

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 12/1/2022

Return Request: 12/11/2022

Project: New Dormitories – Bldg. 6 **Supplier:** Little Rock Winnelson

Manufacturer: Various

Submittal: Commercial Sink (Service Sink)

Submittal Number: 22 42 16.16-02

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Stocks Mann Architects 401 W. Capitol, Suite 402 Little Rock, AR 72201 501-370-9207

GENERAL CONTRACTOR

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

ENGINEER

Bernhard TME 1 Allied Drive #2600, Building 2 Little Rock, AR 72202 501-666-6776

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd.
N. Little Rock, AR 72117 501-834-3320

Notes:				

CSUSA PROJECT NO. 22-102

jon@comfortar.com

ALESSI KEYES CONSTRUCTION

REVIEWED FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

Charley Dawson 1/19/2023



TES

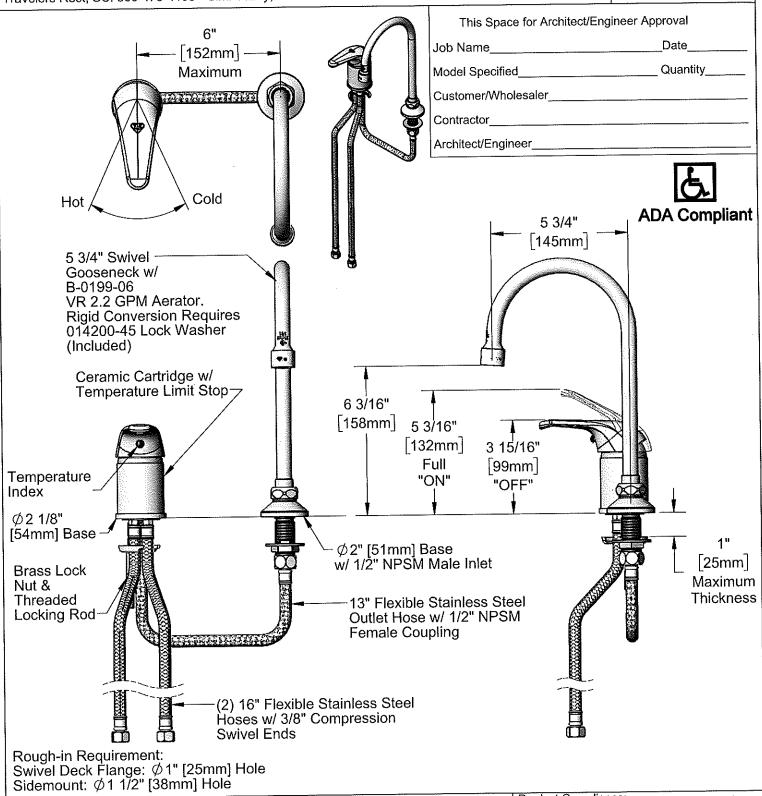
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2742

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



Product Specifications:

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Temperature Limit Stop, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: KJG Checked: LSA Approved: JHB Date: 03/03/20 Scale: 1:4 Sheet: 1 of 2



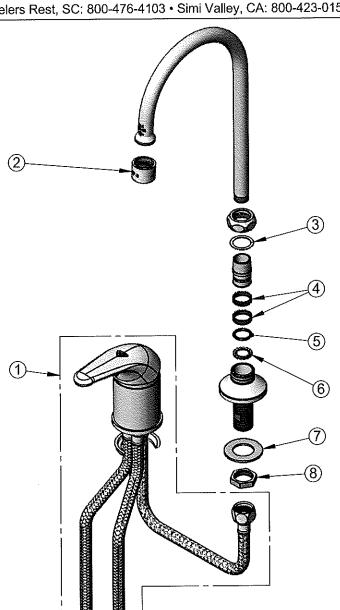
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2742

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



- 1-ax. 004-004-00 to * www.tabidas.com						
ITEM NO.	SALES NO.	DESCRIPTION				
1	B-2740	Side Mount Single Lever Control Faucet				
2	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key				
3	009538-45	Swivel Washer				
4	011429-45	Swivel Sleeves (2)				
5	001074-45	O-Ring				
6	014200-45	Star Washer, Anti-Rotation				
7	000999-45	Brass Lock Washer				
8	002954-45	Shank Lock Nut				

015425-45 Vandal Resistant Key

Product Specifications:

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Temperature Limit Stop, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: KJG Checked: LSA Approved: JHB Date: 03/03/20 Scale: NTS Sheet: 2 of 2

CASH ACME
A Divisori of the Relation Workwas Carporation
A Divisori of the Relation Workwas Carporation
A Divisor of the 1-877-100-4514 + Part 1-877-700-4384

HEATGUARD 110-D SERIES

Fallore to compay with all aspects of those Institutions may result in unsafe performance. All installations must comply with relevant Slate, I and Local Authority requirements. EN

IMPORTANT

Non Return Valves: Non-return whose are integrand in the cold and hat water inliets of the valve. For correct and unde system function, enture that the cheek valve is deam of abons and turndening carnetly.

Fluck the piping and tank thoroughly before installing the Mediguand: It an closed will be obtain a banded before popered, sori to resulting the rate when the stanking of the property of the most common cause of system all planta, if an installance will pook in tristowers when quality, final a trainer at while their.

Dalwoy Temperature: Imprepature of the bassers supplied the metting value should be at least 74°F higher turn the maximum required valve setting. Every valve is incopy set levelese 115°F vari 120°F outlet temperature, with a 150°F hot water field temperature."

Chack: the control of risks premieter (pressure, temporatum, with load deteck spatnet the specifications of the dissentiative, if the site conditions on outside those opposited prints valve that the recultes prior to intailing the valve.

Valve MLST NOT be subjected to hood Auring restablished so this may chemage the valve interndes.
Valve MLSST NOT be itsed on reson-scopious paperes, but to wake oppose only a prevent valve with TAOT be itsed on resonance or must be fitted to prevent damage to be itsed, by itself, it may valve to include the a situation valve including to a possibility, then sublicible stratistion must be fitted to prevent damage to be valve.

DO NOT use excass thread sectant (in liquid, tape or other form) as this may cause the valve to fall

-MOTEL. To ensure believely of the diserent mixed water temperature all the custs the immoller must adjust and vently the temperature all the outfel by called problems and the following page. MIXING VALVE SPECIFICATIONS

12 ct 12 c
--

Relations custode yearned by exercision in conscious way ASSE(TO). For institutions custode by except of ASSE (TO), the rife stop may be amounted to part forecasts the second subject of the second s

ผู้ค่

FLOWRATE - GALLONS / MINUTE

CHECKING) SERVICING THE MIXING VALVE. We incommond that the valve is checked at least once par you be ensure in beninded their professors and selection where quality, or other elections. If may be increased by the other than an inner inspectation with poor or unknown water quality, or other elections. If may be increased by the other than an inner inspectation with poor or unknown water quality, or other elections. Note: Pow rate deformined to a Hongurus 1100 LP with ½" sweat fallings.

The importance should be disclod as the same suited as was used for commissioning in the final instance, if the temporature is made than 5°F from recommissioning supporations for the filter and public spaces are commissed in the first public spaces are considered in surpressulted in the stream suitable in the importance of the water from the thermoutains chainly valve due to baseonst temporature varieties in the cold was capity. The chain and account of the water from the three commissions are considered in the cold water from the cold water from the contraction. The chain was not as an account of the commission of the color of the contraction.

If the water supply is of poor or unknown quality, a filter or strainer should be fitted at the inlet to the system such that the cold Inlet to both the water header and the mixing valve are prefected from dirt and debris.

 S) Valvo 6 noisy.
 Categoriew winds valocity.
 Theorem water valocity forth annoved by filting a present organization which are the filting a special property or a property profession or a new filting a special property and new filting a special property and new filting a special filting and the special property and new filting a special filting and the RECIPELATION
Feature that remperature are within the specified
intelligation was individual angelors. But the specified
and its valence with Hardizold angelors stand to this
control connection which the properties in the standard of the s -Cross strainers
-Cross Strainers
-Inch pressure regulating valves.
-Acit the valve with HoVCold supplies fitted to the correct connections. necessary.
-Resione intel supplies and check mix temperature. Crean non-returns ensuring debris is removed. CAUSE
-Infel temperatures are not within specific intellig.
-this and cold supplies are reversed.
-Strainars are blocked. -Volve is incorrectly sec.
-Hot and cold supplies are reversed
-Hot/Cold water has migrated to other Hote also to point it.

Hot ar cold water supply failure.

Strainers are blocked.

Strainers are blocked.

Fluctuating tupply pressures.

Heterating supply pressures. Sirpiners are blocked.
 Fluctualing supply pressures. -Non-rotum valves fouldd. The desired mixed water temperature connect be obtained or vetve is difficult to set. 2) Mix temperature unstable of Changing ever time. 3) Either full hot or full cold water flowing from quitet fixture. 5) Flow rate reduced or fluctuating. 4) No flow from the valve custot. FAULT / SYMPTON



Trade omissan de pe conforme à oss atrectivos en ensir est suscopibila de posar des risquas. Trades les installators dalvent étre risquisées conformément aux exigences en vigueur dans la province ou la région de l'Installation.

MPORTANT

Clipests de notroctauer. Das depend de norrentes port hispans cons les estresa d'end finde et d'eau chaude du milipeur. Pour le bon lentile Importent d'assurs que le dables lest dépags des salatés et qu'il lentilente correctement.

Vider complement is buyaterle et le chaufe-aru avont d'installer le Manguard. SESESTIFIE, doutes les puedes bornings de la vignale de la vignale avont et procée a l'installation du mitgour themostabiton. Pour la puport, no difficulté de locationsement du prigram écongriser par se vidage du virtair has existeire.

La bengatura de format destribues. La bengadaria de bust dubus de minertant la miligaar framosaulique doit dire septokeur d'au moins 16 °C au sépapa moumal de miligaur Chapan La bengadaria de la bust dubus de minertant la militaria de la chapanta de la chapanta de la militaria de l'amb mispaur soit de 80 °C.

Potes a verific.

More of encode on rote base is a semewhere at like of headstanders is presson, to knock make the control of the control of

- 1	CARACTERISTIQUES DU MITIGEUR THERMOSTATIQUE	ERMOSTATIQUE
Températura de sortie régiée à l'usine :	46 & 49°C (115 & 120°F)	
Plage do réginge de la température de sortio :	29 p 54 'C" (85 a 130'F)	
Position de la butée nigkée à l'usine :	max. do 49°C (120°F)	
Température de l'eau chaude :	48 & B2°C (120 & 180°F)	¥.
Tompérature de l'eau chaude de painte :	93°C (200°F) 2	ŝ
Temperature de l'aau froide :	4 a 27-C (39 à 80-F)	3; Walst
Pressen dalmentation maximale:	1600 NPa (230 psi)	- 30
Variation telérise de la pression d'allmentation :	±20% ²	e who
Dobit a la porte de pression de 50 pel :	54 Vimin. (14 gol/mln)	÷
Débit minimal :	3.8 kmln. (1 gal/mm)	ž ž
Notes:		y lat

OF STATES / WINUTE

Nation : Datast determining areas une Mediguentral 1000 LP avec des recooleds 34 soudrés Temporaturo maximised anothers in premise SSES (1978) frout less mandatistics and control and section (1978) frout less maintains entering anothers and entirely entering the section of the properties of the president of the pre

energanico et persentato un windern Herbootschools ESCHISTIE. Neus excemanicos so lano variar is son increament da Vealliez releva (quin miligier homestene set insolvable DE ESCHISTIE. Neus excemanicos so lano variar is son voltante de Veallier relevative de in nevel se monto. Date la residence a la residence de de piero policie est de parte procesa prison de conditions delimentante sost immentates. I post servour recessare de variar plas froquement la processare de la residence delimentative.

La enspirabus de frou dot den velidido à la mûne acrite qui e 66 sent lau régioge febal du miligant hormotalisque (veli milieu filialismo).
Si la lemperature de frou dangement de 37 de la lemperature de régions consolates de deportange às hoverest el descolate.
Si la lemperature de format descented en regions paul voire en mano des verletoirs de la imprimative de réaut froise, aden les salacers.
Le alapse de non-réaux est lisque à natinger, que l'auffil fry accèder au moyen du mocalit de Bosible.

SI Pou simentant le circuit est de plètre qualité ou de qualité inconnue, des filtres doivent être couplés à l'installation afin que les entrès s'esu froids du chaufte-sou et du mitigeur soient probléées des safetés.

SYMPTOME	CAUSE	RECTHICATION
1) L'onu mitgon n'ost pas 0 la température voulue ou la cet diffeile de région le mitigaur thermositative.	- Los temporalures de Taus aux points d'arrivée depassont les limites spéciales Les controlles d'alimentaisen on eau chaude et en cau infolde aont arverade Los fillins sont obsurués.	verificat les proprietations for l'author anni conformera aux limites filoses pour le militiour montrestatique, - Raissour thermostantique en wildent le - Rainstailez le militiour thermostantique en wildent le ce que les conduite s'allementation en our chaede et euc eus teles candidate s'allementation en our chaede et en ces teles destantistes en mocrotes adéquairs Notitoyez les filtres.
2) Lo température de Feau milgée mast pas atable ou change après un sertain temps.	- Les fillres sont obstrude Variations des procesons d'allmantotion.	 Nottoyaz las filires. Installez dos régulatours do prossion aux condulis d'alimentation en eou chaude et en eau froide.
3) Liber enterenter chaude ou enterente chaude ou enterente (color efeculo de l'appareil de rebinotiere.	- La miligour thermoetabque n'orst pass regits conduits d'alementation en eau chaude es en eu vierde sont inversén chaude en en eu frout sont en en part paule conduit Verainizz-vous rédéner au premior point, est point.	- Risigen: a tomporaturo de missurga sodon idea direntenen - Remissora Premezalatico en velitari a velitaria per en esta per en esta de la constanta de la con- naza constante delimentalmen en suo chaude el en ola missora constanta delimentalmen en suo chaude el en ola l'india eponte sub esta missora del deglanta. Nettogez su benich:
4) if ny a aucun écouloment du part de porte du miligiour thermostatique. 5) Le debit deninue ou varie.	L'alimonitation en eau entaude ou en acu freide aus déflécqueure. Les filtres sont debthués. Los filtres sont debthués. Los filtres sont debthués. Vandalons des prassbar d'alimentation.	- Rippinza kes prordulis d'armeto d'aqu et vérillez lo temperaturo de mislango Nettigosz les filtres Nettigosz les filtres Indidojez les filtres Indidojez les filtres.
B) La température de fecu milipée no varie pos torraçue le dispositif de réglage de la température est modifie. 7) L'eau chaude s'écoule dans le ercuit.	- Los conduits d'alimantation en cou choude et en cou frolde sant inversés. - Les capets de nan-retour sont	"Rightauliukz jo miligauur thormostatiquo en vaillani il oo que lea conclute d'alimentation en eau escalair d'alimentation en eau tincia adent couplés, aux raccordes, addiquate, an Notifiquez à las ciapotis de non-religior en vailant d'arrier foute la seleté.
8) La mingraur thermodalique est bruyant.	L'Gau Ebboult à Une vitasse excessive. Les dimendions du mitigaur thornestatique ne convenment pas.	Radussaz la viassa d'écoulormen de l'oau. La melleure voulten conteie, à metaller un régulation de proceson. Varifica: les concetentiques du miligiour ple personation et voulfilez les concetentiques du miligiour ple pre-
	redigious sourcestve. Les dimensions du mélgaut de procédon. Portificate your particular de procédon. Portificate your procédon de procédon. Portificate de procédon de pr	melifetre schutten contreve de gracische. Vorificz top caracti chernocatique at vouillest convient acler to schit.

CASH ACME

A Division of the Polistics Worldwide Corporation
74 Alax Average, Vaughan, Ontano Left, SSS + Tol: 1-858-620-0170 + Fox: 1-808-235-2775-

He compile can todos aspacios do los instruccionos puedo resultar un una ejecución recomendaciones rolevantes del estatal, provincial y local.

IMPORTANTE

Viderals de Retención: Tradas de Reneción entre integradas a las entradas do la valvala de agua callente y agua irla. Para una función segura y electiva, despurso de que o capace las valvala unal trapo y ser oscomitors.

La temperatura de gara celementa ammazioneto la valvuta mentalodora debe ser al monos de 27 °F más alto que al máximo requerdos de la temperatura de agua celementa ammazioneto la valvuta mentalizadora por la licensia sema 115°F y 120°F de temperatura de alebra, com 150°F de la recenta de celebra com 150°F de la recenta de celebra com 150°F de la recenta de la celebra com 150°F de la celebra com 150° Vacie la tuberia y el tanque precisamenta antes de la instalación de Heaguard. Es fundamento los la tubolos caso llavo de sectoribos serios de resistan la valvala. No vacior el sosemo Establizados del súptimo.

Revier: The proposed is partmeters del ambiento (presión, tempentum, etrokena) y compare con las candestóbros technas do la valveda etaglido. Si tala condiciones del ambiento ecolodos las condidental technicas do la valveda delse desen que sar incellizadas unhas de la instalación de la videvida.

Volveus No Octos gor expunda a racior chumin la institución ya que el calar podrá setar el indendr els la vidivata.
Volveus la Octos gor este camenta seminanta por vegen condementa de camenta de cam

<u>MADTE.</u> Space is alstreached decedial de temperatura del agua misco al decegión, el instalacior debe que ajustor y verificar la temperatura al decedible aguarente sistuaciones con cultado en la pagina biquierra. ESPECIFICACIONES DE VÁLVULA MEZCLADORA

	Ĺ			124 -	NO	5384	30	valis	9	
115 - 128°F (46 - 48°C)	85 - 130°F (29 54°C)	49°F max (120°F) 1	120 - 180°F (49 - 82°C)	2007F (93°C) ³	39 - 80°F (4 - 27°C)	230 psi max (1600 kPa)	±20% ³	14 gpl/min (54 L/min)	1 gallmin (3.8 L/min)	con ASSE 1070, Para
Preestablezce la temperatura de desagüe :	Margon de la temperature de desagüe :	Limite de la posición de parada	Temperatura, suministro de agua caliente:	Temporatura máxima de pice auministre de agua collente:	Temperatura, suministro de ague fris.	Progide maxima de sumento:	Permitida variación de presión de suministro :	Caudal @ 45pst pertida de presión:	Caudal, mínimo :	Apuntes: 1. Tomporature máxima permitida de acuerdo con ASSE 1070. Para

Apunter: 1. Tomperatura instalacionea is pereda puedo que elguen. 2. Como comprel. 3. Mixima verios la femperatura verios del femperatura verios la femperatura verios la femperatura verios verios del femperatura verios veri	máxima tugra doli c ser remov sbardo do a ción pormit a do desa	pormitida alcance de ida según cuerdo co cuerdo co cuerdo co cuerdo co cuerdo co cuerdo co cuerdo co cuerdo co sigún de on sigún de on sigún de on sigún de on	de ASSE Itas ing ASSE Inbos y	1070, c Inuccion 11017. Imministra Combi	K fimile se de o se de p	ASSE de la p junte de resión p selvos d	1070, xoaxclon s temper	en de	Apuntee: 1, Tomporatura maturna permitida de ucuarios con ASSE 1970, Pena 1, Tomporatura maturna permitida de acase 1970, el fimilio de la possiblio de la possiblio de la SSE 1970, el fimilio de la possiblio de protecto parado ser remavida según las instrucciciones de ojuste de femperatura parada paudo ser remavida según las instrucciciones de ojuste de lamperatura	to come comprobate de acuerdo can ASSE1017. 2. Como comprobato de acuerdo can ASSE1017. 3. Como comprobato de acuerdo can ASSE1017. 3. Instrumentario de desapla de forma unimitario de presido per la inempetatar de desapla definida definida de desapla de acuerdo de mando de acuerdo de mando de acuerdo de
--	--	--	--	--	--------------------------------	--	-------------------------------	---	---	---

				8
_			z	Appriles : Casadia delegramisació en una Healignarid 1100 LF con uvote escenarios de 17
			2 2	100 E
			7 Mark	P
		\	, tools	10 Hear
			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	do en el
			₹. /	acieratica e
			1.	p april
2444	T 22 5	ے د	1.	3: ejus
154	КОТЗИА ЗО	Agras		2
6	8		e a cry	n de

CORPROBACIONMENATENMENTO DE LA VIA VILA MEZCLADORA.
Não esta no videnda mendescera temperatura que la valvula sea comprobada amulativade para Valor que la valvula mendescera temperatura no redivada de paga de pobre quilidad o descarpcido cualidad de agua o ambientes abremanas pueda ser interación comprobata en valvula más focusomentos.

