety, NACE, limit control and other more stringent requirements. Simplicity and ease of use are stressed to improve reliability of the installation.

Applications include: pumps, compressors, washers, filters, degreasers, evaporators, recovery systems, food processing, ground support equipment, reverse osmosis systems, heat e

B-Series Switches – Pressure, Differential Pressure, Temperature & Hydraulic



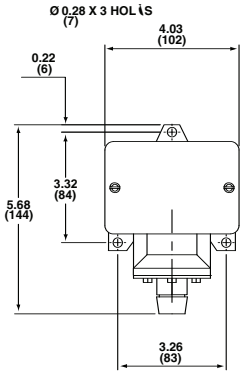
B-Series Switches – Pressure, Differential Pressure, Temperature & Hydraulic



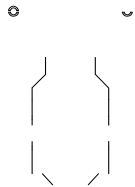
B-Series Switches – Pressure, Differential Pressure, Temperature & Hydraulic

Dimensions – 400 Series

Pressure switch – psi ranges

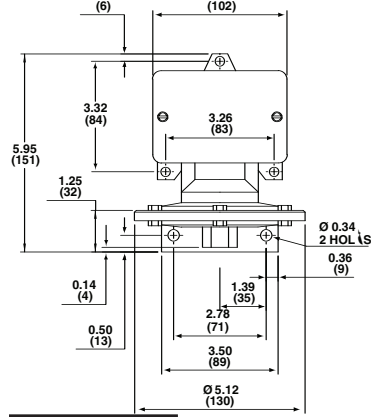


Differential pressure switch – psi differential ranges

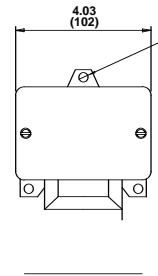


Temperature switch – direct mount

Pressure switch – inches of water ranges



Differential pressure switch – inches of water ranges



Temperature switch – remote mount

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J. E. Gasho and Associates, Inc.
460 West Gay Street, West Chester, PA 19380
ph 610.692.5650 fax 610.692.5837

Moisture Separator Operating and Maintenance Instructions

Operation:

The moisture separator is a static vessel with no moving parts. It removes moisture by reducing the flow rate of incoming air and allowing the entrained moisture to coalesce and precipitate.

Maintenance:

The moisture separator has been designed to require minimal maintenance.

During normal operation a layer of sludge may build up on the bottom of the separator. Open isolating ball valve to drain the sludge. If the unit is furnished with a sludge pump, operate pump until the sludge is removed and only liquid is being removed.

The moisture separator is provided with a clean out port that can be removed and the inside cleaned with water.

Check sight gauge, clean if needed.

Demister material is included in the throat of the moisture separator. It can be inspected and washed through the top opening of the moisture separator.

If there are accessories attached to the moisture separator follow the operating and maintenance instructions for those items

R

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47' EE OF CONTENTS TJ/CS

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Features

- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.

Benefits

- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.
- Available in 1, 1 1/4", 2, and 2 1/2" diameters.

1

Properties Table

γ (.)	1	1 1/4	2	3 1/2
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\bar{K} • (1/.)	2	2	1	12

Generalized Flooding Curves

Plastic Jaeger Tri-Packs®

1

1

C-Factor = $V_s [(\rho_L / (\rho_L - \rho_V))]^{1/2}$ where
 V_s = Superficial Vapor Velocity in ft/sec
 ρ_L and ρ_V = Density of Liquid and Vapor in lb/ft³

2

JAEGER

3

Conversion Factors

Oil-Rite Corporation

4325 Clipper Drive, P.O. Box 1207, Manitowoc, WI. 54221-1207
Telephone: (920) 682-6173 Fax: (920) 682-7699
E-Mail: sales@oilrite.com Web site: www.oilrite.com

[Oil-Rite Corporation > B-1559-1](#)

Item # B-1559-1, Level Gages Flush Channel - Steel



Level Gages Flush Channel - Steel

Level Gages Flush Channel - Steel can be mounted flush against the outside surface of a reservoir with only

[larger image](#)

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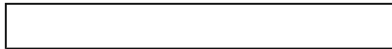
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ÇRÖEFAÇMÖE





Lightweight, economical
Durable – tough Delrin® plastic
Chtwei



Hand-Operated Diaphragm Pumps



A little elbow grease is all these pumps need to do their job. All pumps have a Delrin housing. Intake and discharge connections are unthreaded male slip-on style. All pumps have check valves, are self-priming, and can be run dry. Not for use with solids. Maximum discharge pressure is 12 feet of head (5 psi). Maximum viscosity is 100,000 centipoise (similar to toothpaste). Temperature range is 33° to 140° F.

