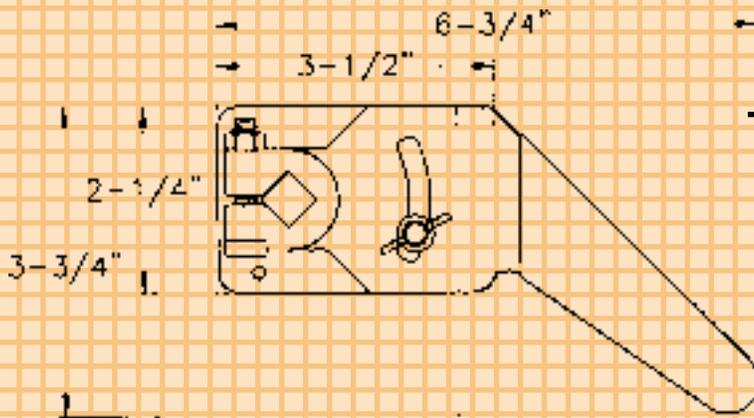
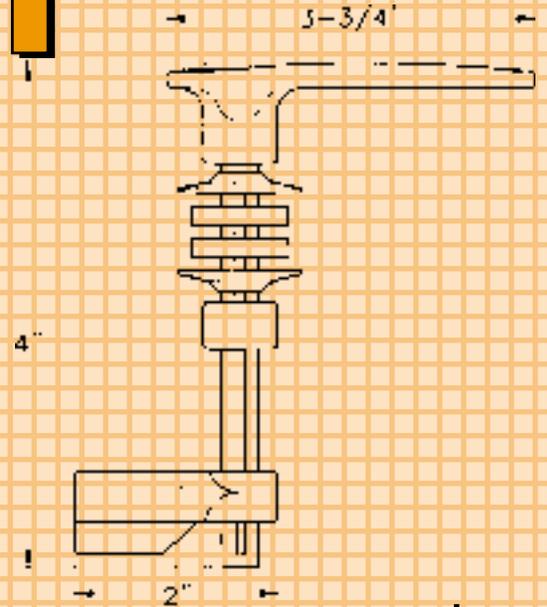
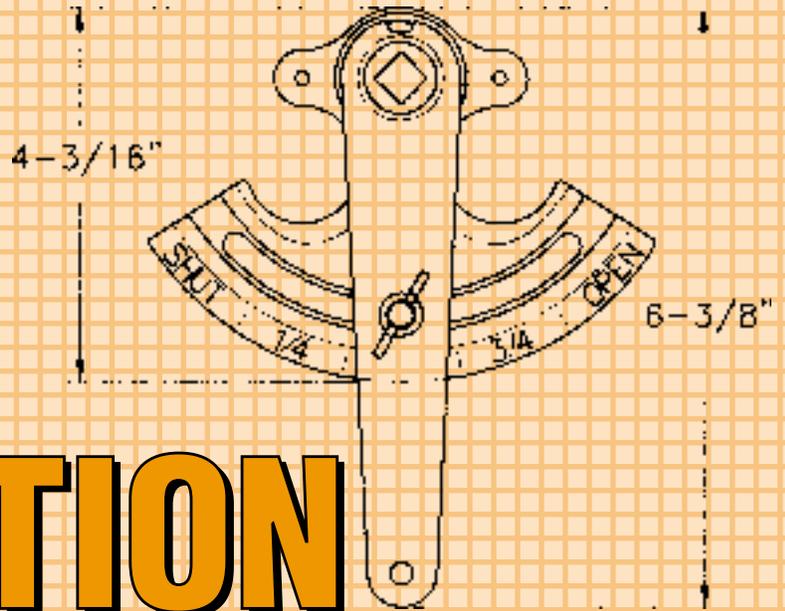