La kemperatura debe are comprebate al mismo desagio seando al inica de la restatación. Si la temperatura coste a controlada al mismo desagio sea del controlado de desagio de la controlada de restado de la controlada de restado de la controlada de restado de versados del controlado de versados de versados de controlados de versados de versados de controlados de versados de la controlado de versados de la controlado de versados de versa

SI el suministro de agua sea de caldad pobre o desconocida, un filtro debe ser instalados e la entrada del sisteme para que la entrada de agua fra a ambos el calefacter de agua y a la válvula masciadora soan protegidos de suciodad y esconbras.

FRACASOISINTOMA	CAUSA	RECTIFICACION
	Tomoremittee do contrata no colo	- Ascours and las forncements do la entrada cuban
1) The formpointing day agost all the	Control of the contro	almino de do sono de sono de la volvaila
donoado no puede cer obtenido o es-	dentro de un parametros especiscos.	CDI 103 dilating palacentences on a distance
elifell de emelburar la visivula.	 Los suministros de agua catiente y 	Repare for blustos de tos valvales cos megas.
	fria están invertidos.	suministros do agua fría y caliente.
	 Coladores están bioqueados. 	- Limple tos coladores.
California an character than the California at a 1 th	. Colorbina patán bibopendos.	- Limpia los coladoras.
Z) Ta tomboranta cultura de marana de Z	- Desilve de selectivistro Surbiadile.	- hatalo válvulos regiadoras do presión a ambos
complie con di alempa,		suministros de agua fria y callente.
The American September Collection Co.	Valvala esta configurada do forma	- Ajusto ta temperature mixte como requondo.
S) Ages Conjugation and Constitution and School	locowecia	Restablesca los ajustes de la vátvuta con los
COMPONENT AND COLO PER COLO	v otnottos do agua collente v	cuministros de aqua fria y calinote instalodo en la
de desegue.	tria con invanidas.	conexión corrada.
	. Anya caliantalitia se ha dosplozado	 Varifique si la válvula de retención esté fallada y
	o ofto entraria	Impie st necesoro.
	- Hann referencin a primer bunto.	
of the handless de completes de descention	- Emerge de suministro de adua	 Restaure tas entrades de los suministros y várificar
4) NO Hay help our administration of the	caliante o frits.	to temperature mixte.
do vaivaia.	- Colodona estale bioqueados.	- Limple tos coladores.
2) Charles and and coulder or the coulder	Colorbron están bloquesados.	- Limple for coladores.
Stranger added to the dealers of the	- Presión de suministro fluctuente	 Instale vétvutes regladoras de presión.
R) I a temperatura de aqua mixta no	. Los suministros de agua caltante y	- Arragio la valvula con el suministro de agua
cambia cuando el austo de temporatura	fria ostán invortidos	callentertria ajustada a las conoxiones correctas.
os altorado.		
auge ob arrolate for more attended with 17	- Válvulba do rotonción están	- Limpto as valvalas de relancion asegurados da
frin a vicavaran.	dañodos.	que el escambre esta eliminado.
By Mélecula on Girdosa	- Vefecidad oxecowa de agua	- Reduzca la velocidad de agua (mojor fealizado por
	Volvula mesurada incorrectamente	Instalar una valvula regiladora)
		- Ajusta ta aspecificación do válvula y asagúraso do
		out is viewus apropiada está usada para of flujo
		rosnerde

MIXING VALVE TEMPERATURE <u>ADJUSTMENT I RÉGULATION DE LA TEMPÉRATURE I AJUSTE DE TEMPERATURA DE LA VÁLVULA MEZCLADORA</u>

I incorporation to the incorporation of the incorpo

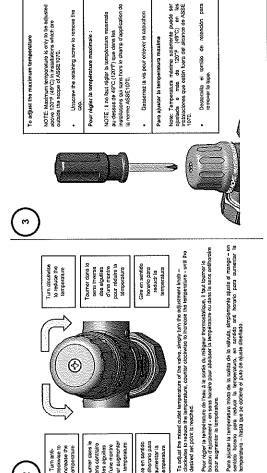


Using a thornsmetor, tast the mixed water temperature at the nearest outlet being supplied by the varies. This should be opposed to the we a finitional flow ratio of 1.5 gan (6 Lienth). Allow the water to run for at least on on mixed be mixed the mixed when temperature has satisfied.

Gire en sentido antiherario para

Utilisant un thermonebte, verifiez la température de l'teou miligée au point de sortie le plus près de ordinoritées aitements par mémber. L'appelle de cabinetere doit être cuvert de sorte que l'éea s'écoule au débit d'ait moire, le lime (, 1,5 gal/min), Lissaez l'eau s'écoulire pondant au moins une menue aint que la température de feau miligée se sabilise.

Usació du Introviente, casarine la introvienta de agua más a dissagiou más corcinos euridistrados bases de la seguida de la espasa a corre por lo menos de un minulo para aseguida que la temporatura del agua mixta se ha osposa.



Levente el antilo de limitación de parada a partir del husilio, gire a la nueva position de la lemperatura máxima, y sustituya en el husilio, (Consulte el diagrama 3).

Romottez le capuchon et serroz la vis. On peut des tors régler la température du miligour jusqu'à la nouvelle température maximale

Enfevez la bague de butée de la ágo, foumoz jusqu'à la nouvolle position de température rtaxitralle, et la replacez sur la Ilge. (Veuillez-vous référor au diagramme 3.)

Lift the limit stop hing off the spindte, rotate to the new maximum temperature position, and replace on the spindte (Refer to diagram 3). Replace the cap and tighten the retaining screw, The valve may now be freely adjust to the new maximum temperature.

 \bigcirc

Camble la tapa y atomito el tomilio de retanción. La válvula ya puede sar libramente adaptada a la nuova temperatura máxima.

of 12 months, subject to the conditions outhred below;

Cash Acme VALVE WARRANTY

Warranty Conditions and Exclusion

stud have been instalted by a knonsed and registered plumbar in accordance with the Costs Acres traditaliests institutions and Application Guidestines. Ath the valve and in accordance with the relevent guarant gardes current at the date of installation and all relevant statedory and focat exquirements in the Supplications where not necessity and property planning planning to the quantum state of institution and all interest statellary ord both Supplications are not present in literature. The property are the planning to the commission and its interestitation of the supplication of the planning to the commission and its form of the planning to the commission and it is found to the planning to the commission and it is found to the planning to the planning to the planning to the planning the planning

- Stratement was well be cannot and as set but in the Care Aren Warminy above, but the deserting anchorine may cause the warminy to become well, and may stratement was well be cannot accept and a part of the care compared part of the deservation of the but water operating which the valve from a part of the care of the
- o requirements of refevant plumbing codes.

 occept ilebilisy for any claim artsing from such chango.

 ots, walls, foundations or ony other consequential loss either directly of

Date / Date / Fecha:

La milipour thormosategua Houtguard 11D-0 de l'entreptiles Catal Acma est garante contra tout défaut de tabrecation pour une péritode de douce (12) moits, vous répense des conditions énouédes cladestons.

GARANTIE DU MINGEUR OFFERTE PAR CASH ACMÉ

- Le condition to magain beneciation do that retails par un purple induce of the Section function of the retails part or specified in the section of the secti

GARANTIA

Et Heatguard 110-D de Cash Arme lleve garantis on defecte de fa

Cash Acms geranila de Valvuta

Supito a las condicionas de garantila a anchasama estatidocidas bajo Cash Adme villutuiza son garan 17 meter del fundamentar y al Cash Adme encuello delectrica sterila supituaciona supira il castidiore Adme, el centrodori sustanti rede responsabilisto del produziro y na lense asulactacidos de cigan Anava de Los benefastos de la giandira estan momprantes a los edencidos y entredico que el carquiscos poedi si.

Condicionas de garantía y exclusios

Conditional and the control of the c

autorización de Cash Ache no seren reemplazados. Por tavar póngase en contecto con Cash Acma antes de devotvor

Installed by / Installé par / Instalado por:

Pressure at the valve / Pression au mitigeur thermostatique / Presión a la válvula:_

Mix temperature / Température de l'eau mitigée / Temperatura mixta;

°F/°C

PSI / kPa

IS291 RevA JAN 2013

S-2 SINK

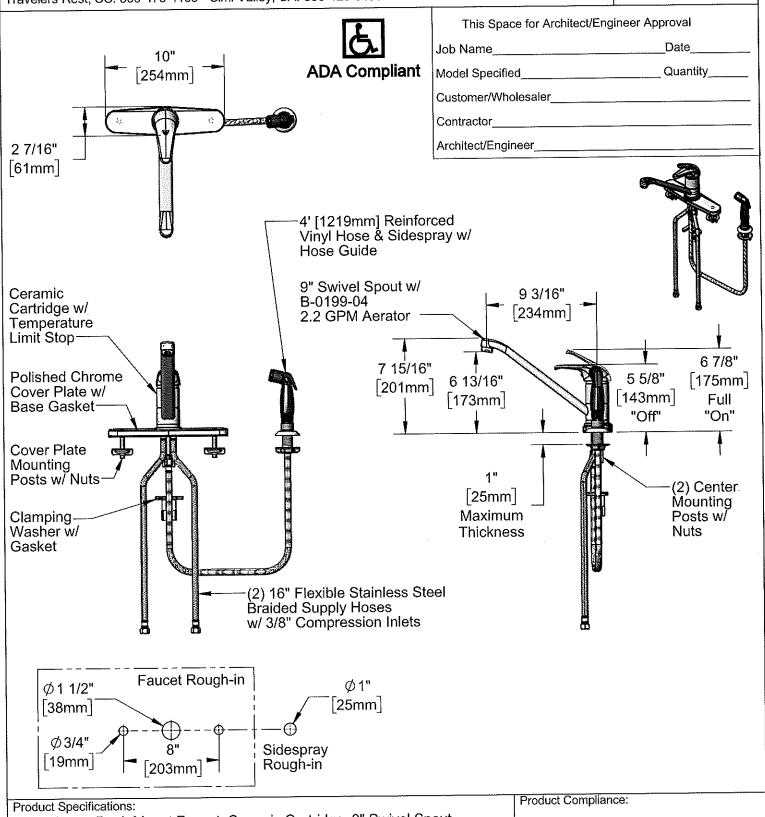
T&S BRASS AND BRONZE WORKS, INC. ² Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-2730

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



Single Lever Deck Mount Faucet, Ceramic Cartridge, 9" Swivel Spout, 2.2 GPM Aerator, 10" Deckplate, Temperature Limit Stop, 4' Reinforced Flexible Sidespray w/ Hose Guide & (2) 16" Flexible Stainless Steel **Braided Supply Hoses**

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Sheet: 1 of 2

05/12/21 Scale: 1:8 KJG Approved: JHB Date: Checked: JRM Drawn:

Tes

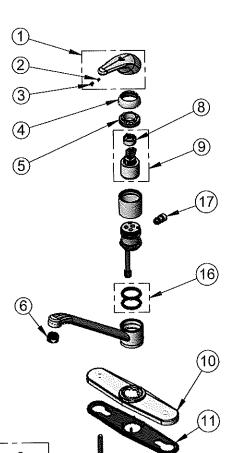
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

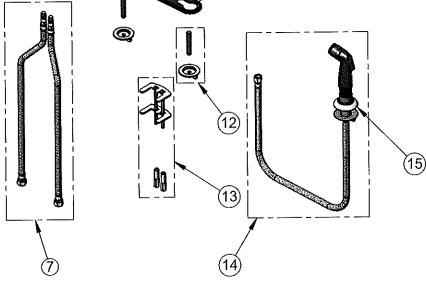
B-2730

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM		
NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	B-0199-04	2.2 GPM Aerator, 15/16-27 UN Male
7	016879-45	16" Supply Hoses w/ 3/8" Compression Inlets (2)
8	015400-45	Temperature Limit Stop
9	013080-45	Ceramic Cartridge w/ Temperature Limit Stop
10	014161-45	Deck Plate, B-2730 & B-2731
11	014160-45	Deck Plate Gasket, B-2730 & B-2731
12	014162-45	Mounting Post & Nut Kit (2)
13	014163-45	Center Mounting Kit
14	013842-45	4' Sidespray w/ Hose Guide
15	001496-45	Hose Guide
16	017150-45K	Base Seal - Qty 2
17	B-2730-DRK	Diverter Repair Kit



Product Specifications:

Single Lever Deck Mount Faucet, Ceramic Cartridge, 9" Swivel Spout, 2.2 GPM Aerator, 10" Deckplate, Temperature Limit Stop, 4' Reinforced Flexible Sidespray w/ Hose Guide & (2) 16" Flexible Stainless Steel Braided Supply Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: JRM Checked: KJG Approved: JHB Date: 05/12/21 Scale: NTS Sheet: 2 of 2

T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

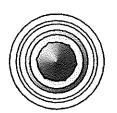
Model No.

B-0199-07

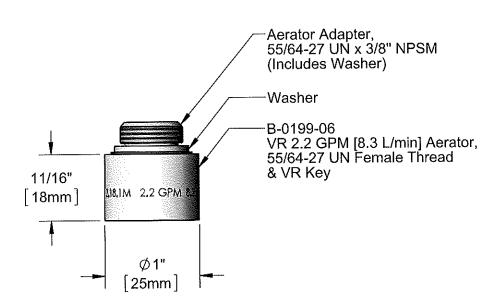
Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval							
Job Name	Date						
Model Specified	Quantity						
Customer/Wholesaler							
Contractor							
Architect/Engineer							







Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

Drawn:	DHL	Checked:	JRM	Approved:	JHB	Date:	03/26/15	Scale:	1:1	Sheet: 1 of 2
DIGWILL		0110011001		1 1 1						



T&S BRASS AND BRONZE WORKS, INC.

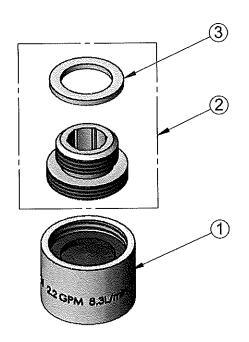
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

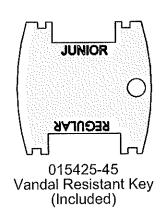
B-0199-07

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key
2	044A	3/8" to Aerator Adapter
3	001043-45	Washer





Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

-	Drawn:	DHL	Checked:	JRM	Approved:	JHB	Date:	03/26/15	Scale:	NTS	Sheet: 2 of 2
- 1	LJI CIVVII.		i Oriconoa.	Q1 (11)	i, ibbioioai						

HEATGUARD 145 SERIES



IMPORTANT

nstructions may result in unsafe performance. Failure to comply with all aspects of these and Local Authority requirements.

olevani State, Pro-

Non Return Valves: Setopated in the cald and hot water inless of the volve, For comed and edic system function, onsure that the thirds valve is dear electrock and training sentroly.

d valve setting. Every valve is Delivery Temporature: The Lemposture of Mark markets supplying the making valve ahouds be at least 27°F higher than The Lemposture of the market market and 120°F ballet temporature, with a 150°F half water filet temporature.

Check: Sasars and note all site perameters (grossure, temperature, etc.) and check against the specifications outside those specified for the valve then they must be recified grow to installing the valve.

sulable insulation must be fitted to prevent Válve MUST NOT be audpeded to host during intuitation as this may tamage the valve internate. Válve MUST NOT be fixed on sneam-supplied systems, but to water systems only. Válve MUST NOT be fizedo. If no válve se installed in a sluation where freazing a a possibility, linen damingo to the válve.

DO NOT use excess thread sealant (in liquid, tape or other form) as this may couse the valve to fall.

cudet temporature range:	95 - 118°F (35 - 46°C)	a
ure, hot supply:	120 - 180°F (49 – 62°C)	٤
femperaturo:	200°F (93°C) ¹	3
ure, cold supply:	39 - 80°F (4 - 27°C)	K. J. P.
supply pressure :	230 psl (1600 kPa)	3
supply pressure voriation:	±20% 2	
@ Sûpsi pressure loss :	6.2 galitrain (23.5 Uresin)	I JAN
пынтит:	0,34 gallmin (1,3 Umin)	si Sha
		3
		\

to (@ Sūpsi pressure foss ;	5.2 gairmin (23.5 Cresin)	M/65
te, manmum:	0,34 gallmin (1,3 Umin)	;
		ŝ
As lasted in accordance with ASSE1017.		
Maximum permitted variation in either supply pressure in order to control	phy pressure in order to control	٠
the outsit temperature to within ±5°F. Excessive changes in supply prossures may cause changes in cultot temperature.	Excassive changes in supply imperature.	

CHECKING) SERVICING THE MIXING VALVE. We necessarily the ways is checking a least once par year to ensure the confirmed both that the translations will poor or unknown water quality, or other answers apply confidents, it may be necessary to check the view of more translations will poor or unknown water quality, or other answers.

The temperature should be clucked at the same outlet as was upod for commissioning in the first restorce. If the temperature is made than 5°F from provincesioning producture, rich to half integration of public public public. There may be exemple assume in the purposation of the waller from the formorpation class of the control from the formorpation of the waller from the formorpation of the waller from the formorpation of the waller from the formorpation of the formorpatio

if the water supply is of poor or unknown quality, a filter or strainer should be fitted at the injet to the system such that the cold inject to both the water heater and the mixing valve are protected from dirt and debris.