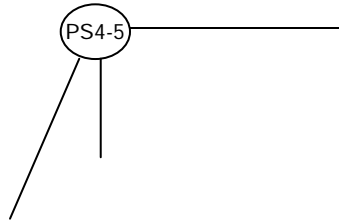
Common Compatible Chemicals

Deionized Water, Diesel Fuel, Glycol, Kerosene, Methanol, Mineral Spirits, Salt Water, Water

Diaphragm Material	Flow Rate, oz/stroke	For Hose ID	Overall Size, Ht. x Wd. x Dp.	
Buna-N	14.08	1"	4 1/2" x 5 1/2" x 12 3/4"	4332K17
Buna-N	21.44	1 1/2"	4 1/2" x 5 1/2" x 13 3/8"	4332K18
Silicone	14.08	1"	4 1/2" x 5 1/2" x 12 3/4"	4332K37

8

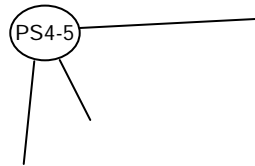
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9

ITEM	PART NAME
1	Inlet Flange
2	Outlet Flange
3	Button
4	Clevis
5	Body
6	Clamp Ring
7	
8	
	PPH10-24x3/4 (10)
	PPH10-24x1/2 (2) clamp ring
	HN10-24 (18)
	TH1/4-20x1/2 (1) diaphragm
13	Diaphragm
14	Flapper Valves
PS4-5	Pin Set

12



6

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2

Guzzler® GH-400



FLOTECT. MODEL L-6 FLOAT SWITCH

Installation and Operating Instructions

W.C. Anderson Products, U.L. and C.S.A. Listed

Class I, Groups *A, B, C & D

Class II, Groups E, F & G

NELEC: EExd IIC T6 (T amb=75°C)

Group A, stainless steel body only

3A inductive @ 30 VDC
 Optional ratings: MV option—Gold contacts for dry circuits.
 Rated 0.1A @ 125 VAC MT option: 400°F
 (205°C) 5A @ 125/250 VAC (not listed).

CENELEC models only: push-in type terminal blocks

Round SS float: .07
 Cylindrical SS float: .05

Model	Brass	Bronze	Ceramic	Polypropylene	301SS	303SS	304SS
B-S-3-A	X		X		X		X
B-S-3-B	X	X	X	X	X		
L6EPB-B-S-3-A	X		X		X		X
L6EPB-B-S-3-B	X	X	X	X	X		
L6EPB-B-S-3-C	X		X		X		X
L6EPB-B-S-3-D	X		X		X		X
L6EPB-B-S-3-E	X		X		X		X

Model Number	Float	Pressure Rating PSIG (KG/CM ²)
L6EPB-B-S-3-A	Cylindrical SS	200 (14)
L6EPB-B-S-3-B	Round SS	200 (14)
L6EPB-B-S-3-C	Round SS	200 (14)
L6EPB-B-S-3-D	Polypropylene	1000 (70)
L6EPB-B-S-3-E	Cylindrical SS	200 (14)

Ground screw is for supplementary bonding when allowed or required by local code. Some CSA listed models are furnished with a green ground wire. Such units must be equipped with a fuse.

INSTALLATION:

Unpack switch and remove any packing material found inside lower housing or float chamber.

external ground screw required by separate code.

Conduit and enclosures must meet applicable codes for the application.

through the wall.

Inspect and clean wetted parts at regular intervals.

All wiring connections must be made in accordance with applicable codes.

ELECTRICAL CONNECTIONS:

Wiring connections must be made in accordance with applicable codes. Keep assembly tightly closed when not in use.

Wiring connections must be made in accordance with applicable codes. Keep assembly tightly closed when not in use.

Dimensions are approximate. Dimensions are approximate.

Dimensions are approximate.

Ground screw inside the handle must be used to ground the control line.

