

## Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.
- AL Series functions as combination conduit outlet box and hanger.
- JB, GS and AHG cushion hangers are enclosed and gasketed—ideal where dust and dampness are present.
- JB and GS hangers designed for use with JB and GS boxes.
- SSH heavy duty swivel hangers for mounting to outlet and concrete boxes.
- SHC fixture hanger covers for mounting to 3-1/4" and 4" octagonal boxes and 4" square boxes.

### Features: All Hangers

- All fixture hangers protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.

### Features: AL Series Hangers<sup>1</sup>

- Dual function—conduit outlet box and fixture hanger.
- Choice of ball or cushion type.
- Swivel joint construction—allows 20° swing from vertical.
- Cushion style, with conical spring, supports up to 120 lbs.
- Cushion type has setscrew for locking fixture stem.
- Fixture and hanger stem can be wired at work bench.
- Connection block available for convenient wiring of fixture leads.

### Features: JB and GS hangers<sup>2</sup>

- Mount directly to JB and GS cast conduit outlet boxes.
- Choice of ball or cushion type.
- Ball type permits 15° swing, cushion type 8° swing from vertical
- Cushion type is enclosed and gasketed.



## Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

### Features: AHG Hangers<sup>3</sup>

- Enclosed and gasketed.
- Neoprene diaphragm keeps moisture and dirt out of system.
- Cushion type—permits 8° swing from vertical.

### Features: UNJ Hangers<sup>4</sup>

- Economical general purpose hanger.
- Permits 15° swing.

### Features: GHP Receptacle Hangers<sup>5</sup>

- Permit quick disconnect and removal of fixture for maintenance.
- Includes 120/208/240, or 277 or 480 volt receptacle, EFHM safety lock, FS box and steel cover.
- Covers have stainless steel screws.
- Available in pendant or feed-thru.
- Available with matching cord set—see Catalog Section R.

### Features: FH/FHSN/EF Hook and Loop Hangers<sup>6</sup>

- Malleable iron for strength and safety.
- Hook and loop combination permits quick disconnect and removal of fixture for maintenance.
- Offer inexpensive means of pendant flexible suspension of lighting fixtures.
- Permit free swing in any direction.
- EF and FHSN jaw openings can be completely closed for added safety.

### Features: FHS Support Hangers<sup>7</sup>

- Provide up to 350 lbs. support for fluorescent fixtures on the non-electrical side of mounting.
- Straddle a maximum of 1-1/4" conduit and take 1/2" or 3/4" fixture hook or conduit.

### Features: SSH Hangers<sup>8</sup>

- Heavy duty—support fixtures up to 50 lbs.
- Steel plate serves as cover for outlet or concrete box.
- Ball type swivel joint permits 20° swing from vertical.

### Features: SHC Hangers<sup>9</sup>

- Ball type swivel joint permits 20° swing from vertical.
- Support fixtures with a maximum weight of 50 lbs.

### Standard Materials

- *AL and GHP series hangers*; malleable iron with steel cover.
- *JB, GS and AHG fixture hangers*; malleable iron.
- *UNJ fixture hangers*: malleable iron and steel.
- *FH and EF hooks and loops and FHS dummy support*: malleable iron.
- *SSH heavy duty outlet box swivel hangers*: malleable iron and steel.
- *SHC outlet box swivel hanger covers*: steel and malleable iron.

### Standard Finishes

- *AL and GHP series hangers*: malleable iron parts, triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat; steel parts, zinc electroplate.
- *GS and AHG*: triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.
- *UNJ*: malleable iron and steel parts, zinc electroplate and clear chromate.
- *JB series, FH/EF hooks and loops and FHS dummy support*: zinc electroplate and clear chromate.
- *SSH heavy duty and SHC outlet box swivel hangers*: malleable iron and steel parts, zinc electroplate and clear chromate.

### Compliances





- JB, GS and AHG cushion type hangers suitable for classified location use in Class I, Division 2 areas, if installed in compliance with NEC 501-9(b).
- Appleton malleable iron products conform to ASTM A47-77, Grade 32510, which has the following properties: tensile strength, 50,000 psi; yield, 32,000 psi; and elongation, 10%.
- Appleton aluminum products are produced from a high strength copper-free (4/10 of 1% max.) alloy.

### Product Cross-Reference

- Other classified location fixture hangers are listed in Catalog Section H.





## AL Flexible Fixture Hangers: Ball and Cushion; Malleable Iron

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.  
Ball Joint Permits 20° Swing.