FAULT / SYMPTOM	CAUSE	RECTIFICATION
1) The desired mixed water temperature	-Inlet temperatures are not within	Enture intel temperatures are within the specified
connot be obtained or valve is difficult to	-Hot and cold sumples are reversed.	-Rafit the yafve with Hot/Cold aupplies fitted to the
	-Straingra and blocked.	correct connections.
		-Cleon strainers.
2) Asix homospature unstable or changing	-Strainers are blocked.	-Clean strainers.
court little	-Fluctualing supply pressures.	-install proceure regulating valves on both hot and
		cald supplies.
3) Felher hid het er full cold water flowand	-Valve is incorrectly set.	-Adjust mix femperature as required.
from wallet Behina	Hot and cold subbles are reversed	-Refit the valve with HabiCold supplies fitted to the
	-Hot/Cold water has marated to ather	cornect connections.
	miet.	-Chack non-ratum valve is not found. Clean if
	-Refer also to point 1.	hacossapy.
4) No flow from the yokye outlet.	-Hat or cold water supply fallure.	 Restore Inter supplies and check mix temperature.
	-Strainers are blocked.	-Clean strainers,
5) Flow zole reduced or fluctuating.	-Stralnors and blocked.	-Cloon Strainers.
	-Fluctuating supply pressures.	-install pressure regulating valves.
6) Mixed water temportature doos not	-Hot and pold supplies are reversed.	-Rofit the valve with Hot/Cold supplies fitted to the
change when temparature adjuster is		correct connections.
Silved.		
7) Hot water flows into the cold water	-Non-return volves touled.	-Clean non-returns answing debrs is removed.
system or vice versa.		
8) Valve is naisy.	-Excassive water velocity.	-Reduce water velocity (best achieved by litting a
		pressure regulating valve).
	-Valve sized incorrectly.	-Check yave appelifications and ensure the
		appropriate valve is used for required flow.
one a cook of these inclusions with the clio	nt for future reference. Recommend to the	own a coor of these instructions with the client for lutter ofference. Recommend to the effect that the valve is shocked annually to entation



Chapes de novelvebur: Des chapes de novecior ont intégrés étans les onteies d'eau triole et d'out choude du mitigaur, Pour le ban fondennement du système, il est Impondre dessurer que batiges des dépaps des sababs et qu'il fondenne cannatement.

de de la company of the destance of the company of Vider complètement la tuyautorie avant d'installer le Hestguard: ij ast ESSENTEL pur budant las adoines avoint propées de la leguoure prent de procéder a l'installe Ista d'ESSENTEL estiporiement du spélame o benjéquent par una véraneg en dréssi mai oxiocutée.

Assume a settler, and transfer of less dissultation is protection, to immorrant, etc., Comparez les données aux catacionistiques du montant et terrestrations etc., Comparez les données aux catacionistiques du montante l'entre l'entrestrations du montant et l'existent les permitters de les directions de la premitte de les directions de la comparez de l'existent les aux catacitéristiques du misjour finematatique, il faut années aux entillations et la sexist d'entaile le mangeur.

Le milgaur hermozatique NE DOTF PAS étre exposé à la cabaetr dorant l'instablette, car cela pourait endemnagar ses compositores internes. Le milgaur hermozatique NE DOTF PAS étre caupé aux hautableces à vancer. Instableces cardenates uniquement de Tesa, au per le faut divers un proposition cardenates uniquement de Tesa, au get. Il faut divers un registration activates de Tesa, au get. Il faut divers un registration activates de Tesa, au get. Il faut divers un registration activates de Tesa, au get. Il faut divers un registration activates de Tesa, au get. Il faut divers un registration activates de Tesa, au consideration activates de Tesa, au consideration activates de Tesa de

it, NE FAUT PAS, utilizer unn quantità oxossiave de matérie d'étanchétik pour jonis lièteles, qu'il se présente sous forme liquide, de ruban ou sous louds autre forms, car ce matériel pourrait huire au fonctionnement du mingeur thermostalique.

-NOTE: Pour quo frasu misspa sent à la température dociréo à l'enflica de sortie, l'imitaliateur doit régier et verifier la température à la sortie en autent ministenement se directives fournies aur la page cuivente.

RMOSTATIQUE		9	:	ŧ	·	. j	e13	ž Ne	, ŭ	
CARACTÉRISTIQUES DU MITIGEUR THERMOSTATIQUE	40.6 a 43.3°C (105 à 110°F)	35 a 48 °C" (95 à 118°F)	49 à 82°C (120 à 180°F)	83°C (200°F) 1	4 à 27°C (39 à 80°F)	1600 kPa (230 psi)	±20% ³	23.5 l/mm. (6,2 gol/min)	1.3 l/mln, (0.34 gat/min)	
CARAC	Tompérature de sertie régiée à l'usine ;	Plage do réglage de la température de sortie :	Température de l'equichoude :	Темрегация гражитит :	Tomperature de Foau froide :	Prossion d'alimentation radientale :	Variation tolérée de la pression d'alimentation :	Dábit à la perte de presekan de 50 pai :	Débit minimal :	

1. Secan les espare rédetats conformement à la norme ASSE1077.
2. Il s'agul de l'abord mariner plane de la pessage de l'obte, abude ou de la ragul de l'abord mariner plane de la pessage de l'obte, abude ou de l'ani flotte pour que le imprésature de l'anu à la sandre la varier pas aux del de la 2°°C. De hancapase vantalens de la presiden dere les la papare d'abinement les la lampérature de l'anu poent de carde.

7) // // // OFFICE STANDARDE

Profestives of Exercise to unnegar heterostructures (ESCURIE) has recommendes de lare vedier le ben londomenen du Voillez neer qu'un mègar fenenciques de la coloure de SECURIE. Nous recommendes de la colour benont du descriptures de la colour del la colour de la colour de la colour del la colour del la colour de la

La temperature de fotu ant étre verifido à la mêmo sorde qui a été servi au régage initia du misgour themestatique (vedina tétiqueba autocolinate).

Ben primerature de fotus de 3.° à la tature partie que éta constitue de régalisment de régalisment de régalisment de régalisment de régalisment de describent de presentant de constitue de la temperature de régalisment des missours partie en transmisse de la temperature de la temperature de fotus principar, car l'aufill o'y activider au moyen du roccinit du ficialism.

Si freu alimentant le circuit est to piètre qualité au de qualité incentrue, des filtras doivent être couplés à l'installation afin que les entrées d'eus froide du chauffe-pau et du miligeur soient probégées des failetés.

SYMPTOME	CAUSE	RECTIFICATION
1) L'oau miligoo n'est pas à la température voulse ou il est difficille de régler le miligour thermostatique.	Les tempdrolures de l'eau aux points dégrivée dépassent les limites policitées. Les conduits d'ahmentation en eau enture et no aux feedennes. Les conduits d'ahmentation en eau enture et no aux frédéres. Les fâtres sont abetrudes.	- Votritioz si los tempóretatos de l'esu d'entrite aont contionnes aux limites faces pour le miligour himmostatique Relensaliaça e miligour bennestatique en voillant à ce qui des mondaties del minentation en los d'allementation en los d'allementation en los d'allementation en los d'allementation en los de che neur fichale de le neur finde colonir coupéa ans raccarde adéquate.
2) La température de feau miligée n'out pas acolo ou change après un certain	Los fillres sont obstrutes. Variations des pressions d'allonentrises.	Notitoyez (ge tairres. Notitoyez (as filtres. Installaz des rógulatiours de pression aux cardults d'alimentallois en eau chaude et en equi freide.
3) L'ave antitaranent chaude au entiteranent frolde s'accula de l'apparei de robinottario.	- Lo mitigour thermostalature n'out pob- rigit connotatio d'alimentation en eau- bande et en eau finide eant inverter Losa chaute ou l'eau finide amine per l'autre conduit Veuillez-vous nitriter su premier.	- Regger is unrepetative de métalogs soien los difectives - Metalottes de misque hommostique ou veillont aux concluits of infimientime en eu chaude ni en eu la misque hommostique ou concluis de misque soien aux coccets adéquats Verifies poien de cape de mencation en et obsuran helitoyes au besoin.
4) If ny a autum depulament au point de sorte du mitigaur thermostatique.	 Etalmontation on eau chaudo ou ori aau froide est défectueuse, Les filtres sont obstrués, 	 Reparez les condults d'arrivée d'estu al vortioz la température de mélange. Nettoyez les filtres.
S) Le débit diminue au varie.	- Las fitros sont ebatruda. - Varistions dos preusions d'alimentation.	- Nettoyez tos rigilateurs do proceion. - Installez des rigilateurs do proceion.
6) Lo température de Teau mitiglée no varie pas forgue de dipopular de digigle de la température est modific. 7) L'osu cheude s'acoule dens lo circuit.	Les ponduits d'alimentation en eau chaude at en eau froide sont invertés. Les d'apets de non-retour sont	Relocation 2 immigrate interneosatiques on veillant 2 or que les conduits d'olimentation en cas chaudre et on nou infelio potent opupies oux reconsts adequals. Nettopos 2 inclupeuts de non-rediour on veillant 0 or relocations et ou veillant 0.
of four fride ou vêz-vêrg. §) Le milgour flormintarique est bruyont.	totalinos - L'obu d'eccuén à une vileado - L'obu d'eccuén de miligour - Les dimensipales ne convigement pas.	retta. - Lisou decude a una vitado - Riolasca a visita discussioni de forta. La maldara est buyant, contes de consenient de forta. La maldara sciento contes de inclusion in rigulator contes de conseniente de presente de premiser de premiser. - Les discondicione de militaria de premiser de premiser de premiser de permiser de premiser de permiser de permiser de permiser de la conscientalique de militaria de permiser de la conscienta del la conscienta del la conscienta de la conscienta de la conscienta del

Laisser una copie de cette bon fenctionnement

2400 7° Ave S W
Cullman, Alaborne 35055
USA
1-477-700-4242
www.cethorne.com

74 Alox Avenue Vaughan, Gripero L4L 5X1 Canada 1-888-920-0120 www.ivrccom

No cumplir can todos aspectos de las instrucciones ocempaciones releventes del octada, provincial y local ocempaciones releventes del octada.

vikindas de Retención cante inegradas o los ceiradas de la valvula de agua callente y agua inte. Para una función segura y eléctiva, acaguicas es Retención cante inegradas o los ceirados de para inegradas de para esta en inegradas y electivas a candidades de academos.

La bendeckte de formestation annexando la valoula musiciados actos en el mones de 27 F más alta que el misento requerido de la importante de apos calegoras annexandos la valoulas peras configurados por la localegora en 1157 y 1207 de jorgendad de salvas, con 1557 de importante de salvas. Vocie la tubrita procleamente antes de la institación do Madiguand: La fundamental que levide cuel libro do bodos ha escomboto antos de Indaiar la viánda. No vacar el sistema precisamente es la mayor casas de Las declasioses de sistema.

Review. Review to toda his parameters and ambleme (provior, temperatura, exteriora) y compare con las caracteristicas (estructus do la vidivido elegida. Si las Mido, y recibido elegida. Si las midos de monaciones de ambiento accident se caracteristicas identicas do la vidivida delos leterior que ser recibiodos partes do la bisialpolari de la vidivida.

Vitwale No Deke ser reguesta al cator durante la histilizado ya que el calor podríte del tura el citador de la valholla. Vitwale No Deke ser restalacio al sistemat guantelaracio por varore sido satemanto al cidema de gapu. Andre la Reviewa el la velkuda está instalacia donde hoya posibilidad de comprisidor, un aldiamiento debe ser apropiado pello pello pello de comprisidor. Un aldiamiento debe ser apropiado pello pello pello de comprisidor. Un aldiamiento debe ser apropiado pello pello pello.

No use excepte de pellador da rescaz (en líquido, cinta y otra forma) como esto podrío Revor la valvula a fracasar

gurar la distribución denanda do temporatura del agus mixta di dosagún, el instalodor dobo qua ajustar y ve « instruccionas con cuidado en la página siguivento.

	MEZCLADORA		3	4	***	, na	3 404	in *	ivon	,	Application makes
	ESPECIFICACIONES DE VÁLVULA MEZCLADORA	105 110°F (40,6 43,3°C)	85 - 118°F (35 - 48°C)	120 - 180°F (49 - 82°C)	200°F (93°C)	39 - 80"F (4 - 27°C)	230 pss max (1600 kPa)	*30%°	6,2 galfmin (23,5 L/min)	0.34 gal/min (1.3 L/min)	itres de prosión para controlar Pales overenivos de prosión de orabiro de decagúe.
the state of the s	ES	Proestablezca la temperatura de desagles;	dargen de la temperatura de dezagua :	femperatura, suministro de agua caliente :	Temporatura máxima:	Femperatura, suministro do agua frita :	Prosión máxima de suministro :	Permitida vanución de prasión de guministro :	Caudal @ 50psl pardida de presión :	Caudal, minimo :	Apparent: 1. Camo comprehends de acuerdo con ASSE1017. 1. Camo comprehends de acuerdo con ASSE1017. 2. Musima valenda pormidad de acuerdo com acuerdos esta de acuerdos esta de acuerdos esta de acuerdos de prodeiro de cambristo en los temporalistas de decapilia.

COMPROBACION/MANTENMIENTO DE LA VALVILA MEZCLADORA. Nos que la vávolan mezdadora intressiblas en ma olivado de segundad. Neusona recontrolidamos que la vávola sea comprobada antualhante para asegaçar una funcionadade contente por establectoras en alestando de agua de pobre cabilede o desconocidas contente a por establectoras en alestando de apua de pobre cabilede de desconocida de de opua os ambientes abendados en moderandos de alebada más focusionistenente.

S) al nuministro de agua ses de calidad potre o desconocida, un ilho debe sor instalados e le anticida del sistema para que la entrada de agua fria a ambos el calefactor de agua y a la válvula mezcladora sean protegidos de suciodad y escombras.

_		_		$\overline{}$		······	
RECTIFICACIÓN	- A Asoguic quo las temperantes en entrado caben con les limites espoarticades de la válvala Repano ha a juliates de la válvalar con los summientas do agual rifa y calidarla Limpje las coladores.	 L'ample fos coladoros. Instalo válvulas rogiadoras do presion a ambos suministros do agua fria y cationia. 	Aughen barnoon coqueration and controlled. - Reachableza los uptado de la válvula con las acembrantes de agua fin y calliona instalado en la controllessa de agua fin y calliona instalado en la controlle arroreta. - Venfrquo as la valvuda do reternation esté fallada y limpa el necuestrio.	Restaure las entradas de las suministros y verilicar la temperatura mixia. Limpia las caladores. Limpia las caladores.	- Limpia de Sucacontes - Instalia valvicias regisdoras de prando Arregio la valvuia con el sumnistro de agua callenfo/fria bjustada a los conoxiones correctas.	 Limple las valvuas de retención asegurándose de que el escombre está eliminado. 	Velecidad reactions de signa Velecidad reactions de signa Velecidad recursor de s
CAUSA	Temporaturas do entrada no cabo dontro de un parámetra expecíficos. Los auministres de agua caliento y fria están invortidos. Coladores están bloqueados.	- Coladores están bioqueados. - Presión de suministro fuctuario.	- Valwuija ents configuração do forma importada. - Los suministros do agua callente y fila son frecitido. - Agua calienhairia so ha desplazado a otra entrada. - Agua calienhairia so ha desplazado a otra entrada. - Agua papa referencas a primer gurado.	- Fraccon de suministro de agua collente a tita. - Condorna estan bloquendos.	Coladores están birqueados. Presión de numinidate fluctuante Los suministos de agua callenta y fra están invertidos	Võhvutos de tetención están defados.	 Velocidad excessva de agua Valvula meaurado incorrectomente
FRACASO/SINTOMA	Le fomporatura del agua mixta deseada no puede ser obtenida o es diffeil de configurar la valvula.	2) La temperatura mixto da Inestable o cambia con al tlempo.	Apus camplelamente calignite o completumente file came del accesorio de desaglia.	4) No hay flujo doi suministra do dosagida do válvida.	5) Caudal reducido o fluctuante 6) La températura de agua mixta no combite cuendo el ajusto de temperatura	7) Agua callonia corra al alsterna da agua fre a ulescata	ldosa

Pear to soliding the vive is in increasancy of the hot is waster source to be switched or and delibering between 5 in increasancy of the configuration in whiche are necessary of the hot is waster source to be switched or and delibering between 5 in increasancy of the configuration in whiche are necessary of the hot is waster source to be switched or and delibering between 5 in increasancy of the configuration in which are necessary of the configuration in the c MIXING VALVE TEMPERATURE ADJUSTMENT / RÉGULATION DE LA TEMPÉRATURE / AJUSTE DE TEMPERATURA DE LA VÁLVULA MEZCLADORA

က



Ublissari un intermonitiro, verifica la températura de foau miligão au point da sorte lo plus prida do reprénenten adel autoria en imagou. L'aporte de organise de capitalisme des étre ouvert de sorte que l'eau évécade au dete d'eau mointe à l'inter, (1,5 gal/min), Laissaz foau évécadiar pondant du mointe una minitaire de la température de treau mitigate so stabilise.

Usando un termómotic, examtor la temperatura del agua mixta al desogía más corcano suministrado por la valvuda. Esto dobo ser abierto porta pormitre al minimo cauda de 1.5 gam (ElL/min), Permito el agua a contra por lo menos de un minuto para asegurar que la temperatura del agua mixta se ha oposado.

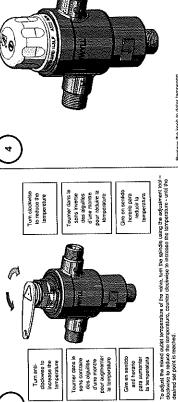


Gire en sentido anti horario para aumentar la temperatura

To access the temperature adjustment mechanism, IR the knob off the valve body, using 8 flat head screwdriver in the lab if needed.

Pour accider au mécanisme de régioge de la température, enlovez le capuchen du mitigaur, utilisent une cle dans la coche si bosoln.

Para ajustur la temporatuta mibra da la salida de la valvuia, gre el eje usondo la horramento de jugida - en mando Diordio gano reducir la impromitaria, en estrido anti horario pora aumentar la impressuta - lassan que sa odietera le puto de ajusta defenda. Pour régler la température de l'eau à la purie du milippur thermostatique, il faut fournet la tipo en utilisant l'utilis de règler, on serts trivoire pour abaissant la température ou durs le sens autilisant pour ougenotère la température. • Para usar el macanismo de ajusto de la temperatura, tevente el mando de la valvulo, usando un destornilador en la muesca si es necesarlo.



Replace the knob to detor temporing.

Remettez le capuchen pour éviter les manipulations non souhaitées. Combie el mando para disuadir a menipulación.

The Cash Acme Healguard 110-D is guaranseed free from manufecturing defects for a parred of 12 months, subject

Cash Acms VALVE WARRANTY

or the version production and expedition to a block confliction evolved several terminal confliction of the production of the several terminal region of the production of the several terminal region of the production of the prod Warrenty Conditions and Exclusion

- The value must now been extended by a basened and repaired partners in accordance with the data of the control of the control

- Lit found statements to every

 1. It found statements to extrange with the very

 1. It found statement is command with the very

 1. It found statement is command with the very

 1. It found statement is command to the very

 1. It found statement is command to the very

 1. It found statement is the registry of the very

 1. It was also also the very of the very

 1. It was also also the very of the very

 1. It was also the very of the very

 1. It was also the very

 1. It

to milgour terminatelique Harbyand 110-D do Tenhaprino Cash Activo est garrall contro field oblant de fabracition pour une páriode do Gouze [12] maio, essus des accellans únimidas electespous.

Sous neaves des contitions et des exclusions timosdes chickeoux, les mitjours hymmostatiques et Caih Azon changes pour les policies de la contra l'appropriet de la contra le contra la contra le contra la c GARANTIS DU MITIGEUR QEFERTE PAR CASH AGME

- in compared for the monthly of the major than the monthly of the m eté estajlé conformément aux recommandabons du
- poceramentales o rigidores an viguar date titla cui arrivea où le migura immensative e higher o a date chrashalori et le lacet so displation.

 2. Le migura franchische i prode d'un control de migura immensative e seile controlatori et la controlatori e la controlatori e la controlatori e la controlatori e la rigidori de la controlatori e la rigidori de la controlatori e la rigidori della controlatori e la rigidori della controlatori e la controlatori e la rigidori della controlatori e la controlatori e
- concentrate a folial instruction of a processing.

 A consideration of the processing of the processing

- Note : Los produla retoumés anns vina autorisation de retour Testropuso Cash Acres.

