

# HINGES

A left-handed opening hinge is taken to be when the door opens towards you with the door handle on the left.

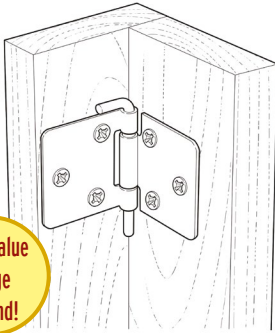


A right-handed opening hinge is taken to be when the door opens towards you with the door handle on the right.

NB: Hinges are sold in pairs – a pair being two complete units, enough to hang a door. Confusion arises as we sell hinges as loose-part hinges resulting in a pair consisting of four separate pieces! Lift-off hinges are handed and the illustration above will help you choose the correct hand. The diagram assumes the hinges are fixed into edge of door and the side of the reveal – not flat across the face.



Best value hinge around!



### Flints Exhibition Pin Hinge

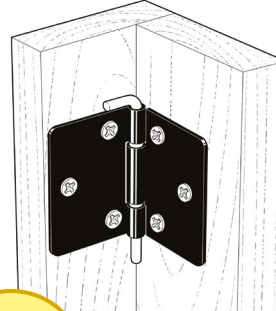
A hinge for general scenery use with the following features:

- ✓ Good knuckle clearance for easy and quick location
- ✓ 45 mm knuckle length designed to fit along 2 x 1" nominal timber
- ✓ When used to join 3 x 1" nominal timber at right angles it will fit the timber without overhanging the inside of the frame

- ✓ The corners are rounded so that they cannot become a hazard
- ✓ The pin is very robust to withstand being clouted with a hammer
- ✓ The pin has good dimensional clearance within the knuckle for easy location
- ✓ The end of the pin has a good tapered lead but no sharp point
- ✓ The screw holes are slightly offset to avoid the possibility of splitting the timber
- ✓ They are neatly packed in boxes of ten pairs and are supplied complete with 20 pins
- ✓ They open through full 270° so they can be used reversed on gate leg rostra
- ✓ They are economically priced for the bulk user – remember the price includes the pins! Steel, self-coloured.



Perfect choice for heavy touring shows



### Flints Opera Pin Hinge

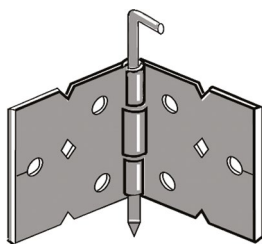
A "Rolls Royce" hinge for heavy touring shows. Packed with all the features of the Exhibition Pin Hinge plus:

- ✓ Black powder coated finish to protect against corrosion during storage and to reduce possibility of being seen during the performance

- ✓ Heavy-gauge steel to reduce possibility of bending when the scenery is being loaded on and off trucks
- ✓ 68 mm dimension along knuckle fits 3 x 1" nominal timber perfectly
- ✓ The extra length helps guard against the hinge twisting out of alignment if it is accidentally knocked
- ✓ 45 mm leaf width still fits on 3 x 1" when another flat is adjoining at right angles
- ✓ Tough 5 mm diameter pin
- ✓ Design enables to hinge to open through full 270°  
Steel, black powder coated.

Flints Exhibition Pin Hinge	code	price
10 pairs and 20 pins	FHS125	£8.25
Spare pins bag of 100	FHS125P	£9.95

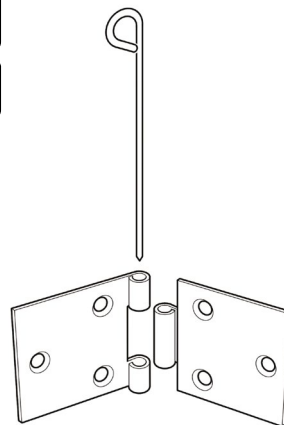
Flints Opera Pin Hinge	code	price
10 pairs and 20 pins	FHS127	£14.95
Spare bag of 100 pins	FHS127P	£12.00



