



### Washers

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# IBS, INCORPORATED

## High-Alloy Tension Washer C01

### High-Alloy Washers

- Thicker than standard washers to prevent cupping and dishing and to assure a consistent clamp load.
- Special high-alloy hardened material minimizes crushing of bearing surfaces.
- Zinc Yellow Per ASTM B633 plated to resist corrosion & assist torquing.
- Heat treated to Rockwell "C" 40-45.
- Provides smooth bearing surfaces and uniform load distribution to reduce brinnelling.



**SAE HIGH-ALLOY FLAT WASHERS**

IBS No.	Size	I.D.	O.D.	Thick	Qty
7400	1/4	9/32	5/8	.056 / .071	100
7401	5/16	11/32	11/16	.072 / .086	100
7402	3/8	13/32	13/16	.090 / .112	100
7403	7/16	15/32	59/64	.090 / .112	50
7404	1/2	17/32	1-1/16	.090 / .112	50
7405	9/16	19/32	1-11/64	.090 / .112	25
7406	5/8	21/32	1-5/16	.146 / .174	25
7407	3/4	13/16	1-15/32	.146 / .174	20
7408	7/8	15/16	1-3/4	.146 / .174	15
7409	1	1-1/16	2	.146 / .174	10

**USS HIGH-ALLOY FLAT WASHERS**

IBS No.	Size	I.D.	O.D.	Thick	Qty
7016	1/4	17/64	3/4	.065 / .080	100
7017	5/16	21/64	7/8	.079 / .093	100
7018	3/8	25/64	1	.079 / .093	100
7019	7/16	29/64	1-1/4	.090 / .106	50
7020	1/2	17/32	1-3/8	.122 / .146	50
7021	9/16	19/32	1-1/2	.122 / .146	25
7022	5/8	41/64	1-3/4	.136 / .160	25
7023	3/4	25/32	2	.136 / .160	20
7024	7/8	57/64	2-1/4	.136 / .160	15
7025	1	3/32	2-1/2	.136 / .160	10

**THE HIGH-ALLOY FASTENING SYSTEM IS DESIGNED AND MANUFACTURED TO BE USED AS A SYSTEM. NO SUBSTITUTIONS OR ALTERATIONS ARE TO BE MADE OF THE BOLT, NUT, WASHER OR FINISH.**

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### Heat Treated SAE Flat Washers

- Meets S.A.E. close tolerance specifications.
- Eliminates common washer failures such as dishing, bellying or cracking.
- Through hardened (quenched & tempered) to R/C 38-45.
- Made of heat treated alloy.
- Controlled ductility to eliminate cracking and splitting.
- Maximum strength for use with all grades of cap screws.
- Plated washers are Zinc (Standard) and Yellow Baked (Heat Treated).



HEAT TREATED SAE FLAT WASHERS (C02)

Plain	IBS No.	Size	I.D.	O.D.	Thick	Qty
	Zinc Yellow Plated					
7000	2660	1/4	5/16	5/8	1/16	200
7001	2661	5/16	3/8	11/16	1/16	100
7002	2662	3/8	13/32	13/16	1/16	100
7003	2663	7/16	15/32	15/16	1/16	100
7004	2664	1/2	17/32	1-1/16	7/64	100
7005	2665	9/16	19/32	1-3/16	7/64	100
7006	2666	5/8	21/32	1-5/16	7/64	100
7007	2667	3/4	13/16	1-1/2	9/64	50
7008	2668	7/8	15/16	1-3/4	9/64	25
7009	2669	1	1-1/16	2	9/64	25
7010	—	1-1/8	1-1/4	2-1/4	9/64	EA
7011	—	1-1/4	1-3/8	2-1/2	9/64	EA
7013	—	1-1/2	1-5/8	3	9/64	EA



STANDARD SAE FLAT WASHERS (C05)

IBS No.	Size	I.D.	O.D.	Thick	Qty
Zinc Plated					
7044	#4	3/32	9/32	3/64	100
7045	#6	1/8	3/8	3/64	100
7046	#8	3/16	15/32	3/64	100
7047	#10	7/32	1/2	3/64	100
7048	#12	1/4	9/16	3/64	100
7049	1/4	9/32	5/8	1/16	200
7050	5/16	11/32	11/16	1/16	100
7051	3/8	13/32	13/16	1/16	100
7052	7/16	7/16	15/16	1/16	100
7053	1/2	1/2	1-1/16	3/32	100
7054	9/16	9/16	1-3/16	3/32	100
7055	5/8	5/8	1-5/16	3/32	100
7056	3/4	3/4	1-1/2	9/64	50
7057	7/8	7/8	1-3/4	9/64	25
7058	1	1	2	9/64	25