Installed by / Installé par / Instalado por:_

	PSI / kPa
	vula:
	Pressure at the valve / Pression an mitioeur thermostatique / Presión a la válvula:
	ostatique / Pr
	nitioeur therm
90 p. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Pression au r
/ Fecha:	the valve / F
Date / Date / Fecha:	Presente at

Mix temperature / Température de l'eau mitigée / Temperatura mixta:

% / J°

e enclusionse estatéculose bajo Cash Acme volvuise con garantiza is Acme encuentra defectos parás sustituidas aguajar le ostablecido sushiliadan dei producto y an tiene quelatzación de Cash Acme de del sampleados a los describas y enseedos que el comprador juste ten

El Hayigiand 110-D da Cest Acris (leva garanta sin defecto de fabroación por 12 meses, aujato à les

Cash Acme garantia de Válvula

Condicionas de garantio y exclusiones

- To colour late open relations pur un plement beardings by registrate de acceptance, de mistanción non la colour late de servicion y registrate de acceptance de la colour la col

- The control of the co

- 4. La victura ha inseasogo directamento o indirectamento como resolto de impraden o temposa o temposativa Seres do tex antincaceos de establicación per presenta de la resolución de internación de manación de la resolución de internación de manación de la resolución de internación de interna



T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-0892

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	I.	This Space for Architect/I	
	ADA Compliant	Job Name	
	ADA Compilant	Model Specified	Quantity
		Customer/Wholesaler	
12"		Contractor	
[305m	ım」	Architect/Engineer	, the same of the
	-132X-A22 Swivel Gooseneck w/	2 7/8"	
The second secon	B-0199-01 2.2 GPM Aerator. Converts to Rigid w/ 014200-45 Lock Washer (Included) —Quarter-Turn Eterna Cartridges w/ Spring Checks & Wrist Action Handles w/ Color Coded Indexes	[73mm]	9 1/2" [241mm]
	4 7/8" [[124mm] Mounting Surface	6 1/2" 165mm]	
(I) 4 [102i	" 1/2" NDSM Molo In	lets 4 1/16" [103mm]	13/16" [21mm] Maximum Thickness

Rough-In Requirement:

(2) Ø1 1/8" [29mm] Mounting Holes

Product Specifications:

4" Centerset Deck Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles, 2 7/8" Swivel Gooseneck, 2.2 GPM Aerator & 1/2" NPSM Male Inlets w/ Coupling Nuts

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

1:4 Sheet: 1 of 2 Date:9/27/2018 Scale: JHB Approved: DMH Checked: JRM Drawn:

Tas

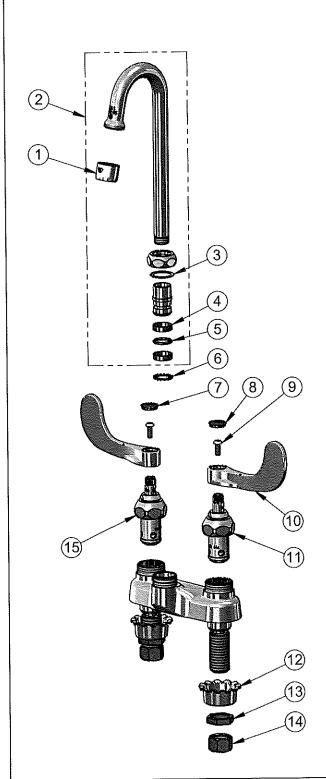
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0892

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



	ax. 00+ 00+ 00 rc	
ITEM NO.	SALES NO.	DESCRIPTION
1	B-0199-01	2.2 GPM Aerator, 55/64-27 UN Female
2	132X-A22	2 7/8" Swivel Gooseneck w/ 2.2 GPM Aerator
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	001193-19NS	Red Button Index, Press-in
8	018506-19NS	Blue Button Index, Press-in
9	000925-45	Lab Handle Screw
10	B-WH4-NS	Wrist Action Handle (New Style)
11	012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
12	001000-45	Rosette Washer
13	002954-45	Shank Lock Nut
14	000958-20	Coupling Nut
15	012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC

Product Specifications:

4" Centerset Deck Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles, 2 7/8" Swivel Gooseneck, 2.2 GPM Aerator & 1/2" NPSM Male Inlets w/ Coupling Nuts Product Compliance:

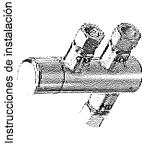
ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: DMH Checked: JRM Approved: JHB Date 9/27/2018 Scale: NTS Sheet: 2 of 2





Heatguard 135 LF Series Installation Instructions Mode d'installation



/álvula mezcladora termostática Robinet mitigeur thermostatique Thermostatic Mixing Valve

10549 Rev B

MIXING VALVE SPECIFICATIONS

105-110°F (4043.3°C)	95 ~ 120°F (35 ~ 49°C)	120 - 180°F (49 - 82°C)	39-80°F(4-27°C)	230 psi (1600 kPa)	±20%1	578(2.874)	2.5 pal/min (9.5.1/mln)	0.25 gal/min (1.0	r/wlp)
tory set outlet temperature:	ustable outlet temperature range:	neerature, hot supply:	sperature, cold supply:	umum supply pressure:	mitted supply pressure variation:	. inlet temperature differential	wrate @ 20 psl pressure loss:		ម sate, minimum:

Maximum permitted variation in either supply pressure in order to control the outlet temperature to within ±5°F. Excessive changes in supply pressures may cause changes in outlet temperature.

4ECKING / SERVICING THE MIXING VALVE

ote that this thermostatic mixing valve is a SAFETY VALVE. We recommend that e valve is checked at least once per year to ensure its continued function. For stallations with poor or unknown water quality, or other adverse supply anditions, it may be necessary to check the valve at more frequent intervals.

ermostatic mixing valve due to seasonal temperature variations in the cold water immissioning in the first instance. If the temperature is more than 5°F from the immissioning temperature, refer to fault finding guide below. iere may be some variation in the temperature of the water from the re temperature should be checked at the same outlet as was used for pply. The check valve can be easily accessed for cleaning.

IMPORTANT

performance. All instaliations must comply with relevant State and Local Authority Failure to comply with all aspects of these instructions may result in unsafe

Non Return Valves:

the valve. For correct and safe system function, ensure that the strainer is clean of Non return valves and strainers are integrated in the cold and hot water inlets of debris and functioning correctly.

Flush the piping and tank thoroughly before installing the Heatguard: it is critical that all debris is flushed from the pipework prior to installing the valve. Not flushing the system properly is the most common cause of system difficulties.

Delivery Temperature:

The temperature of the hot water supplying the mixing valve should be at least 27°F higher than the maximum required valve setting. Every valve is factory set between 105°F and 110°F outlet temperature.*

Measure and note all site parameters (pressure, temperature, etc.) and theck against the specifications of the chosen valve. If the site conditions are outside those specified for the valve then they must be rectified prior to installing the valve.

Points à vérifier:

Valve MUST NOT be subjected to heat during installation as this may damage the

valve internals. Valve MUST 100 for fitted on steam-supplied systems, but to water systems only. Valve MUST NOT be frozen. If the valve is installed in a situation where freezing is a possibility, then suitable insulation must be fitted to prevent damage to the vaive.

DO NOT use excess thread sealant (in liquid, tape or other form) as this may cause the valve to fail.

<u>"NOTE.</u> To ensure delivery of the desired mixed water temperature at the outlet the installer must adjust and verify the temperature at the outlet by carefully following instructions on the following page.

CARACTÉRISTIQUES DU MITIGEUR THERMOSTATIQUE

de réglage de la température Tompórature de cortle régiúa à

40 à 43°C (105 à 110°F)	
35 & 49 °C" [95 \$ 120°F)	
49 a 82°C (120 à 180°F)	
4 b 27°C (39 à 80°F)	
1600 kPa (230 pa)	
+20% 3	
5°F (2.8°C)	A SO A SO A SO A
9.5 lmln. (2.5 gal/min)	

Il s'agit de l'écart maximal permis de la pression de l'eau chaude ou de l'eau froide pour que la température de l'eau à la sortie ne varie pas au-delà de ± 3 °C. De brusques variations de la pression dans les tuyaux d'alimentation peuvent causer un changement de la température de l'eau au point de sortie. Notes:

1.0 l/mln, (0.25 gol/mln)

Debit a la porte de pression de 50 pai

Presalon d'almentalion maximi Vonation tolerée de la pression Températura de l'asu chaudo:

ampérature de l'equ froide

VERFICATION ET ENTRETIEN DU MITIGEME THERMOSTATIQUE
Volaille, notes qui un migheur thermostatique et una SOLOMPÉ DE ÉSCURITÉ, Nous
trecommandent de faire vérifier le bon fonctionnement du mitigaur thermostatique au moliva
uve clois par année. Dans les installations of la teus et de platre qualité ou de qualité incompue
que rence à les conditions d'alimentation sont mauvaises, il pout à wétre referessaire de vérifier
la fait fréquement le fonctionnement du mitigeur thermostatique.

la température de l'eau doit être vériflee à la même sontie qui à été servi au réglage initial du miègeur thermostatique (vérifier l'étiquetre autocollands). Si la température est supériture de 3°C à la température de l'étiglea, consolute la soction de dépannage es trouvent ci-dessous. La rempérature de l'eau s'écoulant du mitigeur thermostatique peut voirle en raison de variations de la température de l'eau froilde selon lès saisons, le clapet de non-retour est facile variations de la température de l'eau froilde selon lès saisons. Le clapet de non-retour est facile.

is l'eau alimentant le circuit est de piètre qualité ou de qualité inconaux, des filtres dobuent être couplés à l'instaliation afin que ins entrées d'eau froide du chauffe-eau et du mitigeur seierit protégées des saietés.

La temperatura deba ser comprobada al mismo desague usando al inicio de la instalación. Sí la temperatura voria más que 5 F que la temperatura inicial, consulte la guia de failos abajo. Hoy possibilidad de unación de à temperatura de agua de la vidivula mescladora termostática bajo la juntimento de la variadión de la remperatura temporate en la suministro de agua fría. La vidivala de control se puede alicanzar cómodamente para limpár.

SI el auministro de agua sea de calidad pobre o desconocida, un filtro debe ser instalados a la entrola del sistema para que la entrada de agua fila ambox el calefactor de agua y a la válvula mesciadora sean protegidos els sucretad y escombras.

COMPROBACION/MANTENBMIENTO DE LA VALVULA MEZCLADORA
Note que la vávula mezcladora termostática de una valunta de seguindal. Nosotros
recomendamos que la Návula ava comprobuta anualmente para asseguar una funcionalida
recomendamos que la Návula ava comprobuta anualmente para seguinar una funcionalida
confinua, Para instalaciones en sistema de agua de polor calidad de
agua o ambientes adversos, puede ser necesario comprobar la válvulo más frecuentemente.

Máxima variación permitida de ambos suministros de presión para controlar la temperatura de desagüe dentro ±5 °F. Cambios excesivos de presión de

5°F (2.8°C) +20%

> Caudol @ 45ps perdida de presión: Différential de température d'entrés mislenem

Apuntes:

IMPORTANT

Toute omission de se conformer à ces directives en entier est susceptible de poser des risques. Toutes les installations doivent être réalisées conformément aux exígences en vigueur dans la provínce ou la région de l'installation.

Válvulas de Retención:

del estatal, provincial y local.

caliente de la válvula. Para garantizar el funcionamiento correcto y seguro del sistema, asegúrese de que el filtro no contenga residuos y funcione correctamente Los filtros y las válvulas anti retorno se encuentran en las entradas de agua fría y

No cumplir con todos aspectos de las instrucciones puede resultar en una ejecució

IMPORTANTE

insegura. Todas instalaciones deben cumplir con las recomendaciones relevantes

Vacíe la tubería y el tanque precisamente antes de la instalación de Heatguard: Es fundamental que la tubería esté libre de todos los escombros antes de instalar l válvula. No vacíar el sistema precisamente es la mayor causa de las dificultades de

Vider complètement la tuyauterie et le chauffe-eau avant d'instailer le Heatguard: il est ESSENTIEL que toutes les saletés soient purgées de la tuyauterie avant de procéder à l'installation du mitigeur thermostatique. Pour la plupart, les difficultés de fonctionnement du système s'expliquent par une vidange du circuit mal evécutée.

Les ciapets antiretour et les crépines sont intégrés aux arrivées d'eau chaude et d'eau froide de la vanne. Pour bénéficier d'un système sur et fonctionnel, assurez-

vous que la crépine n'est pas obstruée et qu'elle fonctionne correctement.

Distribución de Temperatura

La temperatura de agua caliente suministrando la válvula mezcladora debe ser al menos de 42° f en são las que el máximo requeficio de la configuación de la válvula Todas las válvulas están configuradas por la factoria entre 105° f° y 100° fe de temperatura de salida, con 150°F de temperatura de agua caliente de entrada.

Mida y note todos los parámetros del ambiente (presión, temperatura, ettétera) y compare con las características técnicas de la válvula elegida. Si las condiciones de ambiente exceden las características técnicas de la válvula elegida. Si les tondiciones de ambiente exceden las características técnicas de la válvula ellos tienen que ser rectificadas antes de la instalación de la válvula.

Válvula No Debe ser expuesta al calor durante la instalación ya que el calor podría Válvula No Debe ser instalada al sistema suministrado por vapor sino solamente al dañar el interior de la válvula.

de congelación, un aislamiento debe ser apropiado para prevenir daño a la válvula No use exceso de sellador de roscas (en líquido, cinta y otra forma) como esto Válvula No Debe ser congelada. Si la válvula esté instalada donde haya posibilidad podría llevar la válvula a fracasar.

uniquement de feau, Le mitigeur thermostatique NE DOIT PAS être exposé au gel. Si le mitigeur thermostatique doit être instalé dans un fieu sajet au gel. Blut añors amployer un matérial asolann adequet al find en protéger celul-ci. NUTILISEZ PAS une quantité excessive de matériel d'étandeiré pour joints illedés, qu'il se précente sous drome liquides, de ruban ou sous toute autre forme, car ce matériel pourrait nuire au

ESPECIFICACIONES DE VÁLVULA MEZCLADORA

ES

105 - 110°F (40 --95-120°F (35-49°C) 120 - 190°F (48 82°C)_ 39-80°F (4-27°C)

ezca la temperatura de

Temperatura, suministro de agua Temperatura, summistro de ogua

températur désirée à l'orifice de sortie, l'instoliateur doit régler et ant minutieusement les directives faurnies sur la page suivante.

fonctionnement du mitigeur thermostatique.

*NOTE: Paur que l'eau mitigée sait à la température désir
vénifer la température di la sortie en suivant minatieuseme

en intgeur remnostratue NE DOTP AS être exposé à la chaleur durant l'installation, car cela pourrait endommager ses composants internes. Le misigeur thermostatique NE DOIT PAS être coupié aux installations à vapeur, mais installations contenant

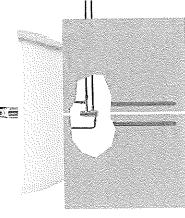
Mesurez et prenez en note tous les paramètres du lieu d'installation : la pression, la température, etc. Comparez les données aux caractéristiques du mitigeur thermostatique chols, si lise paramètres du lieu d'installation ne se conforment pas aux caractéristiques du mitigeur hermostatique, il faut alors procéder aux rectifications du lieu avant d'installer le mitigeur.

La température de l'eau chauda alimentant le mitigeur thermostatique doit être supéreur d'au moints 15. Cau réglage maximal du mitigeur. Datude mitigeur est régleur est régle pour que le monéralure de l'eau distribuée soit entre 40.6 °C et 30. dairs que la température de l'eau distribuée soit entre 40.6 °C et 30. dairs que la température de l'eau chaude à l'entrée du mitigeur soit à 66 °C. °C. dairs que la température de l'eau chaude à l'entrée du mitigeur soit à 66 °C. °C.

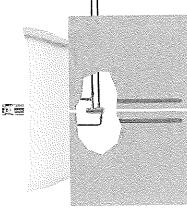
Température de l'eau distribuée:

*NOTE: Para socgurar la distribución descada de temporatura del agua makta al desaguio, el instalador deba que ajusta y verificar la temporatura al desagüe alguiendo instrucciones con cuidado en la página siguiente,

INSTALLATION TYPIQUE ASSE 1070 TYPICAL ASSE 1070 INSTALLATION



INSTALACIÓN TÍPICA ASSE 1070



٨

MIXING VALVE TEMPERATURE ADJUSTMENT / RÉGULATION DE LA TEMPÉRATURE / AJUSTE DE TEMPERATURA DE LA VÁLVULA MEZCLADORA

Prior to setting the avaive it is necessary for the hot water source to be switched on and delivering hot water at the design temperature. / Avant de régien la température du mitigeur thermostatique, il faut rétabilir l'alimentation en eau chaude et que celle-ci s'écoule à la température normale. / Antes de configurar la vaivula es necesario que la fuente de agua caliente a la températura diseñada

Using a thermometer, test the mixed water temperature at the nearest outlet was gupplied by the valve. This should be opened to allow a minimum flow rate of 1.5 gpm (£, Urin). Allow the water to run for at least one minute to ensure the mixed water temperature has settled.

/min, (1,5 gal./min.). Laissez feau s'écouler pendant au moins une minute afin que la température de l'eau mitigée se stabilise. Utilisant un thermomètre, vérifiez la température de l'eau mitigée au point de sortie le plus près de robinetterie alimenté par le mitigeur. L'appareil de robinetterie doit être ouvert de sorte que l'eau s'écoule au débit d'au molins 6

más cercano suministrado por la válvula. Esto debe ser abiento para permitir el mínimo caudal de 1.5 gpm (6/L/min). Permite el agua a correr por lo menos de un minuto para asegurar que la temperatura del agua mixta se ha reposada Usando un termómetro, examíne la temperatura del agua mixta al desagüe

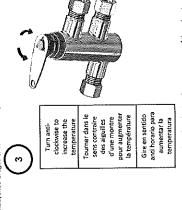




To access the temperature adjustment mechanism, unscrew the cap.

Pour accéder au mécanisme d'ajustement de la température, dévissez le

Para acceder al mecanismo de ajuste de la temperatura, afloje la tapa.



Tourner dans le sens inverse des aiguilles d'une montre pour réduire la

Gire en sentido

température

horario para reducir la

temperatura

To adjust the mixed outlet temperature of the valve, turn the spindle using the adjustment tool – clockwise to reduce the temperature, counter clockwise to increase the temperature - until the desired set point is reached.

Para ajustar la temperatura mixta de la salida de la válvula, gire el eje usando la herramienta de ajuste – en sentido horario para reducir la temperatura, en Pour règler la température de l'eau à la sortie du mitigeur thermostatique, il faut tourner la tige en utilisant l'outil de réglage - en sens horaire pour abaisser la température ou dans le sens antihoraire pour augmenter la température.

sentido anti horario para aumentar la temperatura – hasta que se obtiene el puto de ajuste diseñado.