### Triple E Pin Hinge

Winner of the ABTT Product of the Year. Well, 1984 was a while back now but the Triple E Hinge remains as popular as ever. It was specially designed for the theatre market and resolves many familiar problems for the theatre carpenter. It has a sturdy

pin that forms a better fit and can be 'knocked' in or out. Offset fixing holes help to prevent timber splitting, and a centrally located square hole, to take the head of a 6 mm coach bolt, allows immense strength for fixing. Notched sides allow for fixing near awkward timber joins. Each hinge comes complete with a pin. Pins are also sold separately, but only in 3/2" size. Steel, self-coloured.



### Pin Hinges [Loose-part backflap]

The old favourite! Used extensively throughout the theatre and related industries for holding together scenery and strengthening battens. When used with Loop or Clip Pins, it is an immensely fast way to fit together a set. Our loose-part hinges are specially made with clearance between the knuckles. Fixings [not supplied]: 1 1/2", 1 3/4" and 2" hinges take No.8 [4 - 4.5 mm] fixing screws. Steel, self-coloured.

NB: Pins are not supplied, see page 235 for Pins.

Triple E Hinge and Pin	code	pair	50+	100+
knuckle: 2" leaf: 2 1/8"	HNG030	£2.60	£2.20	£1.98

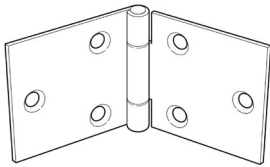
Pin Hinges	code	box of 10 pairs	8 boxes+
knuckle: 1 1/2" leaf: 1 3/4"	HNG020	£6.80	£5.90
1 3/4" 2"	HNG021	£8.40	£7.50
2" 2 1/8"	HNG022	£8.40	£7.50

The above prices are for full boxes of hinges.

**TRADELINE** 500+ Triple E hinge & pin = £1.85 per pair

Triple E Pin	code	price	100+
3/2"	HNG040	£0.53	£0.39

## BACKFLAP HINGES



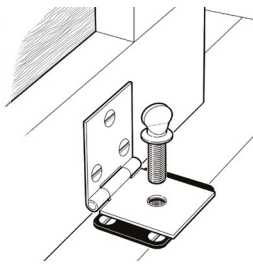
**Backflap Hinges** Mainly used in theatres for fixing together two pieces of scenery which will remain together permanently, such as flats that are "booked", or to act as a fixing between two items that are

not at right angles. The two parts of the hinge will go from a closed position through 270° to its fully open position making them suitable for folding-gate rostra.

SPECIFICATION: Fixings [not supplied]: 1½", 1¾" and 2" hinges use No.8 [4 or 4.5 mm] screws; 3" use No.10 [5 mm] fixing screws. Steel, self-coloured.

Backflap Hinges	quantity	code	price	price
knuckle: 1½"	10 pairs	HNG011	£6.80 [per box]	£5.90 [8 boxes+]
1¾"	10 pairs	HNG012	£7.50 [per box]	£7.00 [8 boxes+]
2"	10 pairs	HNG013	£7.50 [per box]	£7.00 [8 boxes+]
3"	per pair	HNG014	£2.87 [per pair]	£2.58 [25 pairs+]

**F**

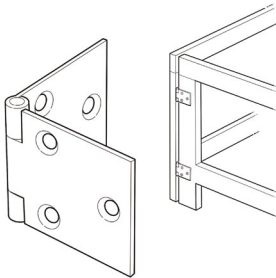


**Bolt Hinge** These are 2" backflaps with one flap drilled with a centred 11 mm hole. Designed to be used in conjunction with boss plates to secure scenery to the floor. Loose packed. Steel, self-coloured.