	Conduit Size (Inches)	Fixture Stem Size (Inches)	Support Wt., Lbs. and (Kilograms)	Catalog Number
 <p>Ball</p>	<b>ALA—Ball Hanger</b>			
	1/2	1/2		ALA50-B
	3/4	1/2	250 lbs. (112.5 kg)	ALA7550-B
	3/4	3/4		ALA75-B
 <p>Cushion</p>	<b>ALA—Cushion Hanger</b> <i>Furnished with a 3/4" to 1/2" reducer for 1/2" stems.</i>			
	1/2	3/4 or 1/2	3 to 12 lbs. (1.4 to 5.4 kg)	ALA50-12
	3/4	3/4 or 1/2		ALA7575-12
	1/2	3/4 or 1/2	12 to 48 lbs. (5.4 to 21.6 kg)	ALA50-48
	3/4	3/4 or 1/2		ALA7575-48
	1/2	3/4 or 1/2	48 to 120 lbs. (21.6 to 54.0 kg)	ALA50-120
	3/4	3/4 or 1/2		ALA7575-120
 <p>Ball</p>	<b>ALC—Ball Hanger</b>			
	1/2	1/2	250 lbs. (112.5 kg)	ALC50-B
	3/4	1/2		ALC7550-B
	1	1/2		ALC1050-B
	3/4	3/4		ALC75-B
 <p>Cushion</p>	<b>ALC—Cushion Hanger</b> <i>Furnished with a 3/4" to 1/2" reducer for 1/2" stems.</i>			
	1/2	3/4 or 1/2		ALC50-12
	3/4	3/4 or 1/2	3 to 12 lbs. (1.4 to 5.4 kg)	ALC7575-12
	1	3/4 or 1/2		ALC1075-12
	1/2	3/4 or 1/2		ALC50-48
	3/4	3/4 or 1/2	12 to 48 lbs. (5.4 to 21.6 kg)	ALC7575-48
	1	3/4 or 1/2		ALC1075-48
	1/2	3/4 or 1/2		ALC50-120
	3/4	3/4 or 1/2	48 to 120 lbs. (21.6 to 54.0 kg)	ALC7575-120
	1	3/4 or 1/2		ALC1075-120



## AL Flexible Fixture Hangers: Ball and Cushion; Malleable Iron


UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.  
Ball Joint Permits 20° Swing.


		Conduit Size (Inches)	Fixture Stem Size (Inches)	Support Wt., Lbs. and (Kilograms)	Catalog Number
Ball		<b>ALL—Ball Hanger</b>			
		1/2	1/2		ALL50-B
		3/4	1/2	250 lbs.	ALL7550-B
		3/4	3/4	(112.5 kg)	ALL75-B
Cushion		<b>ALL—Cushion Hanger</b>			
		<i>Furnished with a 3/4" to 1/2" reducer for 1/2" stems.</i>			
		1/2	3/4 or 1/2	3 to 12 lbs.	ALL50-12
		3/4	3/4 or 1/2	(1.4 to 5.4 kg)	ALL7575-12
		1/2	3/4 or 1/2	12 to 48 lbs.	ALL50-48
		3/4	3/4 or 1/2	(5.4 to 21.6 kg)	ALL7575-48
		1/2	3/4 or 1/2	48 to 120 lbs.	ALL50-120
		3/4	3/4 or 1/2	(21.6 to 54.0 kg)	ALL7575-120
Ball		<b>ALT—Ball Hanger</b>			
		1/2	1/2	250 lbs.	ALT50-B
		3/4	1/2	(112.5 kg)	ALT7550-B
		1	1/2		ALT1050-B
		3/4	3/4		ALT75-B
		1	3/4		ALT1075-B
Cushion		<b>ALT—Cushion Hanger</b>			
		<i>Furnished with a 3/4" to 1/2" reducer for 1/2" stems.</i>			
		1/2	3/4 or 1/2	3 to 12 lbs.	ALT50-12
		3/4	3/4 or 1/2	(1.4 to 5.4 kg)	ALT7575-12
		1	3/4 or 1/2		ALT1075-12
		1/2	3/4 or 1/2	(12 to 48 lbs.	ALT50-48
		3/4	3/4 or 1/2	(5.4 to 21.6 kg)	ALT7575-48
		1	3/4 or 1/2		ALT1075-48
		1/2	3/4 or 1/2	48 to 120 lbs.	ALT50-120
		3/4	3/4 or 1/2	(21.6 to 54.0 kg)	ALT7575-120
		1	3/4 or 1/2		ALT1075-120