Temperature for instant to the device or unstainment or expection. **Carlotter or against an experiment or against an expection.** **Carlotter set an instantion or against an experiment or against a congestion receipt instantion or against a congestion receipt and experiment or against a formation or against a congestion receipt a summittee permitted **Carlotter congestion receipt a summittee or acquesion or "Chiadore estal proligousia de forma intention permitted **Carlotter constantion or action of the properties.** **Chiadore estal proligousia de forma intention or mentidos.** **Caladore estal proligousia de forma intention or mentidos de particular ha cambidade de carlotte.** **Caladore estal plosquadore.** ***Caladore estal plosquadore.** ***Caladore estal plosquadore.** ***Caladore estal plosquadore.** ****Caladore estal plosquadore.** *****Caladore estal plosquadore.** ********* ********** **********	FRACASO/SINTOMA	CAUSA	RECTIFICACION
devin de un naummitten ergenetion, Los aummenten de napa delitet y fils estain reventifien, Condidore testa histogrador, Freden de cummistro en comple aummistro permittals de incontrator de aummistro permittals violatiores estatas independas. Violatiores estatas independas. Violatiores estatas de autores Aummistro permittals violatios de autores aummistro permittals aummistro perm	1) La temporatura del acua	- Temperaturas de entrada no cabe	- Asegure que fas temperaturas de la
to continue to the continue to	mist december on charles see	deotra de un parámptios	entrade caben con los límites especificados
Constitution of space culturary (1967) Constitution of spac	and the same of th		de la collecte
Les cannettes de agua calitat y fut cettal revertion. Condette esta blocassare. - Pretain de controlle de controlle de controlle de controlle controlle de controlle controlle de controlle controlle de controlle de controlle de controlle controlle controlle controlle de controlle controlle de controlle c	obtavida e es dificil de	especificos.	De la valvuia.
He estate when these considers estate beloageare, "Considers estate beloageare, "Presents for ministron out analysis of the considers estate beloageare, "Presents for estate financiares (and the considers estate beloageare). The considers estate beloageare, "Considers estate beloageare, "Considers estate beloageare," "Les ammistro for the considers and estate to the considers estate begonates. Considers estates begonates. Considers estates begonates. Considers estates begon	configurar la válvula.	 Los sumieistros de agua callente y 	 Repare fos ajustes de las volvulas con los
Considerate channessen, referent because, referent experimentary of any of a capacitation plantacide of summittee plantacide of summittee plantacide of summittee channessen, - Treatail site annihilation bloom control of the summittee channessen, - Treatail site annihilation de laga calleatery in site annihilation de laga calleatery in some summittee channes Treataco de summittee channes		fría están invertidos.	suministras de agua fria y caliente.
to capedicate the parameter of con- special capedicate the parameter of capedicate the capedicate of capedicate the capedicate capedicate the		 Coladores están bioqueados. 	- Limple fos coladores.
Con experimente purhados es sumestra permitido -/- 70 V/sl. - Crisidatore cutab biogradaria: - Presida de suministra factoriam en l'Adadore cutab biogradaria: - Presida de suministra factoriam en l'Adadore cutab biogradaria: - Presida de suministro de apia callector y la som remotito de apia callector de som remotitor de apia de censor de suministra de apia de censor de suministra de apia de censor de suministra la censor de suministra de censor de censor de censor de censor de censor de suministra de censor d		- Presion de suministro no cumplio	- Coloque válvuías reguladoras de presión
summistre permitties +1,-20 %, -Claidene estate dioquestionClaidene estate dioquestionVanial esta compliante for amendate for the summission for consideration of the summission of the su		con especificationes (variación de	para que el suministro cumpta con fas
Cristions established included in Present at summission for many in the control of the control o		summistra permitida +/- 20 %).	especificaciones.
Crisidence cuts in the consensus. Versidence cuts in the committee of			
Trescing te symmistre discourse. Valence est solligiousis de ferma infecteurs. Lis symmistre des agos callette fres est solligiousis de ferma infecteurs. Lis symmistre des agos callette fres est solligion de callette fres est solligion fres has cambidade de restrada. Comunita to full discourse des municipits de segois callette fres est solligion fre	2] La temperatura mixta es	- Coladores están bloqueados.	· Eimpie los coladores.
- Valenda está colliguada de forme interestrat La summitte de la callette for son merendes Il de son merendes Il de de telesche de actividade de centrada Granda de telesche de la callette de centrada Granda de telesche de la centrada de telesche de la centrada de	inestable o cambla con el	 Presión de suministro fluctuante. 	- Instale valvulas regisdoras de presión a
"Chouse act of collegues de Perma incentral. "Las jumpicos de agua caliente y fiss annimentales. "Es ago Efficiente ha cambidor de restorale. "Comunite cambidor de agua contrada. "Comunite cambidor de agua contrada de agua	иемро.		ambos suministros de agua fria y caliente.
Interiories - Las animetricos de agin callente y firs son merendos. 18 agon terredos. 18 agon terredos terredos de agon collecto el presento agon terredos de aministre de agon collecto esta leberación. 18 agont terredos terredos terredos terredos estatos de agua agont terredos estatos de agua agont terredos estatos de agua a videos servicios estatos en agon a videos servicios estatos en agua a videos estatos en agua a videos estatos en agon a video estatos en agon a video estatos en agua a video estatos en agon a vid	3) Agus completamente	· Valvula está configurada de forma	- Ajuste la temperatura mixta como
- Los summissiones against to the control of the co	calente o completamente fria	incorrects.	requerida.
in support between the company of th	corre del accesorio de	 Los suministros de agua callente y 	 Restablezca los ajustes de la válvula con
- Til ago britzilante ha cambided de retebas Genaute tambideo de para frazana de suminibio de agos cambideo de agos cambidos de para frazante de estan de agos - Videolode deceniva de agos - Videolode de estan de agos - Videolode de agos - Videologe - Videologe - Videologe - Videolo	desagie.	fris son trivertidos.	los suministros de aqua fría y callente
de entroda. - Comento arteribles de junto 1. - Flectaco de sumistro de agos de la colonida de arteribles de almostro llectuante de la colonida de arteribles de aguados. - Videndad escribido están de agua la colonidad escribida de agua la colonidad escribida de agua la colonidad escribido de aguado	3	- El agus fria/calente ha cambiado	instalado en la conexión correcta.
- Canaute tembles of purite 1 Canaute tembles of purite 1 Chacata de suministro de apai contrata de suministro de apai contrata de suministro de apai contrata de apai contrata de apai contrata de suministro luctuares presentados Videndas de retarios de apai - Videndas		de entrada	 Venilgue și la valvula de retención esté
- Franzo de suminho de agos cultoras o fila. Colonizar o fila. Colonizar esta plequedos Conductor setás hospanator Presión de suminipro linctuante - Presión de suminipro linctuante - Videndad escribro estan - Videndad escribro de agus - Videndad escribro de agus - Videndad escribro - Presión de agus - Videndad escribro - Responsaciones		Consulte tamblés el punto 1.	fallada y limpie si necesano.
Tritication in survivipire de agua collector o fuita de agua collector o fuita de agua collector de agua collector o fuita de agua colle			
culiento in cultura de	4) No hay flujo del suministro	- Fracaso de suministro de agua	- Restaure las entradas de los suministros y
Collaborate vicin languages Collaborate vici	de desaglie de válvula.	collente o fría.	verificar la temperatura relata.
Cobsidere staffs broquesation, Fresión se summittro lindicator Vibradas de retrierdos están delsas.	i	- Coladores están bioqueados.	- Limple los caladores.
Presidence summission luctuates Victionals de reterroda estate deficies Victionals de sector de agua Victional de agua Victional de agua Victional de agua	5) Caudal reducido o	 Coladores están bloqueados. 	- Limple hs coladares.
Vibinaba der retrierden estan dababas. Vibinabas der retrierden estan dababas. Vibinaba der estan der estan dababas der estan der estan der estan dababas der estan der es	fluctuante	- Presión de suministro fluctuante	 instale valvulas regizdoras de presión.
Visionals de recordos estas detados. Visionals de recordos estas detados. Videncidos decenhos de agua fueba fu	6) La temperatura de agua		- Pongase on contacto con al servicio de
. Videndar de reterioda etida definidas. . Videnda excerto de agua . Videnda excerto de agua Procerciamente.	mests no camble cuando el		atención al ciente de Reliance Worldwide
-Valends de reterioles plus defectos -Valendidad excestos de agua -Valendidad excestos de agua -Valendidad excestos de agua	aluste de temperatura es		Corporation.
Volendas de reterindos están debadas. Volendada deserva de agua Volendada encreava de agua Volendedad encreava incorrectamente.	alterado.		
dehistor Velecidad excerto de açus - Váleula rescurada Incerrectamente	7) Agua caliente corre af	· Válvulas de retención están	- Emple las válvulas de retención
Velocidad excesses de agus Vélocidad excesses de agus Vélocidad excesses de agus Vélocidad excesses de agus Incerrectamente	sistema de agua fela o	dafladas.	asegurándose de que el escombro está
- Volecidad excesiva de agua - Vákula smeurada Incorrectamente	viceversa.		elminado.
	8) Válvuta es ruidosa	- Velocidad excesiva de agua	- Reduzca la velocidad de agua (mejor
		- Válsula mesurada	realizado por lestalar una valvela
- Aluxte is especificación de válvula judicia específicación de válvula apriopla específicación de válvula específicación de válv		Incorrectamente	regladora}
avegürese de que la volvula aproplar			- Aluste is especificación de válvula y
	-		asogúrese de que la volvula aproplada esté

- installaz des régulataurs de pression aux conduits d'olimentation en oau chaude et et

Inverses.

- ses filters aont abstrues.

- Pressions d'allimentation froir plage
(variation d'allimentation autorisée:
4/- 20 %)

specifices.
- Les conduits d'alimentation en ca chaude et en cau frode sont

température voidue qu'il est difficille de région le mitigour thormostatique.

Ensure Indet temportations are within the specified hints for the valve. "After the valve with viet/Cold supplies fitt to the correct connections. "Clean strangers."
—Clean strangers.
—Install PRA's to bring supplies within specification.

RECTIFICATION

CAUSE specific Emits. -Hot and cold supplies are reversed.
-Stranners are blocked.
-Supply pressures out of specification (pormitted sul variation +/- 205)

AULT / SYMPTOM
The desired mixed water
moreture caned be
trained or valve is difficult to

-Réinstailes, le mitigeus thetmostatique en veitiont aux conduits d'alémentation en eu-chaude ot en eau froide soient colopiés aur

Los condeits d'allmontation en Pau haudo et en eau froide sont L'esu chaude/froide a migré ven sutre artivée.

3) L'eau patibrement chaude oo eniterement froide s'ecoule de l'apparoil de robinetterie.

Adjust mix temperature as required.

Refa the valve with Hed/Cold supplies fitted to the correct connections.

Once to moveture valve is not touled. Grean Kneessary.

-Valve is incorrectly set.
-Note is an cold supplies are reversed
-Not/Cold water has migrated to
other lafet.
-Refer also to point 1.

Either full hot or full cold ster flowing from outlet sure.

No flow from the valve

Gleun strainers.
-install pressors regulating valves on both hot and cold supplies.

Strainers are blocked. Fluctualing supply pres

Mix temperature unst

Nettoyaz les filitæ. Installaz des régulateurs de pression.

Les filtres sont abstrues. Variations des pressions

ontact customer service at Reliance Vorldwide Corporation Čleza Straloors. Instali pressure regulating valves.

Deje una copia de estas instrucciones con el cliente para referencias en el tuturo. <u>Encomande al cliente, que</u> E<u>n vábuala es comprebada anualmente para asseguer se función instrumpido.</u>

Hebiase I witers d'écoloment de l'esu.

La melleurez sobiate avessit à intaille un régulateur de presuin .

-Veriles interrateiristiques du miligeur phenentalique et voiller reliuer la miligeur qui eneurer s'ulor à 6988.

- L'esu c'écoule à une vitasse excessive.

Reducto water velocity (best achieved by fitting a pressure regulating valve).

Check valve specifications and ensure the appropriate valve is used for required flow.

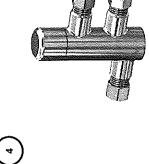
Valve sized incorrectly.

Hot water flows into the 4d water system or vice

Leave a copy of these instructions with the citem for future reference. <u>Recommend to the citems that the</u> upon a copy of these inchested annuality to entwer its continued function.

Nettoyot les dapets de non-re veillant à retirer toute la saleté.

Lajszer une copie do cette notice avec ie client pour leur information. <u>Contstillet au diont que le mitievur</u> soit vérillé chaque, ans sour essurer son bon fondionnements



Turn clockwise to reduce the

temperature

Replace the cap to deter tampering.

Remettez le capuchon pour éviter les manipulations non souhaitées.

Cambie el mando para disuadir a manipulación



Reliance Worldwide Corporation

Customer Service : 1-877-700-4242 Fax: 1-877-700-4280 E-mail: sales@cashacme.com 2300 Defoor Hills Rd NW Atlanta, GA 30318

Reliance Worldwide Corporation (Canada) Inc. 74 Alex Avenue

Customer Service: 1-888-820-0120 Fax: 1-905-265-2775 E-mail: canadasales@rwc.com Vaughan, Ontario LAL SX1, Canada

Pour de l'information au sujet de la garantie, allez à: Información sobre la garantía, visite las páginas: For warranty information, please visit:

www.cashacme.com www.cashacme.ca

10549 Rev. B



Transmittal

PROJECT:	New Dormitories Booneville Huma	an Develo		S	MA PROJECT NO:		
	Booneville, Arka	nsas		D	ATE:	January 2	3, 2023
TO:	Alessi Keyes Co 10623 Maumelle North Little Rock	Blvd.		in	enclosures are not form us immediately checked below, ple	y	ase
ATTN:	Charley Dawson	l		·	Acknowledge Return enclose	receipt of encl	losures.
WE TRANS	MIT·						
	X Herewith		Under separate cove	er			
	Courier Overnight delivery		Mail Fax		E-mail X Other		
FOR YOUR:	Approval/Action Review & comment		Information X Use		Use as request Other	ted	
THE FOLLC	Drawings X Submittals Change Order		Specifications Proposal Request Samples		X Digital Files - F Digital Files - C Other		
COPIES	DATE	REV. NO.		DESCRIPTION			ACTION CODE
1	1/23/2023		Commercial Sinks				В
	A. No action required B. Action indicated on item to	ransmitted	C. For signature and re D. For signature and fo	turn to this office rwarding as noted below ur	nder REMARKS	E. See REMA	RKS below
REMARKS							
COPIES TO		(with enclosures)				_
Rex Morri	s, Morris AE		⊠ □ □ By: T	rey Tassin			
_							

401 W. CAPITOL, SUITE 402 LITTLE ROCK, AR 72201 PHONE 501-370-9207 FAX 501-370-9208 www.stocksmann.com



Submittal Comment Sheet

To: Randy Stocks, Stocks-Mann Architects

From: Rob Adams, BTME Date: January 23, 2023

Project: Booneville HDC Building #6

Project # 01-20-0003

SS_1

Ref: 22 42 16-16.02 Commercial Sinks Submittal

Submitted By: Alessi Keyes Construction

APPROVED					
REJECTED					
REVISE AND RESUBMIT					
REFER TO SUBMITTAL COMMENT SHEET					
This review performed by Bernhard TME, LLC, is only for general conformance with the design concept of the project and general compliance with the information provided in the Contract Documents. Corrections or comments made on the submittal and/or shop drawings during this review do not relieve the Contractor from compliance with the requirements of the plans, spedifications, and other contract documents. Approval of a specific item shall not indicate an approval of an assembly of which the item is a component. Contractor is responsible for the following: all quantities; configuration of components; dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work with that of all other trades; and, for performing all work in a safe and satisfactory manner.					
Bernhard TME Engineering					
DATE: 01/23/23 BY: R. Adams					

APPROVED APPROVED

١.	33-1	AP	PROVED
2.	S-1		
3.	S-2	AP	PROVED

4. S-3

- End of Submittal Comments -

THIS REVIEW PERFORMED BY BERNHARD TME, LLC, IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTAL AND/OR SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE AN APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: ALL QUANTITIES; CONFIGURATION OF COMPONENTS; DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES; AND, FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.



SUBMITTAL SHEET

Alessi Keyes Construction Co. AKC-505 - Booneville HDC New Dorm

Project: AKC-505 Booneville HDC New Dorm Spec Section Num: 22 42 16 Submittal: 22.20 Revision: 0

Package: Plumbing

Date: 1/19/2023 UTC

Submittal Title: Commercial Sinks

Submittal Detail:

Response Due By: 2/15/2023 UTC

Contractor: Charley Dawson Alessi-Keyes Construction Co.	Contractor's Stamp

Architect: Trey Tassin Stocks-Mann Architects

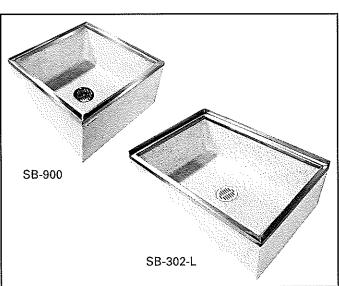
Architect's	Stamp		

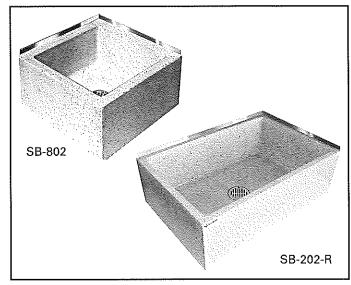
Response: Comment:

SS-1 SERVICE SINK
WILLIAMS SB900 TERAZZO MOP BASIN
BP-2-24 WALL SPLASH GUARD
T-35 HOOK AND HOSE
T-40 MOP HANGER
T&S B-0665-BSTP-CER FAUCET

Model No. () Size (), as manufactured by Stern-Williams Co., Inc. Shoulders shall not be less than 9-3/4" high inside measurement, and not less than 1-1/4" wide. Tiling flange, cast integral, shall extend 1" above shoulder on 1,2 or 3 sides (as job required). Drain shall be cast brass with stainless steel strainer cast integral and shall provide for a caulked lead connection not less than 1" deep to a 3" pipe. Receptor composed of pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains. Stainless steel cap of one piece 20 ga, 302 stainless steel cast integral on all four sides.

STERN SERVICEPTOR MOP SERVICE BASINS **ARCHITECTURAL SPECIFICATIONS**





WITH STAINLESS STEEL CAP

ı	INICOLL	LARGES
	24" X 24" x	12"
į	8-900	without tiling flange
1	SB-901	w/tiling flange -1 sd.
	SB-902	w/tiling flange - 2 sds.
	SB-903	w/tiling flange - 3 sds.
	32" X 32" x	: 12"
	SB-700	without tiling flange
	SB-701	w/tiling flange -1 sd.
	SB-702	w/tiling flange - 2 sds.
	SB-703	w/tiling flange - 3 sds.

FLANGES

MODEL

MODEL	FLANGES
36" X 36" x	12"
SB-500	without tiling flange
SB-501	w/tiling flange -1 sd.
SB-502	w/tiling flange - 2 sds.
SB-503	w/tiling flange - 3 sds.
36" X 24" x	12"
36" X 24" x SB-300	12" without tiling flange
	without tiling flange w/tiling flange -1 sd.
SB-300	without tiling flange
SB-300 SB-301	without tiling flange w/tiling flange -1 sd. w/tiling flange - 2 sds. w/tiling flange - 2 sds.
SB-300 SB-301 SB-302-L	without tiling flange w/tiling flange -1 sd. w/tiling flange - 2 sds.

^{*} Flange is across back and on LEFT side on model numbers ending in "L".

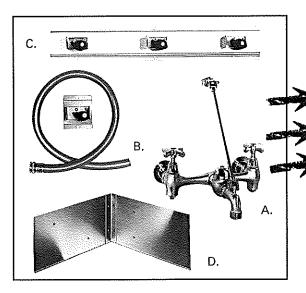
WITHOUT STAINLESS STEEL CAP

MODEL

MODEL	FLANGES
24" X 24" x	12"
SB-800	without tiling flange
SB-801	w/tiling flange -1 sd.
SB-802	w/tiling flange - 2 sds.
SB-803	w/tiling flange - 3 sds.
32" X 32" x	12"
SB-600	without tiling flange
SB-601	w/tiling flange -1 sd.
SB-602	w/tiling flange - 2 sds.
SB-603	w/tiling flange - 3 sds.