AIR REGULATION CONTROL EQUIPMENT

- BLADE KITS
- ACCESS DOORS & HARDWARE
- REGULATORS, QUADRANTS
- DAMPER HARDWARE
- DUCT STRAPS
- GASKETING



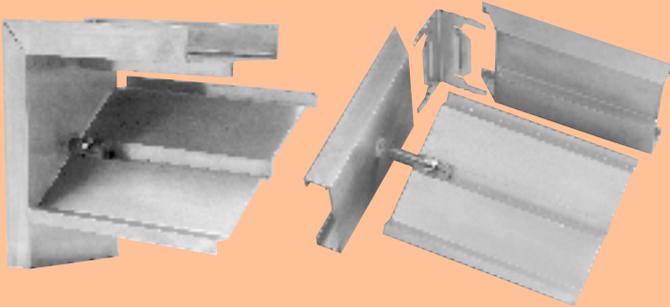
DURO DYNE EAST CORP.
Farmingdale, NY 11735
DURO DYNE MIDWEST
Fairfield, OH 45011
DURO DYNE WEST
Santa Fe Springs, CA 90670
DURO DYNE INTERNATIONAL
Farmingdale, NY 11735

Exclusively from Duro Dyne!

SIDE-GLIDE™ SYSTEM

Duro Dyne has long been a pioneer in Damper Hardware components. Now **Duro Dyne** engineering has resulted in a break through concept for an easy and economical method for Multiblade Damper fabrication.

Frames, Blades & Corners



Duro Dyne has designed and developed an innovative assembly system of prefabricated frames, blades and corners. The additional components compliment the Side Glide rail and bracket linkage system. The frames, manufactured from extruded aluminum, consist of two distinct parts: a side configuration and a top/bottom piece with a built in blade stop. The blades, also manufactured from extruded aluminum, are 6" and 9-3/4" wide, and by incorporating the innovative top/bottom frame design, only two type of blades are ever required. The "hammer in" corners insert easily and are self-locking.

With **Duro Dyne's** latest innovation, material handling and fabrication is minimal. There is no longer the need to worry about excessive labor and material costs associated with the manufacturing of dampers. As an added feature, only the most basic tools are required.

KEY FEATURES

Frames, Blades & Corners:

- Quick and easy assembly, no excessive drilling or metal forming required.
- Frames and Blades are manufactured from corrosion resistant extruded aluminum. Frames and Blades are lightweight, yet strong!
- Frames utilize the integration of blade stops, thus requiring the need for only two types of blades.
- Corners are zinc coated, rigid, self-locking and are easily installed.

Blade Linkage



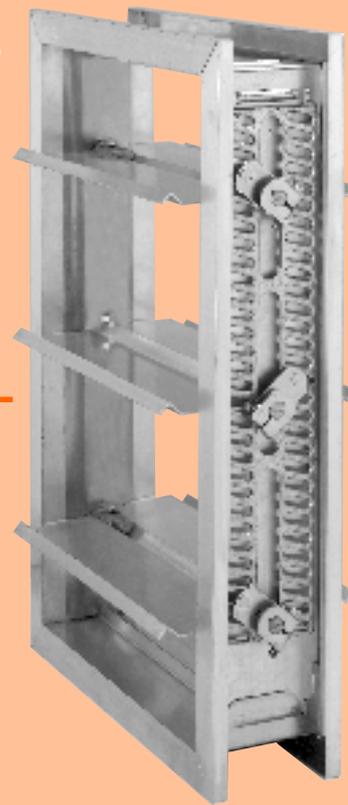
Side damper linkage has many variations. Gears, chain and linkage rods are all typical methods of coordinating blade movement and each method has its own inherent disadvantages, such as cost, being difficult to assemble or adjust and the customization of parts.

With **Duro Dyne's** new patented Side-Glide™ hardware damper blade linkage and adjustment become simple. Consisting of one standard linkage rail per damper and one linkage bracket per blade, assembly and adjustment are easy. It makes no difference whether you are making parallel or opposed blade dampers or varying the size of the blades; the rail and brackets are always the same.