## AL Flexible Fixture Hanger Parts and AL Dimensions

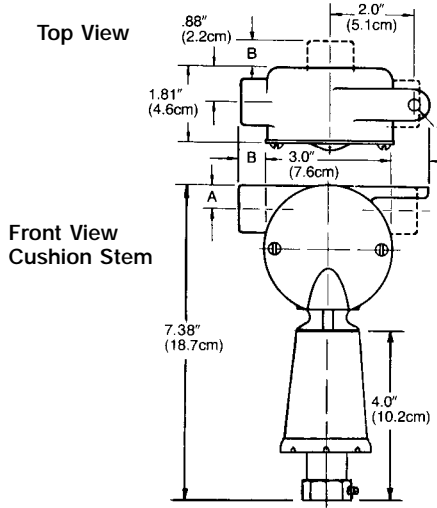
UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

	Size	Conduit Size (Inches)	Support Weight	Catalog Number
<b>AL—Hanger Bodies</b>				
 ALA                      ALC	ALA	1/2 3/4		ALA50 ALA75
	ALC	1/2 3/4 1		ALC50 ALC75 ALC100
 ALL                      ALT	ALL	1/2 3/4	(Refer to Cushion and Ball Fixture Stems below)	ALL50 ALL75
	ALT	1/2 3/4 1		ALT50 ALT75 ALT100

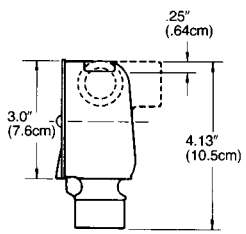
	<b>AL—Ball Fixture Stem</b>			
		1/2 3/4	250 lbs. (112.5 kg)	BJ50 BJ75

	<b>AL—Cushion Fixture Stems</b>			
	<i>Fixture stem tapped for 3/4"; 3/4" to 1/2" reducer furnished for 1/2" stems.</i>			
	<i>With setscrew for locking fixture stem.</i>			
		3/4 or 1/2 3/4 or 1/2 3/4 or 1/2	3-12 lbs. (1.4-5.4 kg) 12-48 lbs. (5.4-21.6 kg) 48-120 lbs. (21.6-54.0 kg)	CJC75-12 CJC75-48 CJC75--120

	<b>AL—Porcelain Connection Block</b>			
	2 Wire, 20 Amp, 277 Volt Maximum Wire Size Two No. 10 AWG Large Terminal Two No. 14 AWG Small Terminal			CB202



### AL Fixture Hanger Dimensions



Conduit Trade Size	Dim. in Inches		Dim. in Centimeters	
	A	B	A	B
1/2"	.56	.69	1.4	1.8
3/4"	.69	.69	1.8	1.8
1"	.88	.81	2.2	2.1

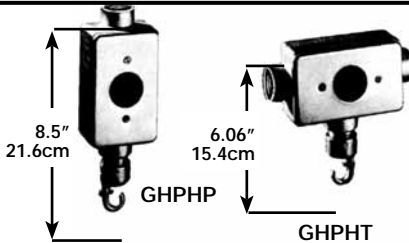
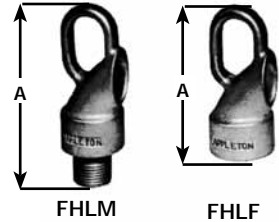
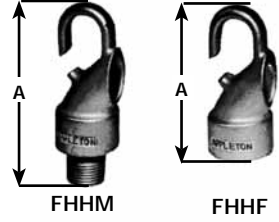
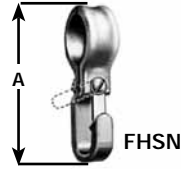
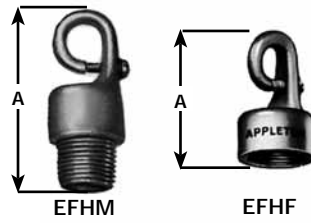

## Flexible Fixture Hangers: JB, GS, AHG and UNJ; Malleable Iron

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.  
Ball Type, 15° Swing; Cushion Type, 8° Swing.