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# IBS, INCORPORATED

## USS Flat Washers HT C04 & Std C06

### Heat Treated Flat USS Washers

- U.S. Standard dimensions for applications requiring extra bearing surface in oversize or slotted holes for high strength applications.
- Eliminates common washer failures such as dishing, bellying or cracking.
- Through hardened (quenched & tempered) to R/C 38-45.
- Made of heat treated alloy.
- Controlled ductility to eliminate cracking and splitting.
- Maximum strength for use with all grades of cap screws.
- Plated washers are Zinc (Standard) and Yellow Baked (Heat Treated).
- Certificates of compliance to ASTM Designation F-436 available on request.



USS PLAIN



USS ZINC YELLOW

IBS No.	Size	I.D.	O.D.	Thick	Qty	IBS No.	Size	I.D.	O.D.	Thick	Qty
7030	1/4"	5/16"	3/4"	.066 / .072	100	2770	1/4"	5/16"	3/4"	.066 / .072	100
7031	5/16"	3/8"	7/8"	.064 / .080	100	2771	5/16"	3/8"	7/8"	.064 / .080	100
7032	3/8"	7/16"	1"	.064 / .080	100	2772	3/8"	7/16"	1"	.064 / .080	100
7033	7/16"	1/2"	1-1/4"	.064 / .080	100	2773	7/16"	1/2"	1-1/4"	.064 / .080	100
7034	1/2"	9/16"	1-3/8"	.097 / .121	100	2774	1/2"	9/16"	1-3/8"	.097 / .121	100
7035	9/16"	5/8"	1-1/2"	.097 / .121	50	2775	9/16"	5/8"	1-1/2"	.097 / .121	50
7036	5/8"	11/16"	1-3/4"	.122 / .146	50	2776	5/8"	11/16"	1-3/4"	.122 / .146	50
7037	3/4"	13/16"	2"	.122 / .146	50	2777	3/4"	13/16"	2"	.122 / .146	50
7038	7/8"	15/16"	2-1/4"	.136 / .160	25	2778	7/8"	15/16"	2-1/4"	.136 / .160	25
7039	1"	1-1/16"	2-1/2"	.136 / .160	25	2779	1"	1-1/16"	2-1/2"	.136 / .160	25



### Standard Flat Washers USS (Zinc Plated)

IBS No.	Size	I.D.	O.D.	Thick	Qty	IBS No.	Size	I.D.	O.D.	Thick	Qty
7063	1/4"	5/16"	3/4"	1/16"	200	7070	3/4"	13/16"	2"	5/32"	25
7064	5/16"	3/8"	7/8"	5/64"	100	7071	7/8"	15/16"	2-1/4"	11/64"	25
7065	3/8"	7/16"	1"	5/64"	100	7072	1"	1-1/16"	2-1/2"	11/64"	25
7066	7/16"	1/2"	1-1/4"	5/64"	100	7073	1-1/8"	1-1/4"	2-3/4"	13/16"	EA
7067	1/2"	9/16"	1-3/8"	7/64"	100	7074	1-1/4"	1-3/8"	3"	7/32"	EA
7068	9/16"	5/8"	1-1/2"	7/64"	50	7076	1-1/2"	1-5/8"	3-1/2"	7/32"	EA
7069	5/8"	11/16"	1-3/4"	9/64"	50						

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# IBS, INCORPORATED

## Heavy Duty Flat Washers C16



### Heavy Duty Flat Washers (Plain)












- Heat treated to Rockwell 38-45.
- Through hardened (quenched and tempered).
- For use with High-Alloy or Grade 8 capscrews.
- Up to 50% thicker than ordinary washers.
- Uniform hardness for greater reliability.
- Won't dish out or crack.
- High torque fastening.
- Less failure under heavy work load.



