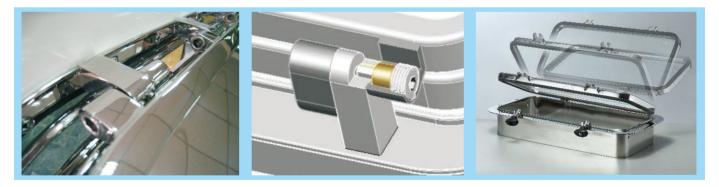


FRICATIVE HINGE PATENT IN MANY COUNTRIES



- New patented design:unique SS 316 fricative hinge.
- New portlight can be opened at any degree, including an impressive 180 degree, without a hatch arm or port hook for a clean and elegant look.
- Storm cover easily installed and removed. It also can be adjusted for gasket water tightness.



Fricative hinges can be applied to the following model and dimensions
Modern portlighy can be applied in the following model and dimension.
Opening ports: LS,LSO,LSR,CLS,CLSO,CLSR TLS,TLSO,TLSR,CTLS,CTLSO,CTLSR LS-H,LSO-H,LSR-H,CLSO-H CLSR-H,LO,CLO
Dimension:Small portlight Model Number 0512-0818 Big portlight Model Number 1020-1228 Special dimension:If there is no portlight models size in the catalogue, Please inform the Model No, the dimension and spigot.



GLASS IN GLASS PORTLIGHT (CUSTOM MADE)



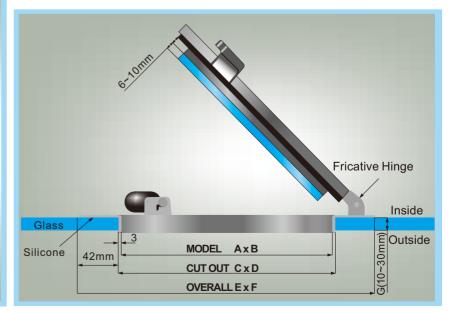




Man Ship has developed a new flush portlight which can be installed inset and flush within a glass window. Designed to give an elegant touch without any visible screws.

Features

- All Stainless steel 316 material with high quality mirror polish.
- With certificate of grant of Patent-Man ship Fricative Hinge.
- Glass portligitt flush design which can be installed directly inset within a glass window.
- Wild range of size and shape available.
- Watertight function which passed the watertight test for 6 meter level.





RECTANGULAR OPENING PORTS





LS Rect. Portholes / boat outside view



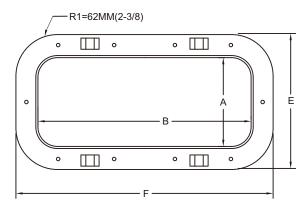
3 0mm

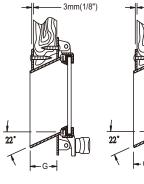
LS-XXXXS

Rect port with storm cover.

RECTANGULAR OPENING PORTS - ANGLED SPIGOT

MODEL №. W/O COVER W/COVER	A x B MODEL	C x D CUT OUT SIZE	E x F OVERALL	R	R1	GLASS THICKNESS
LS-0512A	5X12 127X305	5 ¹ ⁄ ₄ X 12 ¹ ⁄ ₈ 133x307	7 ⁵ ⁄ ₈ X 14 ¹ ⁄ ₂ 193x368	1½ 32	2 ³ / ₈ 62	1⁄4 6
LS-0714A	7X14 178X356	7 ¹ ⁄ ₄ X 14 ¹ ⁄ ₄ 184x362	9 ⁵ ⁄ ₈ X 16 ⁵ ⁄ ₈ 244x422	1 ¹ ⁄ ₄ 32	2 ³ / ₈ 62	1⁄4 6
LS-0716A CLS-0716A	7X16 178X406	7 ¼ X 16 ¼ 184x413	9 ⁵ ⁄ ₈ X 18 ⁵ ⁄ ₈ 244x473	11⁄4 32	2 ³ / ₈ 62	1⁄4 6
LS-0718A CLS-0718A	7X18 178X457	7 ¼ X 18¼ 184x464	9 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈ 244x524	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0816A CLS-0816A	8X16 203X406	8 ¹ ⁄ ₄ X 16 ¹ ⁄ ₄ 210x413	10 ⁵ % X 18 ⁵ % 269x473	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0818A CLS-0818A	8X18 203X457	8 ¼ X 18¼ 210x464	10 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈ 269x524	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-1020A CLS-1020A	10X20 254X508	10 ³ ⁄ ₈ X 20 ³ ⁄ ₈ 262x516	12 ⁷ / ₈ X 22 ⁷ / ₈ 327x581	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LS-1024A CLS-1024A	10X24 254X609	10 ³ ⁄ ₈ X 24 ³ ⁄ ₈ 262x617	12 ⁷ / ₈ X 26 ⁷ / ₈ 327x682	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LS-1224A CLS-1224A	12X24 305X609	12 ³ ⁄ ₈ X 24 ³ ⁄ ₈ 313x617	14 ⁷ / ₈ X 26 ⁷ / ₈ 378x682	11⁄4 32	2 ¹ ⁄ ₂ 65	³ ⁄8 10
LS-1228A CLS-1228A	12X28 305X710	12 ³ ⁄ ₈ X 28 ³ ⁄ ₈ 313x718	14 ⁷ / ₈ X 30 ⁷ / ₈ 378x784	11⁄4 32	2 ¹ ⁄ ₂ 65	³ ⁄8 10







CLS-XXXXA

3mm(1/8")

CLS-XXXXS

G

MODEL W/O COVER			x B DDEL	C : CUT OL	k D JT SIZE	E x I OVERA		R	R1	GLASS THICKNESS
LS-0512S		5X12	127X305	5 ¼ x 12 ¹	8 133x307	7 ⁵ ⁄ ₈ x 14 ¹ ⁄ ₂	193x368	1¼ 32	2 ³ / ₈ 62	1⁄4 6
LS-0714S		7X14	178X356	7 ¼ x 141	4 184x362	9 ⁵ ⁄ ₈ x 16 ⁵ ⁄ ₈	244x422	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0716S	CLS-0716S	7X16	178X406	7 ¼ X 16 ¹	4 184x413	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈	244x473	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0718S	CLS-0718S	7X18	178X457	7 ¼ X 181	4 184x464	9 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈	244x524	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0816S	CLS-0816S	8X16	203X406	8 ¼ X 16 ¹	4 210x413	10 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈	269x473	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0818S	CLS-0818S	8X18	203X457	8 ¼ x 181	4 210x464	10 ⁵ ⁄ ₈ × 20 ⁵ ⁄ ₈	269x524	11⁄4 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-1020S	CLS-1020S	10X20	254X508	10 ³ % x 20 ³	8 262x516	12 ⁷ / ₈ x 22 ⁷ / ₈	327x581	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LS-1024S	CLS-1024S	10X24	254X609	10 ³ ⁄ ₈ X 24 ³	8 262x617	12 ⁷ / ₈ x 26 ⁷ / ₈	327x682	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LS-1224S	CLS-1224S	12X24	305X609	12 ³ ⁄ ₈ x 24 ³	8 313x617	14 ⁷ / ₈ x 26 ⁷ / ₈	378x682	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LS-1228S	CLS-1228S	12X28	305X710	12 ³ ⁄ ₈ x 28 ³	8 313x718	14 ⁷ ⁄ ₈ x 30 ⁷ ⁄ ₈	378x784	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
1 Standard	angled spigot	size"(f"available	11/1/22 1	1/2" . 2"	. 21/2" . 3"	· · 3 1/2"			IN MM