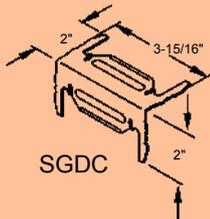
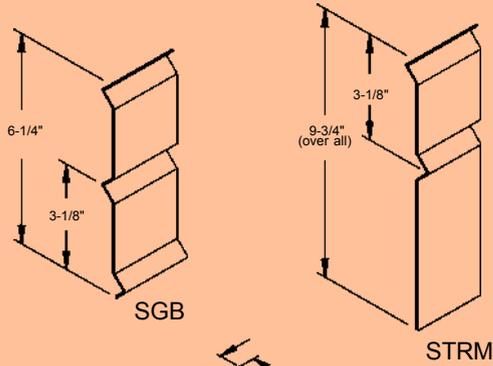
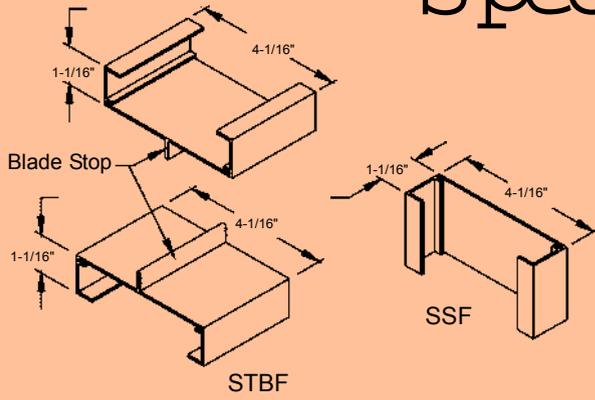
KEY FEATURES

Blade Linkage:

- Assemble damper linkage in seconds.
- Fewer moving parts-less noise and adjustment.
- Mix blade sizes on damper without special preparation.
- Works with parallel or opposed blades.
- Blades can be as small as 3".
- Linkage bracket fits 1/2" round, 7/16" hex or 3/8" square rod.
- Rail available in 4' and 6' lengths.
- Patents pending.

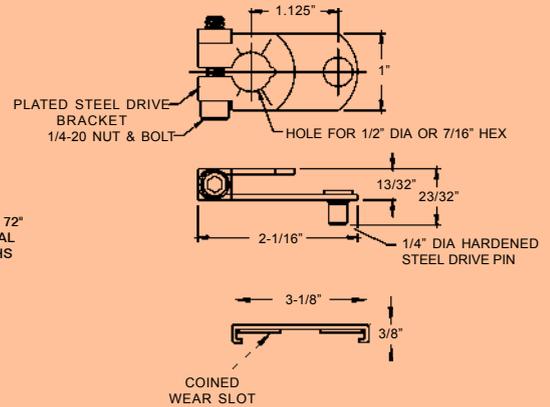
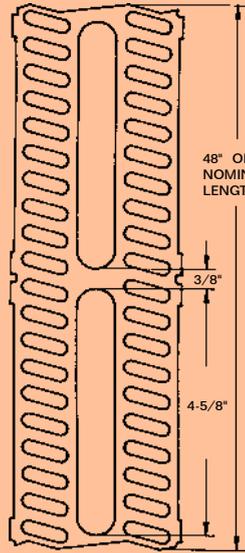