For Boss Plates see page 132

Bolt Hinge	code	pair	Tradeline
knuckle: 2" leaf: 2¼"	HNG057	£2.04	£1.82 [80 pairs+]

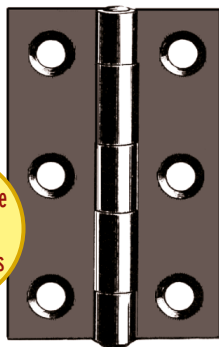
**F**



**Rostrum Hinge** A 2" backflap which has one flap countersunk on the opposite side to the other. These are for hinging end gates on folding-gate rostra where the hinges have to be mounted in reverse to the usual manner. A very subtle touch! It is so nice that some people are still making these lovely constructions. Steel, self-coloured.

Rostrum Hinge	code	pair	Tradeline
knuckle: 2" leaf: 2¼"	HNG053	£1.09	£0.96 [100 pairs+]

## BUTT HINGES

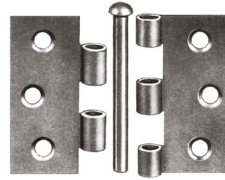


**Butt Hinges** Used for hinging internal, external and cupboard doors when the hinge is required to be mounted on the edge of the timber. The gauge of the steel increases with the size of the hinge. Don't forget we price and sell hinges in pairs – enough to hang a door.

SPECIFICATION: Fixings [not supplied]: 2" hinges use 4 x No.6 [3.5 mm] screws; 2½" use 6 x No.6 [3.5 mm] screws; 3" use 6 x No.8 [4 mm] screws; 4" use 8 x No.8 [4 mm] screws. Steel, self-coloured.

Butt Hinges	code	pair	100 pairs+
knuckle: 2" leaf: 3¼"	HNG060	£0.44	£0.36
2½"	HNG062	£0.54	£0.44
3"	HNG063	£0.59	£0.49
4"	HNG064	£0.95	£0.76

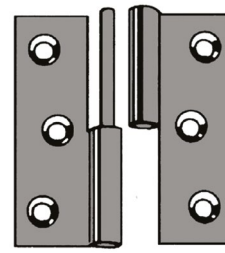
Don't forget we price and sell hinges in pairs



**Loose Butt Hinges** Used anywhere that the hinge in the edge of a piece of timber, such as a door or a rostra, is required to come apart to travel or store. Hinges are supplied with the type of pin shown but for easier use

choose a Standard Loop Pin [page 235] which fits sizes 2½" and 3". SPECIFICATION: Fixings [not supplied]: 2" hinges use 4 x No.6 [3.5 mm] screws; 2½" use 6 x No.6 [3.5 mm] screws; 3" use 6 x No.8 [4 mm] screws; 4" use 8 x No.8 [4 mm] screws. Steel, self-coloured.

Loose Butt Hinges	code	pair
knuckle: 2" leaf: 1"	HNG070	£0.37
2½"	HNG071	£0.44
3"	HNG072	£0.79
4"	HNG073	£1.00

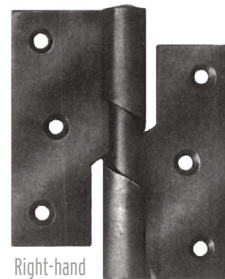


**Lift Off Butt Hinges** Allows your doors to be removed from the door frame for use either when travelling or for changing doors in a scene change. Please ensure correct handing when ordering. The top of page 232 has all the information. A useful tip is to saw 10 mm off the pin on the lower hinge of a

door. You can then locate the top hinge pin first, then concentrate on the lower hinge. It is much easier. Steel, self-coloured.

Lift Off Butt Hinges [Right-Hand]	code	pair
knuckle: 3" leaf: 1"	HNG101	£2.57
4"	HNG102	£4.67

Lift Off Butt Hinges [Left-Hand]	code	1 pair
3"	HNG106	£2.57
4"	HNG107	£4.67

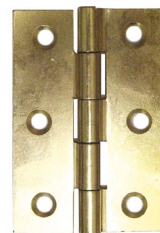


**Rising Butt Hinges** Designed to raise a door as it opens, the rising butt ensures that your doors do not catch on the carpet or on uneven flooring. Please ensure correct handing when ordering. The top of page 232 has all the information. These hinges tend to self-close the door as the weight of the door bears down on the bevel. They won't

necessarily close the door the whole way but most people notice the door is moving and shut it behind them rather than leaving it open.

