

CLAMPS

SLOTTED HEX HEAD HOSE CLAMPS

- Exceeds SAE requirements.
- Heavy duty four-piece, Quadra-lok construction.
- Band made of grade 300 series stainless steel.
- Controlled electronic welding of housing to band provides extra strength.
- Shouldered 5/16" slotted hex head screw is made of carbon steel, which is double-plated for excellent corrosion resistance.
- For large hose sizes, assemble clamps in tandem to obtain required size.



PART No.	SIZE No.	EFFECTIVE RANGE		BAND WIDTH	QTY.
		MIN. DIAMETER	MAX. DIAMETER		
72478	6	7/16	25/32	1/2	25
72300	8	1/2	29/32	1/2	25
72301	10	9/16	1-1/16	1/2	25
72302	12	11/16	1-1/4	1/2	25
72303	16	13/16	1-1/2	1/2	25
72304	20	13/16	1-3/4	1/2	25
72305	24	1-1/16	2"	1/2	10
72306	28	1-5/16	2-1/4	1/2	10
72307	32	1-9/16	2-1/2	1/2	10
72308	36	1-13/16	2-3/4	1/2	10
72309	40	2-1/16	3"	1/2	10
72310	44	2-5/16	3-1/4	1/2	10
72311	48	2-9/16	3-1/2	1/2	10
72312	52	2-13/16	3-3/4	1/2	10
72313	56	3-1/16	4"	1/2	10
72315	60	3-5/16	4-1/4	1/2	10
72316	64	3-9/16	4-1/2	1/2	10
72317	72	1-7/8	5"	1/2	10
72318	80	2-1/2	5-1/2	1/2	10
72319	96	3-5/8	6-1/2	1/2	10
72324	104	4-1/8	7"	1/2	10
72397	128	5-5/8	8-1/2	1/2	10
72399	188	9-3/8	12-1/4	1/2	10



ALL STAINLESS STEEL HOSE CLAMPS

- High corrosion-resistant stainless steel clamps necessary for marine, underground and other high corrosion applications.
- Band and house 300 series stainless steel.
- 305 stainless steel screw.



PART No.	SIZE No.	EFFECTIVE RANGE		BAND WIDTH	QTY.
		MIN. DIAMETER	MAX. DIAMETER		
72450	4	7/32	5/8	5/16	25
72451	6	7/16	25/32	5/16	25
72452	8	1/2	29/32	1/2	25
72453	10	9/16	1-1/16	1/2	25
72454	12	11/16	1-1/4	1/2	25
72455	16	13/16	1-1/2	1/2	25
72456	20	13/16	1-3/4	1/2	25
72457	24	1-1/16	2"	1/2	10
72458	28	1-5/16	2-1/4	1/2	10
72459	32	1-9/16	2-1/2	1/2	10
72460	36	1-13/16	2-3/4	1/2	10
72461	40	2-1/16	3"	1/2	10
72462	44	2-5/16	3-1/4	1/2	10
72463	48	2-9/16	3-1/2	1/2	10
72464	52	2-13/16	3-3/4	1/2	10
72465	56	3-1/16	4"	1/2	10
72466	60	3-5/16	4-1/4	1/2	10
72467	64	3-9/16	4-1/2	1/2	10
72468	72	1-7/8	5"	1/2	5
72469	80	2-1/2	5-1/2	1/2	5
72471	96	3-5/8	6-1/2	1/2	5
72472	104	4-1/8	7"	1/2	5



MINIATURE CLAMPS

- Lightweight, streamlined clamp is generally used in small diameter applications such as air and fuel lines.
- Streamlined design allows for installation in tight fitting or difficult to reach areas.
- Creates high sealing pressure with 10 to 15 inches per pound of installation torque.
- Stainless steel band with plated hex screw.
- 5/16" band width.

PART No.	SIZE No.	EFFECTIVE RANGE		QTY.
		MIN. DIAMETER	MAX. DIAMETER	
72314	4	7/32	5/8	25
72299	6	7/16	25/32	25
72380	8	1/2	15/16	25
72381	10	9/16	1-1/16	25
72382	12	11/16	1-1/4	25
72383	16	15/16	1-1/2	25
72384	20	1-3/16	1-3/4	25
72385	24	1-7/16	2"	25



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LINED HOSE CLAMPS

- Specifically designed to prevent damage to silicone rubber hose and other soft hoses under tightening loads, while providing full sealing efficiency.
- A worm drive clamp is combined with a stainless steel liner, preventing both extrusion and shearing through the band notches.
- Stainless steel band with plated hex screw.
- 9/16" band width, except Part No. 72337 is 1/2".



PART No.	SIZE No.	EFFECTIVE RANGE			PART No.	SIZE No.	EFFECTIVE RANGE		QTY.
		MIN. DIA.	MAX. DIA.	QTY.			MIN. DIA.	MAX. DIA.	
72329	6	7/16	25/32	25	72340	44	2-5/16	3-1/4	10
72330	8	1/2	29/32	25	72341	48	2-9/16	3-1/2	10
72331	10	9/16	1-1/16	25	72342	52	2-13/16	3-3/4	10
72332	12	11/16	1-1/4	25	72343	56	3-1/16	4"	10
72333	16	13/16	1-1/2	25	72345	60	3-5/16	4-1/4	10
72334	20	13/16	1-3/4	25	72344	64	3-9/16	4-1/2	10
72335	24	1-3/16	2"	25	72346	72	4-1/8	5"	10
72336	28	1-5/16	2-1/4	25	72347	80	4-5/8	5-1/2	10
72337	32	1-9/16	2-1/2	25	72348	88	5-1/8	6"	10
72338	36	1-13/16	2-3/4	25	72350	96	5-5/8	6-1/2	10
72339	40	2-1/16	3"	10	72349	104	6-1/8	7"	10

HI-TORQUE HOSE CLAMPS

- Guaranteed to withstand more than three times the SAE standard torque requirements for worm drive clamps.
- All 304 stainless steel band and housing with 410 stainless screw.
- 5/8" wide band.

PART No.	EFFECTIVE RANGE		QTY.
	MIN. DIAMETER	MAX. DIAMETER	
72321	1-1/4	2-5/8	10
72322	2-1/8	4-1/8	10
72323	4"	6-1/8	10
72352	6-1/8	9-1/2	5



HOSE CLAMP DRIVER WITH FLEX SHAFT

- Flexible shaft allows for 90° access.
- Reversible socket fits both 1/4" and 5/16" hex heads.
- Socket fits mini and standard hose clamp screw heads.
- No-slip grip.

PART No.	QTY.
72360	1



PERSONAL CUSTOMER SERVICE / SAME DAY SHIPPING / NO RISK GUARANTEE



CLAMPS

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CONSTANT TORQUE CLAMPS

- A revolutionary new clamp that reacts to changes in hose systems by actually increasing or decreasing its own diameter as the system expands or contracts.
- Eliminates coolant loss due to cold flow leakage, and greatly minimizes clamp maintenance.
- Automatically adjusts to operational or environmental temperatures.
- Used on all radiator, silicone heater, and air charged after-cooler hose connections.
- Each clamp contains a visual torque check to ensure proper torque.
- Solid stainless steel clamp assembly.
- Used by most OEMs.



The "CT" clamp is installed correctly as shown above, when the screw tip "A" ("Torque Check") is extended beyond the housing and the bellville washer stacks are nearly collapsed flat.

PART No.	CROSS REF.	BAND WIDTH	CLAMP DIAMETER		INSTALLATION TORQUE MAX.	(A) SCREW TIP EXTENSION	QTY.
			MIN.	MAX.			
72370	CT9410	9/16	9/16	1-1/16	30 - 70 inch lb	3/16	5
72371	CT9412	9/16	11/16	1-1/4	30 - 70 inch lb	3/16	5
72372	CT9416	9/16	13/16	1-1/2	30 - 70 inch lb	3/16	5
72373	CT9420	9/16	13/16	1-3/4	30 - 70 inch lb	3/16	5
72374	CT9424	9/16	1-1/16	2"	30 - 70 inch lb	3/16	5
72362	CT9428	9/16	1-5/16	2-1/4	30 - 70 inch lb	3/16	5
72363	CT9452	9/16	3-3/4	2-13/16	30 - 70 inch lb	3/16	5
72375	CT175L	5/8	1"	1-3/4	50 - 125 inch lb	1/4	5
72376	CT200L	5/8	1-1/4	2-1/8	50 - 125 inch lb	1/4	5
72377	CT250L	5/8	1-3/4	2-5/8	50 - 125 inch lb	1/4	5
72378	CT300L	5/8	2-1/4	3-1/8	50 - 125 inch lb	1/4	5
72379	CT350L	5/8	2-3/4	3-5/8	50 - 125 inch lb	1/4	5
72364	CT400L	5/8	3-1/4	4-1/8	50 - 125 inch lb	1/4	5
72392	CT450L	5/8	3-3/4	4-5/8	50 - 125 inch lb	1/4	5
72393	CT500L	5/8	4-1/4	5-1/8	50 - 125 inch lb	1/4	5
72367	CT550L	5/8	4-3/4	5-5/8	50 - 100 inch lb	1/4	5
72368	CT600L	5/8	5-1/4	6-1/8	50 - 100 inch lb	1/4	5
72369	CT650L	5/8	5-3/4	6-5/8	50 - 125 inch lb	1/4	5

GATES® SHRINK POWERGRIP™ CLAMPS

- PowerGrip™ SB clamps "shrink to fit."
- Ideal for all applications, with unsurpassed sealability on all types of coolant hoses—even silicone.
- Unlike other clamps, they maintain a dynamic tension so you never need to re-tighten them.



PART No.	CROSS REF.	GATES No.	NOMINAL HOSE I.D.	HOSE OUTSIDE DIAMETER		PKG QTY.
				MIN.	MAX.	
72815	SB15	32915	1/4	1/2	11/16	5
72819	SB19	32919	3/8	11/16	13/16	5
72822	SB22	32922	1/2	13/16	15/16	5
72825	SB25	32925	5/8	15/16	1-1/16	5
72829	SB29	32929	3/4	1-1/16	1-3/16	5
72834	SB34	32934	1"	1-3/16	1-1/2	5
72841	SB41	32941	1-1/4	1-1/2	1-3/4	5
72848	SB48	32948	1-1/2	1-3/4	2"	5
72854	SB54	32954	1-3/4	2"	2-1/4	5
72860	SB60	32960	2"	2-1/4	2-1/2	5
72867	SB67	32967	2-1/4	2-1/2	2-3/4	5
72873	SB73	32973	2-1/2	2-3/4	3"	5
72879	SB79	32979	2-3/4	3"	3-1/4	5
72886	SB86	32986	3"	3-1/4	3-1/2	5
72890	SB90	32990	3-1/8	3-1/2	3-5/8	5

Note: To ensure correct clamp selection, measure the hose outer diameter with hose installed on stem.

GATES® SB CLAMP TOOL

PART No.	DESCRIPTION	QTY.
72814	Heavy-Duty Removal Tool	1



T-BOLT CLAMPS

- For heavy-duty vehicle, construction, military and commercial use.
- Diameter adjustment range is 5/16" minimum to maximum.
- 1/4–28 UNF x 2-3/4" long steel plated bolts are standard.
- Carbon steel plated washer and hex nut with nylon insert.
- 3/4" wide x .025" thick 300 series stainless steel heavy-duty band material.

SPRING-LOADED T-BOLT CLAMPS

- Heavy-duty spring.
- Torque to 60 in-lb.



PART No.	DIAMETER		QTY.
	MIN.	MAX.	
74368	3-1/16	3-3/8	5
74371	3-1/8	3-7/16	5
74375	3-9/16	3-7/8	5
74361	3-11/16	4"	5
74372	3-7/8	4-3/16	5

PART No.	DIAMETER		QTY.
	MIN.	MAX.	
74391	4-1/16	4-3/8	5
74369★	4-1/16	4-3/8	5
74373	4-1/8	4-7/16	5
74376	4-9/16	4-7/8	5
74374	6-3/8	6-11/16	5

★ Small Spring



T-BOLT CLAMPS WITHOUT SPRING

PART No.	DIAMETER		QTY.
	MIN.	MAX.	
74362	1-1/4	1-25/64	5
74363	1-1/2	1-11/16	5
74364	2"	2-5/16	5
74365	2-1/4	2-9/16	5
74366	2-5/8	2-15/16	5
74377	2-1/2	2-13/16	5
74378	2-3/4	3-1/16	5
74379	3"	3-5/16	5
74380	3-1/4	3-9/16	5
74370	3-7/16	3-3/4	5

PART No.	DIAMETER		QTY.
	MIN.	MAX.	
74367	3-1/2	3-13/16	5
74381	3-3/4	4-1/16	5
74389	4"	4-5/16	5
74382	4-1/4	4-9/16	5
74383	4-3/4	5-1/16	5
74384	5-1/4	5-9/16	5
74385	5-3/4	6-1/16	5
74386	6-1/4	6-3/4	5
74388	7-1/4	7-3/4	5
74390	8-1/2	9"	5

EURO STYLE CLAMP

- Plated hex screw.
- 430 Stainless steel bands.
- Features an "Outrigger" support that prevents clamp tilting when tightening.
- No edge pressure prevents hose damage or gouging.
- Band is embossed, smoothed off and has raised edges to prevent damage.
- Applications: coolant lines, fuel lines, oil lines, water and hose connections in automotive and commercial vehicles



PART No.	INDUSTRY No.	BAND WIDTH	HEX SCREW	CLAMP RANGE	CLAMP RANGE	QTY.
73681	1	7.5mm	6mm	5/16 - 1/2	8 - 12mm	25
73682	2	7.5mm	6mm	5/16 - 5/8	8 - 16mm	25
73683	2	9mm	7mm	5/16 - 5/8	8 - 16mm	25
73684	4	9mm	7mm	1/2 - 3/4	12 - 20mm	25
73685	8	9mm	7mm	5/8 - 11/16	16 - 27mm	25
73686	12	9mm	7mm	3/4 - 1-1/4	20 - 32mm	25
73687	18	9mm	7mm	1 - 1-5/8	25 - 40mm	25
73688	18	9mm	7mm	1.181 - 1.574	30 - 45mm	25
73689	24	9mm	7mm	1-1/4 - 2"	32 - 50mm	25
73690	30	9mm	7mm	1-5/8 - 2-3/8	40 - 60mm	25
73691	36	9mm	7mm	2" - 2-3/4	50 - 70mm	25
73692	42	9mm	7mm	2-3/8 - 3-1/8	60 - 80mm	25
73693	48	9mm	7mm	2-3/4 - 3-1/2	70 - 90mm	25
73694	56	9mm	7mm	3-1/8 - 4"	80 - 100mm	25

CLAMPS

CONSTANT TENSION CLAMP

- Made of SAE 1074 - material code ST.
- Finish: Zinc-rich paint
- Conforms to SAE specification J1508.

PART No.	CLAMP RANGE	QTY.
69966	25.2mm to 28.9mm	50
69967	23.5mm to 26.8mm	50
69968	27.0mm to 31.5mm	50
69969	31.5mm to 38.0mm	50



SPRING ACTION HOSE CLAMP

- Heat treated, spring steel.

PART No.	HOSE OUTSIDE DIAMETER	WIDTH	MAXIMUM DIAMETER	QTY.
72361	5/8	5/16	0.583	100
72365	1/2	5/16	0.460	100
72366	3/4	5/16	0.645	100



FUEL LINE CLAMPS

- Fits all standard automotive fuel injection hose.
- Approved for all OEM applications.

PART No.	HOSE OUTSIDE DIAMETER	MAXIMUM HOSE DIAMETER		QTY.
		CLAMP RANGE	CLAMP RANGE	
72490	1/4	13/32-31/64	10-13 mm	20
72491	5/16	7/16-39/64	12.5-15.5 mm	20
72492	3/8	15/32-41/64	13.5-16.5 mm	20



NYLON CABLE CLAMPS

- Use with #10 screw.

PART No.	I.D.	BAND WIDTH	QTY.
75060	1/4	3/8	50
75068	3/16	1/2	50
75061	5/16	1/2	50
75062	3/8	1/2	50
75063	1/2	1/2	50
75064	5/8	1/2	25
75064-4	5/8	1/2	250
75065	3/4	1/2	25
75066	1"	1/2	25
75066-4	1"	1/2	250



CENTER PUNCH CLAMP AND LOCKING TOOL

- Clamp material: Stainless steel
- Portable hand tool applies punch to 3/8" and 5/8" band clamps.

PART No.	DIAMETER	WIDTH	THICKNESS	QTY.
72353	13/16	3/8	.020	10
72354	1-1/2	5/8	.022	10
72355	2-1/2	5/8	.022	5
72356	3"	5/8	.022	5
72357	4"	5/8	.022	5
72358	5"	5/8	.022	5
72351	Tool	—	—	1



#72351

TWO-EAR CLAMPS

- Zinc-plated, carbon steel, SAE 1008/1010.
- Ideal for heavy vibration areas.
- To be used on low or medium pressure hose/tubing.
- Works great in applications requiring rubber hose, plastic tubing, coaxial and electrical cable, rope, shop air hose, fluid, gas, or steam lines.
- One piece design offers a positive, tamper proof seal without damaging the hose.



PART No.	MAXIMUM HOSE DIAMETER		QTY.
	CLAMP RANGE	BAND WIDTH	
69972	.118-.197"	.197"	25
69973	.197-.276"	.236"	25
69974	.276-.354"	.276"	25
69975	.315-.433"	.276"	25
69976	.433-.512"	.276"	25
69977	.512-.591"	.295"	25
69979	.591-.709"	.315"	25
69980	.669-.787"	.335"	25
69982	.787-.906"	.354"	25
69983	.866-.984"	.394"	25
69984	.906-1.063"	.394"	25
69986	1.457-1.575"	.394"	25
69989	1.693-1.811"	.394"	25
69992	Pincer = standard jaw		1
69993	Pincer = side jaw		1



#69992

#69993

SINGLE EAR CRIMP CLAMP WITH INSERT

- Fast, simple and safe installation.
- Specially formed strip edges reduce the risk of damage to the part being clamped.
- Tampering is visible - Low profile.
- Curled insert bridges the gap below the clamp ear and thus provides an effective all around seal.
- Material: Stainless steel



PART No.	SIZE	BAND WIDTH	CLAMP RANGE	QTY.
70534	M7	6.4 mm	5.6-6.5 mm	25
70535	M8	6.4 mm	6.3-7.5 mm	25
70536	M9	7.4 mm	7.0-8.5 mm	25
70537	M10	7.4 mm	8.0-9.5 mm	25
70539	M7.4	12.3 mm	9.8-11.8 mm	25
70540	M8.2	13.8 mm	11.1-13.1 mm	25
70542	M8.2	15.5 mm	12.8-14.8 mm	25
70544	M8.2	17.5 mm	14.6-16.8 mm	25

MAKE-A-CLAMP®

- Make any size stainless steel clamp you need, 2" diameter and up.
- Use for all conventional worm-drive clamp applications as well as for mounting, securing, strapping, clamping and positioning.
- Superior to "crimp/buckle" banding and strapping products.
- 1/2" band.

PART No.	DESCRIPTION	QTY.
72325	Kit: (50') Band, (10) fasteners	1
72326	Fasteners	10
72327	(100') Band	1
72328	(50') Band	1



CLAMPS

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RUBBERIZED TUBE CLAMPS (VINYL COATED)

- Coating of 1/32" glossy black vinyl fused to zinc-plated metal in permanent bond.
- The coating prevents abrasion and provides excellent resistance to chemical action from water, detergents, gasoline, oil, grease, strong alkalis, acids and many other substances.



PART No.	CLAMP SIZE	MOUNTING HOLE	QTY.
75075	1/4	1/4	100
75075-2	1/4	1/4	25
75076	5/16	1/4	100
75076-2	5/16	1/4	25
75078	3/8	1/4	100
75078-2	3/8	1/4	25
75079	1/2	1/4	50
75079-2	1/2	1/4	10
75039	3/16	3/8	100
75039-2	3/16	3/8	25
75040	1/4	3/8	100
75040-2	1/4	3/8	25
75041	5/16	3/8	100
75041-2	5/16	3/8	25

PART No.	CLAMP SIZE	MOUNTING HOLE	QTY.
75042	3/8	3/8	100
75042-2	3/8	3/8	25
75043	1/2	3/8	50
75043-2	1/2	3/8	10
75044	5/8	3/8	25
75044-2	5/8	3/8	10
75086	5/8	1/2	25
75045	3/4	3/8	25
75045-2	3/4	3/8	5
75046	7/8	3/8	25
75046-2	7/8	3/8	5
75047	1"	3/8	25
75047-2	1"	3/8	5
75049	1-1/4	3/8	25

PART No.	CLAMP SIZE	MOUNTING HOLE	QTY.
75049-2	1-1/4	3/8	5
75080	1-1/2	3/8	25
75080-2	1-1/2	3/8	5
75038	1-3/4	13/32	25
75088	2"	9/32	25
75081	2"	3/8	25
75081-2	2"	3/8	5
75048	1/2	17/32	25
75087-2	2"	17/32	5
75056	2-1/4	13/32	10
75085	2-1/2	13/32	20
75090	3"	13/32	5

RUBBER CUSHION CLIP

- Thick rubber cushion reduces vibration and cable wear.
- Metal band is galvanized steel.
- Multiple uses for holding cable, wire, pipe and hose.

