

# Flagpole Components, Inc.



*catalog #2*



## Flagpole Components, Inc.

was formed in 1988 to provide flagpole manufacturers, distributors and dealers with a single supply source for component parts for all types of flagpoles.

**W**ith the release of the second catalog we send sincere thanks to our customers for their interest and support of our company and its products. **FCI** strives to be our customers' sole source for flagpole parts by providing the highest quality products coupled with the fastest possible service.

**P**roduct development continues to be an important, ongoing activity at Flagpole Components, Inc. New product releases were distributed almost immediately after the publication of our first catalog and this new catalog incorporates these plus more. Many of these products were created at the request of our customers' suggestions and it was felt that they could be of use to the entire industry. More new products are in the prototype stage now and information will be distributed as the products become available. Your ideas and comments are most welcome.

"BRONZETONE," AS USED IN THIS CATALOG, REFERS TO A VARIETY OF FINISHES THAT GIVE THE APPEARANCE OF DARK BRONZE DURANODIC. THE TYPE OF FINISH APPLIED IS DETERMINED BY THE TYPE OF ALLOY USED IN THE MANUFACTURE OF THE PRODUCT.

"GOLDTONE," AS USED IN THIS CATALOG, REFERS TO AN APPLIED FINISH GIVING A BRIGHT GOLD APPEARANCE TO THE PRODUCT.



## BALLS

### SPUN ALUMINUM & GOLD LEAFED COPPER

Spun aluminum balls are constructed from heavy gauge aluminum with a flush seam. Gold leaf balls are constructed of copper with a solder-filled joint between upper and lower ball sections followed by hand applied 23k gold leaf. The attachment rod on each is threaded 1/2"-13NC as standard but is also available in 5/8"-11NC upon request. A jamb-nut is provided for use in firmly securing the Ball to the Truck Assembly. A small kit of epoxy is available and is recommended for additional bonding.

SIZE	ALUMINUM GOLD ANODIZED FINISH	ALUMINUM DARK BRONZE FINISH	ALUMINUM NATURAL ANODIZED FINISH	ALUMINUM SATIN FINISH	COPPER GOLD LEAF	COPPER WALL THICKNESS
2 1/2"	BAL-0070	N/A	N/A	N/A	N/A	N/A
3"	BAL-0120	BAL-0123	BAL-0124	BAL-0160	BAL-0140	.035"
4"	BAL-0220	BAL-0223	BAL-0224	BAL-0260	BAL-0240	.035"
5"	BAL-0320	BAL-0323	BAL-0324	BAL-0360	BAL-0340	.035"
6"	BAL-0420	BAL-0423	BAL-0424	BAL-0460	BAL-0440	.035"
8"	BAL-0520	BAL-0523	BAL-0524	BAL-0560	BAL-0540	.040"
10"	BAL-0620	BAL-0623	BAL-0624	BAL-0660	BAL-0640	.040"
12"	BAL-0720	BAL-0723	BAL-0724	BAL-0760	BAL-0740	.050"
Epoxy Kit				TRK-0001		



## EAGLES

### CAST ALUMINUM & COPPER

Available in gold finished cast aluminum or in hand crafted .027" wall copper. The copper eagle can be supplied in a gold enamel finish or with hand applied 23k gold leaf. A jamb-nut is provided for use in firmly securing the Eagle to the Truck Assembly. A small kit of epoxy is available and is recommended for additional bonding. Heavy Duty Trucks are recommended for use with larger eagles and many applications should include the Stainless Steel Truck Spindle option shown on page 5. Wing lengths as listed below are approximate.

CAST ALUMINUM GOLD FINISH	BALL SIZE	HEIGHT OVERALL	TOTAL WING SPAN	WING TIP TO WING TIP	ATTACHMENT ROD SIZE
EAG-0100	1"	5"	8"	6"	1/2"-13NC
EAG-0200	1"	7"	11"	7"	1/2"-13NC
EAG-0300	1"	7"	12"	9"	1/2"-13NC
EAG-0450	none	7"	15"	9"	1/2"-13NC
EAG-0460	3"	10"	15"	9"	1/2"-13NC
EAG-0550	none	15"	27"	15"	1/2"-13NC
EAG-0560	3"	18"	27"	15"	1/2"-13NC



COPPER WITH GOLD ENAMEL	COPPER GOLD LEAF	WING SPAN FROM TIPS	ATTACHMENT ROD SIZE
EAG-0706	EAG-0750	15"	1/2"-13NC
EAG-0806	EAG-0850	18"	5/8"-11NC
EAG-0906	EAG-0950	24"	5/8"-11NC
EAG-1006	EAG-1050	27"	3/4"-10NC
EAG-1106	EAG-1150	30"	3/4"-10NC
EAG-1206	EAG-1250	36"	3/4"-10NC
EAG-1306	EAG-1350	48"	3/4"-8NC
EAG-1406	EAG-1450	60"	3/4"-8NC



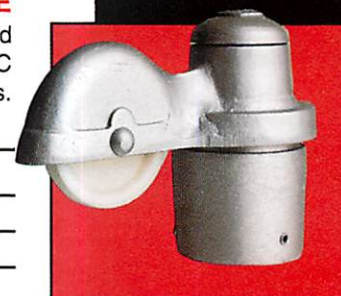


## EXTERNAL HALYARD TRUCKS

### STATIONARY TRUCK - SINGLE SHEAVE

Cast aluminum construction with a cast nylon sheave on a  $\frac{1}{4}$ " aluminum axle. Designed to slip over the top of the flagpole and be secured by three  $\frac{1}{4}$ "-20NC stainless steel set screws. Top of the assembly is tapped  $\frac{1}{2}$ "-13NC to accept a finial. Maximum recommended halyard diameter is  $\frac{5}{16}$ ".

SHAFT TOP DIA.	MATTE FINISH	BRONZETONE
$1\frac{7}{8}$ " - 2"	TRK-9100	TRK-9103
$2\frac{3}{8}$ "	TRK-9200	TRK-9203
$2\frac{7}{8}$ " - 3"	TRK-9300	TRK-9303
$3\frac{1}{2}$ "	TRK-9320	TRK-9323



### REVOLVING TRUCK - SINGLE OR DOUBLE SHEAVE

Cast aluminum construction with cast nylon sheave(s) on  $\frac{1}{4}$ " aluminum axle(s). The truck body rotates on 26 stainless steel ball bearings on cast races. The SINGLE SHEAVE TRUCK can be used on flagpoles with up to a  $3\frac{1}{2}$ " O.D. top while the DOUBLE SHEAVE TRUCK can be used on up to 4" O.D. tops. The top of the spindle is tapped  $\frac{1}{2}$ "-13NC as standard to accept a finial but is also available  $\frac{5}{8}$ "-11NC upon request. Maximum recommended halyard size is  $\frac{5}{16}$ ".