Rising Butt Hinges [Left-Hand]	code	pair
knuckle: 3" [opens to 3½"] leaf: 1½"	HNG080	£2.44
4" [opens to 4½"] 2"	HNG082	£3.73

Rising Butt Hinges [Right-Hand]	code	pair
3" [opens to 3½"] 1½"	HNG081	£2.44
4" [opens to 4½"] 2"	HNG083	£3.73

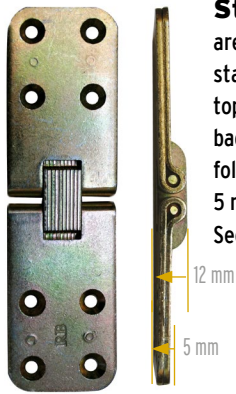


**Butt Hinges Electro-Brassed** Used for decorative purposes, mainly on furniture, where the hinge is required in the edge of a piece of timber, such as a door.

SPECIFICATION: Fixings [not supplied]: 1½" and 2" hinges uses 6 x No.4 [3mm] screws; 2½" uses 6 x No.6 [3.5mm] screws. Electro-brassed.

Butt Hinges Electro-Brassed	code	pair
knuckle: 1½" leaf: 3¼"	HNG090	£0.79
2" 7/8"	HNG091	£0.89
2½" 1"	HNG092	£1.10

**FLUSH TRAP HINGES**



**Steel Flush Trap Hinge** These are super tough hinges ideal for heavy-duty stage traps. They present a totally flush top surface and allow the flap to open fully back on itself. Constructed from plated steel folded right around the 5 mm Ø pins leaving 5 mm thick leaves. Plated steel, self-coloured. See Flush Trap Handles [page 229].

Steel Flush Flap Hinge	code	pair
knuckle: 45 mm open width: 150 mm	HNG400	£18.95



**Bar Back Flap** These solid brass hinges will be a familiar sight to many theatre staff but they can be useful on stage as well. The double joint allows a totally flush top surface unlike most hinges which have to be positioned with the knuckle proud. Ideal for small stage traps. Brass.

Bar Back Flap	code	pair
knuckle: 1 1/2" open width: 4"	HNG301	£8.50

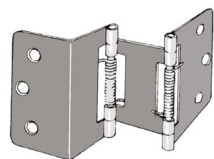
**SPRING HINGES**



**Single Action To Open** Mild steel spring hinge designed to hold lightweight scenery doors in open position. Fixings [not supplied]: 6 off No.8 csk screws.



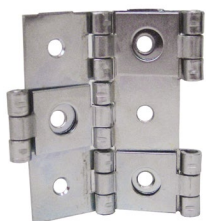
**Single Action To Close** Designed to hold lightweight scenery doors in the closed position. Fixings [not supplied]: 6 off No.8 [4 mm] csk screws.



**Double Action Spring Hinge** Holds lightweight scenery doors in the closed position but allows them to swing in either direction. Fixings [not supplied]: 6 off No.8 [4 mm] csk screws.

Spring Hinges	code	pair
To open [when screwed across back of door]	HNG130	£20.72
To close [when screwed across back of door]	HNG131	£20.72
Double action spring hinge	HNG132	£31.13

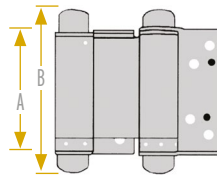
**SCREEN HINGE**



**Screen Hinge** A double-action hinge normally used for folding screens. Suits material no thicker than 19 mm. Bright zinc-plated.

Screen Hinge	code	pair
knuckle: 60 mm leaf: 29 mm	HNG6000C	£8.95

**BOMBER, WELD & BULLET HINGES**



**Bomber Hinges** Double-action spring hinge that allows heavy doors to be opened in either direction, and return to a centre closed position when released. Steel hinges, silver powder coated.