1.Standard angled spigot size "G" available $1\frac{1}{4}\frac{3}{32\text{mm}} \cdot 1\frac{1}{2}\frac{3}{38\text{mm}} \cdot 2\frac{5}{51\text{mm}} \cdot 2\frac{1}{2}\frac{6}{63\text{mm}} \cdot 3\frac{1}{2}\frac{8}{89\text{mm}}$ 2.Special spigot size "G" available from $1\frac{2}{25.4\text{mm}} - 5\frac{1}{127\text{mm}}$

3. Custom sizes available if Radius (R & R1) are kept unchanged.

4. The spigot height are needed, while ordering.

5.CLS-0716~CLS-1228 are with elegant arc storm cover.



OVAL OPENING PORTHOLES



Oval opening portholes.



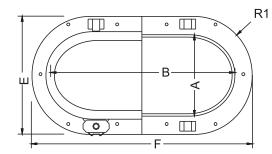
LSO Oval portholes / boat outside view

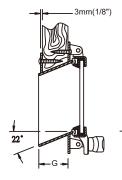


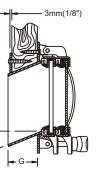
Oval opening portlight with storm cover.

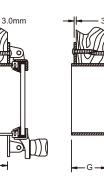
OVAL OPENING PORTS - ANGLED SPIGOT

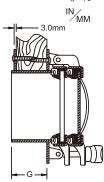
•••••••••••••••••••••••••••••••••••••••		-				
MODEL No. W/O COVER W/COVER	A x B MODEL	C x D CUT OUT SIZE	E x F OVERALL	R	R1	GLASS THICKNESS
LSO-0512A	5X12 127X305	5 ¹ ⁄ ₄ x 12 ¹ ⁄ ₈ 133x307	7 ⁵ ⁄ ₈ X 14 ¹ ⁄ ₂ 193x368	2 ⁵ ⁄ ₈ 67	37% 98	⁵ ⁄16 8
LSO-0714A	7X14 178X356	7 ¹ ⁄ ₄ X 14 ¹ ⁄ ₄ 184x362	9 ⁵ / ₈ X 16 ⁵ / ₈ 244x422	3 ⁵ / ₈ 92	4 % 124	⁵ /16 8
LSO-0716A CLSO-0716A	7X16 178X406	7 ¼ X 16¼ 184x413	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈ 244x473	3 ⁵ / ₈ 92	4 % 124	⁵ ⁄16 8
LSO-0718A CLSO-0718A	7X18 178X457	7 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄ 184x464	9 ⁵ / ₈ x 20 ⁵ / ₈ 244x524	35% 92	4 % 124	⁵ ⁄16 8
LSO-0816A CLSO-0816A	8X16 203X406	8 ¹ ⁄ ₄ X 16 ¹ ⁄ ₄ 210x413	10 ⁵ % X 18 ⁵ % 269x473	4 ¹ / ₈ 104	5 ³ ⁄ ₈ 137	⁵ ⁄16 8
LSO-0818A CLSO-0818A	8X18 203X457	8 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄ 210x464	10 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈ 269x524	4 ¹ ⁄ ₈ 104	5 ³ ⁄ ₈ 137	⁵ ⁄16 8
LSO-1020A CLSO-1020A	10X20 254X508	10 ³ ⁄ ₈ X 20 ³ ⁄ ₈ 262x516	12 ⁷ / ₈ x 22 ⁷ / ₈ 327x581	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄8 10
LSO-1024A CLSO-1024A	10X24 254X609	10 ³ ⁄ ₈ X 24 ³ ⁄ ₈ 262x617	12 ⁷ / ₈ x 26 ⁷ / ₈ 327x682	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄8 10
LSO-1224A CLSO-1224A	12X24 305X609	12 ³ ⁄ ₈ X 24 ³ ⁄ ₈ 313x617	14 ⁷ / ₈ x 26 ⁷ / ₈ 378x682	6 ¹ ⁄ ₈ 157	7 ³ ⁄ ₈ 190	³ ⁄8 10
LSO-1228A CLSO-1228A	12X28 305X710	12 ³ ⁄ ₈ X 28 ³ ⁄ ₈ 313x718	14 ⁷ / ₈ x 30 ⁷ / ₈ 378x784	6 ¹ ⁄ ₈ 157	7 ³ ⁄ ₈ 190	³ ⁄8 10











ODENING DO

LSO-XXXXA

CLSO-XXXXA

LSO-XXXXS

CLSO-XXXXS

UVAL UPENING PURIS - STRAIGHT SPIGUT											
MOD W/O COVER	EL No. W/COVER		x B DEL	C x CUT OUT		E > OVEF		R	R1	GLASS THICKNES	
LSO-0512S		5X12	127X305	5 ¹ ⁄ ₄ x 12 ¹ ⁄ ₈	133x307	7 ⁵ ⁄ ₈ × 14 ¹	2 193x368	2 ⁵ / ₈ 67	37% 98	⁵ ⁄16 8	
LSO-0714S		7 X14	178X356	7 ¹ ⁄ ₄ × 14 ¹ ⁄ ₄	184x362	9 ⁵ ⁄ ₈ × 16 ⁵	8 244x422	3 ⁵ / ₈ 92	4 % 124	⁵ ⁄16 8	
LSO-0716S	CLSO-0716S	7X16	178X406	7 ¼ X 16¼	184x413	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄	8 244x473	35% 92	4 % 124	⁵ ⁄16 8	
LSO-0718S	CLSO-0718S	7X18	178X457	7 ½ X 18¼	184x464	9 ⁵ ⁄ ₈ x 20 ⁵	8 244x524	35% 92	4 % 124	⁵ ⁄16 8	
LSO-0816S	CLSO-0816S	8X16	203X406	8 ¼ X 16 ¼	210x413	10 ⁵ ⁄ ₈ x 18 ⁵ ⁄	8 269x473	4 ¹ ⁄ ₈ 104	5 ³ ⁄ ₈ 137	⁵ /16 8	
LSO-0818S	CLSO-0818S	8X18	203X457	8 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄	210x464	10 ⁵ ⁄8 X 20 ⁵ ⁄	8 269x524	4 ¹ ⁄ ₈ 104	5 ³ ⁄ ₈ 137	⁵ ⁄16 8	
LSO-1020S	CLSO-1020S	10X20	254X508	10 ³ ⁄ ₈ X 20 ³ ⁄ ₈	262x516	12 ⁷ / ₈ X 22 ⁷ /	8 327x581	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄8 10	
LSO-1024S	CLSO-1024S	10X24	254X609	10 ³ ⁄ ₈ X 24 ³ ⁄ ₈	262x617	12 ⁷ / ₈ X 26 ⁷	8 327x682	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄8 10	
LSO-1224S	CLSO-1224S	12X24	305X609	12 ³ ⁄ ₈ X 24 ³ ⁄ ₈	313x617	14 ⁷ / ₈ X 26 ⁷	8 378x682	6 ¹ / ₈ 157	7 ³ ⁄ ₈ 190	³ ⁄ ₈ 10	
LSO-1228S	CLSO-1228S	12X28	305X710	12 ³ ⁄ ₈ x 28 ³ ⁄ ₈	313x718	14 ⁷ ⁄ ₈ x 30 ⁷	8 378x784	6 ¹ ⁄ ₈ 157	7 ³ ⁄ ₈ 190	³ ⁄8 10	
.Standard	angled spigot	size"G"a	vailable	$1\frac{1}{4}''_{32mm} \cdot 1\frac{1}{2}''_{38m}$	$m \cdot 2''_{51mm}$	$2\frac{1}{2}''_{63mm} \cdot 3''_{76r}$	$1.00 \cdot 3^{1/2}$ $^{''}_{89mm}$				