IBS No.	Size	I.D.	O.D.	Thick	Qty
7300	1/4	17/64	9/16	.090 - .110	50
7301	5/16	11/32	5/8	.090 - .110	50
7302	3/8	13/32	13/16	.090 - .110	25
7303	7/16	15/32	13/16	.090 - .110	25
7304	1/2	17/32	1	.156 - .188	25
7305	9/16	19/32	1-3/32	.156 - .188	10
7306	5/8	21/32	1-3/16	.170 - .195	10
7307	3/4	25/32	1-7/16	.170 - .195	10
7308	7/8	15/16	1-5/8	.235 - .265	10
7309	1	1-1/8	1-7/8	.235 - .265	10
7310	1-1/8	1-3/16	2-1/8	.235 - .265	EA
7311	1-1/4	1-5/16	2-1/4	.235 - .265	EA
7312	1-1/2	1-9/16	2-5/8	.235 - .265	EA

### Heavy Duty Flat Washer Assortment

IBS No. 117R • 10 Items - 330 Pcs

 <b>IBS, Inc.</b> <small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR                  (800) 678-1906 • www.IndustrialBolt.com</small>		<b>Heavy Duty Flat Washers</b> Assortment No. 117R		
7303 7/16 HVY DUTY FLAT WASHER PLN 	7307 3/4 HVY DUTY FLAT WASHER PLN 			
7302 3/8 HVY DUTY FLAT WASHER PLN 	7306 5/8 HVY DUTY FLAT WASHER PLN 			
7301 5/16 HVY DUTY FLAT WASHER PLN 	7305 9/16 HVY DUTY FLAT WASHER PLN 	7309 1 HVY DUTY FLAT WASHER PLN 		
7300 1/4 HVY DUTY FLAT WASHER PLN 	7304 1/2 HVY DUTY FLAT WASHER PLN 	7308 7/8 HVY DUTY FLAT WASHER PLN 		

WASHERS

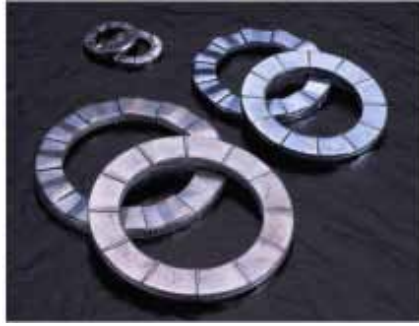




# IBS, INCORPORATED

## Lockwashers C07

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### Sur-Lock Washers Sold in Pairs

Sur-Lock washers offer a **safe bolt locking system** that does not rely on traditional techniques to secure the fastener by utilizing tension instead of friction to secure bolted joints. The design is simple and ensures easy installation.

Sur-Lock's system consists of two identical washers which have **inclined cams** on one side and a **series of ridges** on the other. On installation the two cam sides are mated together and placed between the nut and the joint material. Under vibration the nut will attempt to rotate loose, but as the angle of the cams is greater than the pitch angle of the thread on the bolt, the interlocking cams and the non-slip ridges of the washer work together to create a jamming effect. This effect **prevents loosening** and further **locks the assembly**, thereby maintaining joint integrity. Once applied and installed correctly, Sur-Lock Washers will ensure that the fastener remains secure and that **nuts and bolts do not require re-tightening**.

#### FEATURES & BENEFITS:

- No need for locking nuts, flat or lock washers - minimize inventory and assembly time.
- Retains torque and tension better than any other fastener locking system - resists breaking and loss of shear and tensile strength for less failure.
- Provides maximum safety that keeps equipment and those around it safe from failure.
- Locking function is not affected by lubrication and therefore can be tightened without the need to clean or dry an application and won't deteriorate or loosen around oils.
- Can be used with Grade 2, 5, 8 and even stronger bolts.
- Sur-Lock washers are also reusable - saves time, money and minimizes replacement costs.
- Heat treated to Mil Spec MIL-H-6875H 2.
- Vibration proof to Mil Spec MIL-STD-1312, Vibration Test 7.