	Fixture Stem Size (Inches)	Male Nipple Size (Inches)	Length A	Support Wt., Lbs. and (Kilograms)	Catalog Number
<b>JB—Fixture Hanger Covers</b>					
	For use with JBX, JBDX and JBLX bodies. (Section A) Furnished with gasket and screws.				
	Ball Type				
Ball	1/2		2.56" (6.5cm)	250 lbs. (113 kg)	JBK-50-BS JBK-75-BS
	3/4		2.56" (6.5cm)		
	Cushion Type—enclosed and gasketed. Cushions 40 lbs. (18.0 kg).				
Cushion	1/2		1.63" (4.1cm)	40 lbs. (18 kg)	JBK-50-CS JBK-75-CS
	3/4		1.63" (4.1cm)		
<b>GS—Fixture Hanger Covers (Form 20)</b>					
	For use with GS and GSU bodies. (Section A) Furnished with gasket and screws.				
	Ball Type				
Ball	1/2		3.00" (7.6cm)	250 lbs. (113 kg)	GSK-50-20B GSK-75-20B
	3/4		3.25" (8.2cm)		
	Cushion Type—enclosed and gasketed. Cushions 40 lbs. (18.0 kg).				
Cushion	1/2		2.00" (5cm)	40 lbs. (18 kg)	GSK-50-20C GSK-75-20C
	3/4		2.00" (5cm)		
<b>AHG—Fixture Hangers</b>					
	Cushion Type—enclosed and gasketed. Cushions 40 lbs. (18.0 kg).				
Cushion	1/2	1.2	3.19" (8.1cm)	40 lbs. (18 kg)	AHG5050 AHG7550 AHG7575
	1/2	3/4	3.19" (8.1cm)		
	3/4	3/4	3.19" (8.1cm)		
<b>UNJ—Fixture Hangers</b>					
	Malleable iron and steel.				
	Ball Type				
Ball	1/2	1/2	4.00" (10.2cm)	120 lbs. (54.0 kg)	UNJ-50 UNJ-75
	3/4	3/4	4.00" (10.2cm)		

## Flexible Fixture Hangers: Receptacle and Hook and Loop; Malleable Iron



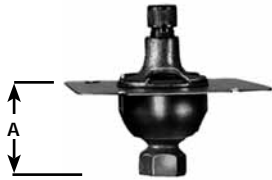
UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

		Conduit Hub Size (Inches)	Voltage	Takes Hubbell Plug	Catalog Number		
	<b>GHPHP and GHPHT—Receptacle Hangers</b>						
	Furnished with assembled FS box, EFHM, safety lock, receptacle, and steel cover. Supports 200 lbs.						
		3/4	120	L5-15P	Pendant	Feed-Thru	
		3/4	208,240	L6-15P	GHPHP12	GHPHT12	
		3/4	277	L7-15P	GHPHP24	GHPHT24	
	3/4	480	L8-20P	GHPHP27	GHPHT27		
				GHPHP48	GHPHT48		
		Size (Inches)	Length A	Support Wt., Lbs. and (Kilograms)	Catalog Number		
	<b>FH—Hanger Loops</b>						
	With 5/8" diameter wireway.						
	FHLM—Male						
	1/2	3.88" (9.2cm)	350 lbs. (157.5 kg)	FHLM-50			
3/4	4.13" (10.5cm)		FHLM-75				
FHLF—Female							
1/2	3.25" (8.3cm)	350 lbs. (157.5 kg)	FHLF-50				
3/4	3.25" (8.3cm)		FHLF-75				
	<b>FH—Hanger Hooks</b>						
	With 5/8" diameter wireway, 3/8" jaw opening.						
	FHLM—Male						
	1/2	3.88" (9.8cm)	200 lbs. (90.0 kg)	FHLM-50			
	3/4	4.13" (10.5cm)		FHLM-75			
	FHLF—Female						
1/2	3.25" (8.3cm)	200 lbs. (90.0 kg)	FHLF-50				
3/4	3.25" (8.3cm)		FHLF-75				
	<b>FHSN—Conduit Suspension Hanger</b>						
	With safety strap—clamps around rigid conduit or IMC. Has 3/8" jaw opening.						
	1/2	3.13" (7.9cm)	150 lbs. (67.5 kg)	FHSN-50			
	3/4	3.25" (8.3cm)		FHSN-75			
1	3.38" (8.6cm)		FHSN-100				
	<b>EF—Safety Support Hooks</b>						
	With 3/8" jaw opening.						
	EFHM—Male						
	1/2	2.63" (6.7cm)	200 lbs. (90.0 kg)	EFHM-50			
	3/4	2.94" (7.5cm)		EFHM-75			
	EFHF—Female						
1/2	2.00" (5.1cm)	200 lbs. (90.0 kg)	EFHF-50				
3/4	2.05" (5.2cm)		EFHF-75				
	<b>FHS—Support for Fixtures, Dummy Side</b>						
	Straddles up to 1-1/4 trade size conduit. 11/32" diameter mounting holes, spaced 3-1/4" apart.						
1/2 or 3/4	3.31" (8.4cm)	350 lbs. (157.5 kg)	FHS5075				



## SSH Flexible Fixture Hangers: Heavy Duty Outlet Box Swivel

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.  
Ball Joint Swivel Permits 20° Swing.