 $\begin{array}{l} 1. Standard \ angled \ spigot \ size "G" available \ 1^{1/4} "_{32mm} \cdot 1^{1/2} "_{38mm} \cdot 2''_{51mm} \cdot 2^{1/2} "_{63mm} \cdot 3''_{76mm} \cdot 3^{1/2} "_{89mm} \\ 2. Special \ spigot \ size \ "G" \ available \ from \ 1''_{25.4mm} \sim 5''_{127mm} \\ \end{array}$

3. Custom sizes available if Radius (R & R1) are kept unchanged.

4. The spigot height are needed, while ordering.

5.CLS-0716~CLS-1228 are with elegant arc storm cover.



ROUND OPENING PORTHOLES



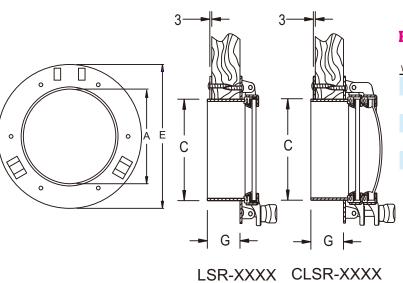
Round opening ports



LSR Round Portholes / boat outside view



Round ports with storm cover



ROUND OPENING PORTHOLES

MODEL No. W/O COVER W/COVI		A DEL	C CUT OU		E OVERALL	GLASS THICKESS
LSR-0700	7	178	7 ¹ ⁄4	184	9 ⁵ ⁄8 244	⁵ /16 8
LSR-0800	8	203	8 ¹ ⁄4	210	10 ⁵ % 269	⁵ 16 8
LSR-1000 CLSR-10	00 10	254	10 ³ ⁄8	262	12 ⁷ ⁄ ₈ 327	³ ⁄ ₈ 10
LSR-1200 CLSR-12	00 12	305	12 ³ ⁄8	311	14 ⁷ ⁄8 378	³ ⁄ ₈ 10
LSR-1400 CLSR-14	00 14	356	14 ³ ⁄8	365	16 ⁷ ⁄8 431	³ ⁄ ₈ 10
						IN MM

1.Standard spigot size

"G" available $1\frac{1}{4}$ " $\cdot 1\frac{1}{2}$ " $\cdot 2$ " $\cdot 2\frac{1}{2}$ " $\cdot 3$ " $\cdot 3\frac{1}{2}$ "

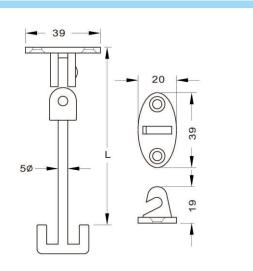
2. Special spigot size "G" available from 1"~ 5"

3. The spigot height are needed, while ordering.

4.CLSR-0700~CLSR-1400 are with elegant arc storm cover.

PORT HOOK



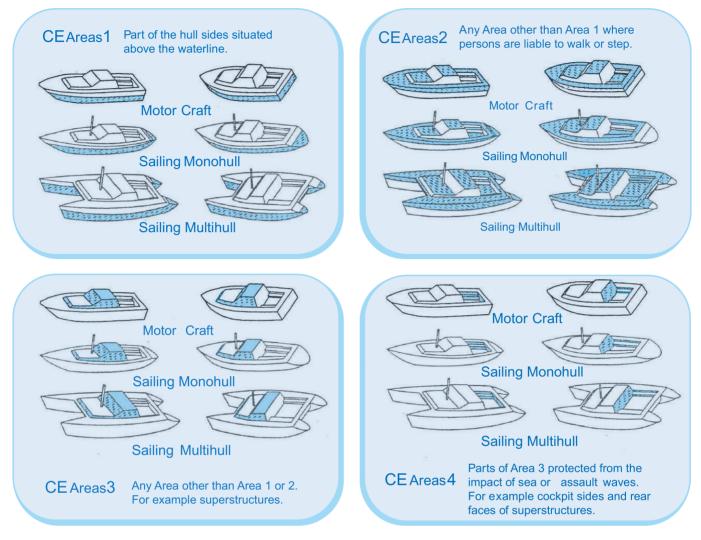


Standard size (L): 3",4",5",6" & custom size available.



HATCH & PORTLIGHT CE REGULATIONS

CE AREAS



CE APPROVAL

- The CE Regulations apply to craft up to 24m in length that are sold in the European Union. Although the regulations may not apply to your boat, they are a useful guide for small craft throughout the world.
- Manship warranty portlights and hatches are installed in CE areas 1.2.3.4, Can't be installed in unexpected places, otherwise the warranty is invalid.
- Manship hatches and portlights are both apply to Design Category A (Ocean Sailing) or Design Category B (Offshore Sailing). It's manufactured according to CE regulations and passed DNV CEcertification, The regulations divide up the hull and deck into four specific "Areas".
 A. Hatches and portlights which is suitable for fitting to an area "1 "that the product is suitable for installation in any area.