36" X 36" x	12"
SB-400	without tiling flange
SB-401	w/tiling flange -1 sd.
SB-402	w/tiling flange - 2 sds
SB-403	w/tiling flange - 3 sds
36" X 24" x	12"
SB-200	without tiling flange
SB-201	w/tiling flange -1 sd.
SB-202-L	w/tiling flange - 2 sds
SB-202-R	w/tiling flange - 2 sds
SB-203	w/tiling flange - 3 sds

FLANGES



QUALITY OPTIONAL FITTINGS

A. **T-10-VB** Mop-Service sink fitting with vacuum breaker, adjustable top brace, 3/4* hose thread on spout with bucket hook inlets 8* on center, chrome finish.

T-15 VB same as above with polished chrome finish.

T-35 Hose and wall hook. Hose 36" long, with 3/4" chrome couplings. Wall bracket of stainless steel.

T-40 Stainless Steel Mop Hanger of stainless steel with #4 finish. . . 24" long, with 3 rubber spring loaded grips.

BP Splash Catcher Panels of 20 ga. type 304 stainless steel.

JOB

ARCHITECT

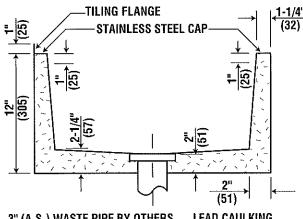
LOCATION

ENGINEER

^{*} Flange is across back and on RIGHT side on model numbers ending in "R".

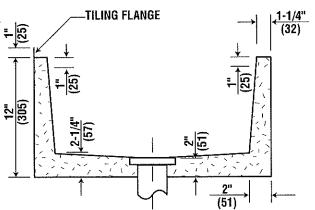
CROSS SECTION 900, 700, 500 AND 300 SERIES

CROSS SECTION 800, 600, 400 AND 200 SERIES



3" (A.S.) WASTE PIPE BY OTHERS EXTENDS 1" (25 MM) ABOVE ROOM FLOOR

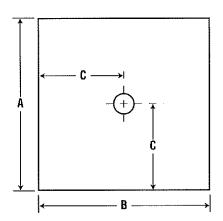
LEAD CAULKING BY OTHERS

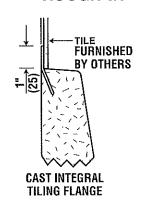


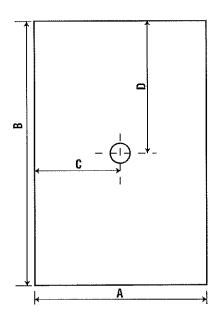
3" (A.S.) WASTE PIPE BY OTHERS EXTENDS 1" (25 MM) ABOVE ROOM FLOOR

LEAD CAULKING By Others

ROUGH-IN







Height all models 12", 305 MM

SERIE	S A		В		C	
	INCHES	MM	INCHES	MM	INCHES	MM.
900	24	610	24	610	12	305
800	24	610	24	610	12	305
700	32	813	32	813	16	406
600	32	813	32	813	16	406
500	36	914	36	914	18	457
400	36	914	36	914	18	457

Height all models 12", 305 MM

SERIES A		В	}	C D				
	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
300	24	610	36	914	12	305	18	457
200	24	610	36	914	12	305	18	457

Note: All dimensions subject to manufacturing variance of plus or minus 1/4" (6 MM).



Submittal Comment Sheet

To: Randy Stocks, Stocks-Mann Architects

From: Rob Adams, BTME

Date: February 2, 2023

Project: Booneville HDC New Dorm (Bldg #6)

Project # 01-20-0003

Ref: 22 42 16.16-02 Commercial Sink (Service-Sink Resubmittal #1) Submittal

Bernhard TME

Submitted By: Alessi Keyes Construction

Below find our response for the submittal received on Wednesday, February 1, 2023.

1. SS-1 APPROVED

- End of Submittal Comments -

THIS REVIEW PERFORMED BY BERNHARD TME, LLC, IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTAL AND/OR SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE AN APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: ALL QUANTITIES; CONFIGURATION OF COMPONENTS; DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES; AND, FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

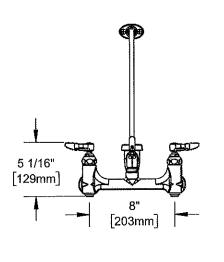
TAG:

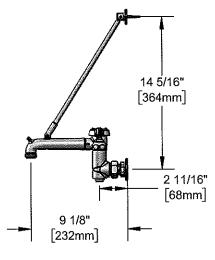
Service Sink Faucet

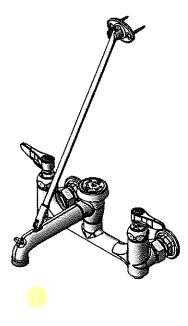
Architect/Engineering Specifications:

8" wall mount mixing faucet with polished chrome plated brass body, polished chrome plated brass spout with vacuum breaker, pail hook and garden hose male outlet, compression cartridges with spring checks, lever handles, 1/2" NPT female inlets, built-in service stops in body and upper support rod. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9, NSF 372 and ASSE 1001. Meets ADA ANSI/ICC A117.1 requirements.

Job Name_ Quantity___ Model Specified Variations Specified Date







Features & Benefits:

- 8" wall mount mixing faucet with polished chrome plated brass body
- Vacuum breaker spout with pail hook & 3/4" garden hose outlet
- Quarter-turn Eterna compression cartridges with spring checks to prevent cross flow of water
- Lever handles with color coded indexes
- 1/2" NPT female eccentric inlets with Ø 2" flanges
- Adjustable centers from 7 3/4" to 8 1/4"
- Built-in service stops in body
- Upper wall support
- Material: Polished chrome plated brass body & spout and chrome plated metal handles

Product Compliance:

- ASME A112.18.1 / CSA B125.1
- NSF 61 Section 9
- NSF 372 (Low Lead Content)
- ANSI A117.1 (ADA)
- ASSE 1001 (VB)

Warranty: One Year (Limited)

Performance Data:

Pressure: 20 - 125 psi Temperature: 40°F - 140°F

Flow Rate: 12.96 GPM @ 60 psi









Optional Handles

- □ 4" Wrist Action
- □ Lever (Standard)
- □ 4-Arm

Optional Cartridges With Checks

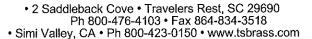
- ☐ Quarter-Turn Cerama w/ Check Valve
- ☐ Quarter-Turn Eterna w/ Spring Check (Standard)













Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 12/1/2022

Return Request: 12/11/2022

Project: New Dormitories – Bldg. 6 **Supplier:** Little Rock Winnelson

Manufacturer: Various Submittal: Commercial Sink

Submittal Number: 22 42 16.16-01

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Stocks Mann Architects 401 W. Capitol, Suite 402 Little Rock, AR 72201 501-370-9207

GENERAL CONTRACTOR

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

ENGINEER

Bernhard TME 1 Allied Drive #2600, Building 2 Little Rock, AR 72202 501-666-6776

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:				

CSUSA PROJECT NO. 22-102

jon@comfortar.com

S-1 SINK
ELKAY LRAD1919 6.5" STAINLESS STEEL SINK
T&S B-2741/B-0199-07 FAUCET
LK18B STRAINER
Z8802LK SUPPLY AND STOP
Z8702PC 1-1/2" CAST BRASS P-TRAP
CASH ACME 24510 THERMOSTATIC MIXING VALVE

Elkay Lustertone Classic Stainless Steel 19-1/2" x 19" x 6-1/2" Single Bowl Drop-in ADA Sink

Model(s) LRAD191965

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 6-1/2". Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

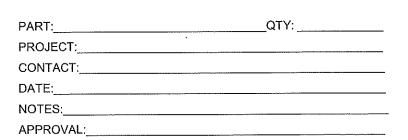
Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 6-1/2"
Bowl 1 Dimensions:	16" x 13-1/2" x 6-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

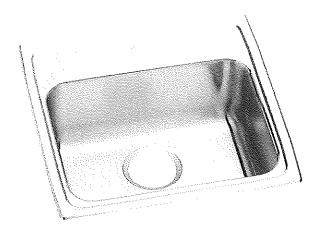
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Custom Options		
☐ Type 316 Stainless S	leel	
Drain Location		
□ Right Rear	□ Left Rear	
□ Center	□ Center Rear	
Overflow Location		
□ Front	□ Rear	
Alternate Punching		
□ Faucet Model:	□ Punch Required:	
Sink Size		
□ Bowl Depth:	☐ Drainboard Width:	





AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and



Product Compliance:

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

Buy American Act



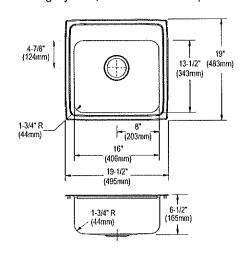
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF) Installation Instructions (PDF) Warranty (PDF)

Similar models are available with: CuVerro antimicrobial copper, Quick-Clip Mounting System, additional ADA depths

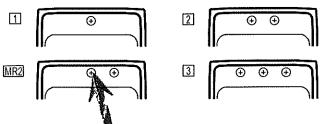


In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

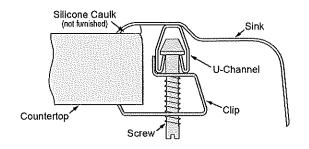


Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



Installation Profile:



Optional Accesso	ries	
<u>CB1613</u>	Elkay Hardwood 16-3/4" x 13-1/2" x 1" Cutting Board Spec Sheet (PDF)	
CB1713	Elkay Hardwood 13-1/2" x 17" x 1" Cutting Board Spec Sheet (PDF)	
CBS1316	Elkay Hardwood 14-1/2" x 17" x 3/4" Cutting Board Spec Sheet (PDF)	<u>C</u>
LK99	Elkay Deluxe 3-1/2" Drain Type 304 Stainless Steel Body Strainer Basket Rubber Seal and Tailpiece Spec Sheet (PDF)	
LKAD35	Elkay 3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece Spec Sheet (PDF)	

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model	Νo
-------	----

B-2741

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 6	000-423-0130 • Fax. o	04-03-33 to * www.tsbtass.com	
6"	[Z]	This Space for Architect/Engineer	Approval
[152mm] — =		Job Name	Date
Maximum	ADA Compliant	Model Specified	Quantity
(A) PERFECTION (A)		Customer/Wholesaler	
		Contractor	
		Architect/Engineer	
Hot Cold			
		5 3/4"	
		[145mm]	
5 3/4" Swivel ————————————————————————————————————			
B-0199-06			
VR 2.2 GPM Aerator. Rigid Conversion Requires			
014200-45 Lock Washer (Included)			
▼•			
Ceramic Cartridge w/ Temperature Limit Stop-	<u></u>		
	†		
	5 3/1		
	6 3/16" [132m	7.0	
Temperature Index	[158mm] Full "ON		
φ2 1/8"			<u> </u>
[54mm] Base			
	√ Ø2" [51mm] Ba w/ 1/2" NPSM I	ase	4
Brass Lock Nut &	WI IIZ NPSIVII	viale inlet	1 1/8"
Threaded /			_ [29mm] Maximum
Locking Rod			Thickness
(2) 16" Flexible	Stainless Steel		
Hoses w/ 3/8"			
Rough-in Requirement:			
│ Swivel Deck Flange: ∅1" [25mm] Hole			
Sidemount: Ø1 1/2" [38mm] Hole		Product Compliance:	
Product Specifications: Single Lever Side Mount Remote On/Off Control	l Race Faucet Cor		

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Temperature Limit Stop, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

03/03/20 Sheet: 1 of 2 Approved: JHB Scale: 1:4 KJG Checked: LSA Date: Drawn:



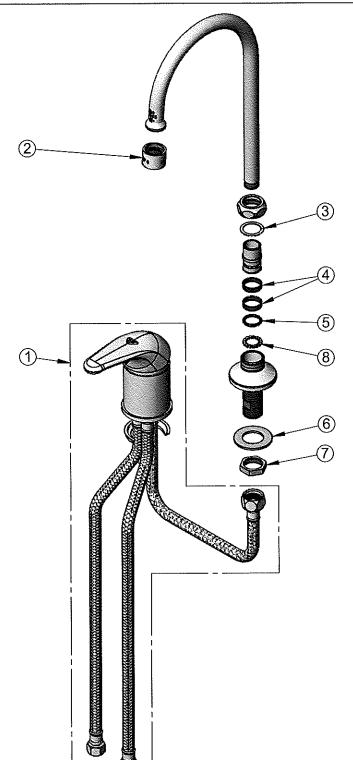
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2741

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



,							
ITEM NO.	SALES NO.	DESCRIPTION					
1	B-2740	Side Mount Single Lever Control Faucet					
2	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key					
3	009538-45	Swivel Washer					
4	011429-45	Swivel Sleeves (2)					
5	001074-45	O-Ring					
6	000999-45	Brass Lock Washer					
7	002954-45	Shank Lock Nut					
8	014200-45	Star Washer, Anti-Rotation					

015425-45 Vandal Resistant Key

Product Specifications:

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Temperature Limit Stop, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: KJG Checked: LSA Approved: JHB Date: 03/03/20 Scale: NTS Sheet: 2 of 2



T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

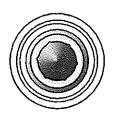
Model No.

B-0199-07

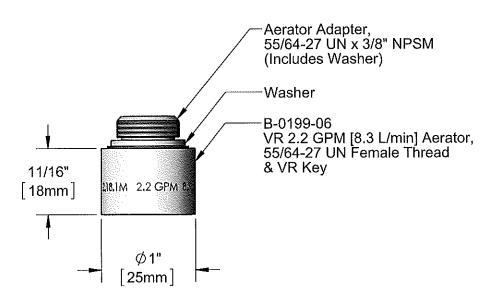
Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval					
Job Name	Date				
Model Specified	Quantity				
Customer/Wholesaler					
Contractor					
Architect/Engineer					







Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

Sheet: 1 of 2 03/26/15 Checked: JRM Approved: JHB Date: Scale: Drawn: DHL



T&S BRASS AND BRONZE WORKS, INC.

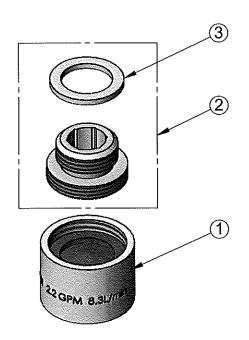
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

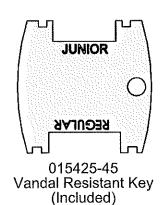
B-0199-07

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	ITEM NO.	SALES NO.	DESCRIPTION
i	1	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key
	2	044A	3/8" to Aerator Adapter
	3	001043-45	Washer





Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

D	DIII	Charlend	IDM.	Annroyadi	JHB	Date:	03/26/15	IScale:	NTS	ISheet: 2 of	f 2 1
IDrawn:	DHL	IChecked:	JRM	Approved:	JUD	Date.	03/20/13	Johane.	INIO	JOHEEL, Z OI	

Model(s) LK18B

PRODUCT SPECIFICATIONS

Elkay 3-1/2" Drain Type 304 Stainless Steel Body Strainer and Tailpiece. Overall dimensions are 4-5/8" \times 4-5/8" \times 6-5/8". Made of Stainless Steel.

Material:	Stainless Steel			
Finish:	Polished Stainless Steel			
Dimensions:	4-5/8" x 4-5/8" x 6-5/8"			
Shipping Weight:	1 lbs.			

- EXTRA DEEP STRAINER BASKET: Removable basket is 3" deep to catch food scraps. Handle allows for easy removal and minimizes contact with scraps.
- 1-1/2" O.D. x 4" tailpiece.



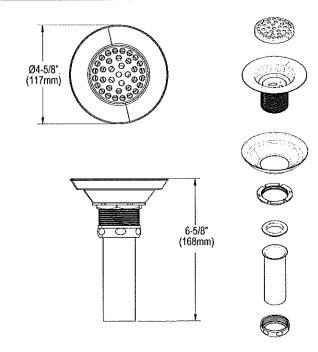
AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Product Compliance:

ASME A112,18.2/CSA B125.2

Clean and Care Manual (PDF) Installation Instructions (PDF)



PART:	QTY:	
PROJECT:		_
CONTACT:		
DATE:		
NOTES:		
APPROVAL:		

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.





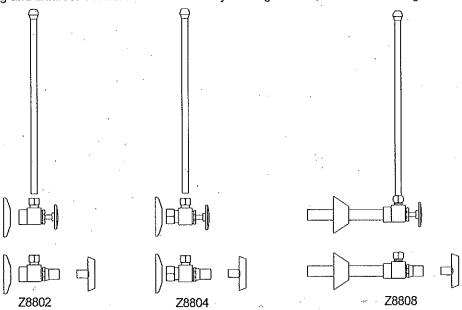
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

TAG

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels. Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



	PRODUCT		4.5	MASTER	WEIGHT CARTON	
	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24	
	Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD		25		25
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	_	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33

SUFFIXES

- 36

Single supply option Standard Line Lock Shield Cap - C1 Chrome Plated, Cast Brass, Flange with setscrew - CE Chrome Plated Steel, Deep Bell Flange (Bell Type) - D Wrought Brass, Deep Flange, (Bell Type) - WD Cross Handle - XP 15[381] Supply Tube - 15 20[508] Supply Tube 20 - 30 30[762] Supply Tube

36[914] Supply Tube

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733 Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED + 3544 Nashua Drive + Mississauga, Ontario L4V1L2 + Phone: 905/405-8272 Fax: 905/405-1292



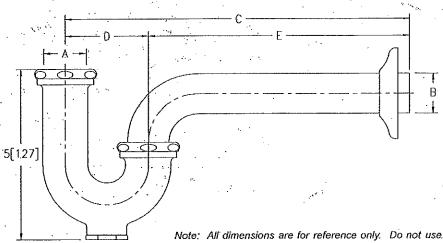
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

 -/	١	_	~
Į.	4	1	7
 ,	•	•	_



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

		•						
PRODUČT	Α	В		D	IMENSION	IS .	MASTER	
NUMBER	INLET in [mm]	OUTLET in[mm]	GAUGE	· C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	·15[381]	2 1/2[64]	12.1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1.1/2[38]	1 1/2[38]	- 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12.	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	. 1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17.	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32].	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONAL ACCESSORIES -

Suffix		Description
	-B	Brass Nuts
	-BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	-J	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

- * COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET
- ** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC . COMMERCIAL BRASS OPERATION . 2640 SOUTH WORK STREET . FALCONER NY 14733 Phone: 1-800-997-3876 • Fax: 1-919-775-3541 • www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED • 3544 Nashua Drive • Mississauga, Ontario L4V1L2 • Phone: 905/405-8272 Fax: 905/405-1292

CASHACME

Heatguard® 110-D Series-Lead Free

DESCRIPTION

The **Heatguard® 110-D** is a Temperature Actuated Mixing Valve that mixes hot water with cold to deliver tempered water at a controlled temperature to 120°F (49°C) maximum. The **Heatguard® 110-D** is designed to assist in the prevention of scalding.

The Heatguard® 110-D is intended for installation at the water heater to distribute controlled temperature water through the domestic hot water system or at point-of-use applications. The valve delivers water at a maximum of 120°F (49°C), allowing the heater to be set at 140°F (60°C) or higher, thus providing a greater effective volume of hot water and reducing the chances of Legionella bacteria growth in the water.

The Heatguard[®] 110-D is a high quality mixing valve incorporating the latest in Thermostatic Technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Every valve is tested for performance on an automated testing station during the assembly process. The valve is third party listed for both distribution and point-of-use applications.