	Fixture Stem Size (Inches)	Fixture Stud Size (Inches)	Length A	Support Wt., Lbs. and Kilograms	Catalog Number
 <p><b>Concrete Box Safety Swivel Hanger</b> For Concrete Box 2-1/2" to 4" Deep</p>	1/2	3/8	2.19 (5.6cm)	50 lbs. (22.5 kg)	11360
 <p><b>Octagonal Box Safety Swivel Hanger</b> For 4" Octagonal Box 1-1/2" or 2-1/8" Deep</p>	1/2	3/8	2.19 (5.6cm)	50 lbs. (22.5 kg)	11355
 <p><b>Square Box Safety Swivel Hanger</b> For 4-11/16" Square Box 1-1/2" or 2-1/8" Deep</p>	1/2	3/8	2.19 (5.6cm)	50 lbs. (22.5 kg)	11362



Cat. No. 11360 Safety Swivel Hanger installed in OCR3-1/2 Concrete Box with OCP3/8 Plate



Cat. No. 11362 Safety Swivel Hanger installed in a 4-11/16" Square Box shown with NBFS-38 (not included)



Industrial lighting installations often employ the use of extra heavy fixtures requiring a properly anchored swivel attachment, assuring positive safety to carry the necessary weight. In the Type "SSH" Safety Swivel Hanger, the weight of the entire suspended unit is borne by a fixture stud instead of relying upon the screws and screw ears of the box or ring for support. The "SSH" hanger is furnished with a steel plate to serve as a cover for the 4" Concrete, Octagonal, and 4-11/16" Square boxes.