SPINDLE THREAD SIZE	SINGLE SHEAVE		DOUBLE SHEAVE	
	MATTE FINISH	BRONZETONE	MATTE FINISH	BRONZETONE
$1\frac{1}{4}$ "NPT	TRK-9600	TRK-9603	TRK-9700	TRK-9703
1"NPT	TRK-9400	TRK-9403	TRK-9500	TRK-9503

### REVOLVING TRUCK - CAP STYLE-SINGLE or DOUBLE SHEAVE

Same specifications as the Single and Double Revolving Trucks shown above except the threaded spindle is replaced with a cast slip over cap and secured to the shaft by three  $\frac{1}{4}$ "-20NC stainless steel set screws.

SHAFT TOP DIA.	SINGLE SHEAVE		DOUBLE SHEAVE	
	MATTE FINISH	BRONZETONE	MATTE FINISH	BRONZETONE
$1\frac{7}{8}$ " - 2"	TRK-9350	TRK-9353	TRK-9360	TRK-9363
$2\frac{3}{8}$ "	TRK-9365	TRK-9368	N/A	N/A
$2\frac{7}{8}$ " - 3"	TRK-9370	TRK-9373	TRK-9380	TRK-9383

### CAP STYLE TRUCK ADAPTERS

For use in mounting a revolving truck assembly to a shaft without a threaded end plug. Unit is tapped  $1\frac{1}{4}$ "NPT and is secured to the shaft using three  $\frac{1}{4}$ "-20NC stainless set screws or by drilling and tapping the shaft to accept bolts.

SHAFT TOP DIA.	MATTE FINISH	BRONZETONE
$2\frac{3}{8}$ "	TRK-2020	TRK-2023
3"	TRK-2030	TRK-2033
$3\frac{1}{2}$ "	TRK-2045	TRK-2048
4"	TRK-2050	TRK-2053
CUSTOM SIZES ARE AVAILABLE UPON REQUEST		



### FLAG/BANNER TRUCK FOR AREA LIGHTING POLES

Ideal for use in adding flags or decorative banners to small area lighting poles in applications such as shopping centers or automobile dealerships. Cast aluminum construction with a cast nylon sheave on a  $\frac{1}{4}$ " aluminum axle. Attaches with four  $\frac{1}{4}$ "-20NC stainless steel flathead screws to a light standard at any desired height.

MATTE FINISH	BRONZETONE
TRK-9150	TRK-9153



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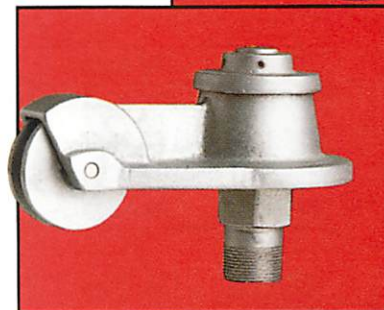


# HEAVY DUTY EXTERNAL HALYARD TRUCKS

## HEAVY DUTY REVOLVING TRUCKS - SINGLE SHEAVE - STANDARD & LARGE

Constructed from heavy cast aluminum with additional reinforcement in all critical areas. The LARGE TRUCK ASSEMBLY can be used on flagpoles with up to a 4" top diameter and the EXTRA LARGE on flagpoles up to 7 1/2" top diameter shafts. For additional strength, product life and ease of rotation, these trucks utilize upper and lower stainless steel, sealed lubricant bearing assemblies on a cast aluminum spindle. The spindle is threaded 1 1/4" NPT and is tapped 1/2"-13NC for a finial (larger sizes upon request). A machined cast aluminum sheave rotates on a heavy stainless steel axle. Maximum recommended halyard size is 3/8". For Stainless Steel Spindle or Beacon Light options, refer to catalog page 5.

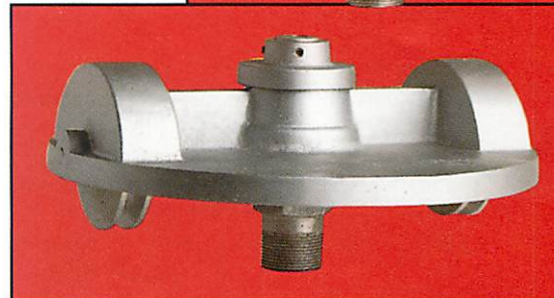
	MATTE FINISH	BRONZETONE
STANDARD	TRK-9420	TRK-9423
LARGE	TRK-9430	TRK-9433



## HEAVY DUTY REVOLVING TRUCK - DOUBLE SHEAVE - LARGE & EXTRA LARGE

Of heavy cast aluminum construction, the truck body rotates on upper and lower stainless steel sealed lubricant bearing assemblies for longer life and greater ease of rotation. The LARGE TRUCK ASSEMBLY can be used on flagpoles with up to 5 1/2" top diameter and the EXTRA LARGE on shafts of up to a 9" top diameter. The standard cast aluminum spindle is threaded 1 1/4"NPT with the top of the spindle tapped 1/2"-13NC (larger sizes upon request). Maximum recommended halyard size is 3/8". For Stainless Steel Spindle options in 1 1/4"NPT and 1 1/2"NPT spindle thread sizes or Beacon Light options, refer to catalog page 5.

	SHEAVE TYPE	MATTE FINISH	BRONZETONE
LARGE	NYLON	TRK-9965	TRK-9968
LARGE	ALUMINUM	TRK-9975	TRK-9978
EXTRA LARGE	ALUMINUM	TRK-9750	TRK-9753



## HEAVY DUTY CAST BALL/TRUCK COMBINATION

Of heavy cast aluminum construction, the 7 3/4" ball truck body rotates on upper and lower stainless steel sealed lubricant bearing assemblies for longer life and greater ease of rotation. A cast aluminum sheave uses a 3/8" stainless steel axle. The standard cast aluminum spindle is threaded 1 1/4" NPT. This truck eliminates the need for a flagpole ball, but can be easily modified for an application of an eagle such as the EAG-0550 pictured on page 2. Sheave clearance allows for use on flagpoles with a top diameter of up to 3 1/2". Maximum recommended halyard size is 3/8". For Stainless Steel Spindle Options refer to catalog page 5.

SATIN	BRONZETONE	GOLDTONE
TRK-9440	TRK-9443	TRK-9446





# TRUCK OPTIONS & ACCESSORIES

## STAINLESS STEEL TRUCK SPINDLE

For applications that require an additional degree of strength for large finials, beacon lights, or large, oversize flags that can put additional strain on the Truck Assembly, an optional precision machined Type 303 stainless steel spindle assembly may be substituted for the standard aluminum spindle in the following Truck Assemblies. The stainless steel spindle is also available with a 1 1/2" NPT thread to allow for use in a more diversified range of flagpole applications. The top of the spindles are available in several common thread sizes for attachment of a finial.