PART No.	CLAMP DIAMETER	MOUNTING HOLE SIZE	QTY.
74820	1/4	1/4	25
74821	5/16	1/4	25
74822	3/8	1/4	25
74823	1/2	1/4	25
74824	5/8	1/4	25
74846	5/8	3/8	25
74825	3/4	1/4	25
74847	3/4	3/8	25
74826	7/8	1/4	25
74848	7/8	3/8	25

PART No.	CLAMP DIAMETER	MOUNTING HOLE SIZE	QTY.
74827	1"	1/4	25
74845	1"	3/8	25
74841	1-1/8	3/8	25
74828	1-1/4	1/4	25
74837	1-3/8	1/4	20
74842	1-3/8	3/8	25
74829	1-1/2	1/4	25
74843	1-3/4	3/8	25
74844	1-7/8	3/8	25
74830	2"	1/4	25

PART No.	CLAMP DIAMETER	MOUNTING HOLE SIZE	QTY.
74839	2-1/4	1/4	20
74838	2-3/8	1/4	20
74834	2-3/8	1/4	20
74831	2-1/2	1/4	25
74833	2-1/2	13/32	20
74832	2-15/16	1/4	15
74836	3"	1/4	20
74835	3-9/16	9/16	5



RUBBER CUSHION CLIP FOR TWO TUBES

- Clip holds two 3/4" diameter tubes.
- Zinc-plated, low carbon steel.
- Thick rubber cushion protects tubes.

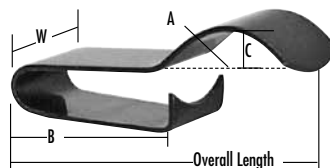
PART No.	CLAMP SIZE	MOUNTING HOLE SIZE	QTY.
74840	3/4	13/32	10



HALF CLIPS

- Zinc plated with black vinyl coating.
- Mounting Hole: .281"

PART No.	CLAMP DIAMETER	QTY.
75165	3/16	25
75166	1/4	25
75167	5/16	25
75168	3/8	25
75169	1/2	25
75170	5/8	25
75171	3/4	25



WIRE FRAME CLIPS

- Spring steel.

PART No.	A (RADIUS)	OVERALL LENGTH	B	C	WIDTH	METAL THICKNESS		QTY.
						MIN.	MAX.	
75058	1/4	1-1/16	.703	3/16	1/2	0.074	0.156	100
75059-1	3/8	1-9/16	.890	7/32	1/2	0.175	0.312	100
75059	3/8	1-5/8	.937	1/4	1/2	0.120	0.175	100

JIFFY CLIPS

- Mounting Hole: .281"
- HD Galvanized Steel.

PART No.	WIDTH	CLAMP SIZE	QTY.
75050	1/2	1/4	100
75051	1/2	5/16	100
75052	5/8	3/8	100
75053	5/8	1/2	50
75054	5/8	5/8	25
75055	5/8	3/4	25



CLAMPS

KWIK STIK CLIPS

- No holes to drill, no screws to fasten.
- Holds firmly on wood, plastic, metal, plaster, and other similar materials.
- Elastic enough to insert cable, wire hose, etc.
- For permanent or temporary installation.

PART No.	SIZE	STYLE	QTY.
75072	1/4	U	50
75073	3/8	U	50
75074	1/2	U	50
75082	1/4	C	50
75083	3/8	C	50
75084	1/2	C	50
75094	1/2	L	50



Style U



Style C



Style L

BEAM FLANGE FASTENER

- For 1/8" to 1/4" flange thickness.
- Zinc plated and dichromate finished.

PART No.	QTY.
37011	25
37011-4	100



HANGER IRON

- Can be nailed or bolted.
- Non-cutting edge for safer handling.
- Fast application, 3/4" wide.
- 20 gauge plated steel.

PART No.	SIZE	QTY.
71450	50' roll	1

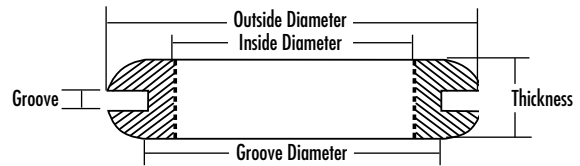


B5

GROMMETS

FIRE WALL GROMMETS

- Rounded corner-type rubber grommets.
- Fire wall grommets mount securely to the fire wall and lock on to the wire that passes through the bushing.
- 55 durometer.
- Buna-N.



PART No.	INSIDE DIAMETER	GROOVE	GROOVE DIAMETER	OUTSIDE DIAMETER	THICKNESS	QTY.
9070	1/8	1/16	3/16	11/32	3/16	25
9071	3/16	1/16	3/16	1/2	1/4	25
9072	1/4	1/32	5/16	1/2	3/16	25
9073	5/16	1/16	1/2	5/8	1/4	25
9090	3/8	1/16	1/2	5/8	1/4	25
9074	3/8	3/32	1/2	13/16	3/8	25
9091	3/8	1/4	1/2	3/4	1/2	25
9075	7/16	1/16	9/16	3/4	1/4	25
9076	1/2	3/32	3/4	1"	9/32	25
9082	1/2	1/4	13/16	1-1/16	1/2	25
9077	5/8	1/8	7/8	1-1/8	3/8	25

PART No.	INSIDE DIAMETER	GROOVE	GROOVE DIAMETER	OUTSIDE DIAMETER	THICKNESS	QTY.
9083	11/16	1/8	1"	1-5/16	7/16	25
9078	3/4	3/32	15/16	2-1/8	5/16	25
9088	3/4	1/8	1-1/16	1-3/8	7/16	25
9089	3/4	1/4	1-1/16	1-3/8	9/16	25
9079	7/8	1/16	1-1/4	1-5/8	7/16	25
9084	7/8	1/8	1-1/4	1-5/8	1/2	25
9080	1"	3/32	1-3/8	1-3/4	3/8	25
9081	1-1/4	1/8	1-1/2	1-7/8	13/32	25
9085	1-1/2	1/8	1-3/4	2-1/8	1/2	25
9087	1-1/2	1/4	1-3/4	2-1/8	5/8	25
9086	2-1/8	1/8	2-1/2	2-7/8	7/16	25

BLANKING GROMMET

- Black rubber grommet.



PART No.	SLOT OUTER DIAMETER	SLOT HEIGHT	STEM DIAMETER	STEM HEIGHT	BASE DIAMETER	HEIGHT	QTY.
9095	.312	.094	.437	.140	.625	.359	25

WIRING GROMMET

- Black rubber grommet.



PART No.	OVERALL HEIGHT	OVERALL DIAMETER	STEM DIAMETER	STEM HEIGHT	BORE DIAMETER	QTY.
9094	.687	1.062	.562	.437	.390	25

NYLON INSULATING BUSHING

- Designed to protect wires, cables and tubing from rough panel edges.
- Employs multiple lock features that snap into place on panels, ranging from 1/32" to 1/8" thick.



PART No.	INSIDE DIAMETER	HEAD DIAMETER	THICKNESS	PANEL HOLE DIAMETER	QTY.
70197	49/64	1-1/8	9/16	1	100
70200	1-5/16	1-39/64	29/64	1-1/2	100

If you can't find the products you are looking for, call us, and we will find it for you.



GREASE FITTINGS

B6

STANDARD GREASE FITTINGS

- For use with hand grease guns only.
- Wider selection of sizes for multiple applications.
- "Armor-hard" for scratch resistance and longer life.
- Flat top with dirt cutting edge bites through dirt and old grease instantly.
- For use in low pressure applications.



1/8 PIPE THREAD	PART No.	DESCRIPTION	QTY.	1/4-28 TAPER THREAD	PART No.	DESCRIPTION	QTY.	1/4 PIPE THREAD	PART No.	DESCRIPTION	QTY.
	72100	Straight	50		72103	Straight/Short Overall Length: 9/16"	50		72119	Straight	10
	72101	45°	50		72104	Straight/Long Overall Length: 21/32"	50		72120	67-1/2°	10
	72102	90°	50		72117	Straight/Extra Long Overall Length: 15/16"	50				
	72107	67-1/2°	50		72106	90°	50				
	72108	30°	50		72122	90° Long	50				
	72110	Straight x 1-3/4 Long	25		72105	45°	50				
	72111	Straight x 1-1/4 Long	25								

See pages B7 and B8 for Heavy Duty Grease Fittings.

DRIVE STYLE GREASE FITTINGS

- Use with hand grease guns only.
- Flat top with dirt cutting edge bites through dirt and old grease.
- "Armor-hard" for scratch resistance and longer life.
- Not for use with pneumatic tools.
- Use installation tool #72118.

STYLE	PART No.	SIZE	QTY.
	72113	3/16	25
	72114	1/4	25
	72115	5/16	25

GREASE FITTINGS WITH SELF-FORMING THREADS

- Specially formed hardened threads allow fittings to be screwed into a plain hole eliminating the tapping operation.
- To replace, just screw out old fitting and screw in new one with a standard thread.

STYLE	PART No.	THREAD	STYLE	NOMINAL HOLE SIZE*	HEX	QTY.
	72531	1/4-28 Special Taper	Straight	.236	5/16	25
	72536	1/8-27 Special Taper	Straight	.375	7/16	25
	72532	1/4-28 Special Taper	45°	.236	3/8	25
	72533	1/4-28 Special Taper	90°	.236	3/8	25

* Actual hole size will depend on the nature of the material.

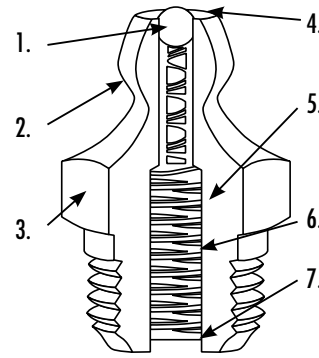
Note: Pictures of Grease Fittings are not actual size.



GREASE FITTINGS






HEAVY-DUTY GREASE FITTINGS





1. Instant identification.
2. Greater convenience—better seal design of tip gives more working angle, up to 35°. No ridges; coupler won't slip off in tight quarters.
3. Longer life—all Imperial fittings are "armor-hard", so they last longer and resist nicks and scratches. No distortion under high pressure, always a perfect seal.
4. Cleaner—flat top with dirt-cutting edge bites through dirt and old grease instantly.
5. Greater strength—extra thick wall construction gives unequalled strength and withstands hard field service.
6. Faster lubricant flow—finest quality music wire spring has special conical design for free flow. Will not clog with sudden surge of pressure.
7. Greater safety—exclusive electro-crimping process secures ball and spring with hardened, extra heavy crimp. No cracks or failures.





B7




1/8 PIPE THREAD	PART No.	DESCRIPTION	QTY.
	72100-3	Straight	50
	72101-3	45°	50
	72102-3	90°	50
	72107-3	67-1/2°	50
	72108-3	30°	50

1/4-28 TAPER THREAD	PART No.	DESCRIPTION	QTY.
	72103-3	Straight/Short	50
	72104-3	Straight/ 11/16" Long	50
	72105-3	45°	50
	72106-3	90°	50

Cut costs by reducing your vendors. Imperial's Specialty Programs can help.

1/4 PIPE THREAD	PART No.	DESCRIPTION	QTY.
	72119-3	Pipe Thread	10
	72120-3	67-1/2°	10

5/16-24 UNF THREAD	PART No.	DESCRIPTION	QTY.
	72535	Straight	25



*Justin
Pricing Analyst*

Driven...

"I understand downtime. I understand what it costs. And I do everything I possibly can to prevent it."



GREASE FITTINGS

B8

ACTUAL SIZE DIAMETERS

6 mm



8 mm












10 mm



HEAVY-DUTY METRIC GREASE FITTINGS



- Resists leakage.
- Fast sealing tapered threads.
- Instant release shoulder.

STYLE	PART No.	DESCRIPTION	QTY.
	14600-3	Straight, 6 mm x 1.0P	25
	14604-3	Straight, 8 mm x 1.0P	25
	14606-3	Straight, 10 mm x 1.0P	25
	14610-3	45°, 6 mm x 1.0P	25
	14614-3	45°, 8 mm x 1.0P	25
	14616-3	45°, 10 mm x 1.0P	25
	14620-3	90°, 6 mm x 1.0P	25
	14624-3	90°, 8 mm x 1.0P	25
	14626-3	90°, 10 mm x 1.0P	25


BUTTONHEAD GREASE FITTINGS

- Provides utmost resistance against high and low back-pressure leakage.
- Ball cavity and spring design provide maximum dirt and chip clearance.
- Designed to deliver a high volume of grease.



1/8 PIPE THREAD	PART No.	DESCRIPTION	QTY.
	72116	1/8" x 27	25
	72123	1/4" NPT	25

FEMALE THREADED STANDARD GREASE FITTING

1/8 NPT STYLE	PART No.	DESCRIPTION	QTY.
	14631	Straight	10

DRIVE TYPE GREASE FITTING INSTALLATION TOOL

- Use with Drive Fittings, Part No. 72113, 72114 and 72115.



PART No.	QTY.
72118	2

GREASE FITTINGS INSTALLATION AND REMOVAL TOOL

- All-in-one tool installs new straight and angle-type fittings, re-threads holes and removes straight, angle-type, or old pin-type broken fittings.



PART No.	SIZE	DESCRIPTION	REMOVES	QTY.
72598	Small	1/4"-28 threads	5/16 & 3/8	1
72599	Large	1/8 NPT threads	7/16	1

GREASE CAPS

- Caps snap securely over the fitting to seal out dirt and moisture.
- Integral retaining ring keeps the cap in place during service.
- Works on most brake bleeder screws.



PART No.	QTY.
1060	50

Experience our dedicated customer service.

GREASE GUNS

GREASE GUN

- Can fill with standard cartridges or bulk filled.
- Outputs 5.2 oz (150 g) of grease per 100 strokes.
- Contoured lever: Develops more pressure with less effort
- Complete with hardened four-jaw hydraulic coupler with ball check and non-drip cap.

PART No.	DESCRIPTION	QTY.
72566	Grease Gun with 6" (150 mm) Extension Pipe	1



PROFESSIONAL LEVER ACTION GREASE GUN

- Develops up to 10,000 psi (690 bar).
- Can fill with standard cartridges, suction, or bulk filled.
- Equipped with air bleeder valve to vent air pockets and filler nipple with ball check for use with grease filler pump.
- Complete with hardened four-jaw, hydraulic coupler with ball check, non-drip cap.

PART No.	DESCRIPTION	QTY.
72561	Grease Gun 6" (150 mm) Extension Pipe	1



GREASE GUNS

B9

PISTOL GRIP GREASE GUN

- Four-jaw coupler.
- One piece, zinc die-cast body.
- Working Pressure: 6,000 psi
- Uses standard 14 oz cartridge, or use the filler nipple for loading from bulk supply.

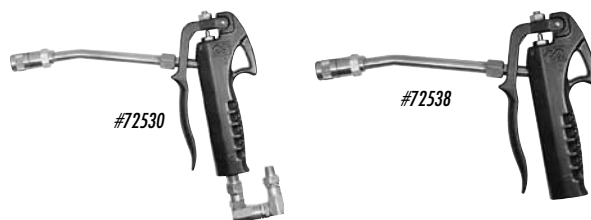
PART No.	DESCRIPTION	QTY.
72502	Pistol Grip Grease Gun	1
72562	12" flex hose	1



HIGH PRESSURE GREASE GUN

- For use with high pressure grease systems (7,125 psi).
- Solid steel and aluminum handle.
- Press trigger to obtain continuous grease flow.
- Grease inlet accepts 1/4" NPTM thread.

PART No.	DESCRIPTION	QTY.
72530	Swivel 1/4 NPT (M) x 1/2-27 (M)	1
72538	No Swivel	1
72513	Swivel 1/4 NPT (F) x 1/8 NPT (M)	1
72539	Swivel 1/4 NPT (F) x 1/4 NPT (M)	1



MINI PISTOL GRIP GREASE GUN

- Compact and lightweight.
- Pistol grip for easy, one-handed operation.
- Perfect for hard to reach jobs.
- Heavy-duty special LuCast™ cast alloy head.
- Can fill with standard cartridges or bulk fill.
- Outputs 1.5 oz (43 g) of grease per 100 strokes.
- Contoured lever develops more pressure with less effort.
- Ergonomically designed T-handle provides positive grip.
- Non-drip seal on grease coupler to prevent leakage.
- Extension Pipe: 4"

PART No.	DESCRIPTION	QTY.
72515	Grease Gun with 4" extension pipe and 3 oz Cartridge	1
6637	3 oz Lithium Grease Cartridge	3



GREASE GUN WITH 18" FLEX HOSE

- Develops up to 7,000 psi (480 Bar).
- Equipped with air bleeder valve to release trapped air.
- Filler nipple with ball check for use with grease filler pump.
- Complete with hardened four-jaw hydraulic couplers with ball check and non-drip cap.
- Extension Pipe: 4" (100 mm)

PART No.	DESCRIPTION	QTY.
72542	Grease Gun with 18" Flex Hose and 4" Extension Pipe	1



AIR OPERATED GREASE GUN

- Output 3.5 oz of grease per 100 strokes.
- Can fill with standard cartridge, suction, bulk fill.
- 1/4" NPT inlet, 1/8" NPT outlet.
- Working air pressure is 60–90 psi.
- Maximum operating pressure is 3,000 psi.
- Equipped with air bleeder valve to release trapped air.
- Includes filler nipple with ball check for use with grease filler pump.
- Complete with four-jaw hydraulic coupler, non-drip cap, and 6" extension pipe.

PART No.	DESCRIPTION	QTY.
72564	1/4" NPT inlet, 1/8" NPT outlet	1



PROFESSIONAL PISTOL GRIP GREASE GUN

- Heavy-duty cast aluminum pump head.
- Three-way loading: bulk, filler nipple, or cartridge.
- Four-jaw super grip coupler for better grip and extended service life.
- Variable stroke allows the user to increase the pressure output on demand.

PART No.	DESCRIPTION	QTY.
72526	Grease Gun with 12" Flexible Extension Pipe	1



GREASE PUMP BEARING PACKER

- Quick connect feature makes different grease transfer jobs, such as filling grease guns or packing bearings, fast and easy.
- Designed for 35 lb pails.
- Includes universal grease gun filler nipple Part No. 72553, to fit all grease gun models.
- Bearing packer holds bearings up to 6" in diameter and includes dust cover.

PART No.	DESCRIPTION	QTY.
72563	Grease Pump Bearing Packer	1



CORDLESS GREASE GUN

- The strongest of any gun available, powered by an 18-volt battery.
- Heavy-duty motor delivers over 7,500 psi.
- Ergonomically balanced to minimize operator strain.
- Kit includes:
 - (1) heavy-duty plastic storage case
 - (2) 18-volt rechargeable NiCad batteries
 - (1) One-hour charger, 42" flexible hose
 - (1) coupler with durable bend restrictors
 - (1) carrying strap
 - (1) easy-to-follow user manual

PART No.	DESCRIPTION	QTY.
72537	Cordless Grease Gun	1



GREASE COUPLERS

B10

BUTTONHEAD COUPLER GREASE FITTING

- Use with buttonhead grease fittings.
- Screws on grease gun hose.

PART No.	FEMALE INLET	QTY.
72509	1/8 NPT	1



HEAVY-DUTY 360° SWIVEL COUPLER GREASE FITTING

- Swivels in a full 360° circle and locks in place.
- 45° angle gives easy access to most grease fittings.
- Includes a standard grease coupler and 1/8" NPT female inlet for easy assembly to standard grease guns.
- For use with air-operated grease guns.

PART No.	WORKING PRESSURE	FEMALE INLET	QTY.
72549	6,000 psi	1/8 NPT	1



360° SWIVEL COUPLER GREASE FITTING

- Swivels in a full 360° circle and locks in place.
- 45° angle gives easy access to most grease fittings.
- Includes a standard grease coupler and 1/8" female inlet for easy assembly to standard grease guns.
- For hand grease gun use only.

PART No.	WORKING PRESSURE	FEMALE INLET	QTY.
72518	4,500	1/8 NPT	1



90° COUPLER GREASE FITTING

- Spring-loaded sleeve locks coupler in place for angular application.
- Complete with small and large quick-disconnect adapters to fit standard couplers.
- Maximum operating pressure: 4,500 psi
- Zinc plated.

PART No.	WORKING PRESSURE	QTY.
72565	3,000 psi	1



180° SWIVEL GREASE COUPLER

- Designed to lock at any angle up to 180°.
- Spring-loaded sleeve locks coupler in place for straight applications or slides back for angular application.
- Corrosion-resistant finish.
- For hand-operated grease guns only.
- Male inlet.

PART No.	OVERALL LENGTH	WORKING PRESSURE	QTY.
72510	4"	3,000 psi	1



Imperial continuously adds new products.