ELECT MODEL L-6 FLOAT SWITCH — DIMENSION DRAWINGS

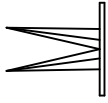
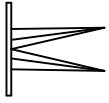
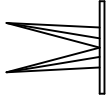
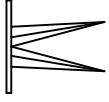
TOP VIEW

FRONT VIEW



1	Xchanger, Inc.	Rating for Model AA-250 ref #110744	Page 1 of 1
2	Engineer: David Wangenstein		November 1, 2012
3	Prepared for:		
4	J. E. Gasho & Associates, Inc.		
5	Gary Rowe		
6			
7			
8	PERFORMANCE	PROCESS AIR	AMBIENT AIR
9	Fluid Circulated	Air	Air
10	Volumetric Flow Rate	250 Std. ft ³ /min	1,632 Std. ft ³ /min
11	Total Fluid Entering	1,125 lb/hr	7,342 lb/hr
12	Liquid		
13	Vapor		
14	Non-Condensibles	1,125 lb/hr	7,342 lb/hr
15	Vaporized or (Cond.)		
16	Temperature In	180 °F	90 °F
17	Temperature Out	103 °F	102 °F

24	PROPERTIES		
25	Thermal Conductivity	0.017 BTU/hr-ft-°F	0.015 BTU/hr-ft-°F
26	Specific Heat	0.240 BTU/lb-°F	0.240 BTU/lb-°F
27	Viscosity	0.049 lb/ft-hr	0.046 lb/ft-hr
28	Molar Weight	29.0	29.0
29	Latent Heat of Vapor		
30			
31	CONSTRUCTION		
32	Design Temperature	200 °F	Not Applicable
33	Design Pressure (Gauge)	15 lb/in ²	Not Applicable
34	Test Pressure (Gauge)	15 lb/in ²	Not Applicable
35	Cyclic Pressure	No	Not Applicable
36	Flow Direction	Right Hand Horizontal	Vertical Up - Pull Through
37	Coating	None	None





The information supplied in this manual is based on many years of field experience with our heat exchangers. Following the instructions of this manual will extend the service life of your heat exchanger.

Please note that all heat exchangers will eventually fail, even if they have been properly installed and well maintained. Our experience shows that some of the most common reasons for failure are: over-pressurization, water hammer, freezing, corrosion, and vibration induced metal fatigue.

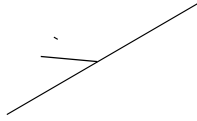
When a heat exchanger fails, the likely result is contamination of the process and/or service fluids. If this would be a serious problem for your system, steps should be taken to protect your system to eliminate or reduce the impact of such contamination. Depending on the type of failure, it is also possible that one or both fluids could leak into the atmosphere.

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2.0 RECEIVING THE HEAT EXCHANGER

The unit should be examined thoroughly upon receipt. The unit should have no cracks, dents or deformations.

Damage to either the unit or its crating should be immediately noted on the freight receipt. If the shipment was made F.O.B. our factory, damage claims should be filed with the responsible carrier.

Accessories are sometimes shipped loose on the same skid as the exchanger. If so, the Bill of Lading and/or Packing Slip would reflect the loose parts. Check for any accessories before discarding the skid.

2.1 STORAGE

If the unit will not be placed into operation for an extended period of time, it should be left on the shipping skid. Store in a clean, dry, and protected area. All openings should be covered to protect interior surfaces. Unprotected carbon steel should be sprayed with a light coating of a rust inhibitor.

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3.2 AA/LC SERIES

The heat exchanger should be mounted in a well ventilated area, preferably outdoors, as these units dissipate heat to the ambient air. If the unit is installed indoors and ducting of