Specifications

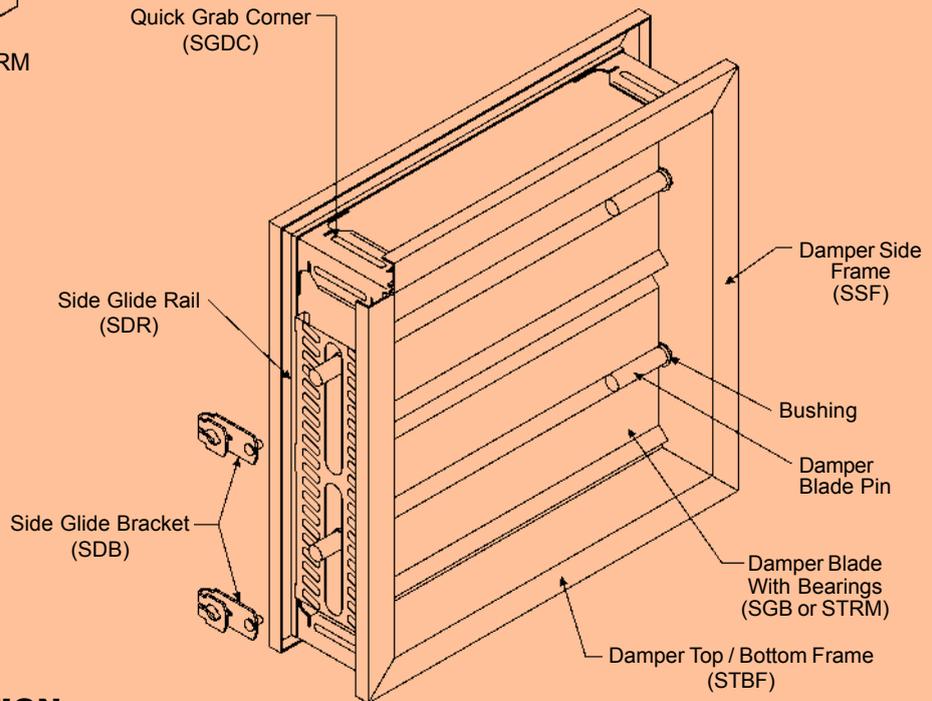


Frame: Type 6063 T5 Extruded Aluminum
 Blade: Type 6063 T5 Extruded Aluminum
 Corner: 16 Gauge Cold Rolled Steel
 Zinc Plated.

Complete System Passes:
 ASTM B-117 (Corrosion Resistance)
 MIL-STD-810C (Corrosion Resistance)



Linkage Rail Material: 18 gauge galvanized steel
 Linkage Bracket Material: Minimum 18 gauge zinc plated cold rolled steel
 Linkage Bracket Pin: Zinc plated case hardened steel
 Damper Frame Requirements: Minimum depth-7/8 inch
 Minimum width-3-3/8 inch



ORDERING INFORMATION

Item#	Model	Description	Packaging
Frames, Blades & Corners			
2121	STBF-6	Top/Bottom Damper Frame (6')	10 lengths per carton
2122	STBF-10	Top/Bottom Damper Frame (10')	10 lengths per carton
2123	SSF-6	Side Damper Frame (6')	10 lengths per carton
2124	SSF-10	Side Damper Frame (10')	10 lengths per carton
2125	SGB-6	6" Damper Blade (6' length)	10 lengths per carton
2126	SGB-10	6" Damper Blade (10' length)	10 lengths per carton
2127	SGDC	Quick Grab Damper Corner	100 per carton
2128	STRM-6	9-3/4" Trim Blade (6' length)	10 lengths per carton
2129	STRM-10	9-3/4" Trim Blade (10' length)	10 lengths per carton
Linkage System			
2116	SDB	Linkage Bracket	100 per carton
2117	SDR-4	Linkage Rail-4 Foot	10 lengths per carton
2118	SDR-6	Linkage Rail-6 Foot	10 lengths per carton

Multi-Blade Damper Hardware

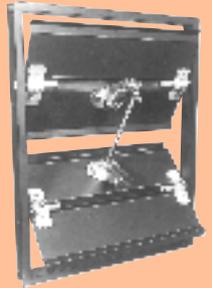
NEVA-BIND™ DURO BLADE KIT FOR PARALLEL DAMPERS

Duro Dyne's exclusively patented "NEVA-BIND" Linkage Bracket will always align itself to assure smooth, non-binding operation even on the heaviest damper blades. Above, or at unequal distance from the blade axis, it is capable of adjusting itself all four ways, in-out, up-down, side-ways and rotation. Each carton contains all necessary hardware for one blade of a multi-blade damper.



Opposed Action Dampers minimize turbulence and the control of the air is more linear. Exclusive Neva-Bind, 4 way self-adjustability which Duro Dyne "OPAX" kits feature, automatically compensate for any construction inaccuracies and maintains linear operation. The critical dimensions between linkage points are also maintained during operation. "OPAX" provides opposed action of damper blades and holds the blades rigidly in position eliminating rattle or flutter. These linkage kits contain all the necessary hardware for two opposed action damper blades.

OPAX® BLADE KIT FOR OPPOSED ACTION DAMPERS



Item#	Model	Bearing Size
2001	BK-1	7/16"
2002	BK-2	1/2"

Item#	Model	Bearing Size
2003	BKO-3	7/16"
2004	BKO-4	1/2"



MULTI-BLADE DAMPER PARTS

(All Steel Parts Zinc or Cadmium Plated)
ALL PACKED 100 PER CARTON UNLESS NOTED

Blade Brackets

Item#	Model	Rod Size
2005	BKP-814	1/4"
2006	BKP-856	5/16"
2007	BKP-838	3/8"



BKP-814
BKP-856
BKP-838

Standard Bracket as supplied in BK-1 and BK-2 Parallel Kits.