B. The product that is approved for area 2 may also fitted to area 3, and 4, not area 1

- All sailboats, machine ships, ocean sailing boats (Category A) and offshore sailing boats (Category B). No glass or tempered glass should be used for portlights installed in areas 1, 2 (unless it is bulletproof glass) It must be equipped with a standard metal explosion-proof cover before it can be used in areas 1, 2
- Hatch material in CE has special regulations, do not use glass or tempered glass (unless it is bulletproof glass)

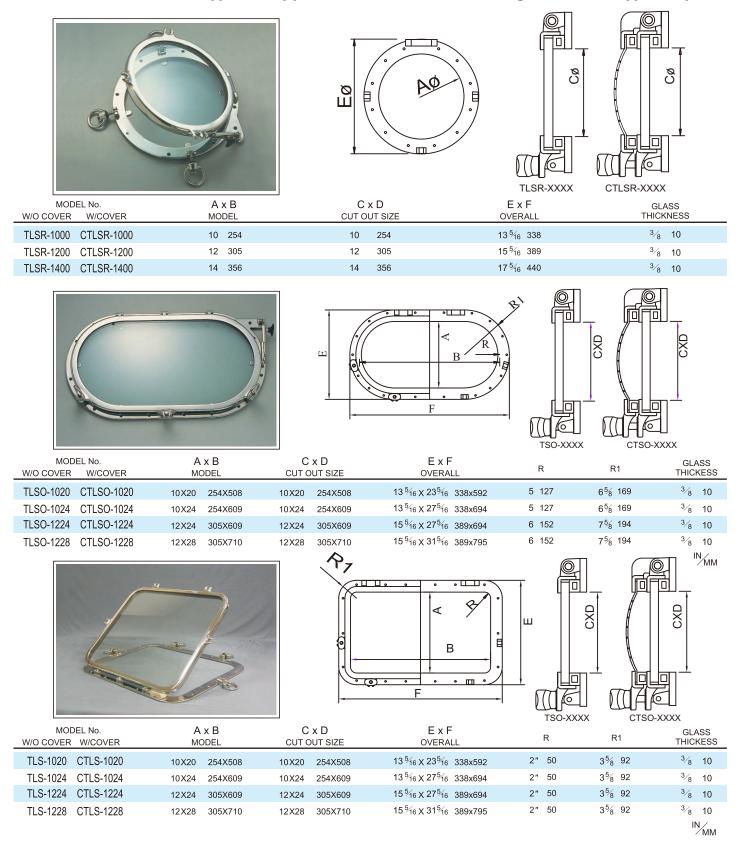


HEAVY DUTY PORTS

Suitable for steel boat and Aluminum boat.

• (E Approved. According to ISO / DIS 12216

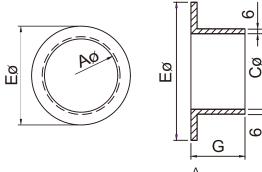
TLS, TLSO, TLSR type are applied to Area III, \mathbb{I} . Designs for craft type "any". CTLS, CTLSO, CTLSR type are applied to Area I, II, III, \mathbb{I} . Designs for craft type "any".



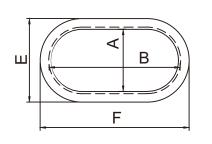


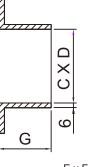
HEAVY DUTY PORTS (G)

- 1. Install with heavy duty ports spigot and weld on the hull spigot (G). Stainless Steel (316) and Aluminum (5052) are available.
- 2. Standard angled spigot sizeЎGЎavailable 1-1/4"(32mm), 1-1/2"(38mm), 2"(51mm), 2-1/2" (63mm), 3"(76mm), 3-1/2(89mm).
- 3. Special spigot size "G" available form 1" (25.4mm)~6"(152mm).
- 4. Custom sizes available if Radius (R&R1) are kept unchanged.
- 5. The spigot height are needed, while ordering.

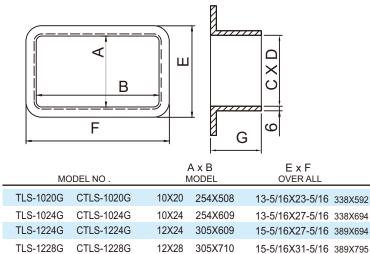


MODEL NO .	MODEL	E OVER ALL	
TLSR-1000G CTLSR-1000G	10 254	13-5/16 338	
TLSR-1200G CTLSR-1200G	12 305	15-5/16 389	
TLSR-1400G CTLSR-1400G	14 356	17-5/16 440	
			IN/MM





MODEL NO .	A x B MODEL	E X F OVER ALL	
TLSO-1020G CTLSO-1020G	10X20 254X508	13-5/16X23-5/16 338X592	
TLSO-1024G CTLSO-1024G	10X24 254X609	13-5/16X27-5/16 338X694	
TLSO-1224G CTLSO-1224G	12X24 305X609	15-5/16X27-5/16 389X694	
TLSO-1228G CTLSO-1228G	12X28 305X710	15-5/16X31-5/16 389X795	
		IN/MM	







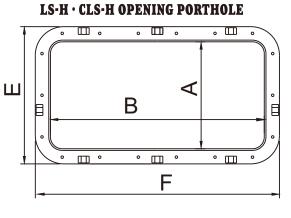


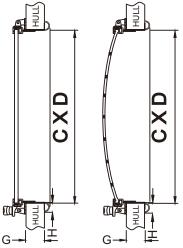


OPENING PORTS (H-TRIM)

H-Trim: 316 stainless steel material,the appearance is elegant, not the same as traditional frames.







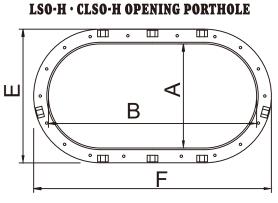
LS-H, CLS-H

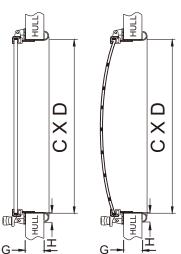
MODEL No. W/O COVER W/COVER	A x B MODEL	C x D CUT OUT SIZE	E x F OVERALL	н	R	R1	GLASS THICKNESS
LS-0512H	5X12 127X305	5 ¹ ⁄ ₂ x 12 ³ ⁄ ₈ 139X313	7 ⁵ ⁄ ₈ X 14 ¹ ⁄ ₂ 193x368	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0714H	7X14 178X356	7 ½ X 14½ 190X368	9 ⁵ ⁄ ₈ x 16 ⁵ ⁄ ₈ 244x422	⁵ ⁄ ₈ 15	1¼ 32	2 ³ / ₈ 62	1⁄4 6
LS-0716H CLS-0716H	7X16 178X406	7 ½ X 16½ 190X419	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈ 244x473	⁵ ⁄ ₈ 15	1 1/4 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0718H CLS-0718H	7X18 178X457	7 ¹ ⁄ ₂ x 18 ¹ ⁄ ₂ 190X470	9 ⁵ / ₈ x 20 ⁵ / ₈ 244x524	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0816H CLS-0816H	8X16 203X406	8 ¹ ⁄ ₂ X 16 ¹ ⁄ ₂ 216X419	10 ⁵ ⁄ ₈ X 18 ⁵ ⁄ ₈ 269x473	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-0818H CLS-0818H	8X18 203X457	8 ½ X 18½ 216X470	10 ⁵ ⁄ ₈ X 20 ⁵ ⁄ ₈ 269x524	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LS-1020H CLS-1020H	10X20 254X508	10 ⁵ ⁄ ₈ X 20 ⁵ ⁄ ₈ 268X522	12 ⁷ / ₈ X 22 ⁷ / ₈ 327x581	³ ⁄ ₄ 20	11⁄4 32	2½ 65	³ ⁄8 10
LS-1024H CLS-1024H	10X24 254X609	10 ⁵ ⁄ ₈ x 24 ⁵ ⁄ ₈ 268×623	$12^{7}_{8} \times 26^{7}_{8} 327x682$	³ ⁄ ₄ 20	11⁄4 32	2½ 65	³ ⁄8 10
LS-1224H CLS-1224H	12X24 305X609	12 ⁵ ⁄ ₈ x 24 ⁵ ⁄ ₈ 319 X 623	14 ⁷ / ₈ X 26 ⁷ / ₈ 378x682	³ ⁄ ₄ 20	1 1⁄4 32	2½ 65	³ ⁄8 10
LS-1228H CLS-1228H	12X28 305X710	12 ⁵ ⁄ ₈ x 28 ⁵ ⁄ ₈ 319 X 724	14 ⁷ / ₈ X 30 ⁷ / ₈ 378x784	³ ⁄ ₄ 20	1½ 32	2½ 65	³ ⁄8 10