TRUCK ASSEMBLY			STAINLESS STEEL SPINDLE	SPINDLE THREAD SIZE	FINIAL THREAD SIZE
TRK-9420	TRK-9423		TRK-5085	1 1/4" NPT	1/2"-13NC
TRK-9840	TRK-9843	TRK-9846	TRK-5080	1 1/4" NPT	NONE
TRK-9440	TRK-9443	TRK-9446			
TRK-9650	TRK-9653				
TRK-9660	TRK-9663				
TRK-9430	TRK-9433		TRK-5010	1 1/4" NPT	1/2"-13NC
			TRK-5030	1 1/2" NPT	1/2"-13NC
			TRK-5000	1 1/4" NPT	5/8"-11NC
			TRK-5040	1 1/2" NPT	5/8"-11NC
			TRK-5020	1 1/4" NPT	3/4"-10NC
			TRK-5050	1 1/2" NPT	3/4"-10NC
TRK-9800	TRK-9803	TRK-9806	TRK-5090	1 1/4" NPT	NONE
TRK-9900	TRK-9903	TRK-9906	TRK-5070	1 1/2" NPT	NONE
TRK-9850	TRK-9853	TRK-9856			
3/4"-10NC MALE SPINDLE to 1"-8NC FINIAL ADAPTER			TRK-5110		
3/4"-10NC to 3/4"NPT SPINDLE ADAPTER			TRK-5100		



## BEACON / OBSTRUCTION LIGHT OPTION FOR EXTERNAL HALYARD TRUCKS

Available in single or double lens configuration, the lights are FAA spec. L-810, OL-1 (single lens) or OL-2 (double lens) red with a single piece non-ventilated lens on a cast aluminum base with neoprene and teflon gaskets. Unit comes with A21/TS 120 volt bulb(s). Assembly is mounted to the truck spindle via a custom stainless steel adapter threaded 3/4"-10NC on one end and 3/4"NPT on the other to accept the light. Due to the thread size as well as the additional stress placed on the truck and spindle assembly, these units can only be used on a Heavy Duty Single Sheave or Double Sheave External Truck with the stainless steel spindle option.



SINGLE LIGHT with 3/4"-10NC SPINDLE ADAPTER	TRK-5150
DOUBLE LIGHT with 3/4"-10NC SPINDLE ADAPTER	TRK-5170
3/4"-10NC TO 3/4"NPT SPINDLE ADAPTER ONLY	TRK-5100
A21/TS 120 VOLT BULB (ESTIMATED 8,000 HOUR LIFE)	TRK-5155





# INTERNAL HALYARD TRUCKS

## STATIONARY TRUCK

For use on rope style internal halyard flagpoles, a Single Sheave Stationary Truck, as shown on page 3, is modified by adding a small pulley assembly within the truck to allow the halyard to feed from inside the flagpole. The assembly slips over the top of the shaft and is secured by three 1/4"-20NC stainless steel set screws. The minimum I.D. of the top of the shaft should be 2 3/16". Top of the assembly is tapped 1/2"-13NC to accept a finial. Maximum recommended halyard diameter is 5/16".

SHAFT TOP DIAMETER	MATTE FINISH	BRONZETONE
3"	TRK-9901	TRK-9904
3 1/2"	TRK-9911	TRK-9914
INSERT ONLY	TRK-0030	



## REVOLVING TRUCK - SMALL

Proportioned for use on flagpoles up to 35' with a top diameter of up to 3 1/2". Of heavy cast construction, this truck is available in two styles in order to be used in different applications. The standard unit has integrally cast upper and lower bearing races with 25 stainless steel ball bearings. A heavy duty version uses upper and lower stainless steel, sealed lubricant bearing assemblies for longer life and greater ease of rotation. Both models are available for use with cable or can be used in halyard applications with the addition of a hard rubber grommet at the cable exit hole. Assembly is 5 3/4" in height and 5 3/4" in diameter. The cast aluminum spindle is threaded 1 1/4"NPT and the top of the truck is threaded 1/2"-13NC to accept a finial. For Stainless Steel Spindle options, refer to catalog page 5.

	MATTE FINISH	BRONZETONE
STANDARD UNIT	TRK-9670	TRK-9673
STANDARD UNIT WITH HALYARD INSERT	TRK-9680	TRK-9683
HEAVY DUTY UNIT	TRK-9650	TRK-9653
HEAVY DUTY UNIT WITH HALYARD INSERT	TRK-9660	TRK-9663



## REVOLVING TRUCK - LARGE AND EXTRA LARGE

The Large and Extra Large internal halyard units are of heavy cast aluminum construction with a bronze bushing at the cable exit point. These trucks incorporate upper and lower stainless steel, sealed lubricant bearing assemblies. The Large Truck has a base diameter of 8" and the Extra Large Truck has a base diameter of 10". Tops are tapped 1/2"-13NC for the attachment of a finial. The standard cast aluminum spindle on each unit is threaded 1 1/4"NPT. For Stainless Steel Spindle options in 1 1/4"NPT and 1 1/2"NPT spindle thread sizes, refer to catalog page 5.

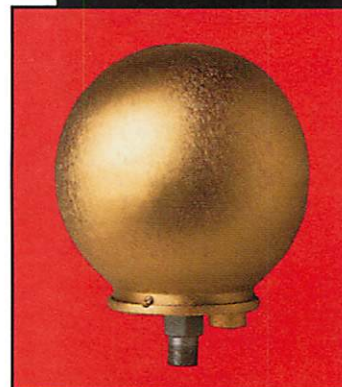
	MAX. SHAFT TOP DIAMETER	MATTE FINISH	BRONZETONE	GOLDTONE
LARGE	4 1/2"	TRK-9800	TRK-9803	TRK-9806
EXTRA LARGE	7 1/2"	TRK-9900	TRK-9903	TRK-9906



## CAST BALL /TRUCK COMBINATION

The Cast Ball/Truck Combination gives a very pleasing top appearance to any flagpole. An eagle, such as the EAG-0550 pictured on page 2, may be added for an even more dramatic effect. Of all aluminum construction, these units utilize stainless steel, sealed lubricant bearing assemblies for longer life and greater ease of rotation, internally mounted stainless steel pulley blocks and bronze cable bushings. The small unit, similar in appearance to the External Halyard Cast Ball/Truck assembly shown on page 4, is 7 3/4" diameter and the large unit has a 12" diameter. The spindle is of machined cast aluminum with 1 1/4"NPT threads. For Stainless Steel Spindle options, refer to catalog page 5.

	MAX. SHAFT TOP DIAMETER	MATTE FINISH	BRONZETONE	GOLDTONE
SMALL	3 1/2"	TRK-9840	TRK-9843	TRK-9846
LARGE	4 1/2"	TRK-9850	TRK-9853	TRK-9856



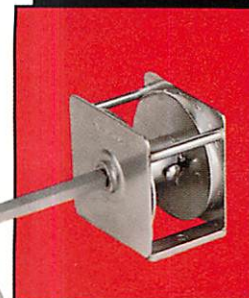


# INTERNAL HALYARD COMPONENTS

## WINCH

Constructed of stainless steel, direct drive internal winch assemblies are available for use on flagpoles with a base diameter of 6" or larger and can be used with either 1/8" or 5/32" stainless steel aircraft cable. The gearless winch utilizes cast bronze internal brakes which only release when rotational pressure is exerted by the winch handle. The winch is locked in any position simply by removing the handle. Three different sizes are available for use on various flagpole heights. The small unit is generally used on flagpole heights up to 45', the large is used for units from 50' to 80' and extra large is typically used on poles higher than 80'. Mounting holes are on 3 1/2" centers for use with 5/16"-18NC bolts.