BKP-22

Item #2008 – Model BKP-22 – High Bracket as supplied in Opax Blade Kits BKO-3 and BKO-4

Item #2011 – Model BKP-25 – High Bracket (not Neva-Bind) with Brass Pivot & Steel Set Screw (Not Shown)



BKP-23
BKP-24 (No Rod)

Item #2009 – Model BKP-23 – Lo Bracket and Linkage Rod as supplied in Opax Blade Kits.

Item #2010 – Model BKP-24 – Lo Bracket – No Rod.

Straps



BKP-13

Item #2016 – Model BKP-13 – Strap and set screws.



BKP-71

Item #2025 – Model BKP-71 – Self-aligning strap "V" groove does not deform blade.

Rod Clips



KP-25
KP-26
KP-27

Item #8053 – Model KP-25 – 3/8" Damper Rod Clips (U-Bolts)

Item #8054 – Model KP-26 – 1/2" Damper Rod Clips (U-Bolts)

Item #8055 – Model KP-27 – 5/8" Damper Rod Clips (U-Bolts)

Bushings



Item #2012 – Model BKP-9 – Bronze Bushings 7/16" dia. ID. as supplied in BK-1 Parallel Blade Kits and BKO-3 Opax Kits.

Item #2013 – Model BKP-10 – Bronze Bushings 1/2" dia. ID. as supplied in BK-2 Parallel Blade Kits and BKO-4 Opax Kits.

Item #2240 – Model BKP-80 – Plastic Bushing 1/4" dia. ID.

Item #2241 – Model BKP-81 – Plastic Bushing 1/4" sq. ID.

Item #2242 – Model BKP-82 – Plastic Bushing 3/8" dia. ID.

Item #2243 – Model BKP-83 – Plastic Bushing 3/8" sq. ID.

Item #2079 – Model BKP-64 – Plastic Bushing 1/2" dia. ID.

Item #2244 – Model BKP-84 – Plastic Bushing 1/2" sq. ID.

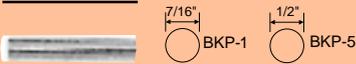


BKP-30

Item #2014 – Model BKP-14 – Ball Bearing Bushing 7/16" ID.

Item #2015 – Model BKP-30 – Ball Bearing Bushing 1/2" ID.

Cut Rods



Item #2017 – Model No. BKP-1 – 7/16" diameter rod, 2-1/2" long. (100 Per Ctn.)

Item #2019 – Model No. BKP-5 – 1/2" diameter rod, 2-1/2" long. (100 Per Ctn.)

Item #2018 – Model No. BKP-2 – 7/16" diameter rod, 6" long. (100 Per Ctn.)

Item #2020 – Model No. BKP-6 – 1/2" diameter rod, 6" long. (100 Per Ctn.)



Item #2076 – Model No. BKP-11 – 1/2" diameter rod, 6" long, milled and drilled. (50 per Ctn.)

Item #2022 – Model No. BKP-4 – 7/16" diameter. to 1/2" square, 6" long. (50 Per Ctn.)



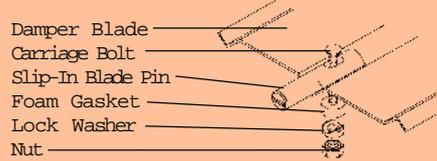
Item #2023 – Model No. BKP-7 – 1/2" diameter to 1/2" square, 6" long. (50 Per Ctn.)

Item #2024 – Model No. BKP-70 – 7/16" diameter to 3/8" square, 6" long. (50 Per Ctn.)

Slide Pins

With Duro Dyne's complete line of Damper Slide Pins (10 in all), nearly every configuration requirement can be satisfied. Duro Dyne's Damper Slide Blade Pin selection provides a low cost alternative to damper hardware such as straps, set screws and solid pins. Installation is as easy as 1-2-3.

1. Punch hole in Damper Blade
2. Position Pin on Blade
3. Lock in position by tightening 1/4" hex nut after sliding pin into damper bushing.



Item #2094 – Model No. DBP-1A – 7/16" diameter and 1/2" diameter slide pin, 5/8" Length.