CLSO-H



LSO-H, CLSO-H





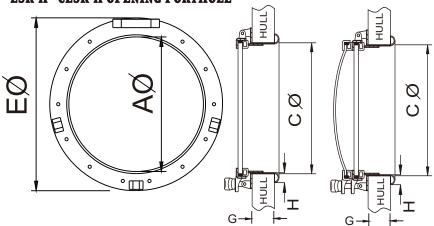
					G->- +	G-	
MODEL No. W/O COVER W/COVER	A x B MODEL	C x D CUT OUT SIZE	E x F OVERALL	н	R	R1	GLASS THICKNESS
LSO-0512H	5X12 127X305	5 ¹ ⁄ ₂ x 12 ³ ⁄ ₈ 139X313	7 ⁵ ⁄ ₈ X 14 ¹ ⁄ ₂ 193x368	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-0714H	7X14 178X356	7 ¹ ⁄ ₂ X 14 ¹ ⁄ ₂ 190X368	9 ⁵ ⁄ ₈ x 16 ⁵ ⁄ ₈ 244x422	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-0716H CLSO-0716H	7X16 178X406	7 ½ X 16½ 190X419	9 ⁵ % X 18 ⁵ % 244x473	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-0718H CLSO-0718H	7X18 178X457	7 ¹ ⁄ ₂ x 18 ¹ ⁄ ₂ 190X470	9 ⁵ / ₈ x 20 ⁵ / ₈ 244x524	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-0816H CLSO-0816H	8X16 203X406	8 ½ X 16½ 216X419	10 ⁵ % X 18 ⁵ % 269x473	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-0818H CLSO-0818H	8X18 203X457	8 ½ X 18½ 216X470	10 ⁵ ⁄ ₈ X 20 ⁵ ⁄ ₈ 269x524	⁵ ⁄ ₈ 15	1 ¹ ⁄ ₄ 32	2 ³ ⁄ ₈ 62	1⁄4 6
LSO-1020H CLSO-1020H	10X20 254X508	10 ⁵ ⁄ ₈ X 20 ⁵ ⁄ ₈ 268X522	12 ⁷ ⁄ ₈ X 22 ⁷ ⁄ ₈ 327x581	³ ⁄ ₄ 20	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LSO-1024H CLSO-1024H	10X24 254X609	10 ⁵ ⁄ ₈ X 24 ⁵ ⁄ ₈ 268 X 623	12 ⁷ / ₈ X 26 ⁷ / ₈ 327x682	³ ⁄ ₄ 20	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
LSO-1224H CLSO-1224H	12X24 305X609	12 ⁵ ⁄ ₈ x 24 ⁵ ⁄ ₈ 319 x 62 3	14 ⁷ ⁄ ₈ x 26 ⁷ ⁄ ₈ 378x682	³ ⁄ ₄ 20	11⁄4 32	2½ 65	³ ⁄8 10
LSO-1228H CLSO-1228H	12X28 305X710	12 ⁵ ⁄ ₈ x 28 ⁵ ⁄ ₈ 319 x 724	14 ⁷ / ₈ x 30 ⁷ / ₈ 378x784	³ ⁄ ₄ 20	1 ¹ ⁄ ₄ 32	2½ 65	³ ⁄8 10
							IN MM



CLSR-H

LSR-H · CLSR-H OPENING PORTHOLE





LSR-H, CLSR-H

MODEL No. W/O COVER W/COVER	A MODEL	C CUT OUT SIZE	E OVERALL	Н	GLASS THICKESS
LSR-1000H CLSR-1000H	10 254	10 ¹ ⁄ ₂ 267	12 ⁷ ⁄8 327	³ ⁄ ₄ 20	³ ⁄ ₈ 10
LSR-1200H CLSR-1200H	12 305	12 ½ 318	14 ⁷ ⁄ ₈ 378	³ ⁄ ₄ 20	³ ⁄ ₈ 10
LSR-1400H CLSR-1400H	14 356	14½ 368	16 ⁷ ⁄ ₈ 429	³ ⁄ ₄ 20	³ ⁄ ₈ 10
					IN MM

1.Standard angled spigot size "G" available $1\frac{1}{4}\frac{"_{32mm}}{_{32mm}}$. $1\frac{1}{2}\frac{"_{83mm}}{_{38mm}}$. $2\frac{1}{2}\frac{"_{63mm}}{_{63mm}}$. $3\frac{1}{2}\frac{"_{89mm}}{_{89mm}}$ 2.Special spigot size "G" available from $1\frac{"_{25,4mm}}{_{25,4mm}}$. $5\frac{"_{127mm}}{_{127mm}}$ 3.Custom sizes available if Radius (R & R1) are kept unchanged. 4.The spigot height are needed, while ordering.