Bomber Hinges	code	pair
A: 3" B: 3 3/4" closed: 2 3/4" open: 4 1/2"	HNG150	£16.22
4" 4 3/4" 3" 5 1/4"	HNG151	£21.62
6" 6 3/4" 4" 7"	HNG153	£39.95



**Weld Hinges** These hinges made from 3 mm steel plate can be welded to scenery to form lift-off or captive hinges. Sold per flap. Steel, self-coloured.

Weld Hinges	suits pins	code	price	100+
knuckle: 38 mm leaf: 51 mm	8 mm Ø	HNG041	£1.20	£1.01



**Bullet Hinges** Weldable hinges. Sold in pairs [enough to hang a door] consisting of two male and two female weldable parts and washer. Steel with brass disc.

Bullet Hinges	code	pair
60 mm	HNGBH2	£6.20
100 mm	HNGBH4	£11.66

**CONTINUOUS HINGES**



**Continuous Hinges** These 72" long self-coloured mild steel hinges with a steel pin are used for hinging metal or timber scenery where support along the full hinging face is required. Available undrilled or drilled and countersunk. For extra heavyweight jobs there is a 10 gauge hinge with 2" leaves [4" open] which is ideal for welding. Mild steel, self-colour.

Undrilled	code	price
gauge knuckle leaf width pin Ø [mm]		
Heavy-duty 16 72" 1" 2" 4.5	HNG116	£12.80
Ultra heavy-duty 10 72" 2" 4" 8	HNG113	£36.27
Drilled & Countersunk	code	price
Heavy-duty 16 72" 1" 2" 3.5	HNG112	£17.14



**Piano Hinges** 72" long, each leaf is 1/2" wide by 22 gauge. Can be used on furniture, props or lightweight scenery. Drilled and countersunk for small screws. Tip: For rapid but strong fitting use 20 mm Annular Ring Shank nails [page 244].

Piano Hinges	gauge	knuckle	leaf	code	price
Electro-brassed 22 72" 1/2"				HNG110	£3.75
Nickel-plated 22 72" 1/2"				HNG110NP	£3.48

**T-HINGE**



**Steel T-Hinges** For surface fitting to thin wooden doors, giving extra support along the rails. Black japanned.

T-Hinges	T	code	pair
Light:	knuckle: 69 mm leaf: 20 mm	HNG200	£0.51
	150 mm 71 mm 25 mm	HNG201	£0.73
	200 mm 80 mm 29 mm	HNG206	£0.92
Medium:	250 mm 80 mm 29 mm	HNG207	£1.74
	350 mm 118 mm 35 mm	HNG208	£2.89
	450 mm	HNG205	£4.64

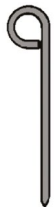
# PINS & SPRING BOLTS



**Loop Pin** No, not an attractive tall border plant but one of our best-selling products. Flints supplies tens of thousands of loop pins annually to the entertainments industry. They are a high-quality wire product with a good point, which are easy to insert from all the awkward angles theatre carpenters can create to work from!

Steel, self-coloured.

Loop Pin	Ø	code	price	100+	1000+
length: 100 mm	3.25 mm [10 swg]	FHS037	£0.16	£0.14	£0.12



**Heavy Pattern Loop Pin** These pins will fit the Triple E hinges as well as 2", 2 1/2" and 3" backflaps.

Steel, self-coloured.

Heavy Pattern Loop Pin	code	price	100+	1000+
length: 100 mm Ø: 4 mm [8 swg]	FHS037HP	£0.21	£0.18	£0.16



**Flints Opera Pin** These heavy-gauge pins will fit Flints Opera Pin Hinges. Supplied as bags of 100.

Black powder coated.

Flints Opera Pin	Ø	code	price	10 bags+
length: 88 mm	5 mm	FHS127P	£12.00	£10.00



**Flints Exhibition Pin** These medium-gauge pins will fit Flints Exhibition Pin Hinges. Supplied as bags of 100.

Steel, self-coloured.