RDBP



SDBP



HDBP

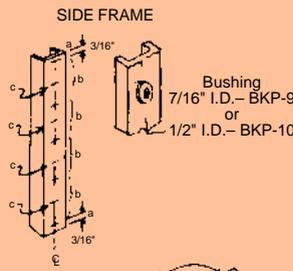
Item#	Model	Pin Size	Item#	Model	Pin Size	Item#	Model	Pin Size
2221	RDBP-100A	1/2" Round Pin 1" Long	2215	SDBP-100A	3/8" Sq. Pin 1" Long	2218	HDBP-100A	7/16" Hex Pin 1" Long
2222	RDBP-150A	1/2" Round Pin 1 1/2" Long	2216	SDBP-150A	3/8" Sq. Pin 1 1/2" Long	2219	HDBP-150A	7/16" Hex Pin 1 1/2" Long
2223	RDBP-200A	1/2" Round Pin 2" Long	2217	SDBP-200A	3/8" Sq. Pin 2" Long	2220	HDBP-200A	7/16" Hex Pin 2" Long

DAMPER ASSEMBLY UTILIZING SHOP MATERIALS

A. MAKING THE FRAME

(Same for both parallel and opposed dampers)

1. Cut a piece of channel for the frame 1/4" less than the duct size, for clearance.
2. SIDE FRAME:
 - a. Mark off 5/16" from each end.
 - b. Divide the section inside these marks into as many parts as there are blades required.
 - c. Mark for each pivot at the center of each blade section (b).
 - d. Drill or punch a 5/8" hole at each pivot (c). Insert self-oiling bushings (tap fit).
3. Weld the sides and bottoms of the frames. Be sure to keep them square.
4. On large frames weld on corner braces to keep the frame square. Place any braces on the side of the frame which will not interfere with blade movement. Attach top and bottom end stops, if required. Cover felt, if required, with insulation adhesive.

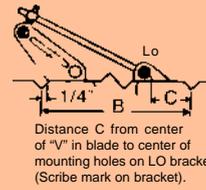


C. MOUNTING THE HARDWARE

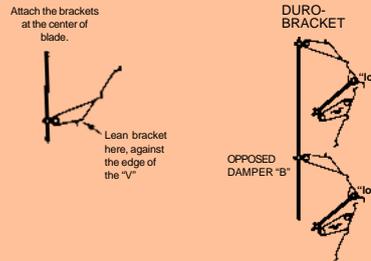
"OPAX" HARDWARE

Attach the brackets as shown in drawing "B". (Always drive a "lo" blade, never a "hi" blade.)

Dimension "B"	Distance "C"
5"	1"
6"	1-3/16"
7"	1-1/4"
8"	1-5/16"
9"	1-3/8"
10"	1-3/8"
11"	1-7/16"
12"	1-1/2"



PARALLEL HARDWARE



B. MAKING THE BLADES

Same for both parallel and opposed dampers

1. Material:

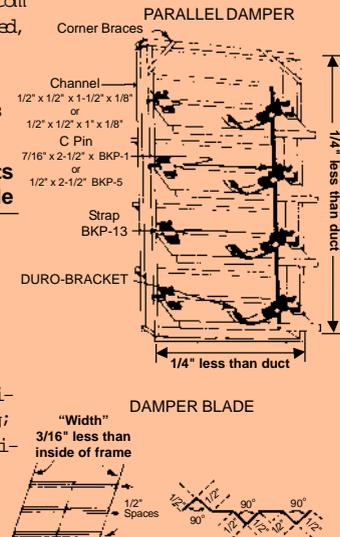
Gauge	Blade Width	Activating Brackets Required per blade
20	to 36"	1
16	to 48"	1 or 2
12	to 52"	2

2. CUT:

- a. "WIDTH" dimension 3/16" less than the inside of frame.
- b. "HEIGHT" dimension: Allow for approximately 7/8" "shrinkage" due to forming; approximately 1/4" blade overlap; approximately 3/16" end clearance to frame.

3. MARK:

Mark the blades as shown and bend on the scribe lines.



D. ASSEMBLING THE DAMPER

1. Lay the damper frame flat on the bench.
2. Place the blades inside the frame in the approximate required position (correct overlap, etc.)
3. Place 2 bearing pins in each center blade groove.
4. Slide the pins under the straps (loosen the set-screws) and into the frame. Tighten the strap set-screws.
5. Attach all linkage rods.