#### WHERE TO USE SUR-LOCK WASHERS

Automotive • Construction • Off-Road • Agriculture • Marine • Trucking • Mining  
Offshore • Railroad • Power Plants • Manufacturing • Processing • Utilities



IBS No.	Size	I.D.	O.D.	Pkg	IBS No.	Size	I.D.	O.D.	Pkg
7250	1/4 (M6)	.262	.495	50	7255	9/16 (M14)	.572	1.128	10
7251	5/16 (M8)	.326	.628	50	7256	5/8 (M16)	.651	1.247	10
7252	3/8 (M10)	.409	.705	25	7257	3/4 (M20)	.820	1.381	10
7253	7/16 (M11)	.450	.880	20	7258	7/8 (M22)	.883	1.470	5
7254	1/2 (M12)	.510	1.005	20	7259	1" (M24)	1.015	1.626	5

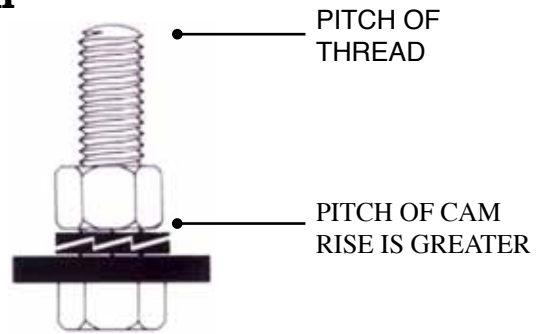
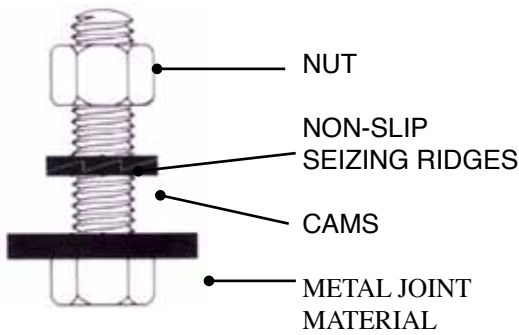
**WASHERS ARE SOLD IN PAIRS (I.E. PKG 50 = 50 PAIRS / 100 PCS)**





### Sur-Lock Washers

#### How to Install



To install the washer, simply mate the cams together and place between the nut and joint material.

As the nut is tightened, one half of the washer is seated to the joint material and the other half to the nut.

As with most most fastening devices, washers should only be used against flat, relatively smooth surfaces.

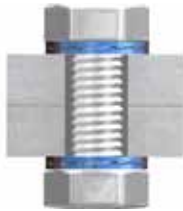
As a loosening moment occurs, one washer rotates with the nut, however since the cam rise angle exceeds the bolt thread angle this results in a locking action.

When the bolt elongates due to vibration and shock, the nut will attempt to rotate loose. As one half of the washer tries to rotate with the nut, the interlocking cams work against each other and maintain the preload and lock the assembly.

### Assembly Examples



SUR-LOCK washers for tapped holes.



Through holes require two pairs of SUR-LOCK washers.



On stud bolts SUR-LOCKS lock the nut & eliminate the need for adhesives.



DO NOT USE with washers that are not captivated in place.

### Sur-Lock Washers Assortment

IBS No. 698R • 10 Items • 100 Pcs

IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR (303) 579-1900 • www.industrialtech.com		Sur-Lock Washers	
Assortment No. 698R			
7250 1/4 & M6 SUR-LOCK WASHER PAIR	7251 5/16 & M8 SUR-LOCK WASHER PAIR	7252 3/8 & M10 SUR-LOCK WASHER PAIR	7253 7/16 & M11 SUR-LOCK WASHER PR
7254 1/2 & M12 SUR-LOCK WASHER PAIR	7255 9/16 & M14 SUR-LOCK WASHER PR	7256 5/8 & M16 SUR-LOCK WASHER PAIR	7257 3/4 & M20 SUR-LOCK WASHER PAIR
7258 7/8 & M22 SUR-LOCK WASHER PAIR	7259 1" & M24 SUR-LOCK WASHER PAIR		

WASHERS





# IBS, INCORPORATED

## Lockwashers C07

### Alloy Lockwashers (Yellow Zinc Plated)



- Yellow zinc plated for easy identification.
- Spring tempered, high carbon spring steel.
- Springs back to normal position without loss of locking power.
- Non-linking.
- Use with Grade 8 capscrews

IBS No.	Size	O.D.	Qty	IBS No.	Size	O.D.	Qty
7086	1/4	1/2	200	7091	9/16	31/32	100
7087	5/16	9/16	100	7092	5/8	1-1/16	50
7088	3/8	21/32	100	7093	3/4	1-1/4	50
7089	7/16	3/4	100	7094	7/8	1-7/16	25
7090	1/2	7/8	100	7095	1	1-13/16	25

### Medium Lockwashers (Zinc Plated)



- Spring tempered, high carbon spring steel.
- Springs back to normal position without loss of locking power.
- Non-linking