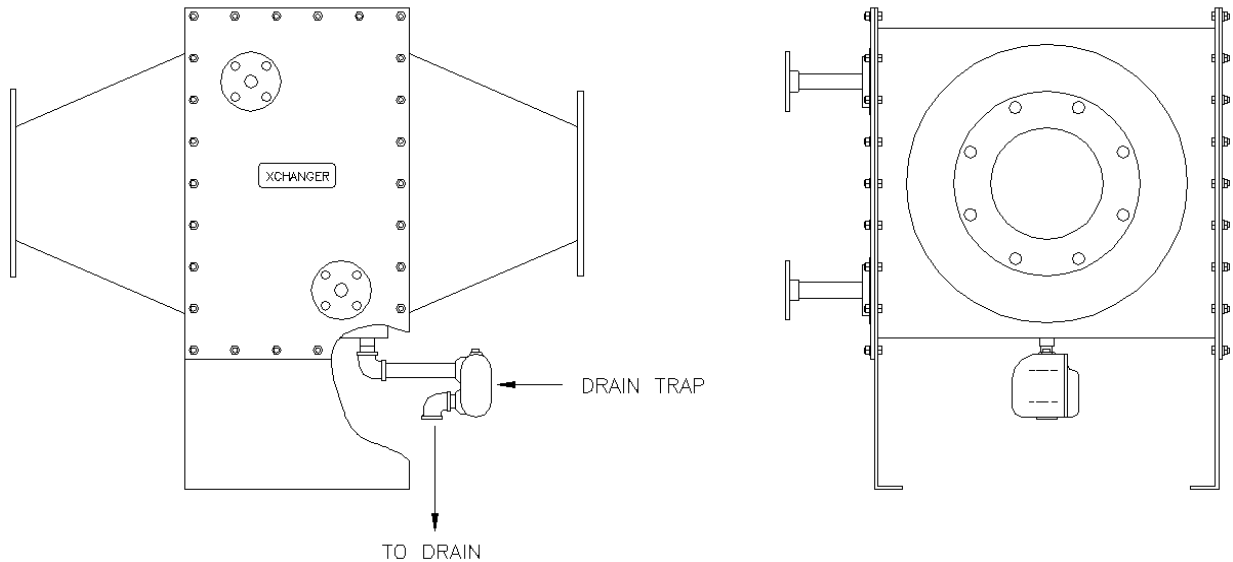
- Do not bush or reduce the steam condensate return piping smaller than the heat exchanger connection. Run return pipe full size to a steam trap (except for a short nipple screwed directly into the condensate connection of the steam trap).

-

4.1.5 Housing Drain Trap

In applications where vapors are expected to condense from a horizontal gas flow, an automatic drain trap should be installed. Approximately 12 inches total clearance under the housing box is required, or 9 inches below the standard mounting feet.

For installations where the gas flow is vertical, any condensed vapors will fall out of the low side transition, due to gravity.



4.2 AA/LC SERIES

The electric motor must be wired on site. On many air cooled heat exchangers, the electrical service must be brought through the exhaust hood. Any holes in the exhaust hood should be sealed to prevent air that has not passed through the core from entering, thereby short-circuiting the core. Refer to the motor name plate for electrical requirements.

5.0 START-UP

After carefully observing all the points listed under Section 4.0 INSTALLATION, the unit is ready for start-up. After the process/service fluids have been directed to the unit, check for leaks.

5.1 C/HP/TV SERIES STEAM HEATERS

6.0 MAINTENANCE

Depending on the model, and your operating environment, the maintenance requirements may vary.

6.1 LUBRICATION

6.1.1 C/HP/HR/TV SERIES

No lubrication is required for the heat exchangers. Accessories may require lubrication, per their manuals.

6.1.2 AA/LC SERIES

Refer to the maintenance instructions provided with the motor(s).

6.2 C/HP/TV SERIES CORE REMOVAL AND INSTALLATION

6.2.3 C/HP/TV SERIES Core Installation

Install the core in the reverse order of removal, noting the following:

- 1. Slide the core into the housing and attach the casing to the side of the housing.**

For replacement cores, the holes in the casing which hold the core against the side of the housing may not match the holes on the original core. If not, new holes will need to be drilled as follows:

- a. Slide the core into the housing such that the core face is centered in the**

6.3 CLEANING

Xchanger heat exchangers perform best when clean. It is recommended that they be prevented from becoming fouled since their design is such that once plugged or coated, it may not be possible to fully clean them. The sections below offer suggestions, where applicable, if cleaning is attempted.

6.3.1 AA/HR SERIES Internal Gas Passages

The internal process gas passages in these heat exchangers are not cleanable. Filtered

6.4.3 Trapped Circuits

These circuits run downward and upward, like the trap under a sink, and therefore are not drainable. Antifreeze should be added as discussed below.