		DRUM WIDTH	MINIMUM POLE OPENING
WCH-0100	Small	1 1/2"	3 1/8" w x 4 1/8" h
WCH-0200	Large	2"	3 5/8" w x 4 1/8" h
WCH-0300	Extra large	5"	6 5/8" w x 4 1/8" h
WCH-0400	Handle		
WCH-0500	Winch lubricant		



## INTERNAL HALYARD CABLE ASSEMBLY

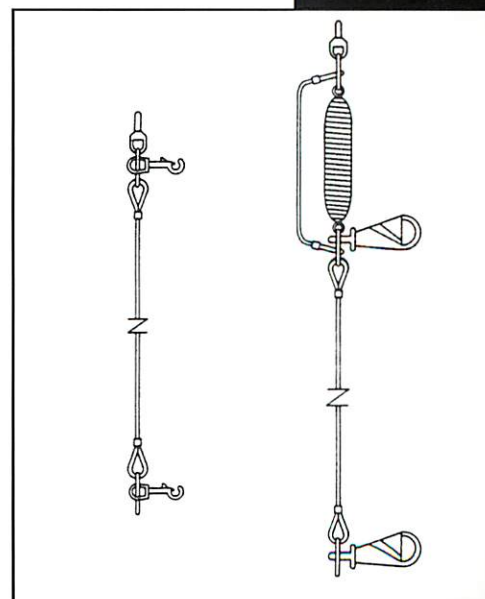
Constructed of 1/8" stainless steel aircraft cable connecting to the winch at one end via an attached copper stop sleeve and the flag arrangement assembly (ordered separately) at the other end. The cable is constructed of seven wire groups with each group containing nineteen strands of AISI304 stainless steel, spec. MIL-W-5424, woven together with a tensile load strength of 1408 pounds. A stainless steel swivel is incorporated to minimize the effect of unraveling due to the rotation of the truck assembly. NOTE: These standard sizes are for flagpoles with the handhole at 5' above grade. Contact factory for special conditions and lengths.

POLE HEIGHT		POLE HEIGHT		POLE HEIGHT	
25'	RCA-0250	50'	RCA-0500	100'	RCA-1000
30'	RCA-0300	60'	RCA-0600	120'	RCA-1200
35'	RCA-0350	70'	RCA-0700	130'	RCA-1300
40'	RCA-0400	80'	RCA-0800	140'	RCA-1400
45'	RCA-0450	90'	RCA-0900	150'	RCA-1500

## FLAG ARRANGEMENT

Attached via a connecting link (LNK-0300), Flag Arrangements provide the method of attaching the flag(s) to the Cable Assembly. Also an excellent method for changing flag sizes or quantity of flags flown without having to replace the entire Cable Assembly. Assembly consists of 1/8" stainless steel aircraft cable with a tensile strength of 1,408 pounds, stainless steel yokes with copper crimps, swivel and plated snaphooks. Heavy duty flag arrangements include a shock spring and heavy duty snaps. Cables can be combined, end to end using a connecting link, for multiple flag arrangements.

FLAG SIZE		FLAG SIZE	
3'x 5'	FSA-0305	8'x 12'Heavy Duty	FSA-0812
4'x 6'	FSA-0406	10'x 15'Heavy Duty	FSA-1015
5'x 8'	FSA-0508	12'x 18'Heavy Duty	FSA-1218
6'x 10'	FSA-0610	15'x 25'Heavy Duty	FSA-1525
		20'x 30'Heavy Duty	FSA-2030
		30'x 50'Heavy Duty	FSA-3050



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# INTERNAL HALYARD COMPONENTS

## RETAINER RING ASSEMBLY

Assembled with  $\frac{1}{8}$ " diameter AISI304 stainless steel aircraft cable with a tensile strength of 1,408 pounds, 1" diameter nylon balls, stainless steel yokes and copper crimps. Sizes larger than 12" use a combination of 1" and 2" diameter balls to aid in lowering the flag on sectional steel poles. Retainer rings may also be used with a stainless steel connecting link and flagsnap for large, multi-grommet flags on both internal and external halyard flagpoles to keep the flag next to the pole and reduce the strain on the upper and lower flag grommets. Custom sizes upon request.

SHAFT BASE DIAMETER	WHITE	BRONZETONE	SHAFT BASE DIAMETER	WHITE	BRONZETONE
5"	RRA-0005	RRA-3005	14"	RRA-0014	RRA-3014
6"	RRA-0006	RRA-3006	16"	RRA-0016	RRA-3016
7"	RRA-0007	RRA-3007	18"	RRA-0018	RRA-3018
8"	RRA-0008	RRA-3008	20"	RRA-0020	RRA-3020
10"	RRA-0010	RRA-3010	22"	RRA-0022	RRA-3022
12"	RRA-0012	RRA-3012	24"	RRA-0024	RRA-3024



## COUNTERWEIGHT

Constructed from 2" diameter steel, heavily coated with plastisol with plated eyebolts on each end of the 7" and 14" and a single eyebolt on the 3  $\frac{1}{2}$ ".

LENGTH	WEIGHT	WHITE	BRONZETONE
3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ lbs	CWA-9100	CWA-9103
7"	7 lbs	CWA-9200	CWA-9203
14"	14 lbs	CWA-9300	CWA-9303



## INTERNAL HALYARD DOORS

Flagpoles Components, Inc. can supply a broad range of Internal Halyard Door Assemblies constructed of cast or fabricated aluminum for aluminum flagpoles and fabricated steel for steel flagpoles. Internal Halyard Door Assemblies are complete with a cylinder lock installed. Due to the variation in door shapes used in the industry, please consult Flagpole Components, Inc. Customer Service Department regarding your specific needs.

## MISCELLANEOUS COMPONENTS

BAL-1000	1" WHITE NYLON RETAINER RING BALL
BAL-1003	1" BRONZETONE NYLON RETAINER RING BALL
CRP-0500	ALUMINUM CRIMP FOR $\frac{5}{16}$ " ROPE
CRP-0100	COPPER CRIMP FOR $\frac{1}{8}$ " CABLE
CRP-0200	COPPER STOP FOR $\frac{1}{8}$ " CABLE
CRP-0250	COPPER CRIMP FOR $\frac{5}{32}$ " CABLE
CRP-0800	COPPER STOP FOR $\frac{5}{32}$ " CABLE
HAL-0500	STAINLESS STEEL AIRCRAFT CABLE - $\frac{1}{8}$ " 7x19 CONSTRUCTION
HAL-0520	STAINLESS STEEL AIRCRAFT CABLE - $\frac{5}{32}$ " 7x19 CONSTRUCTION
LNK-0300	CONNECTING LINK - $\frac{5}{16}$ " STAINLESS STEEL, THREADED BARREL LOCK
LOK-0200	INTERNAL HALYARD DOOR CYLINDER LOCK ASSEMBLY
SPR-0100	FLAG ARRANGEMENT SHOCK SPRING WITH SAFETY CABLE
SWL-0100	HEAVY DUTY STAINLESS STEEL SWIVEL
YOK-0150	$\frac{1}{8}$ " STAINLESS STEEL YOKE
YOK-0200	$\frac{1}{4}$ " - $\frac{5}{16}$ " STAINLESS STEEL YOKE



## CLEATS

### (A) CAM ACTION CLEAT

Often used in rope based internal halyard flagpoles.  
Suitable for rope up to  $\frac{5}{16}$ " diameter.