Specline® Damper Regulators

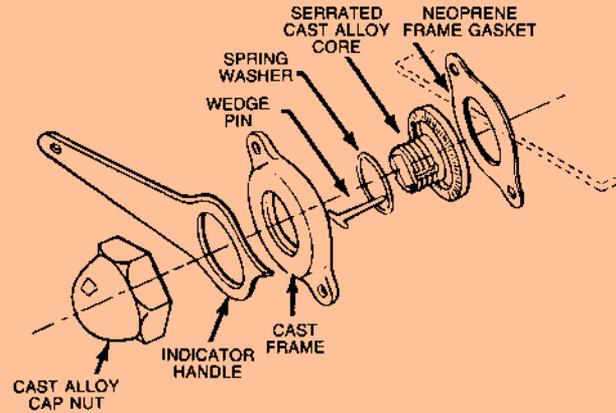
MINIMUM LEAKAGE DAMPER REGULATORS

Specline Regulators are designed for minimum leakage applications. Each regulator is comprised of a frame, an indicator handle, a serrated cast alloy core and a cast alloy nut. Serrations on the cast alloy core mesh with serrations in the frame to firmly lock the regulator in position. A spring washer situated between the core and the cast frame allows for smooth non-binding adjustment. A wedge pin is used to eliminate rattle and take up slack between regulator and damper shaft.

All SR and SRH type regulators include a cast alloy nut and a neoprene frame gasket.

All SRHS, SRS and SRST type regulators utilize a stamped regulator frame.

The SRHS and SRS include a neoprene frame gasket.

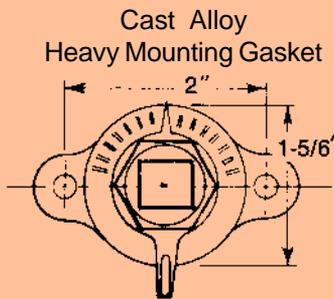


INDICATOR STYLE REGULATOR SET WITH HEX NUT AND ACORN NUT

Regulator Height 5/8"



SRH-Series



Regulator Height 1-3/8"



SR-Series

Packed 10 Per Carton

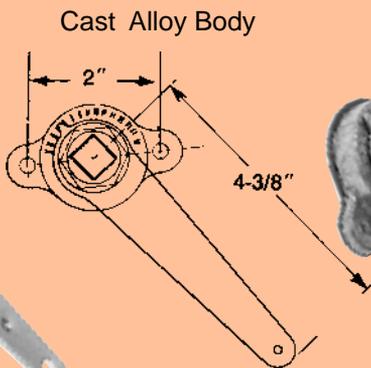
Item#	Model	Shaft Size
8010	SRH-240	1/4" Hex Nut
8012	SRH-280	3/8" Hex Nut
8014	SRH-220	1/2" Hex Nut
Item#	Model	Shaft Size
8001	SR-140	1/4" Acorn Nut
8003	SR-380	3/8" Acorn Nut
8005	SR-120	1/2" Acorn Nut

HANDLE REGULATOR SET WITH HEX NUT AND ACORN NUT

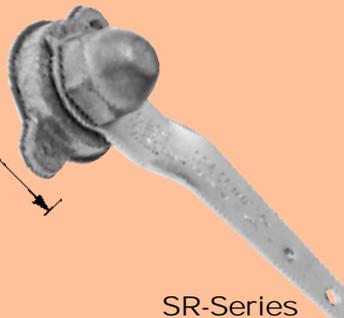
Regulator Height 5/8"



SRH-Series



Regulator Height 1-3/8"



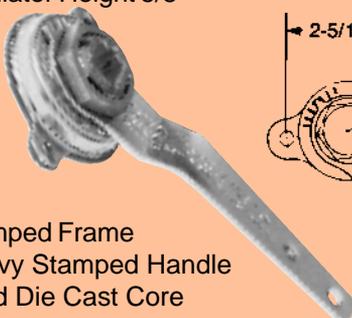
SR-Series

Packed 10 Per Carton

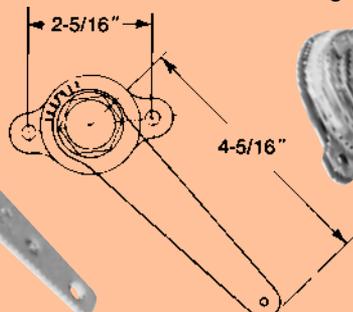
Item#	Model	Shaft Size
8011	SRH-248	1/4" Hex Nut
8013	SRH-288	3/8" Hex Nut
8015	SRH-228	1/2" Hex Nut
Item#	Model	Shaft Size
8002	SR-148	1/4" Acorn Nut
8004	SR-388	3/8" Acorn Nut
8006	SR-128	1/2" Acorn Nut