PA E PA

CHP E IE

Nor a y, no spare parts are reco ended. If a spec fic exchanger nc udes spec a parts or accessor es that cou d be a spare part, or f an accessory tse f uses spare parts, they wou d be noted on the data sheet, cert f ed draw ng, or on acco pany ng docu entat on.

Please note that the anufactur ng and sh pp ng t e for rep ace ent cores s often wees. If th s engh of downt e wou d present a s gn f cant prob e , t ay be adv sab e to stoc a spare core.

AA LC E IE

A spare ectr c otor s reco ended.

H E IE

Nor a y, no spare parts are reco ended. ar to the CHP er es above, any spec a parts wou d be noted on a case by case bas s.

8.0 GUARANTEE

8. DURATION

The sooner of either:

- months from date of start-up.
- 8 months from date of shipment from Xchanger.

8. TERMS

Xchanger will replace or repair any part or parts free of charge, F.O.B. our factory, provided our examination shows the item to be defective by reason of inferior materials or workmanship.

The part or parts must have been used as intended and in accordance with our instructions. No allowance will be made for repairs or alterations made without our written consent.

8. EXCLUSIONS

This Guarantee does not cover damages resulting from misuse, neglect, alteration, or accident, specifically including operating at temperatures or pressures in excess of those for which the equipment was specified and furnished.

The liability of Xchanger is limited to our option of the repair or replacement at our factory of any part which has been found defective by our examination. Such repair or replacement shall constitute the extent of our obligation. Xchanger shall not be liable for any incidental or consequential damages resulting from the resolution of the warranty issue, or otherwise.

Motors, controls and other purchased parts are warranted by their original manufacturers. Such warranties will

9.0 SERVICE

Should assistance in installation, demonstration, or repair of any equipment be required, please contact Xchanger at:

Mail: 1401 South 7th Street
Hopkins, MN 55343 USA
Ph: 952-933-2559
Fax: 952-933-5647
E-mail: info@xchanger.com



Measurement - Air Flow Meter

FEATURES

- Direct reading in SCFM
- Low pressure drop (2-4" typical) across the flow meter
- Non-clogging, low impedance air stream
- Light weight aluminum
- No moving parts
- Large easy-to-read dial
- Accurate within 2% at standard conditions
- Good repeatability
- Available in 2", 3" and 4" sizes
- Factory configured for quick installation
- .048" Allen key supplied for gauge adjustment

OPTIONS

- Corrosion-resistant version with Chem-Tough™ or in stainless steel
- FDA-approved Food Tough™ surface conversion