### (B) CAST ALUMINUM 4 $\frac{1}{2}$ " CLEAT

Uses two 10-32NF self-tapping flathead fasteners.

### (C) CAST ALUMINUM 6" CLEAT

Uses two  $\frac{1}{4}$ "-20NC stainless steel allen head fasteners for flush fit.

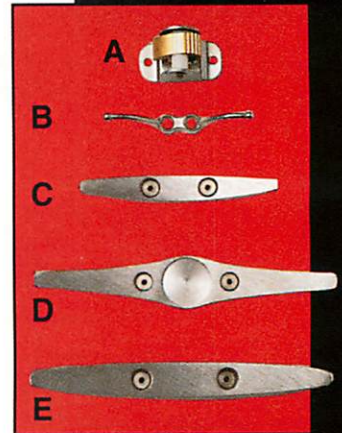
### (D) CAST ALUMINUM 9" LOGO CLEAT

Unit incorporates a 1  $\frac{3}{8}$ " diameter recess for decal application of dealer's nameplate or logo. Two  $\frac{1}{4}$ "-20NC stainless steel flat head allen fasteners for flush fit are included.

### (E) CAST ALUMINUM 9" CLEAT

Unit uses two  $\frac{1}{4}$ "-20NC stainless steel flat head allen fasteners for flush fit.

DISTANCE BETWEEN BOLT CENTERS	SATIN	BRONZETONE
2"	CLA-0600	N/A
$\frac{3}{4}$ "	CLA-9010	N/A
1 $\frac{3}{4}$ "	CLA-9060	CLA-9063
2 $\frac{1}{2}$ "	CLA-9095	CLA-9395
2 $\frac{1}{2}$ "	CLA-9090	CLA-9093

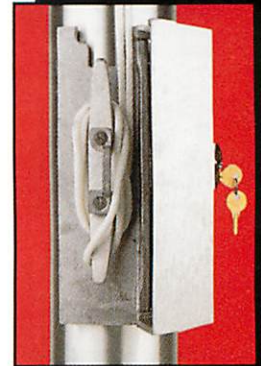


CUSTOM CLEATS ARE ALSO AVAILABLE PER YOUR DESIGN

## CLEAT COVERS

Cast aluminum stainless steel hinge pins and six tumbler lock. Unit is attached by special cleat screws (included) through the cleat (CLA-9090 or CLA-9093), also included.

SHAFT DIA.	SATIN	BRONZETONE
under 5"	CCA-9040	CCA-9043
5" and larger	CCA-9030	CCA-9033



## HALYARD CHANNEL

For added protection, the halyard channel locates the lowest exposed section of halyard to 5' above the Cleat Cover. Upper bracket attaches with two flush fitting stainless steel allen head fasteners (included).  
Unit is locked in position by the Cleat Cover.

CLEAT COVER WITH HALYARD CHANNEL		
	SATIN	BRONZETONE
3" to 4 $\frac{1}{2}$ " shaft	CHA-9200	CHA-9203
5" to 8" shaft	CHA-9000	CHA-9003
10" to 12" shaft	CHA-9100	CHA-9103
HALYARD CHANNEL & UPPER BRACKET ONLY		
	SATIN	BRONZETONE
3" to 4 $\frac{1}{2}$ " shaft	HBA-9070	HBA-9073
5" to 8" shaft	HBA-9050	HBA-9053
10" to 12" shaft	HBA-9060	HBA-9063





## HALYARDS

A complete line of halyards designed to meet the rigorous requirements of flagpole use. All halyards are of solid braid construction with a smooth surface providing a firm, round, lock-stitched cross section that holds its shape under load.

### POLYPROPYLENE HALYARD

This is a light weight, solid braid multifilament halyard with good resistance to abrasion and rot.

SIZE	WHITE	BRONZETONE	SUGGESTED WORKLOAD	TENSILE STRENGTH
1/4"	HAL-0100	HAL-0530	99-135 lbs	900 lbs
5/16"	HAL-0300	HAL-0540	166-225 lbs	1500 lbs
3/8"	HAL-0400	HAL-0573	198-270 lbs	1800 lbs

### NYLON HALYARD

Because of its elasticity, nylon can absorb shock that could damage other ropes, while also providing good resistance to abrasion and rot.

SIZE	WHITE	SUGGESTED WORKLOAD	TENSILE STRENGTH
5/32"	HAL-0200	66-99 lbs	600 lbs
1/4"	HAL-0700	165-225 lbs	1490 lbs
5/16"	HAL-0320	230-300 lbs	2100 lbs
3/8"	HAL-0420	285-390 lbs	2600 lbs

### WIRE CORE NYLON HALYARD

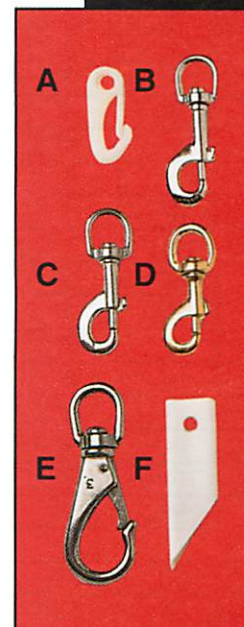
While maintaining the strength and flexibility of nylon, wire core nylon incorporates multistranded 3/32" galvanized aircraft cable inside the halyard, decreasing the chances of halyard failure caused by abrasion or cutting.

SIZE	WHITE	SUGGESTED WORKLOAD	TENSILE STRENGTH
5/16"	HAL-0350	230-300 lbs	2100 lbs
3/8"	HAL-0450	285-390 lbs	2600 lbs



## SNAPS

A	SNP-0400	CAST NYLON 2 3/8"
B	SNP-0200	NICKEL PLATED CAST ZINC WITH SWIVEL 3 1/2"
C	SNP-0700	STAINLESS STEEL WITH SWIVEL 3 1/2"
D	SNP-1000	SOLID BRONZE WITH SWIVEL 3 1/2"
E	SNP-0350	LARGE STAINLESS STEEL WITH SWIVEL 4 3/4"
F	SNP-0500	NEOPRENE SNAP COVER



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# COLLARS

	SHAFT BASE DIA.	COLLAR O.D.	HEIGHT	CAST SATIN	CAST BRONZETONE	SPUN SATIN	SPUN BRONZETONE
<b>A</b>	2"	7 1/2"	2 1/8"	N/A	N/A	COL-0050	COL-0053
	2"	12"	2 1/2"	N/A	N/A	COL-0100	COL-0103
	2 1/2"	7 1/2"	2 1/8"	N/A	N/A	COL-0150	COL-0153
	3"	12"	2 1/2"	COL-0220	COL-0223	COL-0200	COL-0203
	3 1/2"	12"	2 1/2"	COL-0270	COL-0273	COL-0250	COL-0253
	4"	12"	2 1/2"	COL-0320	COL-0323	COL-0300	COL-0303
	5"	14"	2 1/2"	COL-0420	COL-0424	COL-0400	COL-0403
	5 1/2"	14"	2 1/2"	COL-0620	COL-0623	COL-0600	COL-0603
	6"	14"	2 1/2"	COL-0820	COL-0823	COL-0800	COL-0803
	7"	14"	2 1/2"	COL-1120	COL-1123	COL-1100	COL-1103
	8"	18"	3 1/2"	COL-1320	COL-1323	COL-1300	COL-1303
	10"	18"	3 1/2"	COL-1620	COL-1623	COL-1600	COL-1603
	12"	18"	3 1/2"	COL-1820	COL-1823	COL-1800	COL-1803