Flints Exhibition Pin	code	price	10 bags+
length: 65 mm Ø: 4 mm	FHS125P	£9.95	£8.50



**Clip Pin** Does the same job as the loop pin, but is a sprung steel pin intended for those fixings where it is important that the loop pin does not fall out such as horizontal hinges on flown pieces.

Steel, self-coloured.

Clip Pin	Ø	code	price	100+	1000+
length: 85 mm	3 mm	FHS038	£0.19	£0.14	£0.12



**Drop Nose Sword Pin** A useful pin for securing items at speed. The spring holds the pin securely without rattling and the chain ensures the unit is not lost. The overall length is 114 mm but when the nose has dropped the useable length is between 30 - 50 mm. Steel, self-coloured.

Drop Nose Sword Pin	code	price	10+
length: 114 mm Ø: 9.5 mm	GEN145	£7.90	£6.98



**Linch Pins [Apple Keep]** Available in 6 mm and 9.5 mm. Other sizes available to order.

Bright zinc-plated.

Linch Pin	pin Ø	A	code	price
bolt Ø: 6 mm	36 mm	40 mm	GEN141	£0.67
9.5 mm	45 mm	53 mm	GEN142	£0.85



**Closed Retaining Pins** Will not rattle loose or drop out when inverted. See page 231 for an 150-piece assortment set of R Clips.

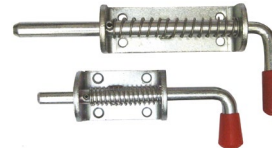
45 mm pin is soap-coated stainless steel, the rest are BZP.

Closed Retaining Pins	code	price
ØA length wire Ø rod size		
45 mm 2 mm 15 mm	GEN096SS	£0.48
67 mm 3 mm 10-16 mm	GEN097	£0.39
104 mm 5 mm 20-28 mm	GEN098	£0.50



**Split Pins [Stainless steel AISI 316]** Best quality marine-grade split pins. Page 231 for an assortment box of non-stainless split pins.

SS Split Pins	Ø	code	price	100+
length: 10 mm	1.5 mm	GEN70609	£0.16	£0.14
25 mm	2 mm	GEN70611	£0.27	£0.24
32 mm	3 mm	GEN70614	£0.62	£0.56



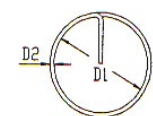
**Spring Bolts** A strong spring-loaded bolt which can be held in the retracted position by twisting the bolt through 90°. Fixings [not supplied]: 4 off M6 countersunk machine screws.

Spring Bolts	code	price
base plate size ØA bolt length x Ø stroke		
40 x 75 mm 165 x 12 mm 35 mm	DOR0840	£3.05
40 x 120 mm 220 x 12 mm 70 mm	DOR0841	£3.62



**Clevis Pins** 316-grade stainless steel pins typically used in marine rigging screws. Length is from under the shoulder to the hole centre.

Clevis Pins	Ø	hole Ø	code	price
18 mm	6 mm	1.3 mm	GEN61806	£1.34
21 mm	8 mm	1.3 mm	GEN62008	£1.88
23 mm	9.5 mm	1.6 mm	GEN62395	£2.51
34 mm	12 mm	3.9 mm	GEN63412	£5.97
34 mm	16 mm	3.1 mm	GEN63416	£9.12



**Stainless Steel Split Rings** 316-grade stainless steel rings which are easier to remove and insert than ordinary split pins. Typically used in marine clevis pins.

SS Split Ring	D2	D1	code	price	100+
	1.25 mm	15 mm	GEN70602	£0.16	£0.14
	1.5 mm	19 mm	GEN70603	£0.23	£0.21
	2 mm	23 mm	GEN70604	£0.27	£0.24

For Safety and Kilt Pins [page 120].  
For Roll Pin Assortment Box [page 231].