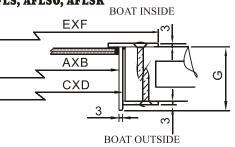


FIXED PORTS

AFLS, AFLSO, AFLSR









R1

2³⁄₈ 62

2³⁄₈ 62

23% 62

2³⁄₈ 62

23/8 62

2³⁄₈ 62

2½ 65

2½ 65

2½ 65

2½ 65

GLASS THICKNESS

1⁄4 6

1⁄4 6

1⁄4 6

1⁄4 6

1⁄4 6

1⁄4 6

³⁄₈ 10

³⁄₈ 10

³⁄₈ 10

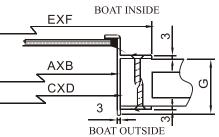
³⁄₈ 10

MODEL	. No.		x B DEL	C x E CUT OUT	-	E x I OVERA		
AFLS-0512	BFLS-0512	5X12	127X305	5 ¹ ⁄ ₄ x 12 ¹ ⁄ ₈	133x307	7 ⁵ ⁄ ₈ x 14 ¹ ⁄ ₂	193x368	
AFLS-0714	BFLS-0714	7X14	178X356	7 ½ X 14 ¼	184x362	9 ⁵ ⁄ ₈ x 16 ⁵ ⁄ ₈	244x424	
AFLS-0716	BFLS-0716	7X16	178X406	7 ¼ x 16¼	184x413	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈	244x473	
AFLS-0718	BFLS-0718	7X18	178X457	7 ¹ ⁄ ₄ x 18 ¹ ⁄ ₄	184x464	9 ⁵ / ₈ × 20 ⁵ / ₈	244x524	
AFLS-0816	BFLS-0816	8X16	203X406	8 ¹ ⁄ ₄ X 16 ¹ ⁄ ₄	210x413	10 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈	269x473	
AFLS-0818	BFLS-0818	8X18	203X457	8 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄	210x464	10 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈	269x524	
AFLS-1020	BFLS-1020	10X20	254X508	10 ⁵ / ₁₆ X 20 ⁵ / ₁₆	262x516	12 ⁷ / ₈ x 22 ⁷ / ₈	327x581	
AFLS-1024	BFLS-1024	10X24	254X609	10 ⁵ ⁄16 X 24 ⁵ ⁄16	262x617	12 ⁷ / ₈ x 26 ⁷ / ₈	327x682	
AFLS-1224	BFLS-1224	12X24	305X609	12 ⁵ ⁄16 X 24 ⁵ ⁄16	313x617	14 ⁷ / ₈ x 26 ⁷ / ₈	378x682	
AFLS-1228	BFLS-1228	12X28	305X710	12 ⁵ / ₁₆ x 28 ⁵ / ₁₆	313x718	14 ⁷ ⁄ ₈ x 30 ⁷ ⁄ ₈	378x783	

AFLSO



BFLS, BFLSO, BFLSR



BFLSO

R

1 1⁄4 32

1 1⁄4 32

1 1⁄4 32

1 1⁄4 32

1 1⁄4 32

11⁄4 32

1 1/4 32

11/4 32

1 1⁄4 32

1 1⁄4 32



		B	OAT OUTSIDE			
MODEL No.	A x B MODEL	C x D CUT OUT SIZE	E x F OVERALL	R	R1	GLASS THICKNESS
AFLSO-0512 BFLSO-0	5 12 5X12 127X305	5 ¹ ⁄ ₄ x 12 ¹ ⁄ ₈ 133x307	7 ⁵ ⁄ ₈ X 14 ¹ ⁄ ₂ 193x368	2 ⁵ / ₈ 67	37% 98	1⁄4 6
AFLSO-0714 BFLSO-0	714 7×14 178×356	7 ¹ ⁄ ₄ X 14 ¹ ⁄ ₄ 184x362	9 ⁵ ⁄ ₈ x 16 ⁵ ⁄ ₈ 244x424	3 ⁵ / ₈ 92	4 ⁷ / ₈ 124	¹ ⁄ ₄ 6
AFLSO-0716 BFLSO-0	7 16 7×16 178×406	7 ¹ ⁄ ₄ X 16 ¹ ⁄ ₄ 184x413	9 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈ 244x473	3 ⁵ ⁄ ₈ 92	4 ⁷ / ₈ 124	1⁄4 6
AFLSO-0718 BFLSO-0	718 7×18 178×457	7 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄ 184x464	9 ⁵ / ₈ x 20 ⁵ / ₈ 244x524	3 ⁵ / ₈ 92	4 ⁷ / ₈ 124	1⁄4 6
AFLSO-0816 BFLSO-0	316 8x16 203x406	8 ¼ X 16¼ 210x413	10 ⁵ ⁄ ₈ X 18 ⁵ ⁄ ₈ 269x473	4 ¹ ⁄ ₈ 104	5 ³ ⁄ ₈ 137	1⁄4 6
AFLSO-0818 BFLSO-0	318 8X18 203X457	8 ¹ ⁄ ₄ X 18 ¹ ⁄ ₄ 210x464	10 ⁵ ⁄ ₈ x 20 ⁵ ⁄ ₈ 269x524	4 ¹ ⁄ ₈ 104	5 ³ ⁄ ₈ 137	1⁄4 6
AFLSO-1020 BFLSO-1)20 10X20 254X508	10 ⁵ / ₁₆ X 20 ⁵ / ₁₆ 262x516	12 ⁷ / ₈ X 22 ⁷ / ₈ 327x581	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄ ₈ 10
AFLSO-1024 BFLSO-1) 24 10X24 254X609	10 ⁵ / ₁₆ X 24 ⁵ / ₁₆ 262x617	12 ⁷ / ₈ X 26 ⁷ / ₈ 327x682	5 ¹ ⁄ ₈ 131	6 ³ ⁄ ₈ 164	³ ⁄ ₈ 10
AFLSO-1224 BFLSO-1	2 24 12X24 305X609	12 ⁵ / ₁₆ X 24 ⁵ / ₁₆ 313x617	14 ⁷ / ₈ X 26 ⁷ / ₈ 378x682	6 ¹ ⁄ ₈ 157	7 ³ / ₈ 190	³ ⁄ ₈ 10
AFLSO-1228 BFLSO-1	2 28 12X28 305X710	12 ⁵ / ₁₆ X 28 ⁵ / ₁₆ 313x718	14 ⁷ / ₈ X 30 ⁷ / ₈ 378x783	6 ¹ ⁄ ₈ 157	7 ³ ⁄ ₈ 190	³ ⁄ ₈ 10
						IN

AFLSR	MODEL No.			A Del	CUT OL	C JT SIZE	E OVEF		GLASS THICKNES	
	AFLSR-0500	BFLSR-0500	5	127	5 ¹ ⁄4	133	7 5⁄8	193	¹ ⁄ ₄ 6	
	AFLSR-0600	BFLSR-0600	6	152	6 ¹ ⁄ ₄	158	8 %	218	¹ ⁄ ₄ 6	
	AFLSR-0700	BFLSR-0700	7	178	7 ¼	184	9 ⁵ ⁄8	244	1⁄4 6	
(* (AFLSR-0800	BFLSR-0800	8	203	8 ¹ ⁄ ₄	210	10 ⁵ ⁄8	269	1⁄4 6	
	AFLSR-1000	BFLSR-1000	10	254	10 ⁵ /16	262	12 ⁷ ⁄8	327	³ ⁄8 10	
	AFLSR-1200	BFLSR-1200	12	305	12 ⁵ ⁄16	313	14 ⁷ ⁄8	378	³ ⁄8 10	
	AFLSR-1400	BFLSR-1400	14	356	14 ⁵ ⁄16	364	16 ⁷ ⁄8	428	³ ⁄8 10	
									IN Z	

BFLSR



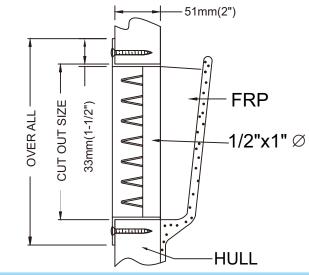
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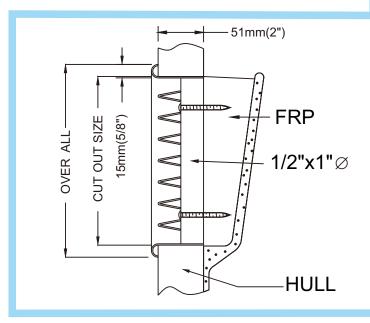


VENTILATOR

- 316 stainless steel machined rolled fraines. Hand polishing to protect against corrosion.
- Powder coating either off white or black available.
- All cut out sizes C X D are same as Rectangular / Round / Oval / Elliptical port's, pls refer it to LS / LR / LO / LE type.