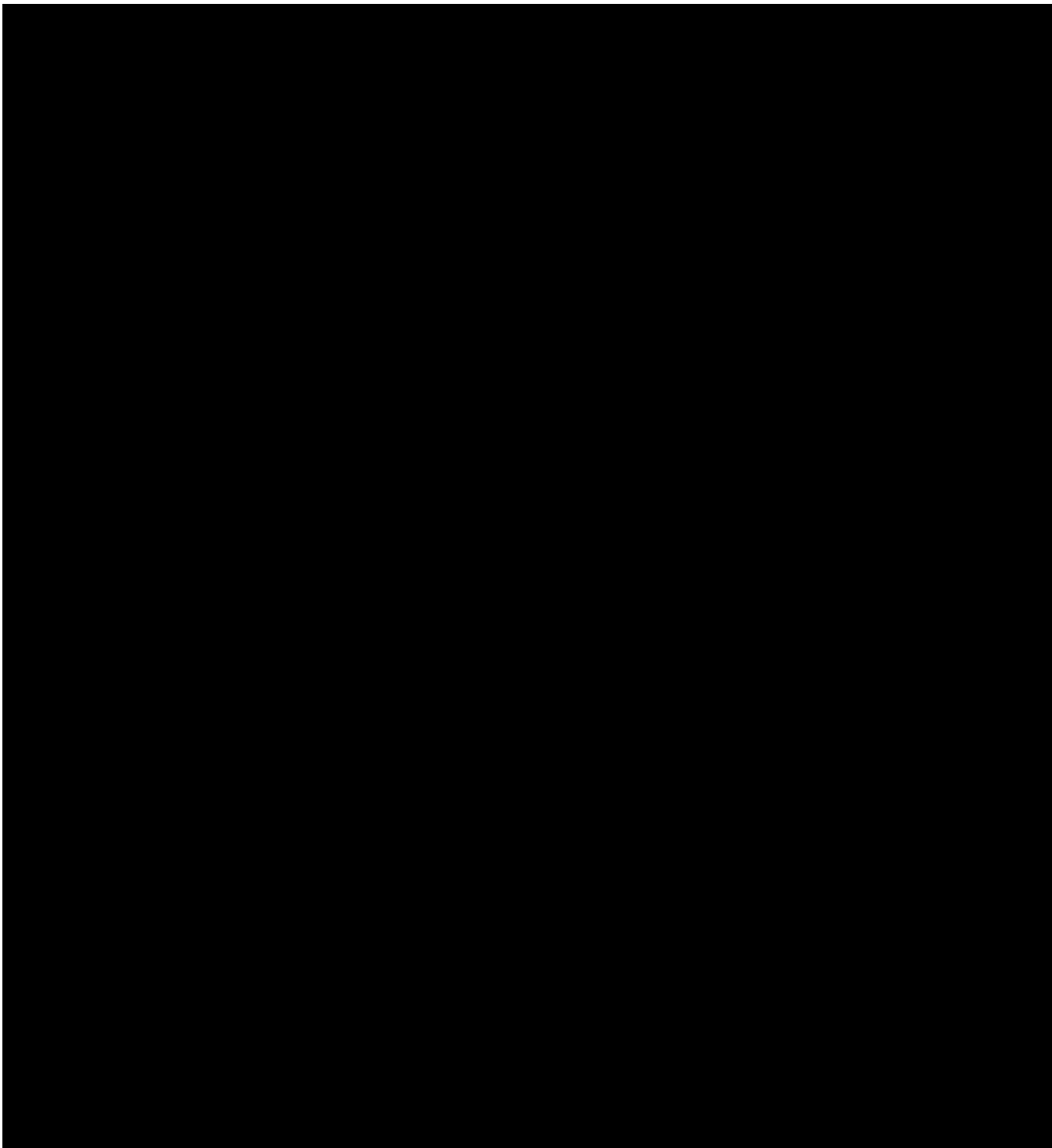
BENEFITS

- **OPTIMIZE SYSTEM EFFICIENCY**
Measuring the correct air flow can assist you in fine-tuning to your system's optimal efficiency.
- **BALANCE MULTI-PIPING SYSTEMS**
When evacuating CFM from more than one pipe, different run lengths or end system impedance can cause one pipe to handle more CFM than the other. With an accurate CFM reading, piping can be balanced by bleeding air in/out or by creating an extra impedance.
- **DETECT CHANNELING OR PLUGGING**
For systems in which channeling or plugging can occur, a change in the CFM measured can help indicate the unseen changes in your system.

		Part/Model Number					
		FM20C030Q	FM20C045Q	FM20C065Q	FM20C125Q	FM20C175Q	FM20C225Q
Specification	Units	550599	550600	550601	550602	550603	550604
Flow Rate	CFM	2	2	2	2	2	2
	m3/hr	3.4	3.4	3.4	3.4	3.4	3.4
Threads B	-	6-30	9-45	13-65	25-125	35-175	45-225
Dimension C	Inches	7.18	7.18	7.18	7.18	7.18	7.18
	mm	182.4	182.4	182.4	182.4	182.4	182.4

Dimension F	Inches mm	3.75 95.3	3.75 95.3	3.75 95.3	50.8	2.0	2.0	2.0
					50.8	50.8	50.8	50.8

		Part/Model Number					
		FM30C250Q	FM30C350Q				
Threads B	-	50-250	70-350	95-475	90-450	2	2
						3.4	3.4
Dimension C	Inches mm	7.18 182.4	7.18 182.4	7.18 182.4	7.18	120-600	170-850



This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Sales department.

AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
75 North Street, Saugerties, NY 12477
USA: +1 215-256-6601 - Europe: +44 (0) 845 366 9664 - Asia: +86 21 5763 1258
Customer Service Fax: +1 215.256.1338
www.ametektip.com





Решите задачу: Укажите, какие из следующих функций являются линейными, а какие – квадратичными. Ответ обоснуйте.

1) $y = 2x + 3$

2) $y = x^2 - 5$