GREASE COUPLERS

PART No.	APPLICATIONS	RATING	THREAD SIZE	JAW	BALL CHECK	DIAMETER	LENGTH	HEX	QTY.
72505	Hand only	4,500 psi	1/8 NPT	4	Yes	.590	1.5	n/a	2
72514	Air/Battery/Hand	5,000 psi	1/8 NPT	4	No	.593	1.5	5/8	2
72506	Air/Battery/Hand	5,000 psi	1/8 NPT	4	Yes	.593	1.5	5/8	2
72608	Air/Battery/Hand	6,000 psi	1/8 NPT	4	Yes	.562	1.5	1/2	2
72508	Air/Battery/Hand	8,000 psi	1/8 NPT	3	Yes	.634	1.92	11/16	2
72609	Air/Battery/Hand	10,000 psi	1/8 NPT	4	No	.589	1.5	N/A	2



#72505 & #72514



#72608 & #72609



#72506 & #72508



Melanie
Customer Service

Empowered...

"I'm personally responsible for getting the right part out the door. If it doesn't get done right, it's on me."

Experience
our dedicated
customer
service.



GREASE HOSE & ACCESSORIES

HIGH PRESSURE GREEN HOSE

- 12" flexible hose assembly with or without adapter.
- Use with air-operated grease gun.
- 1/8" NPT end.

PART No.	DESCRIPTION	WORKING PRESSURE	BURST PRESSURE	QTY.
72511	With Adapter	5,000 psi	20,000 psi	1
72512	Without Adapter	5,000 psi	20,000 psi	1



GREASE HOSE

- For hand-operated grease guns only.
- 1/8" NPT end.

PART No.	LENGTH	WORKING PRESSURE	QTY.
72503	12"	4,500 psi	1
72504	18"	4,500 psi	1



GREASE HOSE WITH SPRING GUARD

- 3/16" neoprene hose.
- 1/8" NPT heavy-duty brass male thread fittings on both ends.
- Spring guard for secure grip on coupler end.

PART No.	LENGTH	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING PRESSURE	MAXIMUM BURST PRESSURE	QTY.
72546	1	4,500 psi	3,000 psi	12,000 psi	12"
72547	1	4,500 psi	3,000 psi	12,000 psi	18"



GREASE INJECTOR NEEDLE

- Lubricates in very tight places, such as universal joints and sealed bearings.
- Stainless steel 18 gauge x 1-1/2" long needle.
- Equipped with standard grease fitting and protective plastic holder.
- For hand-operated grease guns only.

PART No.	QTY.
72545	1



GREASE ADAPTER NEEDLE

- Converts jaw-type lube couplers to steel needle points.
- Includes both small and large sleeves to fit all standard couplers.
- For hand-operated grease guns only.

PART No.	QTY.
72567	1



HIGH PRESSURE SWIVEL COUPLER GREASE FITTING

- Swivel can be used with most air-operated grease guns.
- For use with High Pressure Grease Guns, Part No. 72530 and 72538.

PART No.	WORKING PRESSURE	FEMALE INLET	MALE INLET	QTY.
72513	7,125	1/4 NPT	1/8 NPT	1
72539	7,125	1/4 NPT	1/4 NPT	1



BEARING BUDDY TRAILER WHEEL BEARING PROTECTORS

- Keeps water and dirt out of hubs and bearings.
- Eliminates bearing repacking.
- Quick, positive visual check for lubricant level and internal hub pressure.
- Automatic pressure control feature prevents overfilling and avoids hub seal damage.
- Boat trailer wheels can be safely submerged without damaging bearings.
- Bearing Buddy Bra included for added protection.

PART No.	FITS HUBS	QTY.
72121	1.980	2
72924	2.328	2
72925	2.455	2



Jason
Dedicated Service Advisor

Focused...

"Knowing the everyday issues and demands of the guys in the maintenance shop. That's my job."



NUTSERTS® AND INSTALLATION TOOLS

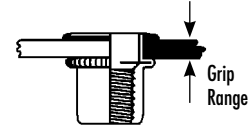
B12

FLANGE KNURL NUTSERTS® AND INSTALLATION TOOLS

- The knurls dig into the material, while the flange is created on the backside.
- Used for adding a threaded nut to material that cannot be reached on the reverse side.
- Primary applications: mounting side mirrors to doors, luggage racks, grab handles, battery trays and license plates to body
- Must be installed using one of the installation tools shown, using the corresponding conversion kit.
- Works with oversize and irregular holes.
- Steel/zinc yellow dichromate plating.



NUTSERTS PART No.	THREAD SIZE	GRIP RANGE	QTY.	DRILL SIZE	IMPERIALLOY DRILL PART No.	H.D. TOOL #6884	NOSE PIECE CONVERSION KIT FOR #6884	STD. TOOL #6886	NOSE PIECE CONVERSION KIT FOR #6886
8850	6 - 32	.020 - .080	50	17/64	80576	Yes	6910	Yes	6889
8851	8 - 32	.020 - .080	50	17/64	80576	Yes	6911	Yes	6891
8852	10 - 24	.020 - .130	50	19/64	80578	Yes	6912	Yes	6892
8853	10 - 32	.020 - .130	50	19/64	80578	Yes	6913	Yes	6893
8854	1/4 - 20	.027 - .165	50	25/64	80584	Yes	6914	Yes	6894
8856 ★	5/16 - 18	.027 - .150	50	17/32	70592	Yes	6916	No	6896
8858 ★	3/8 - 16	.027 - .150	25	17/32	70592	Yes	6918	No	6898
8855	1/4 - 28	.027 - .165	50	25/64	80584	Yes	6915	Yes	6895
8857 ★	5/16 - 24	.027 - .150	50	17/32	70592	Yes	6917	No	6897
8859 ★	3/8 - 24	.027 - .150	25	17/32	70592	Yes	6919	No	6899
8841	M4 - 0.7	.50 - 2.0 mm	25	"H"	81368	Yes	6922	Yes	8831
8842	M5 - 0.8	.50 - 3.3 mm	25	19/64	80578	Yes	6923	Yes	8832
8843	M6 - 1.0	.70 - 4.2 mm	25	25/64	80584	Yes	6924	Yes	8833
8844	M8 - 1.25	.70 - 3.8 mm	25	17/32	76592	Yes	6925	No	8834
8845	M10 - 1.5	.70 - 3.8 mm	25	17/32	70592	Yes	6926	No	N/A



Nutsert® fasteners:

- Strong
- Permanent
- Steel threads

★ Heavy-duty Flange Knurl Nutsert® tool, Part No. 6884 required for installation.

STANDARD TOOL

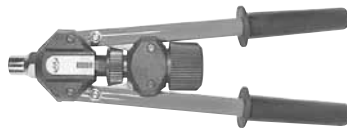
- For field repairs of smaller size nutserts.
- Not recommended to pull over 1/4" sizes.
- Must be used with the corresponding Conversion Kit for the Flange Knurl Nutsert.
- Nose Piece Conversion Kit sold separately, see chart above for part numbers.



PART No.	QTY.
6886	1

HEAVY-DUTY TOOL

- Double action lever.
- Recommended for all sizes.
- Features a visual stroke indicator and spin-off removal knob.
- Must be used with the corresponding conversion kit for the Flange Knurl Nutsert.
- Nose piece conversion kit sold separately, see chart above for part numbers.



PART No.	QTY.
6884	1

CONVERSION/NOSE KIT

- Use with RN series Rivet Nuts.

PART No.	THREAD DIAMETER	RIVET PART No.	INSTALLATION TOOL PART No.	QTY.
6927	5/16 - 18	75820	6884	1
6928	3/8 - 16	75826	6884	1



NUTSERT INSTALLATION TOOL

- Low cost, expendable tool for Nutsert installation.
- Installs AK, AL, AP and AO style inserts.

PART No.	SIZE	QTY.
6943	5/16 - 18	1



THICKWALL NUTSERTS® 360° SWAGING EXPLAINED

As the insert is installed, the threaded nut portion is drawn into the upper sleeve portion. As this occurs, a 360° swaging action takes place anchoring the insert in the parent material.

Installation is fast and easy:

- » Drill the proper size hole.
- » Choose correct kit conversion size.
- » Install nutsert with tool.
- » Use with Thickwall Nutsert® Installation Tool, Part No. 6885.



THICKWALL NUTSERTS®

- When to use nutserts:
 - » For material 3/16" and larger.
 - » When a rivet would be too permanent.
 - » When you can't get to the back of the material to put a nut on a screw.
- Use with Thickwall Nutsert Installation Tool, Part No. 6885.



NUTSERTS PART No.	THREAD SIZE	QTY.	DRILL SIZE	DRILL PART No.	NOSE PIECE CONVERSION KIT
6850	6 - 32	50	7/32	80573	6870
6851	8 - 32	50	1/4	80575	6871
6852	10 - 24	50	9/32	80577	6872
6853	10 - 32	50	9/32	80577	6873
6854	1/4 - 20	50	3/8	80583	6874
6856	5/16 - 18	50	1/2	80591	6876
6858	3/8 - 16	25	9/16	70593	6878
6855	1/4 - 28	50	3/8	80583	6875
6857	5/16 - 24	50	1/2	80591	6877
6859	3/8 - 24	25	9/16	70593	6879

THICKWALL NUTSERT® INSTALLATION TOOL

PART No.	DESCRIPTION	QTY.
6885	Two piece tool	1



THREADED INSERTS

HEAVY-DUTY THREAD REPAIR INSERTS

- For replacement of stripped threads.
- Positive mechanical lock against rotation.
- Use wherever vibration is encountered.
- Recommended where higher strengths are required.
- Primary applications: auto, bus, truck, heavy equipment, marine, machinery, and small engines
- Installed with standard drills and taps.
- May be used in any material.
- Easy to remove.



PART No.	INTERNAL THREAD SIZE	EXTERNAL THREAD SIZE (MOD.)	LENGTH	INSTALLATION DATA		REMOVAL DATA		QTY.
				DRILL DIAMETER	TAP SIZE	DRILL SIZE	DEPTH	
7302	10 - 24	3/8 - 16	.31	"Q"	3/8 - 16	9/32	1/8	5
7304	1/4 - 20	7/16 - 14	.37	"X"	7/16 - 14	11/32	3/16	5
7305	1/4 - 28	7/16 - 14	.37	"X"	7/16 - 14	11/32	3/16	5
7306	5/16 - 18	1/2 - 13	.43	29/64	1/2 - 13	13/32	3/16	5
7307	5/16 - 24	1/2 - 13	.43	29/64	1/2 - 13	13/32	3/16	5
7308	3/8 - 16	9/16 - 12	.50	33/64	9/16 - 12	15/32	3/16	5
7309	3/8 - 24	9/16 - 12	.50	33/64	9/16 - 12	15/32	3/16	5
7310	7/16 - 14	5/8 - 11	.62	37/64	5/8 - 11	17/32	3/16	5
7311	7/16 - 20	5/8 - 11	.62	37/64	5/8 - 11	17/32	3/16	5
7312	1/2 - 13	3/4 - 16	.62	45/64	3/4 - 16	21/32	3/16	5
7313	1/2 - 20	3/4 - 16	.62	45/64	3/4 - 16	21/32	3/16	5
7314	9/16 - 12	3/4 - 16	.81	45/64	3/4 - 16	21/32	3/16	5
7315	9/16 - 18	3/4 - 16	.81	45/64	3/4 - 16	21/32	3/16	5
7316	5/8 - 11	7/8 - 14	.87	53/64	7/8 - 14	25/32	3/16	2
7317	5/8 - 18	7/8 - 14	.87	53/64	7/8 - 14	25/32	3/16	2
7318	3/4 - 10	1-1/8 - 12	1.12	1-1/16	1-1/8 - 12	31/32	5/16	2

THINWALL THREAD REPAIR INSERTS

- For replacement of stripped threads.
- Positive mechanical lock against rotation.
- May be used in any material.
- Provides maximum pull-out strength.
- Installed with standard drills and taps.
- Easy to remove.
- Primary applications: auto, bus, truck, marine, machinery, lawn mowers, tooling, power tools, recreational and small engines

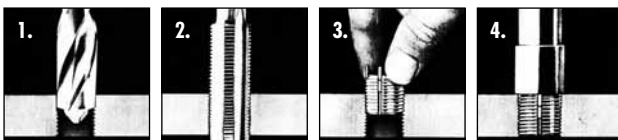


PART No.	INTERNAL THREAD SIZE	EXTERNAL THREAD SIZE (MOD.)	LENGTH	INSTALLATION DATA		REMOVAL DATA		QTY.
				DRILL DIAMETER	TAP SIZE	DRILL SIZE	DEPTH	
7200	10 - 24	5/16 - 18	.31	"I"	5/16 - 18	7/32	5/32	5
7201	10 - 32	5/16 - 18	.31	"I"	5/16 - 18	7/32	5/32	5
7202	1/4 - 20	3/8 - 16	.37	"Q"	3/8 - 16	9/32	3/16	5
7203	1/4 - 28	3/8 - 16	.37	"Q"	3/8 - 16	9/32	3/16	5
7204	5/16 - 18	7/16 - 14	.43	"X"	7/16 - 14	11/32	3/16	5
7205	5/16 - 24	7/16 - 14	.43	"X"	7/16 - 14	11/32	3/16	5
7206	3/8 - 16	1/2 - 13	.50	29/64	1/2 - 13	13/32	3/16	5
7207	3/8 - 24	1/2 - 13	.50	29/64	1/2 - 13	13/32	3/16	5
7208	7/16 - 14	9/16 - 12	.56	33/64	9/16 - 12	15/32	3/16	5
7209	7/16 - 20	9/16 - 12	.56	33/64	9/16 - 12	15/32	3/16	5
7210	1/2 - 13	5/8 - 11	.62	37/64	5/8 - 11	17/32	3/16	5
7211	1/2 - 20	5/8 - 11	.62	37/64	5/8 - 11	17/32	3/16	5
METRIC								
7401	6 x 1.0	10 x 1.25	10.0	8.8	10 x 1.25	7.5	4.75	5
7404	8 x 1.25	12 x 1.25	12.0	10.8	12 x 1.25	9.5	4.75	5
7405	10 x 1.25	14 x 1.5	14.0	12.8	14 x 1.5	11.5	4.75	5
7406	10 x 1.5	14 x 1.5	14.0	12.8	14 x 1.5	11.5	4.75	5
7406-4	10 x 1.5	14 x 1.5	14.0	12.8	14 x 1.5	11.5	4.75	12
7407	12 x 1.25	16 x 1.5	16.0	14.75	16 x 1.5	13.5	4.75	5
7408	12 x 1.75	16 x 1.5	16.0	14.75	16 x 1.5	13.5	4.75	5
7409	14 x 1.5	20 x 1.5	20.0	18.75	20 x 1.5	17.5	4.75	5

THREAD REPAIR INSERT INSTALLATION

Quick, easy to install with standard tools...

- Step 1:** Use standard drill to drill out damaged threads. Then, countersink with a standard countersink.
- Step 2:** Use standard tap to thread new hole.
- Step 3:** Screw in insert. Pins automatically stop the insert at its correct location.
- Step 4:** Drive locking pins down with light taps on tool and installation is complete.



RIVET NUT THREADED INSERT

- Used in blind or through applications where a strong heavy-duty reusable thread is required, such as installing mirrors on semi truck doors, etc.
- Stronger than a regular nutsert.
- Steel/zinc plated.
- Tool available on a special order basis.
- Contact Imperial for details.



PART No.	THREAD DIAMETER	GRIP RANGE	RECOMMENDED HOLE SIZE	USE IMPERIAL DRILL BIT No.	QTY.
75820	5/16 - 18	.125 - .200	.413 - .423	706	25
75826	3/8 - 16	.115 - .200	.490 - .500	70591	25

THREADED INSERT

- AR Series™ Threaded Insert has been designed for use in plastics and thin gauge sheet metal applications where increased pull-out resistance is required.
- When installed, slotted body style folds into four segments gripping the backside of the parent material.
- Plating: Zinc Yellow



PART No.	THREAD DIAMETER	GRIP RANGE	QTY.
75816	1/4 - 20	.020 - .280	50

THREAD REPAIR INSTALLATION TOOLS

HEAVY DUTY INSERT TOOL			THINWALL INSERT TOOL			METRIC INSERT TOOL		
PART No.	SIZE	QTY.	PART No.	SIZE	QTY.	PART No.	SIZE	QTY.
7107	#10	1	7100	#10	1	7123	M6	1
7108	1/4	1	7101	1/4	1	7125	M8	1
7109	5/16	1	7102	5/16	1	7126	M10	1
7110	3/8	1	7103	3/8	1	7127	M12	1
7111	7/16	1	7104	7/16	1	—	—	—
7112	1/2	1	7105	1/2	1	—	—	—
7113	9/16	1	—	—	—	—	—	—
7114	5/8	1	—	—	—	—	—	—
7115	3/4	1	—	—	—	—	—	—

B13



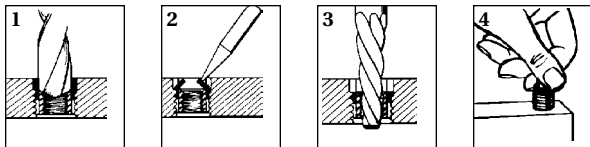
COIL THREAD REPAIR KITS

B14

THREAD REPAIR INSERT REMOVAL

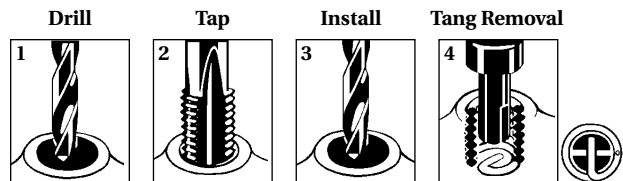
It is unlikely that thread repair inserts will ever have to be removed since their threads are stronger than original threads. However if removal is necessary, follow these simple steps.

- Step 1: Use standard drill to remove insert material between pins.
- Step 2: Deflect pins inward and break off.
- Step 3: Remove insert with E-Z OUT type tool.
- Step 4: An identical insert can now be installed in the original hole. No re-work of the hole will be necessary.



HOW TO USE THE COIL THREAD REPAIR KIT

- Step 1: Drill to clear out the damaged thread (if necessary).
- Step 2: Thread insert tap supplied. Tap thread should match up with bolt.
- Step 3: Wind insert in with light downward pressure until 1/4 to 1/2 turn below surface, driving tang towards bottom of the hole.
- Step 4: Remove tool and sit back on top of tang. Tap down sharply. Do not try to twist tang off. Spark plug and large fine threads, use long nose pliers and pull tang out.



COIL THREAD REPAIR KITS

- Kits include: Oversize tap, tool and inserts
- Simple and easy to use.
- Stronger assemblies and reduced thread wear.
- Corrosion resistant. Weight saving. Design flexibility.
- Interchangeable with other helically wound systems.
- Better than original threads in most applications.
- Wide temperature tolerance (-270° F to 774° F).



KIT PART No.	USS SIZE	QTY.	KIT PART No.	SAE SIZE	QTY.	No. OF INSERTS IN KIT	THREAD STYLE	DRILL BIT SIZE	DRILL BIT PN	DRILL BIT QTY.	KIT PART No.	METRIC SIZE	QTY.	No. OF INSERTS IN KIT	DRILL BIT SIZE	DRILL BIT PN	DRILL BIT QTY.
6810	10-24	1	6811	10-32	1	10	USS & SAE	13/64	80572	5	6802	M6 x 1.00 P	1	10	1/4	80575	5
6812	1/4-20	1	6813	1/4-28	1	10	USS & SAE	17/64	80576	5	6803	M8 x 1.25 P	1	10	21/64	80580	3
6814	5/16-18	1	6815	5/16-24	1	10	USS & SAE	21/64	80580	3	6804	M10 x 1.50 P	1	10	13/32	80585	3
6816	3/8-16	1	6817	3/8-24	1	10	USS & SAE	25/64	80584	3							
6818	7/16-14	1	6819	7/16-20	1	5	USS & SAE	29/64	80588	2							
6820	1/2-13	1	6821	1/2-20	1	5	USS	17/32	70592	1							
—	—	—	—	—	—	5	SAE	33/64	70608	1							
6826	9/16-12	1	6827	9/16-18	1	5	USS	19/32	—	—							
—	—	—	—	—	—	5	SAE	37/64	70594	1							
6822	5/8-11	1	6823	5/8-18	1	5	USS	21/32	70596	1							
—	—	—	—	—	—	5	SAE	41/64	70609	1							
6824	3/4-10	1	6825	3/4-16	1	5	USS	25/32	70600	1							
—	—	—	—	—	—	5	SAE	49/64	70610	1							

REPLACEMENT INSERTS



PART No.	USS SIZE	QTY.	PART No.	SAE SIZE	QTY.	PART No.	SIZE	QTY.
6829	8-32	10	—	—	—	6860	M4 x 0.70	10
6830	10-24	10	6831	10-32	10	6861	M5 x 0.80	10
6832	1/4-20	10	6833	1/4-28	10	6862	M6 x 1.00 P	10
6834	5/16-18	10	6835	5/16-24	10	6864	M8 x 1.25 P	10
6836	3/8-16	10	6837	3/8-24	10	6866	M10 x 1.50 P	10
6838	7/16-14	10	6839	7/16-20	10			
6840	1/2-13	10	6841	1/2-20	10			
—	—	—	6847	9/16-18	5			
6842	5/8-11	5	6843	5/8-18	5			
6844	3/4-10	5	6845	3/4-16	5			

PLUG SAVER SPARK PLUG THREAD REPAIR KIT

- Quick and easy way to repair worn or stripped threads.
- Three thread lengths included in Part No. 7414 kit and available separately.
- Mechanical locking system ensures inserts never come out.
- No drilling required.
- Use Hi-Temp RTV Silicone on outside threads, Part No. 9162.