IBS No.	Size	O.D.	Qty	IBS No.	Size	O.D.	Qty
7100	#4	3/16	200	7109	1/2	7/8	100
7101	#6	1/4	200	7110	9/16	31/32	100
7102	#8	5/16	200	7111	5/8	1-1/16	100
7103	#10	11/32	200	7112	3/4	1-1/4	50
7104	#12	3/8	200	7113	7/8	1-7/16	25
7105	1/4	1/2	200	7114	1	1-5/8	25
7106	5/16	9/16	100	7115	1-1/8	1-13/16	EA
7107	3/8	11/16	100	7116	1-1/4	2	EA
7108	7/16	3/4	100				

### High Collar Lockwashers (Plain)

#### For Socket Head Capscrews



- High carbon double heat-treated spring steel.
- Springs back to normal position without loss of locking power.
- Non-linking

IBS No.	Size	Qty	IBS No.	Size	Qty
7145	#8	100	7150	3/8	100
7146	#10	100	7151	7/16	100
7148	1/4	100	7152	1/2	50
7149	5/16	100	7154	5/8	50

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# IBS, INCORPORATED

## Fender Washers C15



### Fender Washers

#### FENDER WASHERS

IBS No.	Bolt	I.D.	O.D.	Thick	Qty
7224	3/16	13/64	1/2	3/64	100
7225	3/16	13/64	3/4	3/64	100
7227	3/16	7/32	1-1/4	3/64	100
7228	1/4	17/64	9/16	3/64	100
7229	1/4	9/32	1	3/64	100
7230	1/4	9/32	1-1/4	3/64	100
7231	1/4	9/32	1-1/2	3/64	100
7236	5/16	11/32	1-1/4	3/64	100
7232	5/16	11/32	1-1/2	3/64	100
7234	3/8	13/32	1-1/2	3/64	100
7235	1/2	17/32	2	3/64	100

- Zinc plated to protect against rust and corrosion.
- Tumbled to remove burrs and sharp corners.
- Heavy Duty Fender Washers are over 50% thicker than regular style.

**Regular**  
IBS No. 7229



**Heavy Duty**  
IBS No. 7245













#### HEAVY DUTY FENDER WASHERS

IBS No.	Bolt	I.D.	O.D.	Thick	Qty
7245	1/4	9/32	1-1/8	1/8	100
7246	5/16	11/32	1-1/4	1/8	100
7247	3/8	13/32	2	1/8	100
7248	1/2	9/16	2	1/8	50

### Fender Washer Assortment (Z02)

IBS No. 320R • 11 Items - 700 Pieces

Arranged in a large 12 compartment metal drawer

 <b>IBS, Inc.</b> <small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR (800) 578-1906 • www.industrialbolt.com</small>		<b>Fender Washer</b> Assortment No. 320R	
7225 3/16 X 3/4 FENDER WASHER ZP 	7232 5/16 X 1-1/2 FENDER WASHER ZP 	7245 1/4 X 1-1/8 HVY DUTY FENDER 	
7227 3/16 X 1-1/4 FENDER WASHER ZP 	7234 3/8 X 1-1/2 FENDER WASHER ZP 	7246 5/16 X 1-1/4 HVY DUTY FENDER 	
7229 1/4 X 1 FENDER WASHER ZP 	7235 1/2 X 2 FENDER WASHER ZP 	7247 3/8 X 2 HVY DUTY FENDER WASHER 	
7230 1/4 X 1-1/4 FENDER WASHER ZP 		7248 1/2 X 2 HVY DUTY FENDER WASHER 	

WASHERS





# IBS, INCORPORATED

## Star Washers C11 & Finishing Washers C13

WASHERS

### Internal & External Tooth Lockwashers (C11)

ZINC CHROMATE PLATING



Internal Tooth			External Tooth		
IBS No.	Size	Qty	IBS No.	Size	Qty
7161	#4	100	7179	#4	100
7162	#6	100	7180	#6	100
7163	#8	100	7181	#8	100
7164	#10	100	7182	#10	100
7165	#12	100	7183	#12	100
7166	1/4	100	7184	1/4	100
7167	5/16	100	7185	5/16	100
7168	3/8	100	7186	3/8	100
7169	7/16	100	7187	7/16	100
7170	1/2	100	7188	1/2	100
7171	9/16	100	7189	9/16	100
7172	5/8	100	7190	5/8	100
7173	3/4	100	7191	3/4	100
			7175A	1-1/8	100

### Finishing Washers (C13)

Countersunk Type



- Brass washer resists corrosion indefinitely.
- Nickel plating gives attractive finish.