The **Heatguard® 110-D** incorporates a fast acting, high quality thermostatic element that senses the outlet water temperature and reacts to maintain a stable delivery temperature even under changing flows or variations in supply temperatures. The valve also greatly reduces the outlet flow in the event of a cold water supply failure.

The **Heatguard® 110-D** features a locking mechanism to prevent unwanted adjustment above 120°F (49°C).

The Heatguard® 110-D is shipped complete as a kit with your choice of end connections in 1/2", 3/4" & 1" sizes. Available end connections are sweat, CPVC, PEX, threaded and SharkBite®. All valves are supplied standard with check valves.





FEATURES AND BENEFITS

Certified for distribution and point-of-use applications.

Safer hot water from all outlets.

Allows the water heater to be set at 140°F (60°C) or higher: Greater effective hot water volume yields less chance of Legionella within the cylinder.

Every valve is tested for performance prior to shipping: Specify and install with confidence!

Robust, low complexity construction: Superior reliability, improved user safety.

Adjustable and lockable mechanism:

Minimizes unauthorized tampering with valve setting
Factory set, locked to maximum 120°F (49°C)

Listed by IAPMO, CSA, and ASSE: Inspector friendly, peace of mind!



SPECIFICATION

A Temperature Actuated Mixing Valve shall be installed at single or multiple point-of-use fixtures or at the water heater to distribute tempered water throughout the domestic hot water system at a maximum temperature of 120°F (49°C). The valve shall be certified to ASSE 1017, ASSE 1069, ASSE 1070 and CSA B 125.3 standards and shall be listed by a third party. The Temperature Actuated Mixing Valve shall control the delivered water temperature via a regulating piston made from engineered polymer. The adjusting mechanism shall be protected by a lockable cover. The valve shall be a Cash Acme Heatguard® 110-D LF.

22007AthAemine shko-kullinan Alabama 25055 USA www.ccishanneanm Kifi kamak alawyatobeyato sahar@kahamamamini sahamamGunank 1588a820-0120 yanadasalles@wacom

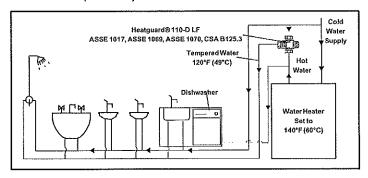


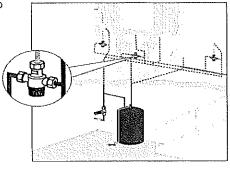


Heatguard® 110-D Series-Lead Free

TYPICAL INSTALLATION

Domestic hot water distribution. To control water temperature at the source of heat (water heater) or individual/multiple point-of-use fixtures (sinks, lavatories, or bath tubs) to provide a safe distribution temperature. It can also be installed at gang shower applications where the bather has no access to the temperature adjustment means.





Valve Location - Single Fixture

SPECIFICATION DATA

Performance:

Outlet temperature range 85 – 130°F (29 – 54°C)

Factory set and locked 120°F (49°C)

Temp. hot supply $120 - 180^{\circ}\text{F} (48.9 - 82.2^{\circ}\text{C})$ Temp. cold supply $39 - 80^{\circ}\text{F} (3.9 - 26.7^{\circ}\text{C})$ Maximum pressure 230 psi (1600 kPa)

Flow rate, minimum 1 gpm (3.8 l/min)
Flow rate, maximum 20 gpm (76 l/min)

Materials:

Body Bronze Seals EPDM

Springs Stainless Steel

Internal cap Brass

Piston Engineered Polymer

Guide tube Noryl GFN2

PRESSURE DEFENDANT IN THE TOTAL PRINCIPLE OF THE TOTAL PRINCIPLE OF

Note: Flow rate determined on a Heatguard® 110-D LF with ½" sweat fittings

AVAILABLE CONNECTIONS

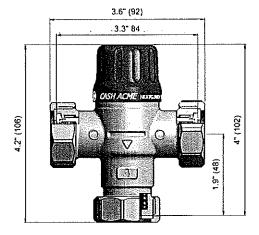
 Sweat
 1/2", 3/4" and 1"

 Barb (PEX)
 1/2" and 3/4"

 Threaded (NPT)
 1/2" and 3/4"

 CPVC
 1/2" and 3/4"

 SharkBite
 1/2" and 3/4"



CERTIFICATIONS

The Cash Acme **Heatguard[®] 110-D LF** is certified to ASSE 1017, ASSE 1069, ASSE 1070, CSA B125.3, and NSF 372 and listed by lapmo, CSA, and ASSE for use in accordance with U.S and Canadian plumbing codes.







S-2 SINK
ELKAY LRAD3319 6.5" STAINLESS STEEL SINK
T&S B-2730/B-0199-07 FAUCET
LK35 STRAINERS
Z8802LK SUPPLY AND STOP
Z8702PC 1-1/2" CAST BRASS P-TRAPS
CASH ACME 24510 THERMOSTATIC MIXING VALVE



Elkay Lustertone Classic Stainless Steel 33" x 19-1/2" x 6-1/2" Equal Double Bowl Drop-in ADA Sink

Model(s) LRAD331965

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 33" x 19-1/2" x 6-1/2", Equal Double Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

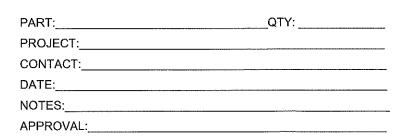
Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	2
Sink Dimensions:	33" x 19-1/2" x 6-1/2"
Bowl 1 Dimensions:	14" x 14" x 6-3/8"
Bowl 2 Dimensions:	14" x 14" x 6-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	36"
Mounting Hardware:	Part # 64090014 included for countertops
	up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	<u>1000001276</u>

Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

32-3/8" x 18-7/8" (822mm x 479mm) with 1-1/2" (38mm) corner radius

Custom Options		
□ Type 316 Stainless St	eel	
Drain Location		
□ Right Rear	□ Left Rear	
□ Center	□ Center Rear	
Overflow Location		
□ Front	□ Rear	
Alternate Punching		
□ Faucet Model:	□ Punch Required:	
Sink Size	·	,
□ Bowl Depth:	□ Drainboard Width:	





AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.



Product Compliance:

ADA & ICC A117.1 ASME A112.19.3/CSA B45.4

Buy American Act



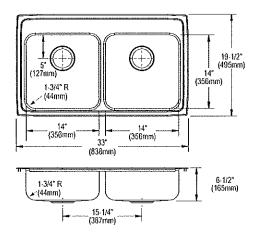
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

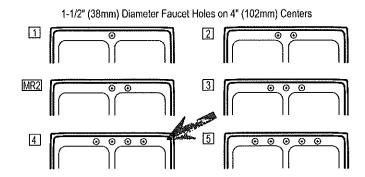
Clean and Care Manual (PDF) Installation Instructions (PDF) Warranty (PDF)

Similar models are available with: Quick-Clip Mounting System, additional ADA depths

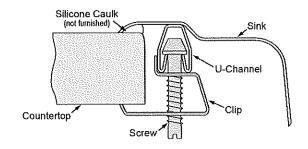




Hole Drilling Configurations:



Installation Profile:



Optional Accesse	rles	
<u>CB1613</u>	Elkay Hardwood 16-3/4" x 13-1/2" x 1" Cutting Board <u>Spec Sheet (PDF)</u>	
<u>LK99</u>	Elkay Deluxe 3-1/2" Drain Type 304 Stainless Steel Body Strainer Basket Rubber Seal and Tailpiece Spec Sheet (PDF)	
LKAD35	Elkay 3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece Spec Sheet (PDF)	
LKWRB1414SS	Elkay Stainless Steel 13" x 13" x 7" Rinsing Basket Spec Sheet (PDF)	

T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-2730

Item No.

1:8

Sheet: 1

of

Scale:

05/12/21

JHB

Approved:

KJG

Checked:

Drawn:

JRM

Date:

Travelers Rest SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

Travelore rest, Go. 600 476 4160 Cirili Valley, Gr. 600 120 Circ		
TT	This Space	for Architect/Engineer Approval
10"	Job Name	Date
[254mm] ADA Compliant	Model Specified_	Quantity
	Customer/Whole	esaler
Comment of the commen	Contractor	
2 7/16"	Architect/Engine	er
[61mm]		_ 2
——4' [1219mm] Reinford	ced	
Vinyl Hose & Sidesp Hose Guide	ray w/	11
Hose Guide		
Ceramic 9" Swivel Spout w/	, Q	3/16"
Cartridge w/ Temperature B-0199-04 2.2 GPM Aerator	h _	34mm]
Limit Stop—		_
Polished Chromo 7 15/16"	1 mg/	6 7/8"
Polished Chrome [201mm]	6 13/16"	5 5/8" [175mm]
Base Gasket—\	[173mm]	[143mm] Full
	<u> </u>	"Off" "On"
Cover Plate		A † †
Posts w/ Nuts	1"	(2) Comton
	[25mm]	—(2) Center Mounting
Clamping————————————————————————————————————	Maximum Thickness	Posts w/ Nuts
Gasket	THORIGOS	, vuid
(2) 16" Flexible Stainless Ste	el	
Braided Supply Hoses w/ 3/8" Compression Inlets		8
		w.
Ø1 1/2" Faucet Rough-in Ø1"		
[38mm] [25mm]		
Ø 3/4"		
19mm 8" Sidespray Rough-in		
Product Specifications:	V. 14	roduct Compliance:
Single Lever Deck Mount Faucet, Ceramic Cartridge, 9" Swivel Spo 2.2 GPM Aerator, 10" Deckplate, Temperature Limit Stop, 4' Reinfo	rced N	SME A112.18.1 / CSA B125.1 ISF 61 - Section 9
Flexible Sidespray w/ Hose Guide & (2) 16" Flexible Stainless Stee	l N	ISF 372 (Low Lead Content) NSI A117.1 (ADA)
Braided Supply Hoses	[^	

TES

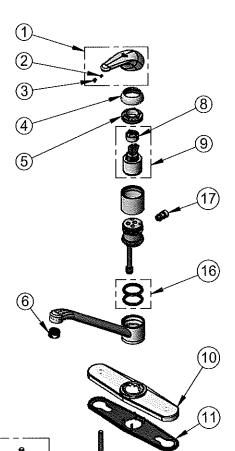
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

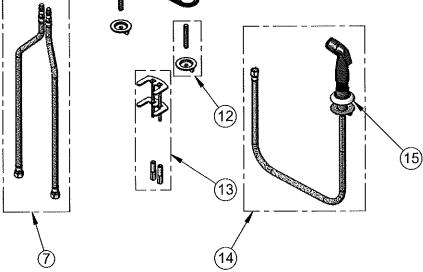
B-2730

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	B-0199-04	2.2 GPM Aerator, 15/16-27 UN Male
7	016879-45	16" Supply Hoses w/ 3/8" Compression Inlets (2)
8	015400-45	Temperature Limit Stop
9	013080-45	Ceramic Cartridge w/ Temperature Limit Stop
10	014161-45	Deck Plate, B-2730 & B-2731
11	014160-45	Deck Plate Gasket, B-2730 & B- 2731
12	014162-45	Mounting Post & Nut Kit (2)
13	014163-45	Center Mounting Kit
14	013842-45	4' Sidespray w/ Hose Guide
15	001496-45	Hose Guide
16	017150-45K	Base Seal - Qty 2
17	B-2730-DRK	Diverter Repair Kit



Product Specifications:

Single Lever Deck Mount Faucet, Ceramic Cartridge, 9" Swivel Spout, 2.2 GPM Aerator, 10" Deckplate, Temperature Limit Stop, 4' Reinforced Flexible Sidespray w/ Hose Guide & (2) 16" Flexible Stainless Steel Braided Supply Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn: JRM Checked: KJG Approved: JHB Date: 05/12/21 Scale: NTS Sheet: 2 of 2

T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

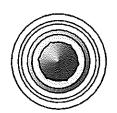
Model No.

B-0199-07

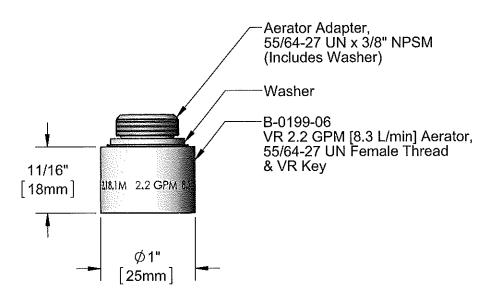
Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect	/Engineer Approval
Job Name	Date
Model Specified	Quantity
Customer/Wholesaler	e e de la material con qual antida de material de la Maria del Maria de la Maria de la Maria de la Maria del Maria de la Maria dela Maria de la Maria de la Maria dela M
Contractor	
Architect/Engineer	







Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

03/26/15 1:1 Sheet: 1 of 2 JRM JHB Date: Scale: DHL Checked: Approved: Drawn:



T&S BRASS AND BRONZE WORKS, INC.

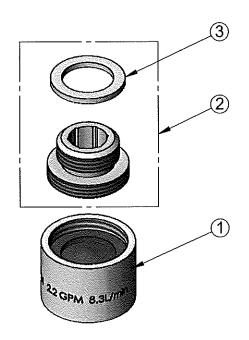
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

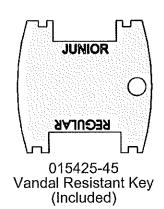
B-0199-07

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	ITEM NO.	SALES NO.	DESCRIPTION
Ī	1	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key
Ì	2	044A	3/8" to Aerator Adapter
	3	001043-45	Washer





Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content)

Drawn:	DHL	Checked:	JRM	Approved:	JHB	Date:	03/26/15	Scale:	NTS	Sheet: 2 of 2

Elkay 3-1/2" Drain Fitting Type 304 Stainless Steel Body Strainer Basket and Tailpiece

Model(s) LK35

PRODUCT SPECIFICATIONS

Elkay 3-1/2" Drain Fitting Type 304 Stainless Steel Body Strainer Basket and Tailpiece. Overall dimensions are 4-7/16" x 4-7/16" x 7-5/16". Made of Stainless Steel.

Material:	Stainless Steel
Finish:	Polished Stainless Steel
Dimensions:	4-7/16" x 4-7/16" x 7-5/16"
Shipping Weight:	1 lbs.

Special Note: Replacement strainer basket 72002160: \$10.00

- Designed to fit 3-1/2" (89mm) drain opening with an overall flange size of 4-1/2" (114mm).
- 1-1/2" O.D. x 4" chrome-plated brass tailpiece.
- . Conical strainer basket with metal stem and rubber seal.
- STAINLESS STEEL CONSTRUCTION: Made of strong, Type 304 stainless steel for long-lasting durability.
- POLISHED FINISH: Polished stainless steel finish adds sleekness and shimmer to any sink.



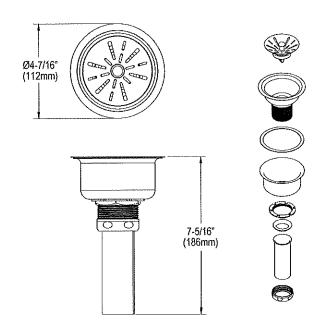
AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Product Compliance:

ASME A112.18.2/CSA B125.2

Clean and Care Manual (PDF) Installation Instructions (PDF)



PART:	QTY:
PROJECT:	
CONTACT:	
DATE:	
NOTES:	
APPROVAL:	





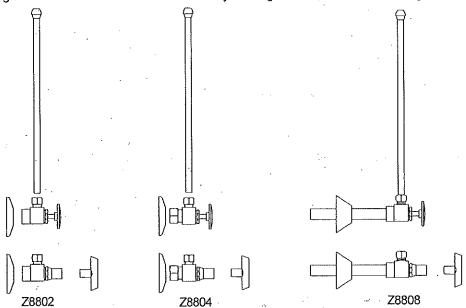
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

Γ	Δ	((

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels: Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



PRODUCT	MASTER	WEIGHT CARTON
NUMBER CONNECTIONS EX	CT. CARTON	LR LRLK
Z8802-XL-LR-PC 1/2 [13] IPS x 3/8 [10]OD	- 25	24
Z8802-XL-LRLK-PC 1/2 [13] IPS x 3/8 [10] OD	- 25	25
Z8804-XL-LR-PC 1/2 [13] NOM x 3/8 [10] OD	- 25	24
Z8804-XL-LRLK-PC 1/2 [13] NOM x 3/8 [10] OD	- 25	25
Z8808-XL-LR-PC 1/2 [13] SWT x 3/8 [10] OD 5	5 25	28
Z8808-XL-LRLK-PC 1/2 [13] SWT x 3/8 [10] OD	5 25	33

SUFFIXES 1

1 1 1/	LU	
	- A	Single supply option
	- C1	Standard Line Lock Shield Cap
	- CE	Chrome Plated, Cast Brass, Flange with setscrew
	- D	Chrome Plated Steel, Deep Bell Flange (Bell Type)
	- WD	Wrought Brass, Deep Flange, (Bell Type)
	- XP	Cross Handle
	- 15	15[381] Supply Tube
	- 20	20[508] Supply Tube
	- 30	30[762] Supply Tube

36[914] Supply Tube

*REGULARLYFURNISHEDUNLESSOTHERWISESPECIFIED

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733
Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com



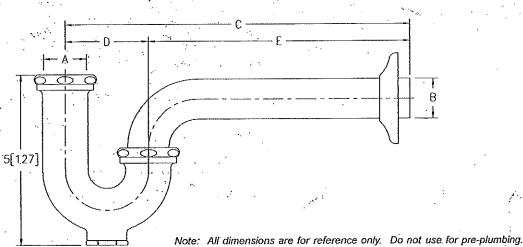
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



		•						
PRODUCT	Α	В			IMENSION	S	MASTER	
NUMBER	INLET in[mm]	OUTLET in[mm].	GAUGE	· C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	- 15[381]	2 1/2[64]	12.1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1.1/2[38]	1 1/2[38]	·∞ 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	. 18
Z8704B-PC**	2[51]	. 2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32].	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONAL ACCESSORIES

Suffix		Description				
	-B	Brass Nuts				
	-BX	Box Escutcheon				
	-CE	Cast Brass Escutcheon with Setscrew				
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)				
	-J	Metal to Metal Ground Joint Connection				
	-WC	Waste Connections - Compression				
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only				
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only				
* 001/5	~ 1ABT1 [ODTIONAL 1 1/2" v 1 1/4" PEDI ICTION POI V MASHER FOR INI ET				

- * COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET
- ** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC . COMMERCIAL BRASS OPERATION . 2640 SOUTH WORK STREET . FALCONER NY 14733 Phone: 1-800-997-3876 • Fax: 1-919-775-3541 • www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED + 3544 Nashua Drive + Mississauga, Ontario L4V1L2 + Phone: 905/405-8272 Fax: 905/405-1292



Heatguard® 110-D Series-Lead Free

DESCRIPTION

The **Heatguard® 110-D** is a Temperature Actuated Mixing Valve that mixes hot water with cold to deliver tempered water at a controlled temperature to 120°F (49°C) maximum. The **Heatguard® 110-D** is designed to assist in the prevention of scalding.

The **Heatguard® 110-D** is intended for installation at the water heater to distribute controlled temperature water through the domestic hot water system or at point-of-use applications. The valve delivers water at a maximum of 120°F (49°C), allowing the heater to be set at 140°F (60°C) or higher, thus providing a greater effective volume of hot water and reducing the chances of Legionella bacteria growth in the water.

The **Heatguard® 110-D** is a high quality mixing valve incorporating the latest in Thermostatic Technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Every valve is tested for performance on an automated testing station during the assembly process. The valve is third party listed for both distribution and point-of-use applications.