<b>B</b>	3"	9 1/4"	5 1/2"	N/A	N/A	COL-0240	COL-0243
	4"	10 1/2"	5 1/2"	N/A	N/A	COL-0340	COL-0343
	5"	11 3/4"	5 5/8"	N/A	N/A	COL-0440	COL-0443
	6"	14 1/4"	5 5/8"	N/A	N/A	COL-0840	COL-0843
	7"	14 1/4"	5 5/8"	N/A	N/A	COL-1140	COL-1143
	8"	15 1/2"	5 5/8"	N/A	N/A	COL-1340	COL-1343
	10"	20"	8"	N/A	N/A	COL-1640	COL-1643

<b>C</b>	5"	20"	4"	COL-0450	COL-0453
	5 1/2"	20"	4"	COL-0625	COL-0628
	6"	20"	4"	COL-0850	COL-0853
	7"	20"	4"	COL-1150	COL-1153
	8"	20"	4"	COL-1350	COL-1352
	8"	24"	4"	COL-1351	COL-1359
	10"	24"	4"	COL-1650	COL-1653
<b>D</b>	12"	24"	4"	COL-1825	COL-1828
	5"	14"	4"	COL-0459	COL-0462
	5 1/2"	14"	4"	COL-0460	COL-0463
	6"	14"	4"	COL-0860	COL-0863
	7"	14"	4"	COL-1200	COL-1203
	8"	14"	4"	COL-1360	COL-1363
	8"	18"	4"	COL-1365	COL-1368
<b>E</b>	10"	18"	4"	COL-1655	COL-1658
	12"	18"	4"	COL-1865	COL-1868
	5"	14"	3"	COL-0455	COL-0458
	5 1/2"	14"	3"	COL-0630	COL-0633
<b>F</b>	6"	14"	3"	COL-0855	COL-0858
	7"	14"	3"	COL-1155	COL-1158
	8"	18"	3"	COL-1353	COL-1356
	8"	14"	3"	COL-1355	COL-1358
	10"	16"	3"	COL-1651	COL-1654
	12"	16"	3"	COL-1850	COL-1853
	5"	22"	3 1/2"	COL-0470	COL-0473
<b>F</b>	5 1/2"	22"	3 1/2"	COL-0650	COL-0653
	6"	22"	3 1/2"	COL-0880	COL-0883
	7"	22"	3 1/2"	COL-1210	COL-1213
	8"	22"	3 1/2"	COL-1370	COL-1373
	10"	22"	3 1/2"	COL-1670	COL-0673

The aluminum ornamental base or flash collar is available in .060" spun aluminum or a heavy duty casting of approximately 1/4" thickness. For ground installations, the outside diameter of the collar should be at least 1" larger than the diameter of the foundation sleeve. The I.D. of the collar will be approximately 1/8" larger than the shaft diameter listed. As part of the installation procedure, this space should be sealed to prevent water from entering the ground sleeve. Contact **FCI** for two-piece, split cast collars in these designs. A split collar design can be useful when adding or replacing a collar on an installed flagpole without using a crane.





# INSTALLATION COMPONENTS

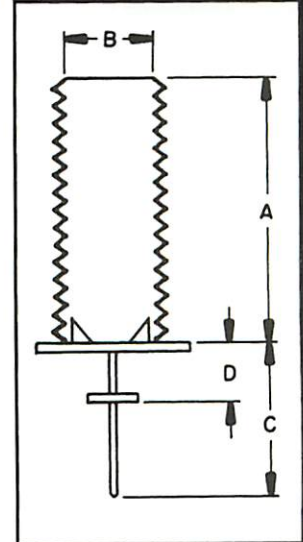
FCI provides a complete line of Foundation Sleeves and Anchor Bolts for flagpole installation. Flagpole Components, Inc. does not attempt to provide recommendations for the concrete base dimensions. Since soil conditions vary, it is suggested that an engineer be consulted as to the recommended size of the base. Extreme caution should be exercised when installing a flagpole near overhead power lines or in the vicinity of buried cables or pipes. Contact your local utility companies prior to installation.

## FOUNDATION SLEEVE ASSEMBLY

The foundation sleeve assembly, the most common flagpole installation method, is fabricated from 16GA. galvanized steel welded to a base plate with a square dimension at least 4" greater than the outside diameter of the sleeve. A 3/4" diameter grounding spike is welded to the base plate.

Centering wedges are welded inside the assembly to aid in flagpole alignment. A setting plate is welded to the grounding spike to provide the installer with a method of resting the assembly on the bottom of the excavated hole and allowing the concrete to completely encase the unit. Generally accepted industry practice calls for 1' of the flagpole to be encased in the ground sleeve assembly for each 10' of exposed flagpole height and, for ease in vertical alignment of the shaft, the inside diameter of the sleeve should be at least 2" greater than the flagpole diameter with the area between the flagpole and the sleeve filled with dry sand. If your requirements are not listed, consult the factory regarding custom sizes or applications.

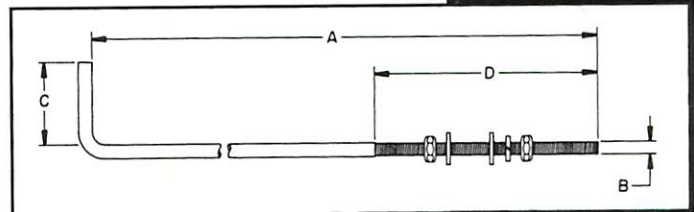
	A	B	C	D
GCA-3008	3'0"	8"	18"	6"
GCA-3010	3'0"	10"	18"	6"
GCA-3508	3'6"	8"	18"	6"
GCA-3510	3'6"	10"	18"	6"
GCA-4010	4'0"	10"	18"	6"
GCA-4012	4'0"	12"	18"	6"
GCA-4512	4'6"	12"	24"	6"
GCA-5012	5'0"	12"	24"	6"
GCA-5014	5'0"	14"	24"	6"
GCA-6014	6'0"	14"	24"	10"
GCA-7014	7'0"	14"	24"	12"
GCA-8014	8'0"	14"	24"	12"



## ANCHOR BOLTS

For use in shoebase or tiltbase installations. Anchor bolts are constructed from A35M55 high strength, carbon steel ASTM A675 GRADE 90 with a minimum yield of 55,000 PSI. They are hot dip galvanized over the full length to meet the requirements of ASTM 153 and include 2 nuts, 2 flat washers and a lock washer, also galvanized.