(LO) OVAL VENTILATOR



(LE) ELLIPTICAL VENTILATOR



(LR) ROUND VENTILATOR





ELLIPTICAL, OVAL AND ROUND OPENING PORTS (H-TRIM)

• C C Approved. According to ISO / DIS 12216 LE, LO & LR type are supplied to Area III, III. Designs for craft type "any".

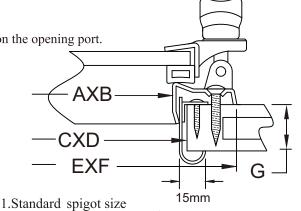
- 316 stainless steel machined rolled ports. 316 stainless steel machine stamped frames. Hand Polished and electro polished to provide long lasting protection against corrosion.
- Weather resistant themo-plastic Sanplane gasket.
- High Strength tempered glass.
- Optional fiberglass screens with rubber gaskets to ensure a tight fit on the opening port.



MODEL No.	A x B	C x D	E x F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
LE-0718	7 X 17 ³ ⁄4	7 ³ ⁄ ₈ x 18	9 ⁵ / ₈ x 20 ³ / ₈	⁵ /16
	178×451	187×458	244×518	8



MODEL No.	A x B MODEL	C x D CUT OUT	E x F OVERALL	GLASS THICKESS
LO-0512	5 X 12 127×305	5 ⁵ ⁄ ₈ X 12 ⁵ ⁄ ₈ 143×321	7 ⁷ ⁄ ₈ X 14 ⁷ ⁄ ₈ 200×378	5/16 8
LO-0614	6 X 14 153×356	6 % X14 %	8 ⁷ ⁄ ₈ X 16 ⁷ ⁄ ₈ 225×429	5/16 8
LO-0714	7 X 14	7 ⁵ ⁄ ₈ X14 ⁵ ⁄ ₈	9 % X 16 %	5/16 8
LO-0716	7 X 16 178×406	7 ⁵ ⁄ ₈ X16 ⁵ ⁄ ₈ 194×422	9 % X 18 8 251×479	8 5/16 8
LO-0718	7 X 18 178×457	7 ⁵ ⁄ ₈ X18 ⁵ ⁄ ₈ 194×473	9 % X 20 % 251×530	5/16 8
LO-0816	8 X 16 203×406	8 5% X165% 219×422	10 ⁷ ⁄ ₈ X 18 ⁷ ⁄ ₈ 276×479	5/16 8
LO-0818	8 X 18 203×457	8 % X18 % 219×473m	10 ⁷ / ₈ X 20 ⁷ / ₈ 276×530	5/16 8



- "G" available $1\frac{1}{4}\frac{3}{32\text{mm}} \cdot 1\frac{1}{2}\frac{3}{38\text{mm}} \cdot 2\frac{1}{2}\frac{3}{63\text{mm}} \cdot 3\frac{7}{76\text{mm}} \cdot 3\frac{1}{2}\frac{3}{88\text{mm}}$
- 2.Special spigot size "G" available from 1^{"25mm} ~5^{"125mm}
- 3. The spigot height are needed, while ordering.

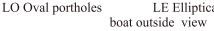


MODEL No.	A	C	F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
LR-0500	5	5 ⁵ / ₈	7 ⁷ / ₈	5/16
	127mm	143	200	8
LR-0600	6	6 ⁵ / ₈	8 ⁷ / ₈	5/16
	153mm	168	225	8
LR-0700	7	7 ⁵ ⁄8	9 ⁷ / ₈	5/16
	178mm	194	251	8
LR-0800	8	8 ⁵ / ₈	10 ⁷ /8	5/16
	203mm	219	276	8











OPENING PORTS (H-TRIM) WITH STORM COVERS

• CE, CLR & CLO type are applied to Area I, II, III, III. Designs for craft type "any".

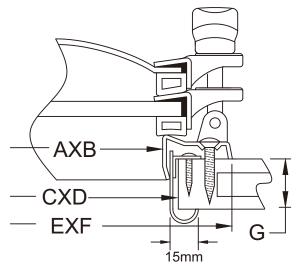
- Each cover is machine stamped 316 stainless steel. Hand Polished and electro polished to provide long lasting protection against corrosion.
- All other features are the same as our **RECTANGULAR OPENING PORTS**.



MODEL No.	A x B	C x D	E x F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
CLE-0718	7 X 17 ³ ⁄4	7 ³ / ₈ x 18	9 ⁵ / ₈ x 20 ³ / ₈	5/16
	178×451	187×458	244×518	8
				IN/

МММ

• Fixed or removable storm cover available.



1.Standard spigot size "G" available $1\frac{1}{4}$ "_{32mm} $\cdot 1\frac{1}{2}$ "_{38mm} $\cdot 2$ "_{51mm} $\cdot 2\frac{1}{2}$ "_{63mm} $\cdot 3$ "_{76mm} $\cdot 3\frac{1}{2}$ "_{89mm}

2.Special spigot size "G" available from $1\frac{7}{25}$ mm ~ $5\frac{7}{125}$ mm 3.The spigot height are needed, while ordering.



MODEL No.	A x B	C x D	E x F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
CLO-0716	7 X 16	7 ⁵ ⁄ ₈ X 16 ⁵ ⁄ ₈	9 ⁷ / ₈ x 18 ⁷ / ₈	5/16
	178×406	194×422	251×479	8
CLO-0718	7 X 18	7 ⁵ ⁄ ₈ X 18 ⁵ ⁄ ₈	9 ⁷ / ₈ X 20 ⁷ / ₈	5/16
	178×457	194×473	251×530	8
CLO-0816	8 X 16 203×406	8 ⁵ ⁄ ₈ X 16 ⁵ ⁄ ₈	10 ⁷ / ₈ x 18 ⁷ / ₈ 276×479	5/16 8
CLO-0818	8 X 18	8 ⁵ ⁄ ₈ x 18 ⁵ ⁄ ₈	10 ⁷ / ₈ x 20 ⁷ / ₈	5/16
	203×457	219×473	276×530	8



MODEL No.	A	C	F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
CLR-0800	8	8 ⁵ /8	10 ⁷ / ₈	5/16
	203	219	276	8
				IN/

ММ



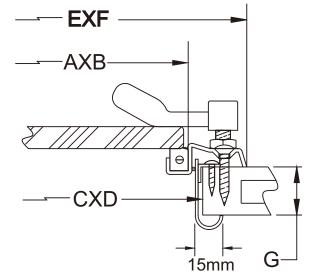
ECONOMY OPENING PORTS(H-TRIM)

• C € Approved. According to ISO / DIS 12216 EE, EO & ER type are applied to Area Ⅲ,Ⅳ . Designs for craft type "any".