## SHC Flexible Fixture Hangers: Outlet Box Mounted Series

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

E

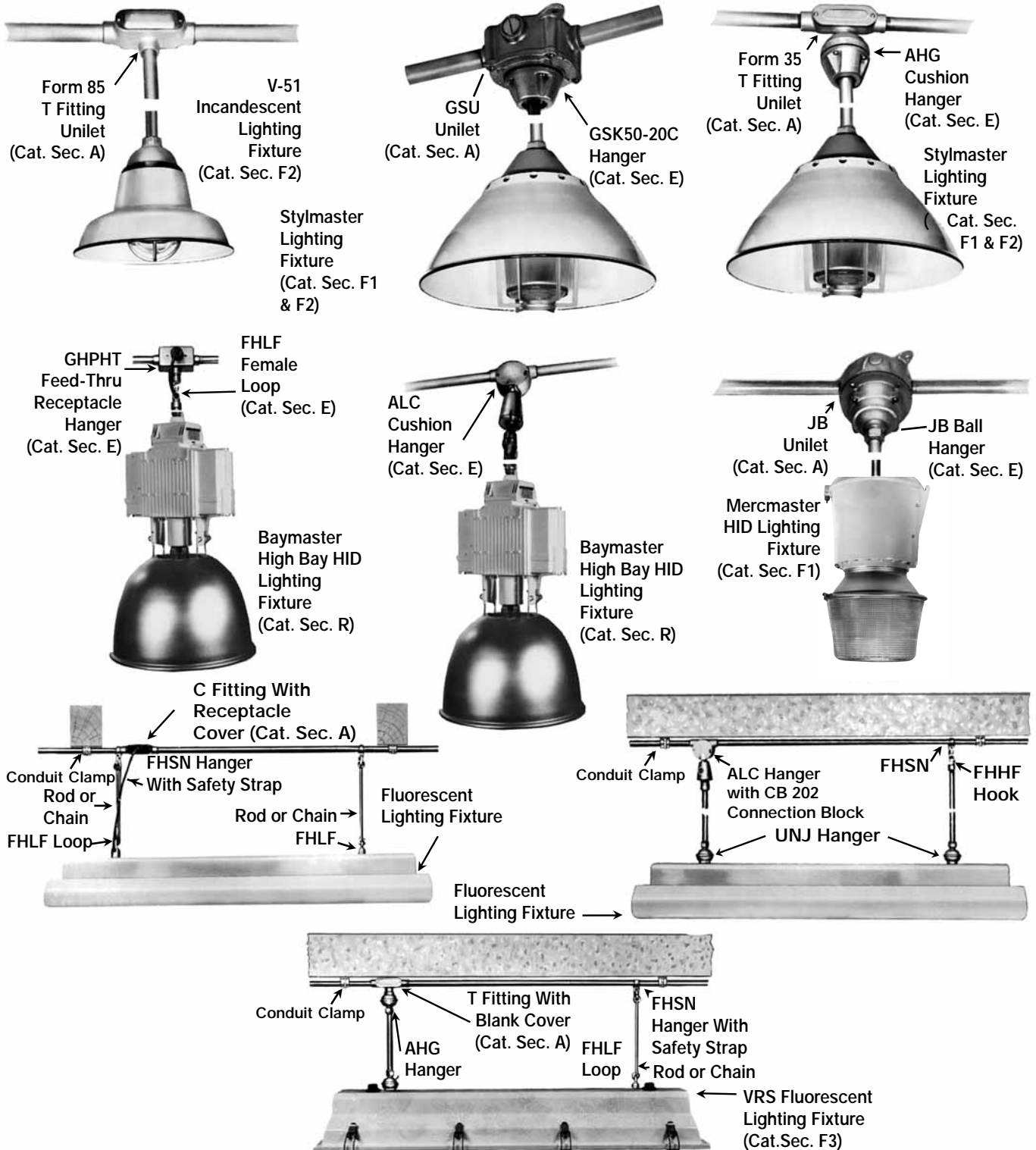
	Fixture Stem Size (Inches)	Length A	Support Wt., Lbs. and (Kilograms)	Catalog Number
<b>SHC Ball Type Swivel Hanger Covers</b>				
Permit 20° swing from vertical.				
For 3-1/4" and 4" Octagonal Boxes				
	1/2"	1.75" (4.5cm)	50 lbs. (22.5kg)	8438R
	3/4"	2.00" (5.1cm)	50 lbs. (22.5kg)	8436R
For 4" Square Boxes				
	1/2"	1.75" (4.5cm)	50 lbs. (22.5kg)	8458R
	3/4"	2.00" (5.1cm)	50 lbs. (22.5kg)	8456R
(Boxes located in OB/SB-1)				



Ball Type Swivel Fixture Hanger Covers shown with octagonal and with square stamped steel outlet boxes.

## Typical installations using Appleton Fixture Hanger and Mounting Unilets

Pendant Suspension of HID, Incandescent and Fluorescent Industrial Lighting Fixtures.



## Fixture Hanger Bracket and Accessories

UNILETS® for use with Threaded Metal Conduit.

E

	Size (Inches)	Support Wt. Lbs. and Kilograms	Catalog Number
--	---------------	--------------------------------	----------------



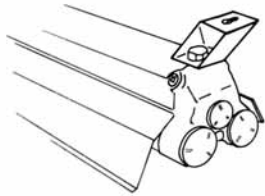
### Fixture Hanger Brackets

Suitable for use with Fixtures with 3/4-14 NPT conduit openings or hubs. Mounts directly to ceiling or wall separately from conduit system. Catalog number includes two brackets and two hexhead bolts. Iron with gray epoxy finish.

1/2

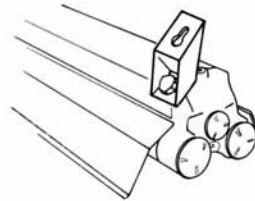
200 lbs. (90.0 kg)

FHS1



### Ceiling Mount

Projects light downward (90°). Shown mounted to Appleton EFU Series, 2 lamp explosionproof fluorescent lighting fixture.



### Wall Mount

Projects light at 45° angle. Shown mounted to Appleton EFU Series, 2 lamp explosionproof fluorescent lighting fixture.



Installation View

### Safety Support Hooks and Rigid Support for Dummy Side of Lighting Fixtures

Complete assembly includes two hooks and one rigid support. Each hook supplied with a screw for closing 3/8" jaw opening. Rigid Support straddles max. 1-1/4" conduit. (Chain shown in installation view not furnished.)

1/2

200 lbs. (90.0 kg)

ACKT

### Dimensions of FHS1 Fixture Hanger Bracket