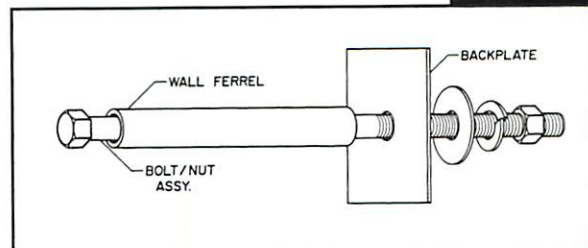
	A	B	C	D
ABL-0100	25"	3/4"	4"	5"
ABL-0200	36"	1"	4"	6"
ABL-0300	40"	1"	4"	6"
ABL-0400	48"	1 1/4"	6"	8"



## WALL MOUNTING HARDWARE

For use with outrigger or vertical wallmount brackets, attachment bolts are constructed from ASTM-A307 GRADE 2 zinc coated low carbon steel with a proof load of 33,000 PSI, a yield strength of 36,000 PSI and a tensile strength of 60,000 PSI. Thread length is 2". A wall ferrule, 2" shorter than the bolt shank length, and a 1/4"x4"x4" aluminum backplate is included as are a zinc plated flat washer, lock washer and hex head nut.

	BOLT DIAMETER	SHANK LENGTH
BLT-0100	3/4"-10NC	8"
BLT-0200	3/4"-10NC	10"
BLT-0300	3/4"-10NC	12"
BLT-0400	3/4"-10NC	14"
BLT-0600	3/4"-10NC	16"
BLT-0700	3/4"-10NC	18"



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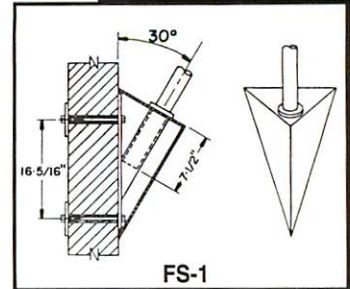


# OUTRIGGER BRACKETS

NOTE: WHEN OUTRIGGER FLAGPOLES ARE USED, ADDITIONAL BRACING OF THE FLAGPOLE SHAFT MAY BE REQUIRED. THIS WOULD BE DEPENDENT UPON SUCH ITEMS AS, BUT NOT LIMITED TO, SHAFT LENGTH, SHAFT WALL THICKNESS, FLAG SIZE AND LOCATION. DUE TO VARIATIONS IN MOUNTING APPLICATIONS, WALL MOUNTING HARDWARE IS NOT INCLUDED AS PART OF THE PACKAGE.

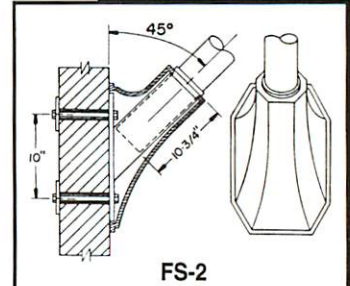
## STYLE FS-1

Fabricated two piece assembly with the wall mount base plate constructed from 1/2" thick 6063-T6 aluminum plate and the polished triangular cover plate fabricated from 1/8" aluminum plate. The cover plate is anchored to the shaft by stainless steel set screws.



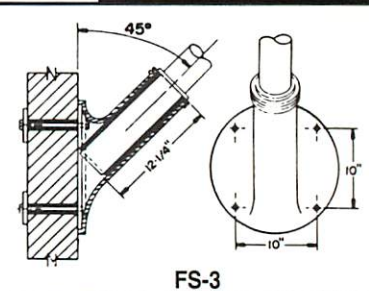
## STYLE FS-2

Heavy aluminum casting conceals the mounting plate fabricated from 1/2" 6063-T6 aluminum. The shaft and cover casting are secured to the mounting plate by stainless steel set screws.



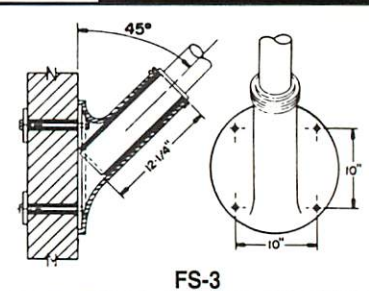
## STYLE FS-3

Heavy aluminum casting with exposed location for mounting bolts. Flagpole shaft is secured by stainless steel set screws.



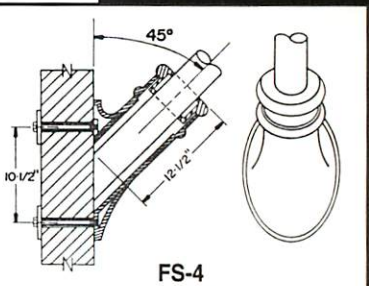
## STYLE FS-4

Polished heavy aluminum casting with threaded holes in rear allows for attachment of mounting bolts from the reverse side of the wall. Flagpole shaft is secured by stainless steel set screws.



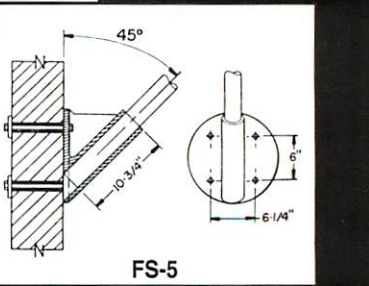
## STYLE FS-5

Heavy one piece aluminum casting with a sand blast finish has exposed location for mounting bolts. Flagpole shaft is secured by stainless steel set screws.

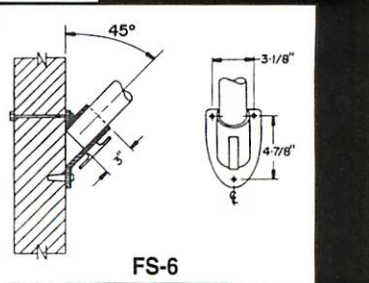


## STYLE FS-6

Small one piece aluminum casting with a sand blast finish has an integrally cast cleat. Ideal as bracket for lightweight 2" diameter flagpole shafts. Available on 45° or 30° angle from vertical. Shaft is secured with stainless steel set screw.



	SHAFT DIAMETER	MAXIMUM SHAFT LENGTH	POLISHED (a) MATTE (b)	BRONZETONE
STYLE FS-1	3 1/2"	8'	(a) BKT-9335	BKT-9338
	4"	15'	(a) BKT-9340	BKT-9343
	4 1/2"	20'	(a) BKT-9345	BKT-9348
STYLE FS-2	3 1/2"	8'	(a) BKT-9235	BKT-9238
	4"	15'	(a) BKT-9240	BKT-9243
	4 1/2"	20'	(a) BKT-9245	BKT-9248
STYLE FS-3	3 1/2"	8'	(a) BKT-9435	BKT-9438
	4"	15'	(a) BKT-9440	BKT-9443
	4 1/2"	20'	(a) BKT-9445	BKT-9448
STYLE FS-4	3 1/2"	8'	(a) BKT-9535	BKT-9538
	4"	15'	(a) BKT-9540	BKT-9543
	4 1/2"	20'	(a) BKT-9545	BKT-9548
STYLE FS-5	2"	10'	(b) BKT-0900	BKT-0903
	3"	15'	(b) BKT-0910	BKT-0913
STYLE FS-6	2"	6' at 30°	(b) BKT-0470	BKT-0473
	2"	6' at 45°	(b) BKT-0460	BKT-0463



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# VERTICAL BRACKETS

NOTE: DUE TO VARIATIONS IN MOUNTING APPLICATIONS, WALL MOUNT HARDWARE IS NOT INCLUDED. CONTACT FACTORY FOR CUSTOM FABRICATION AND DESIGN VARIATIONS.