PART No.	DESCRIPTION	QTY.
7414	Kit Includes: Inserts 3/8, 1/2, 3/4 pilot tap and expanding tool	1
7415	Insert: Short M14 x 1.25 x 3/8	5
7416	Insert: Medium M14 x 1.25 x 1/2	5
7417	Insert: Long M14 x 1.25 x 3/4	5
7418	Tap: M14 x 1.25	1
7419	Installation tool	1



CLEVIS PINS

UNIVERSAL CLEVIS PINS

- A quick replacement pin.
- Features a series of holes, making it adaptable to varying lengths.
- Unplated.

DIAMETER	PART No.	LENGTH UNDER HEAD TO END OF PIN	HOLE SIZE	QTY.	DIAMETER	PART No.	LENGTH UNDER HEAD TO END OF PIN	HOLE SIZE	QTY.
3/16	70360	1-1/2	3/32	25	7/16	70355	2"	5/32	25
	70361	2"	3/32	25		70374	2-1/2	5/32	25
	70365	1-1/2	3/32	25		70375	3"	5/32	25
1/4	70350	2"	3/32	25	1/2	70356	2"	5/32	25
	70366	2-1/2	3/32	25		70377	2-1/2	5/32	25
5/16	70351	1-1/2	1/8	25	5/8	70378	3"	5/32	25
	70352	2"	1/8	25		70358	2"	5/32	25
	70370	2-1/2	1/8	25		70381	3"	5/32	25
3/8	70353	1-1/2	5/32	25	3/4	70385	3"	5/32	10
	70354	2"	5/32	25					
	70372	2-1/2	5/32	25					



B15

CLEVIS PINS

- Versatile replacement pin.
- Unplated.
- Not heat treated.

DIAMETER	PART No.	LENGTH UNDER HEAD TO END OF PIN	LENGTH UNDER HEAD TO CENTER OF HOLE	HOLE SIZE	QTY.	DIAMETER	PART No.	LENGTH UNDER HEAD TO END OF PIN	LENGTH UNDER HEAD TO CENTER OF HOLE	HOLE SIZE	QTY.
3/16	70397	3/4	21/32	3/32	25	7/16	70406	1-15/64	1-5/64	5/32	25
	70398	1"	29/32	3/32	25		70419	2"	1-27/32	5/32	25
	70399	1-1/2	1-13/32	3/32	25		70421	3"	2-27/32	5/32	25
1/4	70402	3/4	39/34	3/32	25	1/2	70420	1-3/8	1-7/32	5/32	25
	70403	1"	29/32	3/32	25		70423	1-1/2	1-11/32	5/32	25
	70404	1-1/2	1-13/32	3/32	25		70425	1-3/4	1-19/32	5/32	25
5/16	70405	2"	1-29/32	3/32	25	5/8	70424	2"	1-27/32	5/32	25
	70408	1"	27/32	5/32	25		70452	4"	3-27/32	5/32	5
	70455	3/4	19/32	5/32	25		70453	3"	2-27/32	5/32	2
	70409	1-1/2	1-11/32	5/32	25	3/4	70454	4"	3-27/32	5/32	2
	70410	2"	1-27/32	5/32	25		70456	4"	3-27/32	5/32	2
	70412	3"	2-27/32	5/32	25		1"	70457	2"	1-51/64	13/64
70413	1"	27/32	5/32	25	70458	3"		2-51/64	13/64	2	
70414	1-1/8	31/32	5/32	25							
3/8	70417	1-1/4	1-3/32	5/32	25						
	70415	1-1/2	1-11/32	5/32	25						
	70407	1-3/4	1-19/32	5/32	25						
	70416	2"	1-27/32	5/32	25						
	70451	3"	2-27/32	5/32	5						



GREASABLE CLEVIS PINS

- Allows lubrication of the pin, slack adjuster bushing and clevis, reducing seizing or binding.
- Fits most manual or automatic slack adjusters.
- Includes: 1/2" x 1-1/2" clevis pin, grease fitting and cotter pin

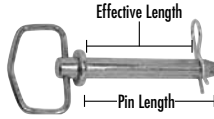
PART No.	SIZE	QTY.
91050	1/2 x 1-1/2	100
91050-2	1/2 x 1-1/2	12



PINS

HEAT-TREATED HITCH PINS

- Plated.
- Hairpin cotter included.
- Swivel handle for easy grasping.



PART No.	PIN LENGTH	EFFECTIVE LENGTH	QTY.	REPLACEMENT HAIRPIN COTTER PART No.	COTTER PIN DIAMETER	QTY.
73530	3/8 x 4-3/8	4"	1	73560	.0915	5
73531	1/2 x 4-3/4	4"	1	73561	.1200	5
73532	1/2 x 6-1/2	5-3/4	1	73561	.1200	5
73533	5/8 x 4-3/4	4"	1	73562	.1480	5
73534	5/8 x 6-1/2	5-3/4	1	73562	.1480	5
73529	5/8 x 6-3/4	6"	1	73562	.1480	5
73535	3/4 x 5"	4-1/4	1	73562	.1480	5
73536	3/4 x 7"	6-1/4	1	73562	.1480	5
73537	7/8 x 7-1/2	6-1/2	1	73563	.1780	5
73538	1" x 7-3/4	6-3/4	1	73563	.1780	5

HITCH PIN WITH LYNCH PINS

- Same high quality hitch pins, with an attached lynch pin.
- Chains are zinc plated.



PART No.	SIZE	EFFECTIVE LENGTH	RING SIZE	COLLAR DIAMETER	QTY.
73528	3/4 x 7"	6-1/4	2" x 3"	1-3/8	2

LYNCH PIN WITH CHAIN

- Chain is zinc plated and dichromate dipped.
- Pin is low carbon steel.



PART No.	LYNCH PIN	COTTER PIN	QTY.
73786	1/4 x 1-9/16	3/16 X 1 1/4	1

SNAPPER PINS

- 1010 carbon steel.
- Retainer ring is formed of tempered M-B spring wire.
- Zinc plated.

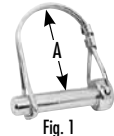


Fig. 1



Fig. 2

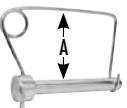
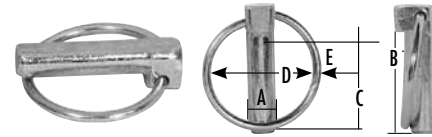


Fig. 3

PART No.	IMAGE	PIN DIAMETER	USEABLE LENGTH	(A) CLEARANCE	QTY.
73555	Fig. 1	1/4	1-3/4	1-1/2	5
73554	Fig. 2	1/4	2-1/2	1-3/4	5
73556	Fig. 2	5/16	2-1/2	1-5/8	5
73557	Fig. 1	3/8	1-1/2	1-1/2	5
73558	Fig. 2	3/8	2-1/4	1-1/2	5
70359	Fig. 3	3/8	3"	1-1/2	5
70364	Fig. 3	1/2	4-1/2	3"	5
73559	Fig. 3	5/8	4"	2-3/4	5

LYNCH PINS

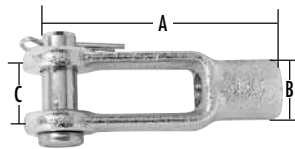
- High strength.
- 1010 steel.
- Plated.



PART No.	A	B	C	D	E	QTY.
73543	3/16	1-9/16	1-1/4	1-13/32	9/64	5
73544	1/4	1-9/16	1-1/4	1-13/32	9/64	5
73545	5/16	1-9/16	1-1/4	1-13/32	9/64	5
73546	7/16	1-9/16	1-11/32	1-17/32	9/64	5
73542	7/16	1-31/32	1-11/32	1-17/32	9/64	5

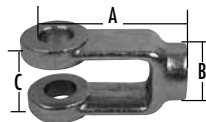
ADJUSTABLE CLEVIS YOKE ASSEMBLIES

- Meets or exceeds SAE standards.
- Drop forged steel.
- Includes clevis and cotter pins.
- Zinc plated.
- SAE threads.



PART No.	THREAD SIZE	LENGTH A	THROAT WIDTH B	YOKE WIDTH C	QTY.
6094	1/4-28	2"	7/16	9/32	5
6095	5/16-24	2-1/4	1/2	11/32	5
6096	3/8-24	2-1/2	5/8	7/16	5
6098	1/2-20	3"	13/16	9/16	2

ADJUSTABLE YOKE END



PART No.	THREAD SIZE	LENGTH A	THROAT WIDTH B	YOKE WIDTH C	QTY.
6091	5/8-18	1.90"	19/32	0.593"	1

SAFETY PIN FASTENER

- Zinc plated spring wire.



PART No.	WIRE DIAMETER	INSIDE CLEARANCE	QTY.
73553	0.177"	1-1/2" x 3"	5

COTTERLESS HITCH PINS

- Ball locking mechanism replaces a cotter pin or other fastener.
- Easy to insert and remove for quick disconnect applications.
- No special tools needed.
- Pins have an easy grip pull ring and stainless steel locking mechanism.
- Low carbon steel.



PART No.	PIN LENGTH	RING DIAMETER	PIN DIAMETER	QTY.
73594	2"	15/16	5/16	5
73595	2"	15/16	3/8	5
73596	2-1/2	15/16	3/8	5
73597	3-1/2	15/16	3/8	5



PINS

COTTER PINS

- SAE approved.
- Accurately formed heads.
- Zinc plated.
- Not case hardened.



DIAMETER	LENGTH	PART No.	QTY.	DIAMETER	LENGTH	PART No.	QTY.
1/16	1/2	70700	125	1/4	1"	70744	50
	3/4	70701	125		1-1/2	70745	50
	1"	70702	125		2"	70746	50
	1-1/4	70703	125		2-1/2	70747	50
	1-1/2	70704	125		3"	70748	50
3/32	2"	70706	125	3-1/2	70749	50	
	1/2	70707	125	4"	70750	50	
	3/4	70708	125	4-1/2	70779	25	
	1"	70709	125	7-1/2	70768	25	
	1-1/4	70710	125	1-1/4	70775	50	
7/64	1-1/2	70711	125	1-1/2	70751	50	
	2"	70712	125	1-3/4	70778	50	
	2-1/2	70714	125	2"	70752	50	
	3/4	70715	125	2-1/2	70753	50	
	1"	70716	125	3"	70754	50	
1/8	1-1/2	70718	125	3-1/2	70755	50	
	2"	70719	125	4"	70756	50	
	1/2	70720	125	6"	70758	25	
	3/4	70721	125	2"	70760	50	
	1"	70722	125	2-1/2	70761	50	
5/32	1-1/4	70723	125	3"	70762	50	
	1-1/2	70724	125	3-1/2	70763	50	
	1-3/4	70725	125	4"	70764	50	
	2	71726-2	100	5"	70774	25	
	2"	70726	125	6"	70772	25	
3/16	2-1/2	70727	125	3"	70769	25	
	3"	70728	125	3-1/2	70770	25	
	3-1/2	70733	125	4"	70771	25	
	3/4	70729	125	5"	70776	25	
	1"	70730	125	1.5mm	25mm	74448	100
5/32	1-1/4	70731	125	2mm	25mm	74452	100
	1-1/2	70732	125	2mm	40mm	74453	100
	1-3/4	70733	125	2.5mm	32mm	74455	100
	2"	70734	125	2.5mm	40mm	74458	100
	2-1/2	70735	125	3mm	25mm	891030	100
3/16	3"	70736	125	3.2mm	40mm	74464	100
	4"	70737	125	3.2mm	50mm	74466	50
	1"	70738	125	4mm	50mm	74468	50
	1-1/2	70739	125	5mm	40mm	74470	50
	2"	70740	125	5mm	50mm	74472	50

18/8 STAINLESS STEEL COTTER PINS

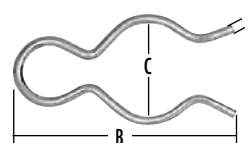
- SAE approved stainless steel for excellent resistance to corrosion.
- Accurately formed heads.

DIAMETER	LENGTH	PART No.	QTY.	DIAMETER	LENGTH	PART No.	QTY.
1/16	1/2	170700	100	5/32	1"	170730	100
	3/4	170701	100		1-1/2	170732	100
	1"	170702	100		2"	170734	100
	1-1/2	170704	100		2-1/2	170735	100
	2"	170706	100		1-1/2	170739	50
3/32	3/4	170708	100	2"	170740	50	
	1"	170709	100	2-1/2	170741	50	
	1-1/2	170711	100	3"	170742	50	
	2"	170713	100	1-1/2	170745	50	
	1"	170722	100	2"	170746	50	
1/8	1-1/4	170723	100	2-1/2	170747	50	
	1-1/2	170724	100				
	1-3/4	170725	100				
	2"	170726	100				
	2-1/2	170727	100				



HAIRPIN CLIPS

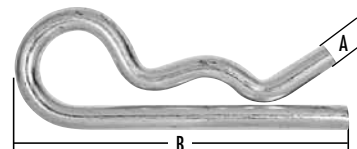
- Made of top quality 050 steel spring.
- Provide fast and easy installation.



PART No.	USE ON SHAFT SIZE	(A) WIRE DIAMETER	(B) OVERALL LENGTH	(C) LARGE HOLE I.D.	QTY.
73010	3/32	.025	3/8	1/16	100
73011	1/16	.025	23/64	.059	100
73510	1/8	.029	5/16	5/64	100
73511	3/16	.031	1/2	9/64	50
73512	1/4	.033	5/8	7/32	50
73513	5/16	.048	3/4	1/4	50
73514	3/8	.052	31/32	5/16	50
73515	7/16	.055	1-1/8	3/8	25
73516	1/2	.064	1-1/8	7/16	25
73517	5/8	.087	1-1/2	17/32	10
73518	3/4	.093	1-13/16	21/32	10
73519	7/8	.105	2-5/64	25/32	10
73520	1"	.125	2-9/32	7/8	10

HAIRPIN COTTERS

- Zinc plated.



PART No.	(A) WIRE DIAMETER	(B) OVERALL LENGTH	DRILL HOLE SIZE	USE ON SHAFT SIZE	QTY.
73501	.042	1"	3/64	3/16 - 1/4	50
73500	.047	19/32	1/16	1/8 - 3/16	50
73502	.062	1-5/16	5/64	1/4 - 1/2	50
73503	.080	1-3/16	3/32	1/4 - 3/8	50
73560	.092	1-7/8	7/64	3/8 - 7/16	5
73504	.093	1-5/8	7/64	1/4 - 1/2	50
73508	.093	2-1/2	7/64	3/8 - 3/4	50
73561	.120	2-3/8	1/8	1/2 - 5/8	5
73509	.125	2-9/16	9/64	7/16 - 3/4	25
73562	.148	2-11/16	5/32	5/8 - 3/4	5
73505	.148	2-15/16	5/32	5/8 - 1"	25
73506	.177	3-3/4	3/16	7/8 - 1-1/4	25
73506-4	.177	3-3/4	3/16	7/8 - 1-1/4	250
73563	.178	3-3/4	3/16	7/8 - 1"	5
73507	.243	5"	1/4	1-1/8 - 1-1/2	10
73564	.310	4-1/16	21/64	7/8 - 1"	5

B17



*Kay
Dedicated Service Advisor*

Determined...

"My customers could go somewhere else. I make sure they don't, by giving them the kind of service they can't find anywhere else."



HARDWARE

ROLL PINS

B18

ROLL PINS

- Zinc plated.
- Beveled edges.



#144-1



DIAMETER	LENGTH	PART No.	QTY.
1/16	1/4	70510	25
	1/2	70388	25
	3/4	70511	25
	1"	70297	25
5/64	5/8	70394	25
	1/2	70514	25
	3/4	70515	25
3/32	1/4	70516	25
	1/2	70389	25
	3/4	70301	25
	1"	70302	25
1/8	1-1/2	70338	25
	1/2	70303	25
	3/8	70517	25
	3/4	70304	25
1/8	1"	70305	25
	1-1/4	70306	25
	1-1/2	70307	25

DIAMETER	LENGTH	PART No.	QTY.
5/32	5/8	70390	25
	1/2	70518	25
	3/4	70308	25
	1"	70309	25
	1-1/4	70340	25
	1-1/2	70341	25
3/16	2"	70339	25
	3/4	70310	25
	1"	70311	25
	1-1/4	70312	25
7/32	1-1/2	70313	25
	2"	70315	25
	2-1/2	70316	25
	3/4	70342	25
7/32	1"	70343	25
	1-1/4	70344	25
	1-1/2	70345	25
	1-3/4	70346	25
2"	70347	25	

DIAMETER	LENGTH	PART No.	QTY.
1/4	3/4	70314	25
	1"	70317	25
	1-1/4	70318	25
	1-3/8	70386	25
	1-1/2	70319	25
	1-3/4	70320	25
5/16	2"	70321	25
	2-1/2	70333	25
	3"	70348	25
	1"	70322	25
5/16	1-1/4	70323	25
	1-1/2	70324	25
	1-3/4	70325	25
	2"	70326	25
2-1/2	70332	25	

DIAMETER	LENGTH	PART No.	QTY.
3/8	1"	70327	25
	1-1/4	70328	25
	1-1/2	70329	25
	1-3/4	70330	25
	2"	70331	25
7/16	2-1/2	891332	25
	3"	70349	25
	3-1/2	70357	25
1/2	1-3/4	70336	25
	2"	70524	25
	1-1/2	70335	25
1/2	2"	70337	25
	3"	70396	25

DOWEL PINS

- Heat-treated alloy steel.
- Finished diameter .0002", nominal = .0001"



DIAMETER	LENGTH	PART No.	QTY.
1/8	3/4	70470	25
	1-1/2	70472	25
	1"	70475	25
3/16	1-1/2	70476	25
	2"	70477	25
	1"	70479	25
1/4	1-1/4	70469	25
	1-1/2	70480	25
	2"	70481	25

DIAMETER	LENGTH	PART No.	QTY.
5/16	3/4	70482	25
	1"	70483	25
	1-1/2	70484	25
3/8	2"	70485	25
	1-1/2	70488	25
1/2	2"	70489	25
	1"	70494	25

COILED SPRING PIN

- Swagged chamfer on both ends.
- Pin flexes upon impact, absorbing shock, minimizing stress.
- Conforms to out-of-round hole.
- Carbon steel.



DIAMETER	LENGTH	PART No.	QTY.
5/16	3/4	77393	50
1/4	1"	77394	50

METRIC ROLL PINS

- Heat-treated alloy steel.
- Beveled edges for easy installation.
- Meets DIN 1481.



DIAMETER	LENGTH	PART No.	QTY.
M3	20 mm	77311	25
	26 mm	77312	25
	32 mm	77313	25
	40 mm	77314	25
M4	20 mm	77319	25
	32 mm	77321	25
	40 mm	77322	25
M5	20 mm	77327	25
	32 mm	77329	25
	40 mm	77330	25
50 mm	77332	10	

DIAMETER	LENGTH	PART No.	QTY.
M6	26 mm	77337	25
	32 mm	77338	25
	40 mm	77339	25
	50 mm	77341	10
M8	20 mm	77345	25
	32 mm	77347	25
	40 mm	77349	10
M10	50 mm	77351	10
	40 mm	77355	10
	45 mm	77356	10
M12	32 mm	77363	10
	45 mm	77365	10

STAINLESS STEEL ROLL PIN

- 420 stainless steel.



DIAMETER	LENGTH	PART No.	QTY.
1/8	1"	170891	25
	1-1/2	170893	25
5/32	1"	170900	25

See pages I9 and I10 for
Punches to remove and
install pins.



Jody
Dedicated Service Advisor

Experienced...

20 years serving Imperial's
customers.