- 316 stainless steel machine stamped frames. ports and hinges. Hand Polished and electro polished to provide long lasting protection against corrosion.
- Wing type nylon closures.
- Weather resistant themo-plastic Sanplane gasket.
- Clear or Tanned Acrylic.



MODEL No.	A x B MODEL	C x D CUT OUT	E x F OVERALL	ACRYLIC THICKESS
EE-0718	7 X 17 ³ ⁄4 178×459	7 ³ ⁄ ₈ χ 18 188×458	9 % X 20%	1/2 12



- 1.Standard spigot size "G" available $1\frac{1}{4}$ "_{32mm} $\cdot 1\frac{1}{2}$ "_{38mm} $\cdot 2$ "_{51mm} $\cdot 2\frac{1}{2}$ "_{63mm} $\cdot 3$ "_{76mm} $\cdot 3\frac{1}{2}$ "_{89mm}
- 2.Special spigot size "G" available from 1 25mm ~ 5 125mm
- 3. The spigot height are needed, while ordering.



MODEL No.	A x B	C x D	E x F	ACRYLIC
	MODEL	CUT OUT	OVERALL	THICKESS
EO-0512	5 X 12	5 ³ ⁄ ₈ x 12 ³ ⁄ ₈	7 ⁷ ⁄ ₈ x 14 ⁷ ⁄ ₈	1/2
	127×305	137×315	200×378	12
EO-0614	6 X 14	6 ³ / ₈ X 14 ³ / ₈	8 ⁷ ⁄ ₈ X 16 ⁷ ⁄ ₈	1/2
	153×356	162×365	225×429	12
EO-0714	7 X 14	7 ³ ⁄ ₈ X 14 ³ ⁄ ₈	9 ⁷ / ₈ x 16 ⁷ / ₈	1/2
	178×356	188×365	251×429	12
EO-0716	7 X 16	7 ³ ⁄ ₈ X 16 ³ ⁄ ₈	9 ⁷ / ₈ x 18 ⁷ / ₈	1/2
	178×406	188×416	251×479	12
EO-0718	7 X 18	7 ³ ⁄ ₈ X 18 ³ ⁄ ₈	9 ⁷ / ₈ x 20 ⁷ / ₈	1/2
	178×457	188×467	251×530	12
EO-0816	8 X 16	8 ³ ⁄ ₈ X 16 ³ ⁄ ₈	10 ⁷ / ₈ x 18 ⁷ / ₈	1/2
	203×406	213×416	276×479	12
EO-0818	8 X 18	8 ³ ⁄ ₈ X 18 ³ ⁄ ₈	10 ⁷ / ₈ X 20 ⁷ / ₈	1/2
	203×457	213×467	276×530	12



MODEL No.	A	C	F	ACRYLIC
	MODEL	CUT OUT	OVERALL	THICKESS
ER-0500	5	5 ³ / ₈	7 ⁷ / ₈	1/2
	127	137	200	12
ER-0600	6	6 ³ /8	8 ⁷ / ₈	1/2
	153	162	225	12
ER-0700	7	7 ³ ⁄8	9 ⁷ / ₈	1/2
	178	188	251	12
ER-0800	8	8 ³ /8	10 ⁷ / ₈	1/2
	203	213	276	12

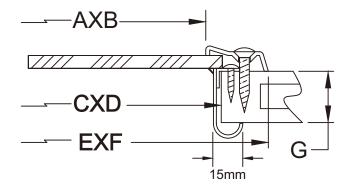


FIXED TYPE PORTHOLES (H-TRIM)

- 316 machined stamped stainless steel frames and trim rings. Hand Polished and electro polished to provide long lasting protection against corrosion.
- High Strength tempered glass.
- Additional fixed or removable storm cover available.



MODEL No.	A x B	C x D	E x F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
FE-0718	7 X 17 ³ ⁄4	7 ³ ⁄ ₈ X 18	9 ⁵ ⁄ ₈ X 20 ³ ⁄ ₈	1/4
	178×451	188×458	244×518	6
				IN MM



- 1.Standard spigot size
- "G" available $1\frac{1}{4}$ "_{32mm} $\cdot 1\frac{1}{2}$ "_{38mm} $\cdot 2$ "_{51mm} $\cdot 2\frac{1}{2}$ "_{63mm} $\cdot 3$ "_{76mm} $\cdot 3\frac{1}{2}$ "_{89mm}
- 2.Special spigot size "G" available from 1^{"25mm}~5^{"125mm}
- 3. The spigot height are needed, while ordering.



MODEL No.	A x B	C x D	E x F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
FO-0512	5×12	5 ³ % X 12 3 %	7 ⁷ ⁄ ₈ x 14 7 ⁄ ₈	1/4
	127×305	137×315	200×378	6
FO-0614	6×14	6 ^{.3} ⁄ ₈ χ 14 ³ ⁄ ₈	8 ⁷ ⁄ ₈ x 16 ⁷ ⁄ ₈	1⁄4
	153×356	162×365	225×429	6
FO-0714	7 X 14	7 ³ ⁄ ₈ x 14 ³ ⁄ ₈	9 ⁷ / ₈ X 16 ⁷ / ₈	1⁄4
	178×356	188×365	251×429	6
FO-0716	7×16	7 ³ ⁄ ₈ x 16 ³ ⁄ ₈	9 ⁷ ⁄ ₈ x 18 ⁷ ⁄ ₈	1⁄4
	178×406	188×416	251×479	6
FO-0718	7 X 18	7 ³ ⁄ ₈ X 18 ³ ⁄ ₈	9 ⁷ / ₈ X 20 ⁷ / ₈	1/4
	178×457	188×467	251×530	6
FO-0816	8×16	8 ³ ⁄ ₈ X 16 ³ ⁄ ₈	10 ⁷ ⁄ ₈ x 18 ⁷ ⁄ ₈	1⁄4
	203×406	213×416	276×479	6
FO-0818	8×18	8 ³ / ₈ X 18 ³ / ₈	10 ⁷ / ₈ x 20 ⁷ / ₈	1⁄4
	203×457	213×467	276×530	6



MODEL No.	A	C	F	GLASS
	MODEL	CUT OUT	OVERALL	THICKESS
FR-0500	5	5 ³ / ₈	7 ⁷ ⁄8	1⁄4
	127	137	200	6
FR-0600	6	6 ³ /8	8 ⁷ / ₈	1/4
	153	162	225	6
FR-0700	7	7 ³ /8	9 ⁷ / ₈	1/4
	178	188	251	6
FR-0800	8	8 ³ /8	10 ⁷ ⁄8	1/4
	203	213	276	6