IBS No.	Size	O.D.	Qty	IBS No.	Size	O.D.	Qty
				7200	#10	19/32	100
7198	#6	7/16	100	7201	#12	11/16	100
7199	#8	17/32	100	7202	#14	11/16	100

### Back-Up Washers (W01)

ALUMINUM ROUND

Back-Up Washers are .056" thick for use when fastening soft materials or to compensate for oversize holes where access to both sides of the work is possible.



IBS No.	Size	Dia.	Thick	Qty
AS-8	1/8	3/8	.056	100
AS-9	5/32	7/16	.056	100
AS-10	3/16	1/2	.056	100

### Internal & External Star Washer Assortment

IBS No. 797R • 24 Items - 700 Pieces

Arranged in a Locking Steel Drawer for Easy Storage & Organization

**Internal and External Star Washers**  
Assortment No. 797R

7162 #6 STAR WASHER INTERNAL ZP 	7163 #8 STAR WASHER INTERNAL ZP 	7164 #10 STAR WASH INTERNAL ZP 	7165 #12 STAR WASHER INTERNAL ZP 	7166 1/4 STAR WASHER INTERNAL ZP 	7167 5/16 STAR WASHER INTERNAL ZP 
7168 3/8 STAR WASHER INTERNAL ZP 	7169 7/16 STAR WASHER INTERNAL ZP 	7170 1/2 STAR WASHER INTERNAL ZP 	7171 9/16 STAR WASHER INTERNAL ZP 	7172 5/8 STAR WASHER INTERNAL ZP 	7173 3/4 STAR WASHER INTERNAL ZP 
7180 #6 STAR WASHER EXTERNAL ZP 	7181 #8 STAR WASHER EXTERNAL ZP 	7182 #10 STAR WASHER EXTERNAL ZP 	7183 #12 STAR WASHER EXTERNAL ZP 	7184 1/4 STAR WASHER EXTERNAL ZP 	7185 5/16 STAR WASHER EXTERNAL ZP 
7186 3/8 STAR WASHER EXTERNAL ZP 	7187 7/16 STAR WASHER EXTERNAL ZP 	7188 1/2 STAR WASHER EXTERNAL ZP 	7189 9/16 STAR WASHER EXTERNAL ZP 	7190 5/8 STAR WASHER EXTERNAL ZP 	7191 3/4 STAR WASHER EXTERNAL ZP 





### Automotive Fasteners X05

#### Copper Washers



IBS No.	Size	O.D.	Thick	Qty
D-725-001	1/4	5/8	1/16	50
D-725-002	5/16	11/16	1/16	50
D-725-003	3/8	3/4	1/16	50
D-725-004	7/16	13/16	1/16	50
D-725-005	1/2	7/8	1/16	50
D-725-011	1/4	7/16	1/16	50
D-725-012	5/16	1/2	1/32	50
D-725-013	3/8	9/16	1/32	50
D-725-014	7/16	5/8	1/32	50
D-725-015	1/2	11/16	1/32	50

#### Drain Plug Gaskets




IBS No.	Size	O.D.	Thick	Material	Qty
D-095-001	1/2	3/4	3/32	Copper	25
D-095-002	5/8	1	3/32	Copper	25

### Copper Washer Assortment











IBS No. 160R • 10 Items - 150 Pcs

Arranged in a Locking Steel Drawer for Easy Storage & Organization



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**Copper Washers**  
Assortment No. 160R

D-725-001 1/4ID X 5/8OD COPPER WASHER 	D-725-002 5/16ID X 11/16OD COPPER WASHER 	D-725-003 3/8ID X 3/4OD COPPER WASHER 
D-725-004 7/16ID X 13/16OD COPPER WASHER 	D-725-005 1/2ID X 7/8OD COPPER WASHER 	
D-725-011 1/4ID X 7/16OD COPPER WASHER 	D-725-012 5/16ID X 1/2OD COPPER WASHER 	D-725-013 3/8ID X 9/16OD COPPER WASHER 
D-725-014 7/16ID X 5/8OD COPPER WASHER 	D-725-015 1/2ID X 11/16OD COPPER WASHER 	

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