SNAP RINGS & E-CLIPS

EXTERNAL SNAP RINGS



PART No.	SHAFT	QTY.	PART No.	SHAFT	QTY.
5912	1/8	50	5943	1-1/16	50
5937	3/16	50	5923	1-1/8	50
5913	1/4	50	5944	1-3/16	50
5914	5/16	50	5924	1-1/4	50
5915	3/8	50	5945	1-5/16	50
5916	7/16	50	5946	1-3/8	50
5917	1/2	50	5953	1-7/16	50
5918	9/16	50	5926	1-1/2	50
5919	5/8	50	5947	1-5/8	25
5938	11/16	50	5948	1-3/4	25
5920	3/4	50	5949	1-7/8	25
5939	13/16	50	5950	2"	25
5921	7/8	50	5951	2-1/4	25
5942	15/16	50	5952	2-1/2	25
5922	1"	50			

METRIC EXTERNAL SNAP RINGS

PART No.	SHAFT	QTY.
5701	4mm	50
5703	6mm	50
5707	10mm	50
5711	14mm	50
5712	15mm	50
5713	16mm	50
5715	18mm	50
5717	20mm	50
5719	22mm	50
5722	25mm	50



INTERNAL SNAP RINGS

PART No.	HOUSING DIAMETER	QTY.	PART No.	HOUSING DIAMETER	QTY.
5900	1/4	50	5908	7/8	50
5901	5/16	50	5909	1"	50
5902	3/8	50	5930	1-1/16	50
5903	7/16	50	5910	1-1/8	50
5904	1/2	50	5911	1-1/4	50
5905	9/16	50	5925	1-1/2	50
5906	5/8	50	5956	1-9/16	25
5929	11/16	50	5933	1-5/8	25
5907	3/4	50	5934	1-3/4	25
			5936	2"	25
			5954	2-1/4	10

METRIC INTERNAL SNAP RINGS

PART No.	HOUSING DIAMETER	QTY.
5744	22mm	50



E-CLIPS, RETAINING



PART No.	SHAFT	QTY.	PART No.	SHAFT	QTY.
5595	1/16	100	5603-4	5/16	2,500
5583	3/32	100	5604	3/8	100
5612	7/64	100	5605	7/16	100
5600	1/8	100	5606	1/2	100
5613	5/32	100	5608	5/8	100
5601	3/16	100	5609	3/4	50
5614	7/32	100	5610	7/8	50
5602	1/4	100	5611	1"	25
5603	5/16	100			

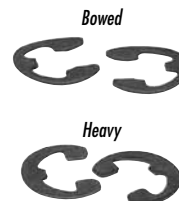
E-CLIPS, RETAINING, METRIC

PART No.	O.D.	I.D.	QTY.
5624	3.9mm	1.28mm	100
5626	5.9mm	1.94mm	100
5627	6.9mm	2.7mm	100
5628	8.85mm	3.34mm	100
5629	10.85mm	4.11mm	100
5630	11.80mm	5.26mm	100
5631	13.80mm	5.84mm	100
5632	15.75mm	6.52mm	100



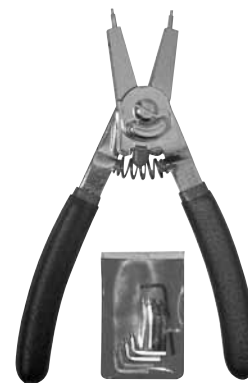
E-CLIPS, HEAVY

PART No.	STYLE	SHAFT	QTY.
5620	Heavy	1/4	100
5621	Heavy	5/16	100
5622	Heavy	3/8	100



SNAP RING PLIERS KIT

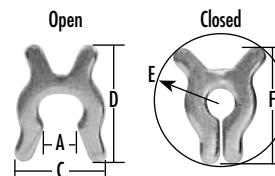
- Fits internal 3/8 through 2"; external 1/4 through 2" snap rings.
- Switch the comfort grip and squeeze the handles to convert between internal and external applications.
- Spring return plier handles, heavy-duty cushion grips.
- Includes five pairs of color-coded, interchangeable tips and Allen wrench in a handy pouch.



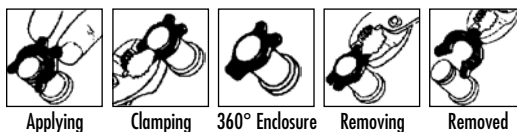
PART No.	DESCRIPTION	QTY.
5959	Snap Ring Pliers Kit	1
5941	Replacement Tips	1

X-WASHERS

- Removable retainer.
- 360° enclosure.
- Zinc plated.



PART No.	THICKNESS	A	C	D	E	F	QTY.
5644	.065	.164	.523	.687	.422	.665	50
5645	.065	.190	.622	.776	.469	.775	25



See pages K6-10 for Safety Glasses.



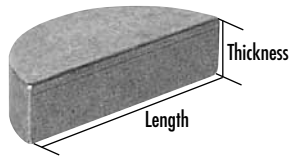
HARDWARE

KEY STOCK

B20

WOODRUFF KEYS

- Smaller keys usually have full arc and full measurement.
- Large size Woodruff Keys are measured by the arc, not length of the key.
- Unplated.



LENGTH	PART NO.	THICKNESS	KEY NO.	QTY.	LENGTH	PART NO.	THICKNESS	KEY NO.	QTY.	
3/8	71113	1/8	213	25	1"	71116	3/16	13	25	
	71100	1/16	1	25		71117	7/32	14	25	
1/2	71101	3/32	2	25		71118	1/4	15	25	
	71102	1/8	3	25		71119	5/16	B	25	
	71103	3/32	4	25		71120	3/8	152	25	
5/8	71104	1/8	5	25		71121	3/16	16	25	
	71105	3/16	61	25		1-1/8	71123	1/4	18	25
	71106	5/32	6	25		71124	5/16	C	25	
	71107	1/8	7	25		71125	3/16	19	25	
3/4	71108	5/32	8	25		71126	7/32	20	25	
	71109	3/16	9	25	1-1/4	71127	1/4	21	25	
	71110	1/4	91	25	71128	5/16	D	25		
	71111	5/32	10	25	71129	3/8	E	25		
7/8	71112	3/16	11	25	1-3/8	71130	1/4	22	25	
	71115	7/32	12	25	71132	3/8	F	25		
	71114	1/4	A	25	71133	1/4	24	25		
					1-1/2	71134	5/16	25	25	
				2-1/8	71136 ★	3/16	26	25		

★ Large Sizes

PLATED KEY STOCK

- Tolerances: -.000 mm to .003 mm
- Stamped with size.
- Zinc plated 1018 carbon steel.



PART NO.	SIZE	LENGTH	QTY.
71030	1/8 x 1/8	12"	5
71032	3/16 x 3/16	12"	5
71035	1/4 x 1/4	12"	5
71038	5/16 x 5/16	12"	5
71042	3/8 x 3/8	12"	5
71046	7/16 x 7/16	12"	5
71051	1/2 x 1/2	12"	5
71058	9/16 x 9/16	12"	1
71056	5/8 x 5/8	12"	1
71055	5/8 x 3/4	12"	1
71057	3/4 x 3/4	12"	1
71064	7/8 x 7/8	12"	1
71059	1" x 1"	12"	1



UNPLATED KEY STOCK

- Tolerances: -.003 mm to .000 mm
- Stamped with size.
- 1018 steel.



PART NO.	SIZE	LENGTH	QTY.
71031	1/8 x 1/8	12"	5
71033	3/16 x 3/16	12"	5
71036	1/4 x 1/4	12"	5
71039	5/16 x 5/16	12"	5
71043	3/8 x 3/8	12"	5
71053	3/8 x 1/2	12"	5
71052	1/2 x 1/2	12"	5
71054	1/2 x 5/8	12"	5

METRIC PLATED KEY STOCK

- Tolerances: .000 mm to .0762 mm
- Size printed on each piece.
- Zinc plated 1045 cold drawn steel.



PART NO.	SIZE (MM)	LENGTH	QTY.
71090	4 x 4	12"	5
71092	6 x 6	12"	5
71094	8 x 8	12"	5
71095	10 x 10	12"	3
71096	12 x 12	12"	3

ROUND STEEL PIN STOCK

- Tolerances: -.002 mm to .001 mm
- Size printed on each piece.
- Zinc plated 1018 cold drawn steel.



PART NO.	DIAMETER	LENGTH	QTY.
77413	3/16	12"	10
77414	1/4	12"	10
77415	5/16	12"	10
77416	3/8	12"	10
77417	7/16	12"	5
77418	1/2	12"	5

See page I20 for Hacksaw Frames and Blades.



TARP STRAPS & ACCESSORIES

RUBBER TARP STRAP

- Cut to any length.
- Resists cracks and abrasions.
- High quality EPDM rubber.
- Stretches 1-1/2 to 2 times original length.
- On a reel for easy use.

PART No.	DESCRIPTION	QTY.
70436	125' x 7/16" diameter strap	1
70437	Hooks	50



PREMIUM TARP STRAPS

- Maximum-safe stretch length: 50% of the length of the rubber strap

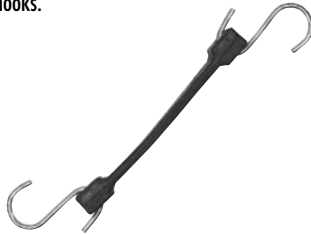
PART No.	LENGTH	QTY.
70504	5-1/2"	10
70504-4	5-1/2"	50
70505	9"	10
70505-4	9"	50
70506	15"	10
70506-4	15"	50
70507	20"	10
70507-4	20"	50
70508	31"	10
70509	41"	10



TARP STRAPS

- 7/16" solid rubber cord with "S" hooks.

PART No.	LENGTH	QTY.
70418	5-1/2"	25
70431	10"	10
70431-4	10"	50
70432	15"	10
70432-4	15"	50
70433	20"	10
70433-4	20"	50
70434	31"	10
70434-4	31"	50
70435	41"	10



"S" HOOK

- Zinc plated steel.
- For use with tarp straps.

PART No.	WIRE SIZE	OVERALL LENGTH	WIRE THICKNESS	QTY.
70426	7/64	1-1/8"	.105	50
70430	5/32	2-1/2"	.177	50
70422	3/16	1-3/4"	.192	25
70428	1/4	2-1/4"	.243	25
70429	5/16	2-1/2"	.300	25
70427	11/64	2-7/8"	.188	25



HOG RINGS

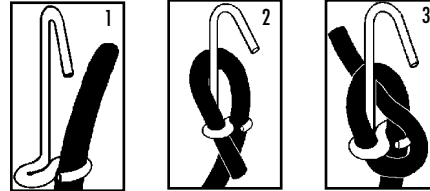
- 3/4" long.
- Wire diameter is .08".
- Used to attach seat covers to cushions and seat bottoms—also cushion spring clips.

PART No.	QTY.
37029	100



ROPE TO HOOK ATTACHMENT

1. Insert rubber rope into eyelet.
2. Loop around hook and back through eyelet.
3. Bring end up through loop.



B21

TARP GROMMETS AND SETTING TOOL

- Solid brass.
- 5/8" ID.
- Size #5.
- 144 grommets and washers per package.

PART No.	DESCRIPTION	QTY.
37012	Tarp Grommets	1
37013	Setting Tool	1



SNAP FASTENERS

- Used for securing canvas and fabric.
- Crimp together the snap button and snap socket to create the female snap fastener.
- Crimp together the snap stud and snap post to create the male snap fastener.
- Nickel plated.

PART No.	DESCRIPTION	QTY.
37003	Snap Button Cap, std barrel length	100
37004	Snap Socket	100
37005	Snap Stud	100
37006	Snap Post, standard 1/4" post	100
37007	Screw Stud, Steel, 3/8" long	50
37008	Screw Stud, Steel, 5/8" long	50



SNAP FASTENER PUNCH AND DIE

- For installation of snap fasteners.
- Hardened steel punch.
- Reversible hard plastic die will install caps to sockets and studs to posts.

PART No.	DESCRIPTION	QTY.
37102	Snap Fastener Setting Punch	1
37103	Reversible Setting Die	1



PRESS-N-SNAP INSTALLATION TOOL

- Portable crimper for setting snap fasteners.
- Heat-treated cast aluminum body makes it both light-weight and durable.
- Includes four dies for snap fasteners.

PART No.	QTY.
37101	1



HARDWARE

MISCELLANEOUS HOOKS & SNAPS

B22

ROUND PIN ANCHOR SHACKLE

- Hot galvanized steel.
- Embossed with load rating.



PART No.	CHAIN SIZE	WORKING LOAD LIMIT	PIN DIAMETER	WIDTH BETWEEN EYES	QTY.
24785	1/4	1,000 lb	5/16	15/32	10

CAUTION: Working load limits should not be exceeded.

ANCHOR SHACKLES WITH SCREW PIN

- Hot, galvanized steel.
- Embossed with load rating.



PART No.	CHAIN SIZE	WORKING LOAD LIMIT	PIN DIAMETER	WIDTH BETWEEN EYES	QTY.
24755	5/16	1,500 lb	3/8	17/32	3
24756	3/8	2,000 lb	7/16	21/32	3
24757	7/16	3,000 lb	1/2	23/32	3
24758	1/2	4,000 lb	5/8	13/16	3
24759	5/8	6,500 lb	3/4	1-1/16	3

EYELET SPRING SNAP HOOK

- Not Load Rated.
- Steel Wire, Zinc Plated.



PART No.	EYE DIAMETER	OVERALL LENGTH	SNAP OPENING	QTY.
24495	1/2	4"	13/16	1

QUICK LINKS

- Attaches chains and accessories quickly without tools.
- Use with chain of equal or lower working limits only.
- Not for overhead lifting applications.



PART No.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24775	3/16	660 lb	5
24776	1/4	880 lb	5
24777	5/16	1,760 lb	5
24778	3/8	2,200 lb	5
24781	1/2	3,250 lb	5

U-BOLT WITH PLATE

- Material: Low carbon steel
- Plating: Zinc
- Includes u-bolt, plate and two nuts.



PART No.	THREAD SIZE	OVERALL LENGTH	THREAD LENGTH	INSIDE WIDTH	QTY.
72665	3/8-16	2-5/8	1-1/4	2"	10
72667	3/8-16	2	1-1/4	2-1/2	10
71767	5/16-18	2-3/16	1-3/8	1"	10
71663	5/16-18	4-3/4	3"	2"	10

SAFETY SNAP LINKS

- Not for overhead lifting applications.



PART No.	WIRE DIAMETER	OVERALL LENGTH	SNAP OPENING	QTY.
24403	1/4	2-3/8	3/8	5
24404	5/16	3-1/8	7/16	5
24405	3/8	4"	1/2	5
24402	7/16	4-3/4	3/4	5

OPEN EYE SNAP BOLT

- Great for trailer door hold backs.
- Zinc plated, malleable iron.
- Open eye.



PART No.	OVERALL LENGTH	EYE OPENING	QTY.
24400	4"	1/2	5

SWIVEL EYE BOLT SNAP

- Versatile rotating head.
- Nickel plated.



PART No.	EYE SIZE	OVERALL LENGTH	SNAP OPENING	QTY.
24410	5/8	3-1/8	3/8	5
24411	3/4	3-1/4	3/8	5
24412	1"	3-5/8	3/8	5

RIGID EYE SNAP BOLT

- Zinc plated for best rust protection.
- Great for trailer door hold backs.



PART No.	EYE DIAMETER	APPROX. LENGTH	SNAP OPENING	QTY.
24401	3/4	3-1/2	3/8	5

ROPE

NYLON STARTER ROPE

- Diamond braided.
- White nylon.

PART No.	SIZE	DIAMETER	LENGTH	QTY.
24680	#4	1/8	250'	1
24681	#4-1/2	9/64	200'	1
24682	#5	5/32	200'	1
24683	#6	3/16	150'	1



WHITE NYLON ROPE

- Solid braided.
- White nylon.

PART No.	SIZE	DIAMETER	LENGTH	LOAD LIMIT	QTY.
24675	#6	1/8	500'	110 lb	1
24676	#10	5/16	600'	280 lb	1
24677	#12	3/8	330'	300 lb	1



LOAD BINDERS

LEVER CHAIN LOAD BINDER

- Drop-forged steel load binder with lever.
- Meets FMSCA and DOT specifications.
- Provides heavy-duty transport securement.

PART No.	CHAIN SIZE	WORKING LOAD LIMIT	QTY.
24564	5/16 - 3/8	5,400 lb	1



RATCHETING LOAD BINDER WITH LEVER

- Drop-forged steel ratcheting load binder with lever.
- Meets FMSCA and DOT specifications.
- Provide heavy-duty transport securement.

PART No.	CHAIN SIZE	WORKING LOAD LIMIT	QTY.
24566	3/8 - 1/2	9,200 lb	1



B23

WARNING:

When using a load binder, keep your body clear of the handle. The design of the load binder does not prevent recoil during the locking process.

SPRINGS

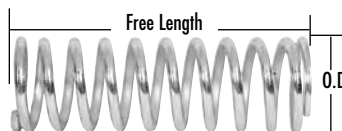
THROTTLE SPRING

PART No.	SIZE	QTY.
5027	9/16 x 3-9/16	100
5027-2	9/16 x 3-9/16	10



COMPRESSION SPRINGS

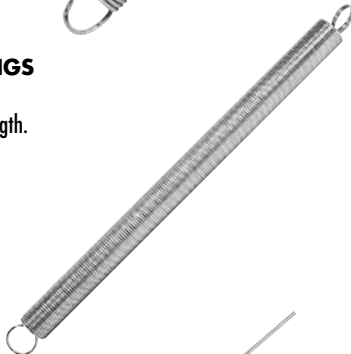
- Carbon steel.
- Finished ends.



HEAVY-DUTY CABLE SPRINGS

- Zinc plated for corrosion resistance.
- Double wire loop ends for extra strength.

PART No.	SIZE	QTY.
6030	3/4 x 13"	1
6082	1" x 13"	1
6083	1" x 16-1/4"	1
6031	1-1/8 x 28"	1



PART No.	O.D. (IN.)	FREE LENGTH (IN.)	WIRE DIAMETER (IN.)	SPRING RATE (LB/IN.)	QTY.
8040	0.250	1.000	0.020	1.7	4
8000	0.300	0.870	0.028	7.6	10
8014	0.312	1.375	0.031	6.0	10
8001	0.312	1.625	0.041	15.7	10
8012	0.375	1.500	0.025	1.1	10
8011	0.375	1.500	0.028	2.0	10
8015	0.375	1.750	0.041	9.0	10
8016	0.406	2.000	0.047	10.1	10
8020	0.406	2.750	0.047	7.6	5
8013	0.437	1.880	0.035	3.0	10
8028	0.500	2.500	0.062	18.1	12
8010	0.563	1.375	0.072	54.4	5
8018	0.593	3.000	0.054	4.6	5
8002	0.625	2.375	0.105	130.0	10
8019	0.625	2.750	0.054	8.0	5
8006	0.625	2.750	0.120	165.0	5
8017	0.625	3.000	0.080	26.0	5
8009	0.688	1.250	0.091	103.0	5
8003	0.750	2.500	0.105	63.5	5
8005	0.750	2.500	0.135	205.0	5
8004	0.875	2.500	0.135	124.0	5
8007	0.875	2.750	0.148	199.0	5
8026	0.875	3.000	0.091	18.6	6
8008	0.906	2.750	0.105	37.7	5
8021	0.938	2.000	0.080	15.5	6
8027	1.000	2.500	0.120	54.7	6

UNIVERSAL SPRING

PART No.	SIZE	QTY.
8039	3/4 x 8-1/2"	2
5019	3/4 x 17-1/2"	10



EXTENSION SPRINGS



PART No.	O.D. (IN.)	OVERALL LENGTH (IN.)	WIRE DIAMETER (IN.)	SPRING RATE (LB/IN.)	QTY.
8033	0.250	1.000	0.023	1.60	2
8031	0.250	1.500	0.023	0.80	4
8037	0.250	5.750	0.028	0.44	5
8032	0.312	1.500	0.023	0.42	4
8030	0.312	2.500	0.023	0.20	4
8036	0.328	6.500	0.035	0.47	4
8034	0.343	1.500	0.025	0.50	4
8035	0.343	1.875	0.025	0.35	4
8043	0.375	3.000	0.041	2.00	6
8041	0.688	4.000	0.105	33.90	3
8046	0.750	2.630	0.105	46.50	12
8042	0.875	6.000	0.091	4.20	6
8044	0.875	6.000	0.120	18.70	3
8045	1.062	8.000	0.135	12.00	3

SPRING KITS

- 18 sizes; 126 pieces.
- 1/8" to 3/8" diameter.

PART No.	STYLE	LENGTHS	QTY.
5028	Extension	3/4 to 2"	1
5029	Compression	1" to 1-1/2"	1



CHAINS & CHAIN ACCESSORIES

B24

GRADE 80 CHAIN

- Meets the latest guidelines of the National Association for Chain Manufacturers (NACM).
- Also meets ASTM Standard A 391-86.
- Meets the 4-to-1 safety design factor required by the ISO.
- Chain only (hooks purchased separately).

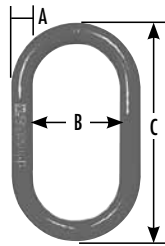
PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	NOMINAL INSIDE WIDTH (IN.)	NOMINAL INSIDE LENGTH (IN.)	LENGTH FEET
24700	9/32	3,500 lb	.405	.846	25
24701	3/8	7,100 lb	.567	1.209	25



OBLONG MASTER LINKS

- Specially designed to make up chain slings.
- For use with Grade 80 chain and connectors.

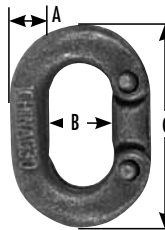
PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	LINK SIZE A x B x C	QTY.
24704	9/32	7,400 lb	5/8 x 3" x 6"	1
24705	3/8	15,200 lb	3/4 x 3" x 6"	1



CONNECTING LINK

- Drop forged steel and heat treated.
- For connection of attachments to chain.
- Links are provided with interlocking lugs and rivets.
- For permanent connections, rivets must be peened into the counter sunk holes.
- Use with low carbon chain and chain of equal or lower working load limit only.

PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24715	1/4	1,300 lb	10



REPAIR LAP LINKS

- Links are low carbon, zinc-plated steel.
- For the temporary repair of light-duty attachments.
- **Not for overhead lifting applications.**

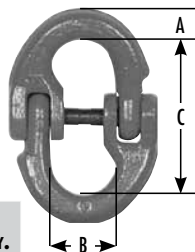
PART NO.	LINK DIAMETER	INSIDE LENGTH	WORKING LOAD LIMITS	QTY.
24450	1/4	1-1/4	400 lb	25
24451	5/16	1-1/2	700 lb	25



KUPLEX® II CONNECTORS

- Designed for use with Grade 80 chain.
- Made from alloy steel.
- Designed to assemble chain legs to master link.

PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	LINK SIZE A x B x C	QTY.
24779	9/32	3,500 lb	3/8 x 11/16 x 1-13/16	1
24780	3/8	7,100 lb	1/2 x 1 x 2-3/8	1
24770	1/2	12,000 lb	5/8 x 1-1/4 x 3-11/32	1



KUPLERS FOR CHAIN

- Designed for use with Grade 80 chain.
- For use as the connection device between master links and chains on all multi-leg chain slings.
- Provides a high strength, high integrity connection when used to connect a special attachment to the alloy chain assembly.
- Made of alloy steel.

PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24712	9/32	3,500 lb	1
24713	3/8	7,100 lb	1



CLEVIS GRAB HOOKS

- Designed for Grade 80 chain.
- Made from alloy steel.
- Provides a chain to grab hook connection method that completely eliminates cumbersome mechanical connection devices.

PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24716	9/32	3,500 lb	1
24717	3/8	7,100 lb	1
24718	5/16	3,900 lb	5



CLEVIS SLING HOOKS

- Designed for Grade 80 chain.
- Made from alloy steel.
- Designed to provide a rapid, high integrity chain to hook connection.

PART NO.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24721	9/32	3,500 lb	1
24722	3/8	7,100 lb	1



LATCH ASSEMBLIES

- For use with eye type and clevis sling hooks Part No. 24721 or 24722.
- Throat opening of hook is 2-1/8".
- For use with 5/8" chain (16 mm).

PART NO.	FOR USE ON HOOK SIZE	QTY.
24798	9/32	1
24799	3/8	1
24723	5/8	1



For heavy-duty cargo control use Load Huggers, N42.

CAUTION: Working load limits should not be exceeded.



CHAINS & CHAIN ACCESSORIES

GRADE 40 CHAIN

- Excellent general purpose chain made of carbon steel.
- Features both high tensile strength and wear resistance.
- Working load limits exceed those of ordinary utility chain.
- Chain only (hooks purchased separately).



PART No.	CHAIN SIZE	WORKING LOAD LIMIT	NOMINAL INSIDE WIDTH	NOMINAL INSIDE LENGTH	LENGTH FEET
24741	1/4	2,600 lb	.40	.84	25
24742	3/8	5,400 lb	.57	1.33	25

GRADE 30 CHAIN IN PAIL

- Low carbon steel coil chain.
- Bright zinc finish.
- Shipped in a 5 gallon pail.
- Proof tested.
- General utility chain. Works well for cargo lashing, towing and logging.



PART No.	CHAIN SIZE	WORKING LOAD LIMIT	LENGTH FEET
24782	3/16	1,900 lb	150'
24783	5/16	1,900 lb	60'
24784	3/8	1,900 lb	40'

ROLLER CHAIN AND CONNECTORS

- Bushings and sidebars made from alloy steel for improved fatigue resistance.
- Consistent wall thickness and seamless rollers on chain to run smoothly.
- Pins are gas-carburized and precision ground for longer wear life.
- Continuous flow, heat-treated system ensures even hardness and case depth.
- Chains are prestressed to minimize elongation.
- Meets ANSI specifications.



PART No.	CHAIN SIZE	TENSILE STRENGTH	LENGTH	QTY.
24750	#35	2,100 lb	10'	1
24751	#40	3,700 lb	10'	1
24806	#41	2,400 lb	10'	1
24748 ♦	#50	6,100 lb	10'	1
24752	#50	6,100 lb	10'	1
24753	#60	8,500 lb	10'	1
24754	#80	14,500 lb	10'	1

♦ Domestic

REPLACEMENT CONNECTING AND OFFSET LINKS

- Designed to connect and repair chain assemblies.

Connection Links
Spring Clip



Connecting Links
Cotter



Offset 1/2 Links
Cotter



CHAIN SIZE	CONNECTING LINKS SPRING CLIP PART No.	CONNECTING LINKS COTTER PART No.	OFFSET LINKS COTTER PART No.	QTY.
#35	24760	—	24694	5
#40	24761	—	24766	5
#41	24807	—	24808	5
#50	24762	24786	24767	5
#60	24763	—	24768	5
#80	24764	—	24769	5
#100	—	24774	24770	5

GRADE 70 TRANSPORT CHAIN

- For load binding in the transportation industry.
- Features both high tensile strength and wear resistance.
- Working load limits exceed those of ordinary utility chain.
- Chain only (hooks purchased separately).
- Finish: zinc yellow dichromate



PART No.	CHAIN SIZE	WORKING LOAD LIMIT	NOMINAL INSIDE WIDTH	NOMINAL INSIDE LENGTH	LENGTH FEET
24720	5/16	4,700 lb	0.500	1.12	100
24706	3/8	6,600 lb	0.570	1.33	25
24724	3/8	6,600 lb	0.551	1.374	75
24734	3/8	6,600 lb	0.551	1.374	200

GRADE 40 CLEVIS GRAB AND SLIP HOOKS

PART No.	CHAIN SIZE	WORKING LOAD LIMITS	TYPE	QTY.
24746	1/4	2,600 lb	Grab	1
24771	1/4	2,600 lb	Slip	1
24743	5/16	3,900 lb	Grab	1
24773	5/16	3,900 lb	Slip	1
24747	3/8	5,400 lb	Grab	1
24772	3/8	5,400 lb	Slip	1
24744	1/2	9,200 lb	Grab	1



CAUTION: Working load limits should not be exceeded.

GRADE 70 CLEVIS GRAB HOOK

- Designed for use with Grade 70 and Grade 80 chain.
- Chain Size: 3/8"
- Working Load Limits:
 - » Grade 70: 6,600 lb
 - » Grade 80: 7,100 lb
- CAUTION: Working load limits should not be exceeded.



PART No.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24708	3/8	6,600 lb	1

CLEVIS SLIP HOOK WITH LATCH

- Forged hooks.
- Designed for use with Grade 70 chain.
- Zinc plated.



PART No.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24707	5/16	4,700 lb	1
24709	3/8	6,600 lb	1

DOUBLE CLEVIS MID-LINKS

- For use with Grade 70 and Grade 40 chain.
- Hot forged and heat treated for high strength.
- Used for connecting two lengths of chain together.



PART No.	CHAIN SIZE	WORKING LOAD LIMITS	QTY.
24788	1/4-5/16	4,700 lb	2
24790	3/8	6,600 lb	2
24791	7/16-1/2	11,300 lb	2

COLD SHUT FOR CHAIN

- Material: Steel
- Finish: Zinc

PART No.	CHAIN SIZE	RATED CAPACITY	QTY.
24460	3/16	850 lb	1
24461	1/4	1,500 lb	1



B25



CABLE & CABLE ACCESSORIES

B26

LANYARD

- 3/64" galvanized nylon-coated aircraft cable.
- Has terminal on one end and a loop on the other end.
- Prevents loss of pins.
- Terminal size: #10 hole
- Wire size: 14-16



PART No.	SIZE	QTY.
73552	18"	5

VINYL COATED GALVANIZED AIRCRAFT CABLE

- Construction is 7 x 7 strand.
- Use for trailer roll-up doors or overhead doors.
- Seven mini cables make up one cable. There are seven strands within each of the seven mini cables.
- Vinyl coated cable must be stripped prior to use. Match the actual diameter of the stripped cable with the corresponding crimp sleeve.



PART No.	CABLE DIAMETER	FINISHED O.D.	LENGTH	QTY.
24598	3/64	1/16	250'	1
24621	1/16	3/36	500'	1
24607	3/32	1/8	250'	1
24600	1/8	3/16	250'	1

GALVANIZED AIRCRAFT CABLE

- Use for trailer roll-up doors or overhead doors.



PART No.	CABLE STRANDS	CABLE DIAMETER	LENGTH	QTY.
24606	7 x 7	1/16	500'	1
24608	7 x 19	3/16	250'	1

WIRE ROPE THIMBLES

- Durable thimble made from steel.
- Hot galvanized.



PART No.	SIZE	QTY.
24611	1/8	10
24612	3/16	10
24613	1/4	10
24616	1/2	5

HEAVY DUTY CABLE SHEARS

- Circular cable cutter gives a perfect cut, leaving no blunt ends.
- Maximum cable size space: 3/16"



PART No.	QTY.
71901	1

WIRE ROPE CRIMP SLEEVE SWAGING TOOL

- One tool for all your crimp sleeve swaging needs.
- Swags 1/16", 3/32", 1/8", 5/32" and 3/16" crimp sleeves.
- Tool includes a built-in cutter head



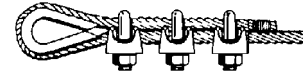
PART No.	QTY.
24609	1

WIRE ROPE CLIPS

- Raised saddle for superior holding power.
- Malleable clamp out-lasts heavy drop-forged types.



PART No.	SIZE-ROPE DIAMETER	QTY.
71529	1/8	10
71520	3/16	10
71521	1/4	10
71521-4	1/4	100
71522	5/16	10
71523	3/8	10
71524	7/16	10
71525	1/2	10
71526	5/8	5
71527	3/4	5
71528	7/8	5



APPLICATION CHART

SIZE	No. REQUIRED
1/8 to 3/8	2-4
7/16 to 1/2	3-4

STOPS FOR WIRE ROPE

- Stops wire rope from unraveling.
- Fits 1/8" diameter wire rope.
- Made of aluminum.



PART No.	QTY.
24599	100

CRIMP SLEEVES

- Used to crimp the cable ends together on overhead door cables and tank drain valve cables.
- Aluminum material for anti-corrosion.
- When sleeves are applied properly, they are capable of holding the rated breaking strength of the cable to which they are applied.



PART No.	DESCRIPTION	QTY.
24605	Fits a 1/16 Diameter Cable	50
24601	Fits a 3/32 Diameter Cable	50
24602	Fits a 1/8 Diameter Cable	50
24603	Fits a 5/32 Diameter Cable	50
24604	Fits a 3/16 Diameter Cable	50

WIRE ROPE HEAVY-DUTY THIMBLE

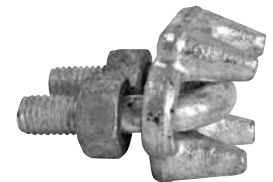
- Use when connecting the cable to oval and nut eyebolts.
- Will help keep the cable from flattening around the eye, which can cause the cable to weaken.
- Hot-dipped galvanized for corrosion resistance.



PART No.	SIZE	QTY.
24627	1/2	1

WIRE ROPE DROP FORGED CLIP

- Galvanized.
- Minimum of three clips required.



PART No.	SIZE	QTY.
24628	1/2	3

WIRE ROPE DROP FORGED FIST GRIP

- Galvanized.
- Minimum of three clips required.



PART No.	SIZE	QTY.
24629	1/2	3



ROD ENDS

MALE AND FEMALE ROD ENDS

- High-strength steel housing.
- Precision machined race for smooth roll.
- Steel case-hardened, tin nickel-plated ball for long lasting performance.
- Cadmium plated for best rust protection.

PART No.	TYPE	THREAD SIZE	HOLE SIZE	THREAD	QTY.
6450	Male	10 - 32	.190	RH	1
6451	Male	1/4 - 28	.250	RH	1
6452	Male	5/16 - 24	.312	RH	1
6322	Male	5/16 - 24	.312	LH	1
6453	Male	3/8 - 24	.375	RH	1
6323	Male	3/8 - 24	.375	LH	1
6454	Male	7/16 - 20	.437	RH	1
6324	Male	7/16 - 20	.437	LH	1
6455	Male	1/2 - 20	.500	RH	1
6325	Male	1/2 - 20	.500	LH	1
6326	Male	5/8 - 18	.625	LH	1
6460	Female	10 - 32	.190	RH	1
6461	Female	1/4 - 28	.250	RH	1
6462	Female	5/16 - 24	.312	RH	1
6330	Female	5/16 - 24	.312	LH	1
6463	Female	3/8 - 24	.375	RH	1
6464	Female	7/16 - 20	.437	RH	1
6465	Female	1/2 - 20	.500	RH	1
6333	Female	1/2 - 20	.500	LH	1



Male



Female

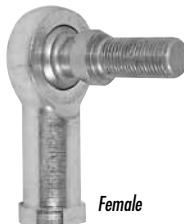
MALE AND FEMALE ROD ENDS WITH MALE THREAD STUD

- High-strength steel housing.
- Precision machined race for smooth roll.
- Cadmium plated for best rust protection.
- Steel case-hardened, tin nickel-plated ball for long lasting performance.
- Threads on studs are right handed threads.

PART No.	TYPE	THREAD SIZE	THREAD	QTY.
6470	Male	10 - 32 x 10 - 32	RH	1
6471	Male	1/4 - 28 x 1/4 - 28	RH	1
6472	Male	5/16 - 24 x 5/16 - 24	RH	1
6338	Male	5/16 - 24 x 5/16 - 24	LH	1
6473	Male	3/8 - 24 x 3/8 - 24	RH	1
6339	Male	3/8 - 24 x 3/8 - 24	LH	1
6474	Male	7/16 - 20 x 7/16 - 20	RH	1
6475	Male	1/2 - 20 x 1/2 - 20	RH	1
6341	Male	1/2 - 20 x 1/2 - 20	LH	1
6480	Female	10 - 32 x 10 - 32	RH	1
6481	Female	1/4 - 28 x 1/4 - 28	RH	1
6344	Female	1/4 - 28 x 1/4 - 28	LH	1
6482	Female	5/16 - 24 x 5/16 - 24	RH	1
6345	Female	5/16 - 24 x 5/16 - 24	LH	1
6483	Female	3/8 - 24 x 3/8 - 24	RH	1
6346	Female	3/8 - 24 x 3/8 - 24	LH	1
6484	Female	7/16 - 20 x 7/16 - 20	RH	1
6485	Female	1/2 - 20 x 1/2 - 20	RH	1
6348	Female	1/2 - 20 x 1/2 - 20	LH	1



Male



Female

BALL JOINTS

PART No.	DESCRIPTION	QTY.
6101	10 - 32 SAE	5
6102	1/4 - 28 SAE	5
6103	5/16 - 24 SAE	5
6104	3/8 - 24 SAE	5
6105	1/2 - 20 SAE	5



COLLARS

SET SCREW SHAFT COLLARS

- Manufactured from carbon steel; zinc plated.
- Tolerance: Bore 1/4" to 1/2", .0005" to .0025"
Bore 9/16" to 2", .0005" to .0030"

PART No.	BORE I.D.	COLLAR O.D.	COLLAR WIDTH	QTY.
8203	1/4	1/2	5/16	5
8204	5/16	5/8	5/16	5
8205	3/8	3/4	3/8	5
8207	1/2	1"	7/16	5
8209	5/8	1-1/8	1/2	2
8211	3/4	1-1/4	9/16	2
8212	7/8	1-1/2	9/16	2
8213	1"	1-1/2	5/8	2
8216	1-1/4	2"	11/16	2
8217	1-1/2	2-1/4	3/4	2



B27

STAINLESS STEEL SET SCREW SHAFT COLLARS

PART No.	BORE I.D.	COLLAR O.D.	COLLAR WIDTH	QTY.
108207	1/2	1"	7/16	2



TWO-PIECE HIGH STRENGTH SHAFT COLLARS

- Two piece collars may be easily installed where major disassembly would otherwise be necessary.
- Clamping design fully engages the shaft without marring or causing other shaft damage.
- Manufactured from carbon steel with a black oxide finish.
- Tolerance: .000" to .003"

PART No.	NOMINAL I.D.	COLLAR O.D.	COLLAR WIDTH	QTY.
8220	1/4	11/16	5/16	5
8222	3/8	7/8	3/8	5
8223	1/2	1-1/8	13/32	5
8224	5/8	1-5/16	7/16	2
8225	3/4	1-1/2	1/2	2
8226	7/8	1-5/8	1/2	2
8227	1"	1-3/4	1/2	2
8228	1-1/8	1-7/8	1/2	2
8229	1-1/4	2-1/16	1/2	2
8230	1-3/8	2-1/4	9/16	2
8233	1-1/2	2-3/8	9/16	2



SEALING WASHERS

SEALING WASHERS

PART No.	DESCRIPTION	QTY.
8100	Chrysler, Sanden discharge port	2
8101	Chrysler, Sanden suction port	2



O-RING, SEALING WASHERS

PART No.	OUTER DIAMETER	INNER DIAMETER	THICKNESS	COLOR	QTY.
8102	27.9mm	15.5mm	3.0mm	Black	2
8103	31.5mm	17.5mm	1.3mm	Silver	2
8104	27.9mm	15.5mm	1.2mm	Silver	2
8105	29.9mm	15.5mm	5.5mm	Green	2
8106	29.9mm	15.5mm	3.8mm	Red	2
8107	33.2mm	15.5mm	3.0mm	Black	2
8108	23.6mm	15.5mm	1.2mm	Silver	2
8111	16.1mm	8.1mm	1.3mm	Silver	2
8112	19mm	11.1mm	1.3mm	Silver	2
8113	23.6mm	15.5mm	1.3mm	Silver	2
8114	25.1mm	17.2mm	1.3mm	Silver	2



FRACTIONAL O-RING CHART

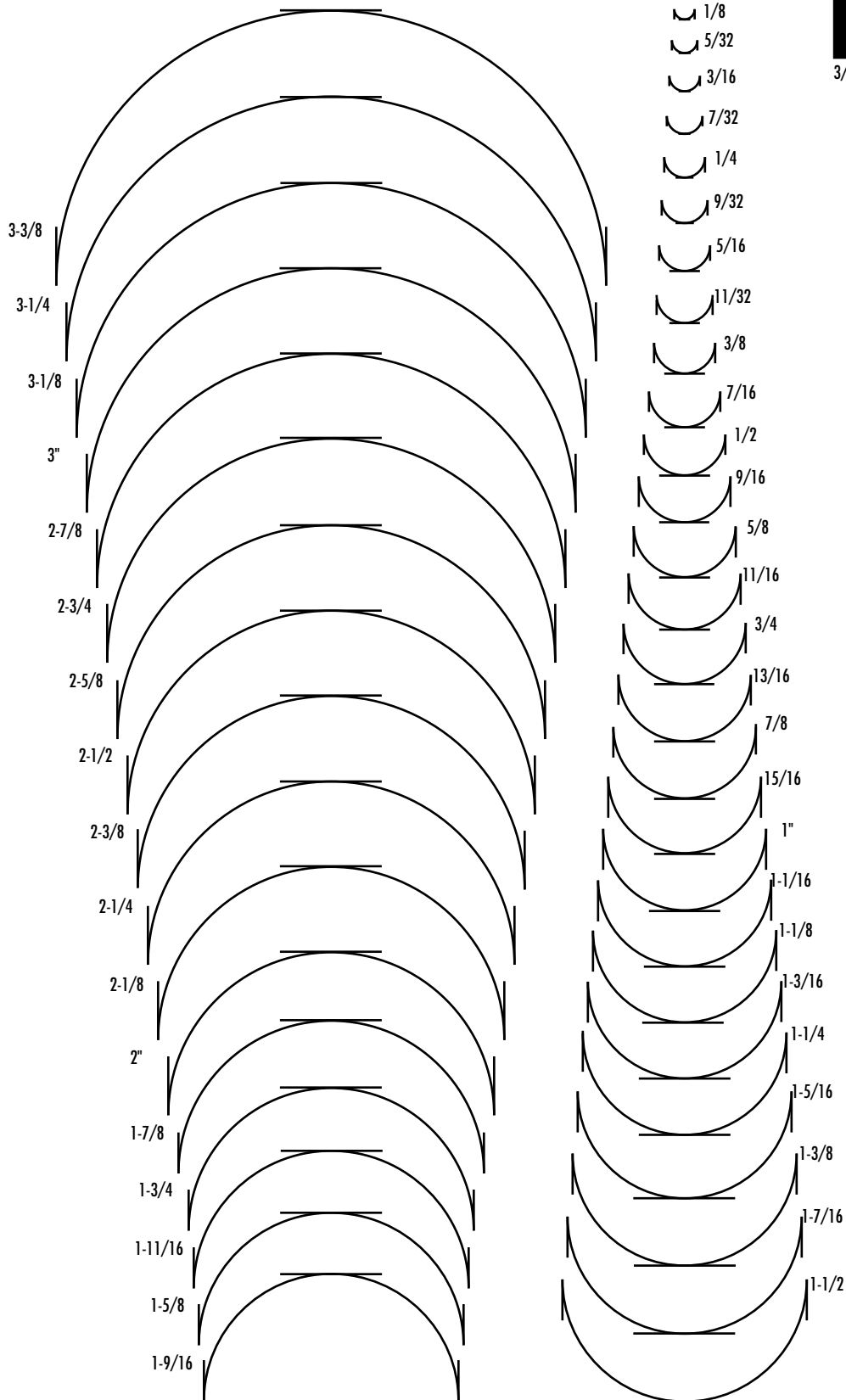
FRACTIONAL O-RING GAUGES

1. Determine width using thickness gauge.
2. Lay O-ring on page until inner diameter or outer diameter is determined.

FRACTIONAL CROSS SECTION GAUGE



B28

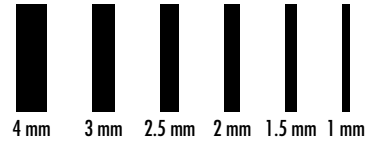


METRIC O-RING CHART

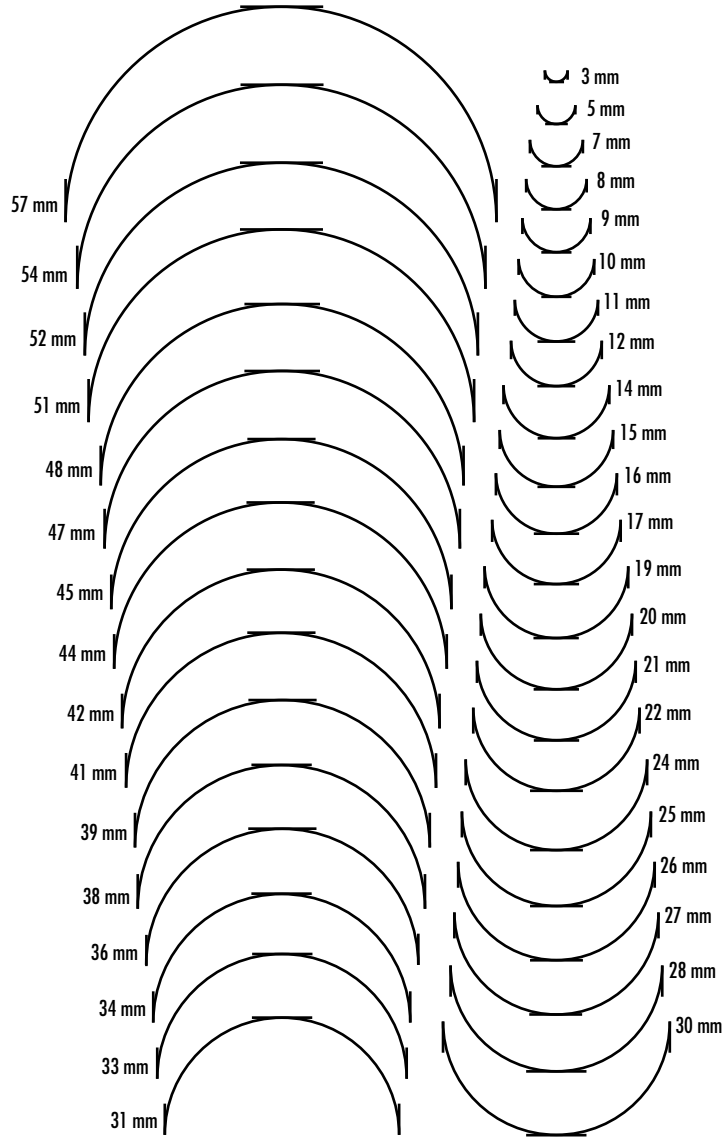
METRIC O-RING GAUGES

1. Determine width using thickness gauge.
2. Lay O-ring on page until inner diameter or outer diameter is determined.

METRIC CROSS SECTION GAUGE



B29



O-RINGS

B30

FRACTIONAL O-RINGS

- Army-Navy approved.
- MIL-P-5516 a.
- Buna-N 70 durometer (Nitrile-Butadiene).
- Resistant to fuel and oil products.



PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
70001	006	1/16	1/8	1/4	25
70002	007	1/16	5/32	9/32	25
70003	008	1/16	3/16	5/16	25
70004	009	1/16	7/32	11/32	25
70005	010	1/16	1/4	3/8	25
70006	011	1/16	5/16	7/16	25
70007	012	1/16	3/8	1/2	25
70007-1	013	1/16	7/16	9/16	25
70100	014	1/16	1/2	5/8	25
70011-1	015	1/16	9/16	11/16	25
70101	016	1/16	5/8	3/4	25
70102	017	1/16	11/16	13/16	25
70103	018	1/16	3/4	7/8	25
70104	019	1/16	13/16	15/16	25
70105	020	1/16	7/8	1"	20
70106	022	1/16	1"	1-1/8	20
70107	023	1/16	1-1/16	1-3/16	20
70108	024	1/16	1-1/8	1-1/4	20
70109	025	1/16	1-3/16	1-5/16	20
70110	026	1/16	1-1/4	1-3/8	20
70111	027	1/16	1-5/16	1-7/16	15
70112	028	1/16	1-3/8	1-1/2	20
70115	031	1/16	1-3/4	1-7/8	15
70116	032	1/16	1-7/8	2"	10
70037	109	3/32	5/16	1/2	25
70008	110	3/32	3/8	9/16	25
70009	111	3/32	7/16	5/8	25

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
70010	112	3/32	1/2	11/16	25
70011	113	3/32	9/16	3/4	25
70012	114	3/32	5/8	13/16	25
70013	115	3/32	11/16	7/8	25
70014	116	3/32	3/4	15/16	25
70130	117	3/32	13/16	1"	25
70131	118	3/32	7/8	1-1/16	20
70132	119	3/32	15/16	1-1/8	20
70133	120	3/32	1"	1-3/16	20
70134	121	3/32	1-1/16	1-1/4	20
70135	122	3/32	1-1/8	1-5/16	20
70136	123	3/32	1-3/16	1-3/8	20
70137	124	3/32	1-1/4	1-7/16	20
70138	125	3/32	1-5/16	1-1/2	20
70139	126	3/32	1-3/8	1-9/16	20
70140	127	3/32	1-7/16	1-5/8	20
70141	128	3/32	1-1/2	1-11/16	15
70142	129	3/32	1-9/16	1-3/4	15
70041	132	3/32	1-3/4	1-15/16	10
70039	204	1/8	3/8	5/8	25
70040	205	1/8	7/16	11/16	25
70043	208	1/8	5/8	7/8	25
70044	209	1/8	11/16	15/16	25
70015	210	1/8	3/4	1"	25
70016	211	1/8	13/16	1-1/16	25
70017	212	1/8	7/8	1-1/8	25
70018	213	1/8	15/16	1-3/16	25

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
70019	214	1/8	1"	1-1/4	25
70020	215	1/8	1-1/16	1-5/16	25
70021	216	1/8	1-1/8	1-3/8	20
70022	217	1/8	1-3/16	1-7/16	20
70023	218	1/8	1-1/4	1-1/2	20
70024	219	1/8	1-5/16	1-9/16	20
70025	220	1/8	1-3/8	1-5/8	20
70026	221	1/8	1-7/16	1-11/16	15
70027	222	1/8	1-1/2	1-3/4	15
70147	223	1/8	1-5/8	1-7/8	15
70148	224	1/8	1-3/4	2"	15
70149	225	1/8	1-7/8	2-1/8	10
70028	325	3/16	1-1/2	1-7/8	15
70029	326	3/16	1-5/8	2"	15
70030	327	3/16	1-3/4	2-1/8	15
70031	328	3/16	1-7/8	2-1/4	10
70032	329	3/16	2"	2-3/8	10
70033	330	3/16	2-1/8	2-1/2	10
70034	331	3/16	2-1/4	2-5/8	10
70035	332	3/16	2-3/8	2-3/4	10
70036	333	3/16	2-1/2	2-7/8	10
70160	334	3/16	2-5/8	3"	10
70161	335	3/16	2-3/4	3-1/8	10
70162	336	3/16	2-7/8	3-1/4	10
70163	337	3/16	3"	3-3/8	10
70164	338	3/16	3-1/8	3-1/2	10

VITON® O-RING

- Durometer: 75
- Excellent resistance to heat, ozone, oils and fuel.
- Temperature Range: -75° F - 400° F



Turn to page L6 for
O-ring Lubricant.

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
86006	006	1/16	1/8	1/4	25
86007	007	1/16	5/32	9/32	25
86008	008	1/16	3/16	5/16	25
86009	009	1/16	7/32	11/32	25
86010	010	1/16	1/4	3/8	25
86011	011	1/16	5/16	7/16	25
86012	012	1/16	3/8	1/2	25

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
86013	013	1/16	7/16	9/16	25
86016	016	1/16	5/8	3/4	25
86017	017	1/16	11/16	13/16	25
86110	110	3/32	3/8	9/16	25
86111	111	3/32	7/16	5/8	25
86112	112	3/32	1/2	11/16	25
86113	113	3/32	9/16	3/4	25

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
86114	114	3/32	5/8	13/16	25
86115	115	3/32	11/16	7/8	25
86116	116	3/32	3/4	15/16	25
86117	117	3/32	13/16	1"	25
86211	211	1/8	13/16	1-1/16	25
86212	212	1/8	7/8	1-1/8	25
86214	214	1/8	1"	1-1/4	25

METRIC O-RINGS

- Buna-N material.



PART No.	CROSS SECTION	I.D.	O.D.	QTY.
70050	2.0 mm	3 mm	7 mm	20
70082	2.0 mm	4 mm	8 mm	20
70051	2.0 mm	5 mm	9 mm	20
70052	2.0 mm	7 mm	11 mm	20
70053	2.0 mm	8 mm	12 mm	20
70054	2.0 mm	10 mm	14 mm	20
70055	2.0 mm	12 mm	16 mm	20
70049	2.5 mm	8 mm	13 mm	20
70056	2.5 mm	10 mm	15 mm	20
70057	2.5 mm	11 mm	16 mm	20
70058	2.5 mm	12 mm	17 mm	20
70059	2.5 mm	14 mm	19 mm	20

PART No.	CROSS SECTION	I.D.	O.D.	QTY.
70060	2.5 mm	16 mm	21 mm	20
70061	2.5 mm	17 mm	22 mm	20
70062	2.5 mm	19 mm	24 mm	20
70063	2.5 mm	20 mm	25 mm	20
70064	2.5 mm	22 mm	27 mm	20
70065	3.0 mm	19 mm	25 mm	20
70066	3.0 mm	20 mm	26 mm	20
70067	3.0 mm	22 mm	28 mm	20
70068	3.0 mm	24 mm	30 mm	20
70069	3.0 mm	25 mm	31 mm	20
70070	3.0 mm	27 mm	33 mm	20
70071	3.0 mm	28 mm	34 mm	15

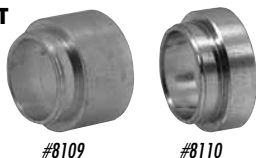
PART No.	CROSS SECTION	I.D.	O.D.	QTY.
70072	3.0 mm	30 mm	36 mm	15
70073	3.0 mm	32 mm	38 mm	15
70074	3.0 mm	33 mm	39 mm	15
70075	3.0 mm	35 mm	41 mm	15
70076	3.0 mm	36 mm	42 mm	15
70077	3.0 mm	38 mm	44 mm	15
70078	3.0 mm	41 mm	47 mm	15
70079	3.0 mm	45 mm	51 mm	15
70080	3.0 mm	48 mm	54 mm	15
70081	3.0 mm	51 mm	57 mm	15
70083	3.5 mm	48 mm	55 mm	10
70090	4.0 mm	44 mm	52 mm	10



O-RING KITS & ACCESSORIES

O-RING SEALING WASHER INSERT

PART No.	DESCRIPTION	QTY.
8109	Sealing Washer Insert	2
8110	Sealing Washer Insert	2



RUBBER FRACTIONAL O-RING

PART No.	INDUSTRY NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
890217	006	1/16	1/8	1/4	25



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QUAD O-RINGS ASSORTMENT

- 36 sizes; 226 total pieces
- Inner Diameter: 7/64" to 1-5/16"
- Material: BUNA 70 Durometer
- Case dimensions: 7-3/4" W x 1-5/8H x 5-1/2"

PART No.	QTY.
201-1	1



AIR CONDITIONING O-RINGS ASSORTMENT

- 12 sizes; 220 total pieces
- Inner Diameter: 3/16" through 13/16"
- Material: HNBR Green, 70 durometer
- Case dimensions: 7-3/4" W x 1-3/4" H x 5-1/2"

PART No.	QTY.
147-1	1



O-RING SPLICING KIT WITH REPLACEMENT RUBBER CORDS

- Kit Includes:
 - » (1) cutting and splicing jig.
 - » (1) tube Kwik Set adhesive.
 - » O-ring Nitrile Buna-N cord stock:
 - (1) piece: 3/32 (.103") x 7' long
 - (1) piece: 1/8 (.139") x 7' long
 - (1) piece: 3/16 (.210") x 7' long
 - (1) piece: 1/4 (.275") x 7' long

PART No.	QTY.
69900	1



METRIC AC O-RINGS ASSORTMENT

- 12 sizes, 120 pieces.
- High Temperature Green HNBR.

PART No.	QTY.
155-1	1



FRACTION O-RING KIT

- 30 sizes; 382 total pieces.
- Inner Diameter: 1/8" through 1-3/4"
- Packaged in a plastic tray.
- O-ring fits into its own special slot or peg.

PART No.	QTY.
163-1	1



METRIC O-RING KIT

- 32 sizes, 426 total pieces.
- Inner Diameter: 3 through 51 mm
- Each O-ring fits into its own special slot or peg.

PART No.	QTY.
164-1	1



AC SEALING WASHER O-RING KIT

- 15 sizes, 47 total pieces.
- GM and Chrysler sealing washers.

PART No.	QTY.
153-1	1



Amy
Pricing Analyst

Conscientious...

"Imperial's employees make the difference. We are dedicated to going above and beyond for our customers."



AIR CONDITIONING O-RINGS

B32

AIR CONDITIONING O-RINGS

- High Temperature Green HNBR.



PART No.	DESCRIPTION	CROSS REF.	QTY.
8125	Metric Ford #6, Nissan #10	4006	10
8126	Metric Ford #8, Nissan #12	4008	10
8127	Metric Ford #10	4010	10
8128	Metric #12 Hose Fitting	4012	10
8129	Metric GM #8 Captured	4028	10
8130	GM Capillary Tube	4052	10
8131	Ford Combination Valve	4080	10
8132	Metric Chrysler, Asian Imports	4094	10
8133	Metric Toyota Liquid Line/Drier #5	4186	10
8134	Metric Captive Nissan	4187	10
8135	Metric #6 ATCO Compression Fitting	4190	10
8136	Metric Captive Nissan, Honda	4203	10
8137	Metric Imports	4192	10
8139	GM #8, 1/2"	4038	10
8140	Compressor Sensory	4043	10
8141	Chrysler Expansion Valve	4044	10
8142	Ford/GM Orifice Tube	4051	10
8143	Suction/Discharge Port	4170	10
8144	Metric Hose and Drier	4183	10
8145	Metric Ford #6 Spring Lock Couplers	4192	10
8146	Metric 7.4mm Imports	4195	10
8147	Metric 16.9mm	4202	10
8148	Metric Ford Combination Valve	4206	10
8149	Metric Chrysler Gasket Mate	4213	10
8150	Metric Asian Imports	4222	10
8151	Metric #8 Compression	4230	10
8152	Metric Hitachi Service Valve	4233	10
8153	Metric Mercedes with Tabs	4220	10
8154	Metric 9mm Imports	4199	10
8155	GM Oil Tube & Filler Bolt, Nissan #8	4208	10
8156	Metric Chrysler	4089	10
8157	Diesel	4235	10
8158	Metric Ford #10 Spring Lock Coupler	4194	10
8159	Chrysler Expansion Valve	4168	10

GASKET

PART No.	DESCRIPTION	CROSS REF.	QTY.
8138	York/Tecumseh PTFE Rotolock Seal	4018	10



AIR CONDITIONING O-RINGS

- Material: HNBR Green, 70 durometer

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
70117	008	1/16	3/16	5/16	20
70118	010	1/16	1/4	3/8	20
70119	011	1/16	5/16	7/16	20
70120	012	1/16	3/8	1/2	20
70121	013	1/16	7/16	9/16	20
70122	014	1/16	1/2	5/8	20
70123	015	1/16	9/16	11/16	20
70124	017	1/16	11/16	13/16	20
70125	111	3/32	7/16	5/8	20
70126	116	3/32	3/4	15/16	20
70127	118	3/32	7/8	1-1/16	10



BLUE NEOPRENE AIR CONDITIONING O-RING

- PTFE Coated.
- Use with: R134A and R12

PART No.	DASH NUMBER	CROSS SECTION	I.D.	O.D.	QTY.
890285	012	1/16	3/8	1/2	25
890289	017	1/16	11/16	13/16	25
890284	108	1/4	7/16	3/32	25
890286	110	3/32	3/8	9/16	25
890287	112	3/32	1/2	11/16	25
890288	113	3/32	9/16	3/4	25



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"I'm more than just a person on the phone. I'm an advocate. My customers know me, and they know I'll come through."

**Imperial
continuously
adds new
products.**



ANCHOR SCREWS

TAPCON® MASONRY FASTENING SYSTEM

- The original blue masonry anchor that cuts threads into concrete, brick, or hollow block.
- Fast installation; drill a hole, drive an anchor.
- Available in 3/16" and 1/4" diameters and in 1-1/4" to 6" lengths.
- Replaces small diameter expansion anchors, plugs and screws in light to medium duty applications.
- No need to pre-spot holes, no inserts are required.
- Can be installed close to an edge.
- Reversible and removable.
- One drill bit included with each box of 100.

APPLICATIONS

- Fastening to masonry: Electrical junction boxes, conduit clips, wood headers, furring strips, HVAC strapping, plywood backer boards, exterior insulation systems.

TAPCON® SLOTTED HEX HEAD ANCHOR

PART NO.	HEAD	LENGTH	FIXTURE THICKNESS	QTY.
11270	3/16	1-1/4	0-1/4	100
11271	3/16	1-3/4	1/4-3/4	100
11272	3/16	2-1/4	3/4-1-1/4	100
11273	3/16	2-3/4	1-1/4-1-3/4	100
11274	3/16	3-1/4	1-3/4-2-1/4	100
11275	3/16	3-3/4	2-1/4-2-3/4	100
11276	3/16	4"	2-1/2-3"	100
11277	1/4	1-1/4	0-1/4	100
11278	1/4	1-3/4	1/4-3/4	100
11279	1/4	2-1/4	3/4-1-1/4	100
11280	1/4	2-3/4	1-1/4-1-3/4	100
11281	1/4	3-1/4	1-3/4-2-1/4	100
11282	1/4	3-3/4	2-1/4-2-3/4	100
11283	1/4	4"	2-1/2-3"	100



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TECHNICAL INFORMATION

Product Specifications

DIAMETER	THREAD FORM	POINT TYPE	FINISH
3/16" and 1/4"	Original notched Hi-Lo	Nail	Blue Climaseal

Corrosion Specifications

INCREMENT	RESULTS
30 Cycles	10% or less red rust Salt Spray Results (ASTM B117)
720 Hours	10% or less red rust

Kesternich Results (DIN 50018, 2.0L)

Performance Data

ANCHOR DIAMETER	DEPTH OF EMBEDMENT IN SOLID MATERIAL			
	1"	1-1/4	1-1/2	1-3/4
Pullout in concrete (3,145 psi, cured 40 days)				
3/16	341 lb	581 lb	863 lb	1059 lb
1/4	718 lb	1138 lb	1537 lb	1860 lb

Test Number CH3932/Pittsburgh Testing Laboratories

ANCHOR DIAMETER	DEPTH OF EMBEDMENT IN SOLID MATERIAL			
	1"	1-1/4	1-1/2	1-3/4
Pullout in hollow block				
3/16	209 lb	357 lb	468 lb	547 lb
1/4	406 lb	615 lb	851 lb	984 lb

Test Number CH3748/Pittsburgh Testing Laboratories

Shear Strength

ANCHOR DIAMETER	ANCHOR EMBEDMENT	SHEAR STRENGTH	
		3145 PSI HARD ROCK CONCRETE	LIGHTWEIGHT HOLLOW BLOCK
3/16	1-1/4	852 lb	731 lb
1/4	1-1/4	1604 lb	1058 lb

Test Number CH3932/Pittsburgh Testing Laboratories

TAPCON® PHILLIPS FLAT HEAD ANCHOR

PART NO.	HEAD	LENGTH	FIXTURE THICKNESS	QTY.
11284	3/16	1-1/4	0-1/4	100
11285	3/16	1-3/4	1/4-3/4	100
11286	3/16	2-1/4	3/4-1-1/4	100
11287	3/16	2-3/4	1-1/4-1-3/4	100
11291	1/4	1-1/4	0-1/4	100
11293	1/4	2-1/4	3/4-1-1/4	100



TAPCON® INSTALLATION TOOL

- Condrive™ 1000 — A multi-purpose tool designed for installation of Tapcon® hex head and Phillips flat head anchors up to 4" long.
- Designed to specifically install Tapcon® Anchors and to fit standard hammer drills.

PART NO.	QTY.
11265	1



TAPCON® INSTALLATION TOOL REPLACEMENT BITS

PART NO.	SIZE	SCREW DIAMETER	QTY.
11267	5/32 x 5-1/2	3/16	2
11269	3/16 x 5-1/2	1/4	2



See page I6 for Carbide Tipped Masonry Drill Bits.



ANCHORS

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LEAD SLEEVE ANCHOR

- Lead sleeve.
- Metal cone is a rust-proof alloy.



PART No.	SCREW/BOLT SIZE	HOLE SIZE	SAFE WORKING LOAD	QTY.
11350	1/4 - 20	1/2	200 lb	10
11351	5/16 - 18	5/8	300 lb	10
11352	3/8 - 16	3/4	450 lb	10

LEAD ANCHOR

- Designed for use with sheet metal or wood screws in concrete, block, or brick.
- Lead alloy for easy installation, yet secure holding power.
- Quarter design allows circumferential expansion, while its flange permits use in hollow material.
- Recommended for light-duty applications.