## STYLE FV-1, FV-2, FV-3

Upper and lower brackets are of cast aluminum construction with the flagpole shaft resting on the closed bottom of the lower bracket and secured at the upper bracket with a stainless steel set screw. The distance between brackets is dependent on variables including shaft length, flag size and specific area conditions. Additional pass-through style upper brackets may also be used to produce an even more dramatic bracket arrangement on longer poles.

## STYLE FV-4

Cast aluminum one piece unit ideal for multiple unit application of small flagpoles. Shaft is secured by a stainless steel set screw.

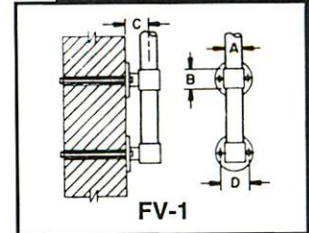
## STYLE FV-5

Single piece bracket fabricated from 1/2" thick 6063-T6 aluminum plate. Shaft is secured by a stainless steel set screw after resting in enclosed lower end of bracket.

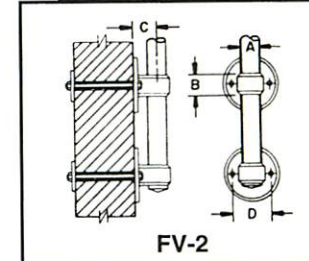
## STYLE FV-6

Cast aluminum construction with flagpole shaft resting on closed bottom of lower bracket and secured at the upper bracket with a stainless steel set screw.

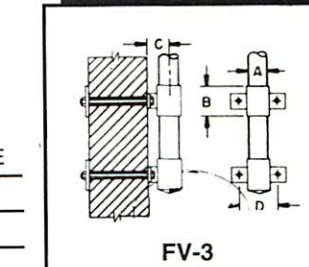
	MAX. SHAFT LENGTH	A	B	C	D	E	F	(a) MATTE (b) POLISHED	BRONZETONE
FV-1	10'	2"	2 5/8"	3 1/2"	3 3/4"			(a) BKT-0150	BKT-0153
	27'	3"	4"	4"	6 1/4"			(a) BKT-0230	BKT-0233
FV-2	15'	4"	4 1/2"	6 1/2"	10"			(a) BKT-9600	BKT-9603
	20'	4 1/2"	4 1/2"	6 1/2"	10"			(a) BKT-9610	BKT-9613
	23'	5"	4 1/2"	6 1/2"	10"			(a) BKT-9620	BKT-9623
	28'	5 1/2"	4 1/2"	6 1/2"	10"			(a) BKT-9630	BKT-9633
FV-3	15'	4"	6"	4"	8 1/2"			(a) BKT-0500	BKT-0503
	20'	4 1/2"	6"	4 1/2"	8 1/2"			(a) BKT-0510	BKT-0513
	23'	5"	6"	4 1/2"	8 1/2"			(a) BKT-0520	BKT-0523
	28'	5 1/2"	6"	5 1/4"	8 1/2"			(a) BKT-0530	BKT-0533
FV-4	12'	3"		4"	6 1/4"	8 3/4"	12"	(a) BKT-0400	BKT-0403
FV-5	15'	4"		6"	8 1/2"	15"	24"	(b) BKT-9800	BKT-9803
	20'	4 1/2"		6"	8 1/2"	23"	32"	(b) BKT-9810	BKT-9813
	23'	5"		6"	8 1/2"	28"	37"	(b) BKT-9820	BKT-9823
	28'	5 1/2"		6"	8 1/2"	34"	43"	(b) BKT-9830	BKT-9833
FV-6	15'	4"	4 1/2"	6 1/2"	10"	24"	36"	(b) BKT-9700	BKT-9703
	20'	4 1/2"	4 1/2"	6 1/2"	10"	24"	36"	(b) BKT-9710	BKT-9713
	23'	5"	4 1/2"	6 1/2"	10"	30"	42"	(b) BKT-9720	BKT-9723
	28'	5 1/2"	4 1/2"	6 1/2"	10"	36"	48"	(b) BKT-9730	BKT-9733



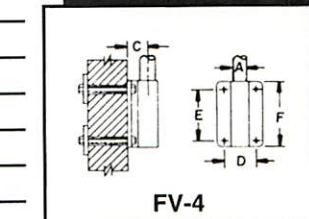
FV-1



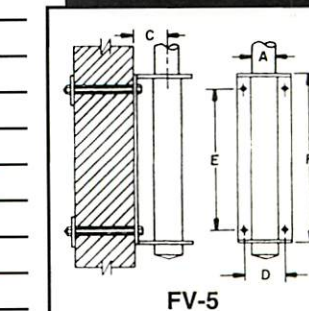
FV-2



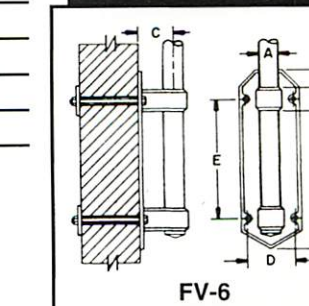
FV-3



FV-4



FV-5



FV-6





## ONE YEAR LIMITED WARRANTY

**FLAGPOLE COMPONENTS, INC.** warrants to the first purchaser of its products (Buyer) that its products will be free from defects in material and workmanship under normal use and service for a period of one year from the date of shipment by FLAGPOLE COMPONENTS, INC.

If any failure to conform to this warranty appears and written notice of such failure is given to FLAGPOLE COMPONENTS, INC. within the warranty period, FLAGPOLE COMPONENTS, INC. shall, at its sole discretion, repair or replace the defective product. Specifically excluded from this warranty is the cost of labor required for the Buyer to have the defective product replaced or reinstalled. Repair or replacement of the product by FLAGPOLE COMPONENTS, INC. is the Buyer's sole remedy in the event of a failure of the products to conform to this warranty. This warranty does not cover defects caused by improper installation, overloading, accident, misuse or neglect nor does it cover alteration or modification unless the change has been previously approved, in writing, by FLAGPOLE COMPONENTS, INC. WITH RESPECT TO APPLIED FINISHES, HALYARD OR FLAGS, FLAGPOLE COMPONENTS, INC. MAKES NO WARRANTY AND HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All warranty claims must be directed to

**FLAGPOLE COMPONENTS, INC. CUSTOMER SERVICE DEPARTMENT,  
P.O. BOX 277 ADDISON TEXAS 75001.**

No product shall be returned without the prior approval by FLAGPOLE COMPONENTS, INC. and upon such approval must be shipped postage prepaid by the Buyer.

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P. O Box 277      Addison, Texas 75001      214-250-0893

**CUSTOMER SERVICE TOLL FREE      800-634-4926**