The **Heatguard® 110-D** incorporates a fast acting, high quality thermostatic element that senses the outlet water temperature and reacts to maintain a stable delivery temperature even under changing flows or variations in supply temperatures. The valve also greatly reduces the outlet flow in the event of a cold water supply failure.

The **Heatguard® 110-D** features a locking mechanism to prevent unwanted adjustment above 120°F (49°C).

The **Heatguard® 110-D** is shipped complete as a kit with your choice of end connections in 1/2", 3/4" & 1" sizes. Available end connections are sweat, CPVC, PEX, threaded and SharkBite®. All valves are supplied standard with check valves.





FEATURES AND BENEFITS

Certified for distribution and point-of-use applications.

Safer hot water from all outlets.

Allows the water heater to be set at 140°F (60°C) or higher: Greater effective hot water volume yields less chance of Legionella within the cylinder.

Every valve is tested for performance prior to shipping: Specify and install with confidence!

Robust, low complexity construction: Superior reliability, improved user safety.

Adjustable and lockable mechanism:

Minimizes unauthorized tampering with valve setting
Factory set, locked to maximum 120°F (49°C)

Listed by IAPMO, CSA, and ASSE: Inspector friendly, peace of mind!



SPECIFICATION

A Temperature Actuated Mixing Valve shall be installed at single or multiple point-of-use fixtures or at the water heater to distribute tempered water throughout the domestic hot water system at a maximum temperature of 120°F (49°C). The valve shall be certified to ASSE 1017, ASSE 1069, ASSE 1070 and CSA B 125.3 standards and shall be listed by a third party. The Temperature Actuated Mixing Valve shall control the delivered water temperature via a regulating piston made from engineered polymer. The adjusting mechanism shall be protected by a lockable cover. The valve shall be a Cash Acme Heatguard 110-D LF.

2400 7th Avenue S.W. - Gullman - Alabama 35055 - USA - www.cashacme.com Us: Contact: 1-877-700-4-242 - sales@cashacme.com - Canadian Contact: 1-888-820-0120 - canadasales@rwc.com

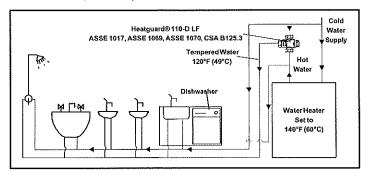


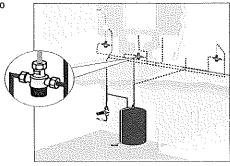


Heatguard® 110-D Series-Lead Free

TYPICAL INSTALLATION

Domestic hot water distribution. To control water temperature at the source of heat (water heater) or individual/multiple point-of-use fixtures (sinks, lavatories, or bath tubs) to provide a safe distribution temperature. It can also be installed at gang shower applications where the bather has no access to the temperature adjustment means.





Valve Location - Single Fixture

SPECIFICATION DATA

Performance:

Outlet temperature range 85 - 130°F (29 - 54°C)

Factory set and locked 120°F (49°C)

120 - 180°F (48.9 - 82.2°C) Temp, hot supply $39 - 80^{\circ}F (3.9 - 26.7^{\circ}C)$ Temp. cold supply 230 psi (1600 kPa) Maximum pressure 1 gpm (3.8 l/min) Flow rate, minimum

Flow rate, maximum 20 gpm (76 l/min)

Materials:

Body Bronze **EPDM** Seals **Springs** Stainless Steel

Internal cap Brass

Engineered Polymer Piston

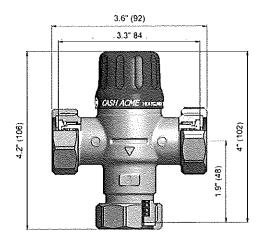
Noryl GFN2 Guide tube

PRESSURE DIFFERENTIAL - PSI FLOWRATE - GALLONS / MINUTE

Note: Flow rate determined on a Heatguard® 110-D LF with 1/2" sweat fittings

AVAILABLE CONNECTIONS

Sweat 1/2", 3/4" and 1" 1/2" and 3/4" Barb (PEX) Threaded (NPT) 1/2" and 3/4" 1/2" and 3/4" **CPVC** 1/2" and 3/4" SharkBite



CERTIFICATIONS

The Cash Acme Heatguard® 110-D LF is certified to ASSE 1017, ASSE 1069, ASSE 1070, CSA B125.3, and NSF 372 and listed by lapmo, CSA, and ASSE for use in accordance with U.S and Canadian plumbing codes.







S-3 SINK
ELKAY ELV22193 STAINLESS STEEL SINK
T&S B-0892-04 FAUCET
LK174LO STRAINER
Z8802LK SUPPLY AND STOP
Z8700PC 1-1/4" CAST BRASS P-TRAPS
CASH ACME 25687 THERMOSTATIC MIXING VALVE



PRODUCT SPECIFICATIONS

Elkay Stainless Steel 22" x 19" x 5-1/2", Wall Hung Lavatory Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Buffed Satin finish, Rear Center drain placement, and Bottom only pads.

Material:	304 Stainless Steel	
Finish:	Buffed Satin	
Gauge:	18	
Sound Deadening:	Bottom only pads	
Number of Bowls:	1	
Sink Dimensions:	22" x 19" x 10"	
Bowl 1 Dimensions:	16" x 11-1/2" x 5-1/2"	
Drainboard Location:	No drainboard	
Backsplash Height:	2.5	
Drain Size:	1-1/2" (38mm)	
Drain Location:	Rear Center	

Custom Options	
☐ Type 316 Stainless Steel	
Alternate Punching	
□ Faucet Model:	□ Punch Required:

^{*}Options available if applicable



AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.



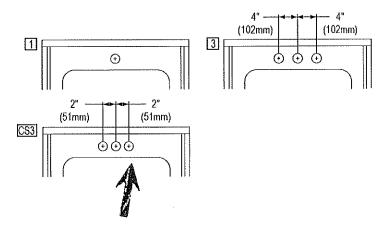
Product Compliance:

ADA & ICC A117.1 Buy American Act

NSF₂

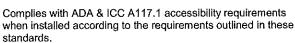
Hole Drilling Configurations:

1-1/4" (32mm) Diameter Faucet Hole(s) For 1 and CS3 Hole Models 1-1/2" (38mm) Diameter Faucet Holes For 3 Hole Model

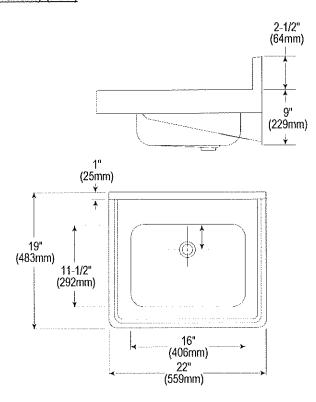


PART:	_QTY:
PROJECT:	
CONTACT:	
DATE:	
NOTES:	
APPROVAL:	

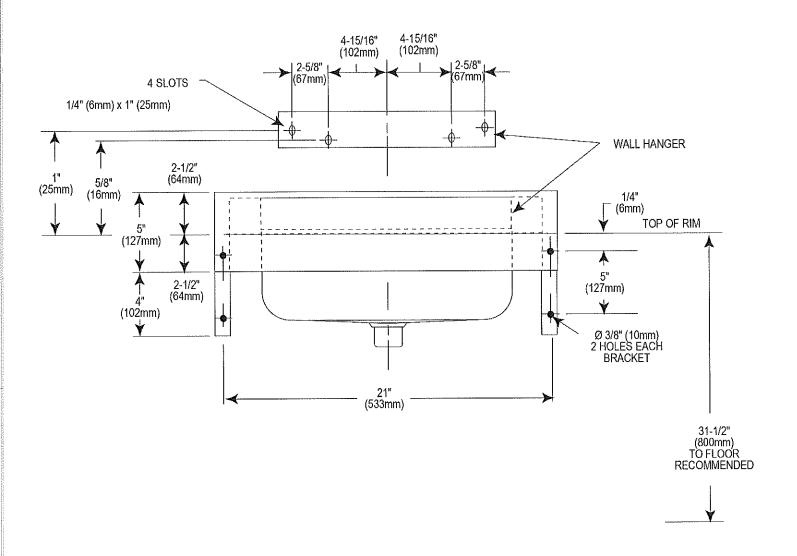




Clean and Care Manual (PDF) Warranty (PDF)







Coupling Nuts

T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-0892

Item No.

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 600-425-0150 • Fax. 6	004-034-33 to - www.tsbrass.com	
	This Space for Architect/Engineer /	Approval
	Job Name	Date
ADA Compliant	Model Specified	Quantity
12"	Customer/Wholesaler	
[305mm]	Contractor	
	Architect/Englneer_	
4 15/16" [126mm] Mounting Surface 3/4"	dles 2 7/8" [73mm] 6 11/16" [170mm]	10 7/16" [265mm]
4" [19mm] Maximum	4 1/16"	
[102mm] Thickness	[103mm]	
5 7/8" ————————————————————————————————————		
Rough-In Requirement: (2)		
Product Specifications:	Product Compliance:	AHL
4" Centerset Deck Mount Mixing Faucet, Eterna Cartridges, 4" Wri Handles, Rigid Gooseneck, 2.2 GPM Aerator & 1/2" NPSM Male Ir	ist Action ASME A112.18.1 / CSA E NSF 61 - Section 9	3125.1

1:4 Sheet: 1 of 2 JHB Date: 08/14/14 Scale: KJG Checked: JRM Approved: Drawn:

TES

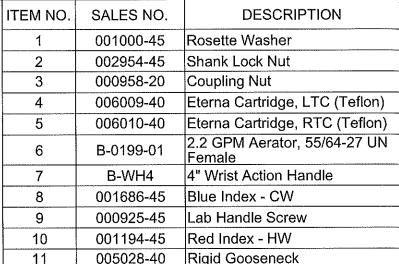
T&S BRASS AND BRONZE WORKS, INC.

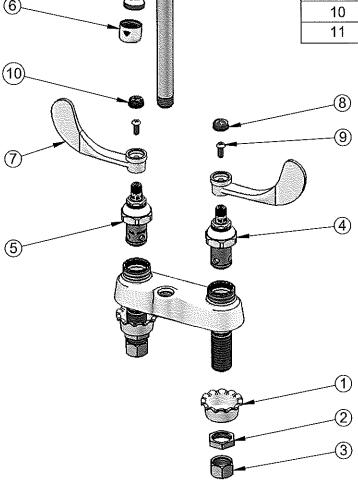
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0892

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com





Product Specifications:

4" Centerset Deck Mount Mixing Faucet, Eterna Cartridges, 4" Wrist Action Handles, Rigid Gooseneck, 2.2 GPM Aerator & 1/2" NPSM Male Inlets w/ Coupling Nuts

Product Compliance:

ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)

Drawn:	KJG	Checked:	JRM	Approved:	JHB	Date: 08/14/14	Scale:	NTS	Sheet: 2 of 2

Elkay 1-1/2" Drain Fitting Chrome Plated Brass with Perforated Grid and Tailpiece

Model(s) LK174LO

PRODUCT SPECIFICATIONS

Elkay 1-1/2" Drain Fitting Chrome Plated Brass with Perforated Grid and Tailpiece. Overall dimensions are 2-1/4" x 2-1/4" x 8-5/16". Made of Brass.

Material:	Brass
Finish:	Chrome (CR)
Dimensions:	2-1/4" x 2-1/4" x 8-5/16"
Shipping Weight:	1 lbs.

Special Note: Not arranged for overflow

• 1-1/4" O.D. x 6" chrome-plated brass tailpiece.



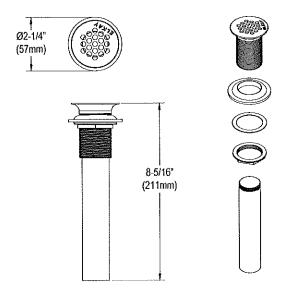
AMERICAN PRIDE. A LIFETIME TRADITION.

Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Product Compliance:

ASME A112.18.2/CSA B125.2

Clean and Care Manual (PDF) Installation Instructions (PDF)



PART:	QTY:
PROJECT:	
CONTACT:	
DATE:	
NOTES:	
APPROVAL:	





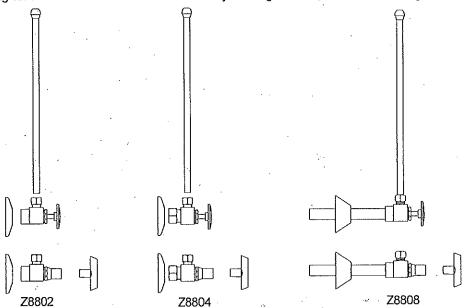
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

TAG

Engineering Specification: Zum Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zum chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels: Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



	PRODUCT		.,,	MASTER	WEIGHT CARTON	
	NUMBER	CONNECTIONS	·EXT.	CARTON	LR	LRLK
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24	
	≥28802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	-	25		25
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33

SUFFIXES

- 36

Single supply option Standard Line Lock Shield Cap - C1 Chrome Plated, Cast Brass, Flange with setscrew - CE Chrome Plated Steel, Deep Bell Flange (Bell Type) - D Wrought Brass, Deep Flange, (Bell Type) - WD Cross Handle - XP 15[381] Supply Tube - 15 20[508] Supply Tube - 20 - 30 30[762] Supply Tube

36[914] Supply Tube

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com
In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED



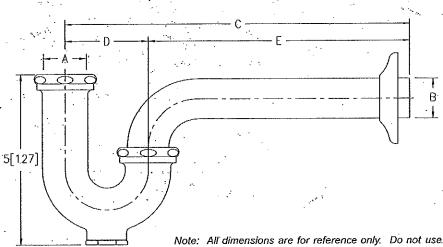
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

Т	٠.	
	А	(\mathbf{J})



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note: All dimensions are for reference only. Do not use for pre-plumbing.

		•	•						
	PRODUCT	Α :	В′		D	IMENSION		MASTER	
-	NUMBER	INLET in[mm]	OUTLET in [mm]	GAUGE	C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
ſ	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8700-8-PC	1 1/4[32]	1 1/4[32]	17.	11[279]	2 1/2[64]	8 1/2[216]	12	24
	Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	-15[381]	2 1/2[64]	12.1/2[318]	18	40
Î	Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	· 24
1	Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
	Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	78702-PC*	1.1/2[38]	1 1/2[38]	√ 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
ľ	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
	Z8704B-PC**	2[51]	2[51]	17.	12 1/2[318]	3 1/2[89]	9[229]	6	18
	Z8706-PC	1 1/4[32].	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
-	Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
					1)	

OPTIONAL ACCESSORIES .

Suffix		Description
	-B	Brass Nuts
•	-BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	J	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only
		ODTIONAL A 4/01 4 4/45 DEDITION DOLVING CUED FOR INSET

^{*} COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

ZURN INDUSTRIES, LLC ◆ COMMERCIAL BRASS OPERATION ◆ 2640 SOUTH WORK STREET ◆ FALCONER NY 14733 Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED • 3544 Nashua Drive • Mississauga, Ontario L4V1L2 • Phone: 905/405-8272 Fax: 905/405-1292

^{**} SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED



Heatguard® 135 Series—Lead Free

DESCRIPTION

The Heatguard® 135 is a compact Thermostatic Mixing Valve that mixes hot water with cold to deliver tempered water at a constant temperature.

The Heatguard* 135 is specifically intended for use in conjunction with individual faucets and electronic sensor faucets.

The Heatguard® 135 is a compact, high specification product incorporating the latest in Thermostatic Technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Every valve is tested for performance on an automated testing station during the assembly process. The valve is third-party listed for individual point-of-use applications.

The Heatguard® 135 features a rapid response thermostatic element for superior control. The thermostatic element senses the outlet water temperature and reacts to maintain a constant delivery temperature even under changing flows or variations in supply temperatures or pressures. It provides stable operation at flow rates as low as 0.25 gpm (1.0 l/min). The valve also reduces the outlet flow to a trickle in the event of a cold water supply failure.

The Heatguard* 135 features a threaded cover over a spindle mechanism that requires a special tool to adjust the temperature. The special tool is provided with each valve.

The Heatguard* 135 has inlet connections to suit a 3/8" flexible hose connector or a compression connection to 3/8" OD tube. Also available with cold water bypass and elbow insert fittings. Supplied standard with integral check valves on both inlets to prevent cross-flow.

FEATURES AND BENEFITS

Compact design and included mounting bracket:

Easily fits under or behind a single basin. Mounting bracket provides for a clean and secure installation.

Accurate temperature control with flows as low as 0.25 gpm (1.0 l/min): Increased user comfort and convenience, (especially with sensor faucets).

Serviceable inlet strainer screens included:

Keeps debris from damaging check valves and other internal components.

Robust, low complexity construction and total flow shut-off if cold supply fails: Superior reliability and greater end user safety.

Listed by IAPMO, CSA, and ASSE:

Inspector friendly, peace of mind!

Use with SharkBite®:

Easily connect to the riser with SharkBite® 1/4" fittings and stops.

SPECIFICATION

A Temperature Actuated Mixing Valve shall be installed at single point-of-use fixture to deliver hot water at a controlled temperature. The valve shall be certified to ASSE 1070 and CSA B 125.3 standards and third party listed. The temperature actuated mixing valve shall control the delivered water temperature via a regulating piston made from engineered polymer. The valve should have check valves at both inlets to prevent cross flow from hot to cold. The adjusting mechanism shall be protected by a threaded cover. The valve shall be a Cash Acme Heatguard® 135.



25686



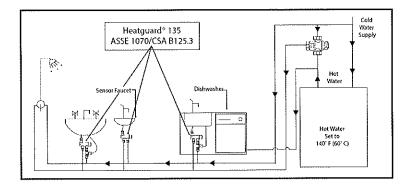




Heatguard® 135 Series—Lead Free

TYPICAL INSTALLATION

The Heatguard® 135 is a high performance thermostatic mixing valve designed to deliver mixed water to a single outlet. It can also be used to supply sensor faucets or two handle manual faucets.

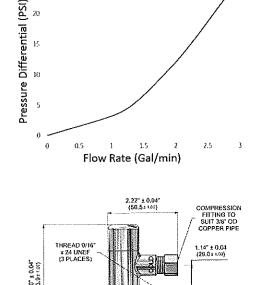


SPECIFICATION DATA

Adj. outlet temperature range Factory set temperature range Temp. hot supply Temp. cold supply Maximum pressure Flow rate, minimum Flow rate, maximum @ 45 PSI

Body Springs Internal cap Piston Inlet Strainer Screens 100 – 120°F (38 – 49°C) 105 – 110°F (40 – 43.3°C) 120 – 180°F (49 – 82°C) 39 – 80°F (4 – 27°C) 230 psi (1600 kPa) 0.25 gpm (1.0 l/min) 2.5 gpm (9.5 l/min)

DZR Brass Stainless Steel Brass Engineered Polymer Stainless Steel



Flow Curve

25

AVAILABLE CONNECTIONS

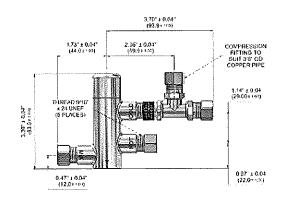
Compression

Suitable for 3/8" OD tube.

Also available with cold water bypass tee.

CERTIFICATIONS

The Cash Acme Heatguard® 135 LF is certified to ASSE 1070, CSA B125.3, NSF 372, NSF/ANSI 61 and listed by ASSE, CSA, and IAPMO for use in accordance with U.S. and Canadian plumbing codes.*



2400 7th Avenue S.W.» Collinan - Alabama 35055 - USA - www.cashacme.com - US Contact 1-877-700-4242 - sales@cashacme.com - Canadlan Contact 1-888-820-0120 - canadasales@swc.com