PART No.	SCREW/BOLT SIZE	HOLE SIZE	QTY.
11210	10 - 14	1-1/2	100

DROP-IN ANCHORS

- This all-steel anchor is designed to be used in solid concrete, hard stone and solid block.
- Drop-in anchors are an internally threaded expansion anchor complete with an integral expander plug.
- The matching setting tool drives the internal prefitted plug to expand the anchor without damaging the internal threads.
- Anchors are zinc plated.



PART No.	DIAMETER	MINIMUM DEPTH	THREAD DEPTH	DRILL DIAMETER	QTY.
11330	1/4	1"	7/16	3/8	25
11331	3/8	1-9/16	5/8	1/2	25
11332	1/2	2"	13/16	5/8	10

SHORT ALLOY LAG SCREW EXPANSION SHIELD

- Precision die-cast expansion shield of rust-proof alloy.
- Provides anchorage in mortar, stone, and other types of solid masonry.



PART No.	DIAMETER OF LAG SCREW	SHIELD LENGTH	HOLE SIZE	QTY.
11356	5/16	1-1/4	1/2	10
11357	3/8	1-3/4	5/8	10

DOUBLE EXPANSION ANCHORS

- Dual expansion bolt anchor for use in materials of questionable strength.
- It can be used in solid concrete, block, brick and stone.
- Consists of twin tubular sleeves, bound together with high-tension spring steel bands, which contain two protruding wedge-shaped hollow cones. One cone is smooth, while the other is threaded. As the anchor is tightened, the opposing wedges are drawn in tightly, providing full length, 360° expansion over a large bearing area.
- Made of Zamac 7 Alloy.
- To select the proper length bolt, determine the thickness of the fixture including any spacers or shims. Add this to the depth required to engage at least 2/3 of the threads in the cone.



PART No.	SIZE (IN.)	ANCHOR LENGTH	DRILL DIAMETER	MINIMUM HOLE DEPTH	QTY.
11215	1/4	1-3/8	1/2	1-1/4	50
11216	5/16	1-5/8	5/8	1-1/2	50
11217	3/8	2"	3/4	1-3/4	50

NOTE: the anchor length published is measured end-to-end.

Think safety first. Always.
Imperial offers a wide range of Safety Products.

HAMMER DRIVE SCREWS

- Unique one step drive anchor.
- Features a Phillips type head and screw thread for use in concrete, block, brick, or stone.
- To remove, simply unscrew the Phillips head carbon drive screw and remove the anchor.
- Body formed from corrosion resistant Zamac 7 alloy with a carbon steel drive screw.



PART No.	SIZE	DRILL DIAMETER	QTY.
11251	1/4 x 1"	1/4	50
11252	1/4 x 1-1/4	1/4	50
11253	1/4 x 1-1/2	1/4	50
11254	1/4 x 2"	1/4	50
11256	1/4 x 3"	1/4	25

HAMMER DRIVE ANCHORS

- Steel nail/zinc alloy anchor.



PART No.	DIAMETER	LENGTH	QTY.
11340	1/4	1"	50
11341	1/4	1-1/4	50
11342	1/4	1-1/2	50
11343	1/4	2"	50

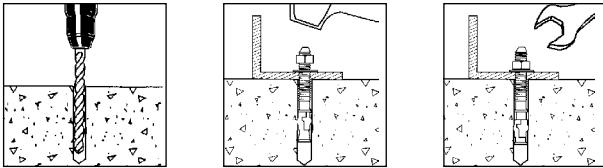


ANCHORS

B35

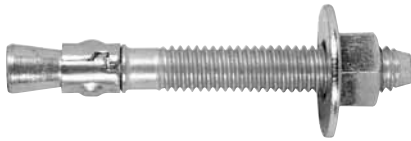
POWER STUD ANCHOR INSTALLATION PROCEDURES

- Step 1:** Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.
- Step 2:** Blow the hole clean of dust and position the Power Stud. Drive the anchor through the fixture into the anchor hole until the nut and washer are firmly seated against the fixture. Be sure the anchor is driven to the required embedment depth.
- Step 3:** Tighten the anchor by turning the nut 3 to 4 turns or by applying the guide installation torque from the finger tight position.



POWER STUD ANCHOR

- The Power Stud anchor is a one-piece, wedge style anchor designed for use in concrete.
- The anchor diameter is the same as the diameter of the hole for faster installation.
- Chamfered threaded end prevents damage to the threads during installation.
- Carbon steel Power Stud anchors are bright zinc plated.



PART No.	SIZE	MINIMUM EMBEDMENT	THREAD LENGTH	QTY.
10531	1/4 x 1-3/4	1-1/8	3/4	25
10532	1/4 x 2-1/4	1-1/8	1-1/4	25
10533	1/4 x 3-1/4	1-1/8	2"	25
10534	3/8 x 2-1/4	1-5/8	1"	25
10535	3/8 x 3"	1-5/8	1-3/4	25
10536	3/8 x 3-3/4	1-5/8	2-1/2	10
10537	3/8 x 5"	1-5/8	3-3/4	10
10539	1/2 x 4-1/2	2-1/4	3"	10
10540	1/2 x 5-1/2	2-1/4	4"	10
10543	5/8 x 5"	2-3/4	3-3/8	5
10544	5/8 x 6"	2-3/4	4-3/8	5
10546	3/4 x 4-1/4	3-3/8	2-1/4	5
10551	3/4 x 4-3/4	3-3/8	2-7/8	5
10547	3/4 x 5-1/2	3-3/8	3-1/2	5
10548	3/4 x 6-1/4	3-3/8	4-1/4	5
10549	3/4 x 7"	3-3/8	5"	5
10550	1" x 6"	4-1/2	2-3/8	2

The length shown is the overall length of the anchor.
Allow one anchor diameter for the nut and washer thickness when selecting a length.

See page I6 for Carbide Tipped Masonry Drill Bits.

TO USE WEJ-IT®

- Step 1:** Drill hole to depth equal to length of Wej-it®.
- Step 2:** Insert Wej-it® so that washers rest against fixture.
- Step 3:** Tighten nut, two or three full turns, on average.



Source: Ketchum Konkell York Research Tests: U.S. Testing Company, Inc. Recommended safe working load is one-fourth of tensile and shear reading as listed.

For 2,500 psi concrete, take 60% of above tensile figures. For 3,000, take 80%; for 4,500, add 20% to the above tensile; for 5,500, add 50%; for 6,000, add 60%.

To get a recommended safety of 4:1, divide the above figures by 4.

WEJ-IT®

- Combines the nut, washer, bolt and anchor in one integral unit.
- Use in concrete.

CHOOSING THE SIZE: SELECTION OF ANY ANCHOR IS NOT ABSOLUTELY SCIENTIFIC BECAUSE MUCH DEPENDS UPON THESE FACTORS:

1. Diameter of the hole already in the fixture or equipment.
2. Depth, mix, strength and age of concrete.
3. Tensile or shear values desired.
4. Safety factor required.



PART No.	SHANK SIZE	THREAD LENGTH	TENSILE STRENGTH LB	SHEAR STRENGTH LB	QTY.
11301	1/4-20 x 1-3/4	1/2	1,450	2,000	50
11305	5/16-18 x 2"	5/8	1,900	2,200	25
11306	5/16-18 x 3"	5/8	2,180	2,200	25
11308	3/8-16 x 2"	3/4	3,200	2,500	25
11309	3/8-16 x 2-3/4	3/4	3,689	2,500	25
11310	3/8-16 x 3-1/2	3/4	3,947	2,500	10
11314	1/2-13 x 2-3/4	7/8	4,200	6,600	10
11315	1/2-13 x 3-1/2	7/8	5,065	6,600	10
11316	1/2-13 x 5"	7/8	5,281	6,600	10
11319	5/8-11 x 3-1/2	13/16	6,940	11,000	10
11326	3/4-10 x 5"	1-3/8	17,194	17,000	6

If you can't find the products you are looking for, call us, and we will find it for you.

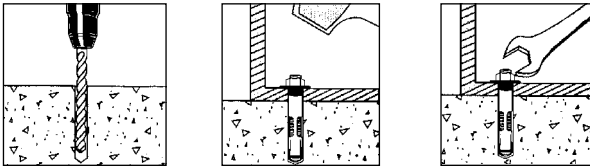


ANCHORS

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HEX NUT LOK BOLTS INSTALLATION PROCEDURES

- Step 1:** Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. Blow the hole clean of dust and other material. Do not expand the anchor prior to installation.
- Step 2:** Drive the anchor through the fixture into the anchor hole until the head is firmly seated against the fixture. Be sure the anchor is driven to the required embedment depth.
- Step 3:** Tighten the anchor by turning the nut or head 3 or 4 turns or by applying the guide installation torque from the finger tight position.



HEX NUT LOK BOLT

- For use in concrete, block, brick and stone.
- Made of zinc plated steel (ASTM B-633).

PART No.	SIZE	DRILL DIAMETER	QTY.
10501	5/16 x 2-1/2	5/16	25
10504	3/8 x 3"	3/8	25
10507	1/2 x 3"	1/2	10

GSA Specification FF-S-325 Group II, Type 3, Class 3



HOLLOW WALL ANCHORS

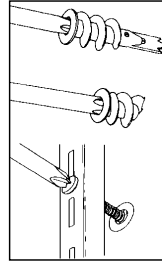
- Use in wallboard, plaster, or paneling.
- No other fastener needed.
- Made of steel, zinc plated (ASTM B-633).
- Slotted hex head screws available.
- Remove screw as often as needed.
- Drive type does not require drilling.

PART No.	SIZE	TYPE	WALL THICKNESS	DRILL DIAMETER	QTY.
11375	1/8" Short	Standard	3/8 - 1/2	5/16	25
11376	1/8" Long	Standard	5/8 - 1"	5/16	25
11377	3/16" Short	Standard	3/8 - 5/8	5/16	25
11378	3/16" Long	Standard	3/4 - 1-1/8	3/8	25
11379	1/4" Short	Standard	3/8 - 1/2	7/16	25
11380	1/4" Long	Standard	5/8 - 1-1/8	7/16	25
11381	1/8" Short	Drive	3/8 - 1/2	—	25
11382	1/8" Long	Drive	1/2 - 3/4	—	25



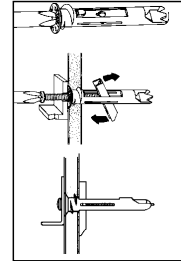
INSTALLATION PROCEDURES

Medium Duty E-Z Anchor® and E-Z Anchor Lite™



1. Press into drywall with a Phillips screwdriver while turning the anchor clockwise until it is seated flush with wall.
2. Place fixture in position over installed Anchor™. Insert screw with screwdriver. Tighten fixture in place.

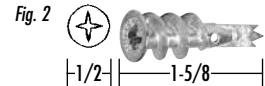
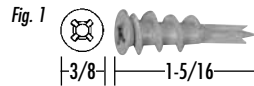
Heavy-Duty E-Z Toggle™



1. Press into drywall with a Phillips screwdriver while turning the anchor clockwise until it is seated flush with wall and arrows on head are parallel to stud.
2. Place fixture in position over installed E-Z Toggle™. Insert screw and push through E-Z Toggle™ to engage clamp.
3. Continue turning screw until tight. The clamp will move back against the drywall as the screw is turned.

SELF DRILLING E-Z WALLBOARD ANCHORS

- No hole preparation necessary; drills small, precise hole in gypsum wallboard.
- Deep thread design provides strong engagement in 3/8", 1/2" and 5/8" gypsum wallboard.
- Installs quickly and easily with a #2 Phillips screwdriver or power-driver.



PART No.	IMAGE	QUALITY	ANCHOR MATERIAL	SCREW SIZE	MAXIMUM FIXTURE THICKNESS	QTY.
11261	Fig. 1	Light Duty	White Nylon	6 x 1-1/4 SMS	0-3/4	100
11262	Fig. 1	Heavy Duty	White Nylon	8 x 1-1/4 SMS	0-3/4	100
11263	Fig. 2	Heavy Duty	Zinc	8 x 1-1/4 SMS	0-3/4	100



Eric
Purchasing Manager

Consistent...

"Trends. That means knowing more than just a catalog. It means knowing an industry."



ANCHORS

PLASTIC WALL ANCHORS

- Designed for use with lightweight fixtures.
- Use in concrete, block, brick, or wallboard.
- Use in conjunction with the corresponding sheet metal or wood screw.
- Three horizontal fins prevent the anchor from turning in the hole as the screw is tightened.



PART No.	SIZE	DRILL DIAMETER	MINIMUM DEPTH	QTY.
11211	8-10 x 7/8	3/16	7/8	100
11212	10-12 x 1"	1/4	1"	100
11213	14-16 x 1-1/2	5/16	1-1/2	50

UNIVERSAL HOLLOW WALL ANCHORS

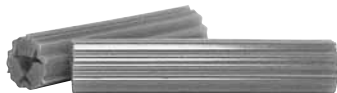
- Self-centering in hole.
- For all hollow wall applications.



ANCHOR PART No.	COLOR	LENGTH	FOR SCREW SIZE	QTY.	DRILL SIZE	MASONRY DRILL PART No.	QTY.
11260	Red	1"	6-8-10-12	100	1/4	70679	3

VINYL SCREW ANCHORS

- Use in all drillable materials.
- Self-centering.
- Self-lubricating.
- Inexpensive to use.
- Use any style screw.
- Resists acid and corrosion.
- Requires smaller hole than metal anchors.
- Provides for flush mounting of fixtures.



ANCHOR PART No.	COLOR CODE	LENGTH	FOR SCREW SIZE	QTY.	DRILL SIZE	MASONRY DRILL PART No.	QTY.
11214	White	1"	1/4	100	3/16	70678	3
11222	Red	1-1/2	1/4	100	1/4	70679	3
11226	Green	1"	5/16	100	1/4	70679	3
11228	Green	1-1/2	5/16	100	1/4	70679	3

TOGGLE BOLT WALL ANCHORS

- For use in block, wallboard, plaster, hollow tile, etc.
- Made of zinc plated steel.
- Conforms to ASTM B-633.
- Includes wings.



GSA Specification FF-B-588C
Type 1, Class A, Style 1

PART No.	SIZE	QTY.
11244	1/8 x 3"	50
11243	1/8 x 4"	50
11245	3/16 x 3"	50
11246	3/16 x 4"	50
11239	1/4 x 3"	50
11248	1/4 x 4"	50
11249	1/4 x 6"	25
11257	3/8 x 4"	25
11258	3/8 x 6"	25

POLY-TOGGLE SCREW ANCHOR

- Patented anchor is a fast, easy-to-use hollow wall anchor.
- For use in solid masonry, the outer wings are twisted off.
- Use in wallboard, solid masonry, or hollow doors.
- Made of polypropylene.
- Screw-activated, accepts #6 to #12 screws.
- Exact fit assures solid holding power.
- If screw is removed, anchor stays in place.



INSTALLATION:

- Drill 5/16" hole. Squeeze Poly-toggle flat and push into hole.
- Top flush with wall.
- Put fixture in place, insert screw and tighten until it feels secure.

PART No.	WALL THICKNESS	DRILL DIAMETER	LOAD CAPACITIES				
			WALLBOARD		CONCRETE BLOCK		
			TENSION	SHEAR	TENSION	SHEAR	QTY.
11391	3/8	5/16	135	165	240	220	50
11392	1/2	5/16	150	220	280	230	50
11393	5/8	5/16	170	250	350	230	50

STENCILS

NUMBER & LETTER STENCIL SETS

- 15 pieces.
- Interlocking brass stencils.
- Reusable and long lasting.
- Set contains all numbers or letters, plus dash, 2-period, spacer, ender, comma and &.



PART No.	DESCRIPTION	PIECES	QTY.
7212	2" Numbers	15	1
7213	3" Numbers	15	1
7216	2" Letters	33	1

STENCIL INK

- High solids formula for one coat coverage.
- Sprays a sharp, clean edge without smearing or smudging.
- Dries quickly for a permanently marked surface.
- Meets MIL-A-A-208B.
- Waterproof and weather resistant.
- Primary applications: cartons, corrugated boxes, fiber drums, lumber, wooden crates, steel coils, metals, paper, fabrics, plastics, plaster, stone, glass, asphalt and concrete



PART No.	COLOR	NET Wt.	QTY.
85131	Black	12 oz	12

We stock hundreds of Drill Bits.
Check them out in Section I.

Visit the Imperial website.
www.imperialsupplies.com



ADHESIVE NUMBERS & LETTERS

B38

FLEET NUMBERS AND LETTERS

- For fleet number and lettering of equipment.
- Pressure sensitive backing.
- Available in black or white.
- High gloss vinyl material.
- Marine quality in a die cut.



1" BLACK PART NO.	1" WHITE PART NO.	DIGIT	QTY.	1-1/4" BLACK PART NO.	1-1/4" WHITE PART NO.	DIGIT	QTY.
5465	—	0	10	5490	—	0	10
5466	—	1	10	5491	—	1	10
5467	—	2	10	5492	—	2	10
5468	—	3	10	5493	—	3	10
5469	—	4	10	5494	—	4	10
5470	—	5	10	5495	—	5	10
5471	—	6	10	5496	—	6	10
5472	—	7	10	5497	—	7	10
5473	—	8	10	5498	—	8	10
5474	—	9	10	5499	—	9	10

2" BLACK PART NO.	2" WHITE PART NO.	DIGIT	QTY.	2" BLACK PART NO.	2" WHITE PART NO.	DIGIT	QTY.	2" BLACK PART NO.	2" WHITE PART NO.	DIGIT	QTY.	2" BLACK PART NO.	2" WHITE PART NO.	DIGIT	QTY.
5300	5336	0	10	5310	5346	A	10	5320	5356	K	10	5330	5366	U	10
5301	5337	1	10	5311	5347	B	10	5321	5357	L	10	5331	5367	V	10
5302	5338	2	10	5312	5348	C	10	5322	5358	M	10	5332	5368	W	10
5303	5339	3	10	5313	5349	D	10	5323	5359	N	10	5333	5369	X	10
5304	5340	4	10	5314	5350	E	10	5324	5360	O	10	5334	5370	Y	10
5305	5341	5	10	5315	5351	F	10	5325	5361	P	10	5335	5371	Z	10
5306	5342	6	10	5316	5352	G	10	5326	5362	Q	10				
5307	5343	7	10	5317	5353	H	10	5327	5363	R	10				
5308	5344	8	10	5318	5354	I	10	5328	5364	S	10				
5309	5345	9	10	5319	5355	J	10	5329	5365	T	10				

3" BLACK PART NO.	3" WHITE PART NO.	DIGIT	QTY.	3" BLACK PART NO.	3" WHITE PART NO.	DIGIT	QTY.	3" BLACK PART NO.	3" WHITE PART NO.	DIGIT	QTY.	3" BLACK PART NO.	3" WHITE PART NO.	DIGIT	QTY.
5372	5408	0	10	5382	5418	A	10	5392	5428	K	10	5402	5438	U	10
5373	5409	1	10	5383	5419	B	10	5393	5429	L	10	5403	5439	V	10
5374	5410	2	10	5384	5420	C	10	5394	5430	M	10	5404	5440	W	10
5375	5411	3	10	5385	5421	D	10	5395	5431	N	10	5405	5441	X	10
5376	5412	4	10	5386	5422	E	10	5396	5432	O	10	5406	5442	Y	10
5377	5413	5	10	5387	5423	F	10	5397	5433	P	10	5407	5443	Z	10
5378	5414	6	10	5388	5424	G	10	5398	5434	Q	10				
5379	5415	7	10	5389	5425	H	10	5399	5435	R	10				
5380	5416	8	10	5390	5426	I	10	5400	5436	S	10				
5381	5417	9	10	5391	5427	J	10	5401	5437	T	10				

3" RED PART NO.	DIGIT	QTY.	3" RED PART NO.	DIGIT	QTY.	4" BLACK PART NO.	4" WHITE PART NO.	DIGIT	QTY.	5" BLACK PART NO.	DIGIT	QTY.	7" WHITE PART NO.	DIGIT	QTY.
5565	0	10	5633	A	10	5444	5454	0	10	5545	0	5	5480	0	1
5566	1	10	5575	B	10	5445	5455	1	10	5546	1	5	5481	1	1
5567	2	10	5576	C	10	5446	5456	2	10	5547	2	5	5482	2	1
5568	3	10	5577	D	10	5447	5457	3	10	5548	3	5	5483	3	1
5569	4	10	5578	E	10	5448	5458	4	10	5549	4	5	5484	4	1
5570	5	10	5579	M	10	5449	5459	5	10	5550	5	5	5485	5	1
5571	6	10	5635	P	10	5450	5460	6	10	5551	6	5	5486	6	1
5572	7	10	5580	R	10	5451	5461	7	10	5552	7	5	5487	7	1
5573	8	10	5634	S	10	5452	5462	8	10	5553	8	5	5488	8	1
5574	9	10	5581	U	10	5453	5463	9	10	5554	9	5			
			5582	Z	10										



See page L12 for Decal and Sticker Remover.