HANDLE STYLE (STAMPED) REGULATOR SET WITH HEX NUT & ACORN NUT

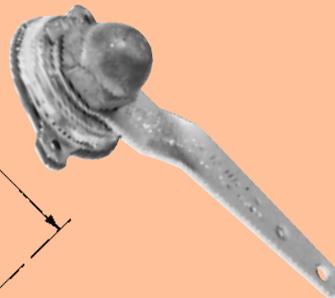
Regulator Height 5/8"



SRHS-Series



Regulator Height 1-3/8"



SRS-Series

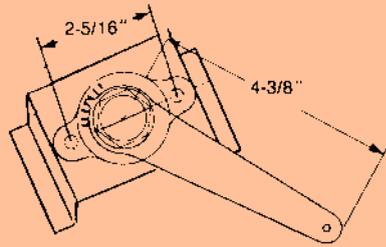
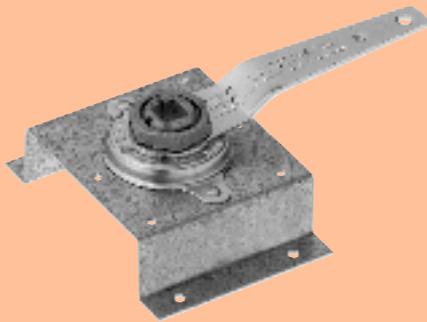
Packed 10 Per Carton

Item#	Model	Shaft Size
8016	SRHS-148	1/4" Hex Nut
8017	SRHS-388	3/8" Hex Nut
8018	SRHS-128	1/2" Hex Nut
Item#	Model	Shaft Size
8022	SRS-148	1/4" Acorn Nut
8023	SRS-388	3/8" Acorn Nut
8024	SRS-128	1/2" Acorn Nut

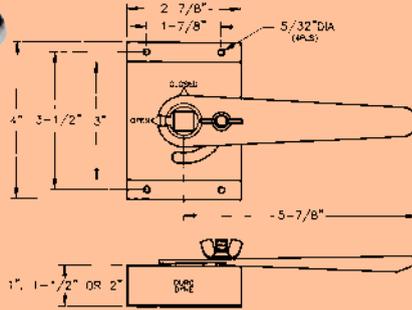
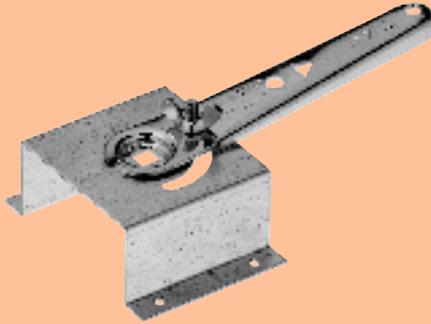
- Stamped Frame
- Heavy Stamped Handle
- Solid Die Cast Core
- Hex Nut

ELEVATED REGULATOR SETS FOR INSULATED DUCTS WITH HEX NUT

Packed 10 Per Carton



Item	Model	Handle Code	Stand Height
8184	SRST 1-148 w/SRHS-148	1/4"	1"
8318	SRST 1-1/2-148 w/SRHS-148	1/4"	1-1/2"
8196	SRST 2-148 w/SRHS-148	1/4"	2"
8019	SRST 1-388 w/SRHS-388	3/8"	1"
8020	SRST 1-1/2-388 w/SRHS-388	3/8"	1-1/2"
8021	SRST 2-388 w/SRHS-388	3/8"	2"
8208	SRST 1-128 w/SRHS-128	1/2"	1"
8384	SRST 1-1/2-128 w/SRHS-128	1/2"	1-1/2"
8177	SRST 2-128 w/SRHS-128	1/2"	2"



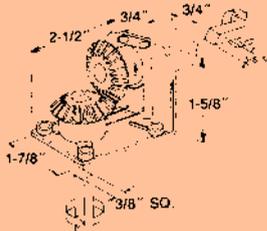
Item#	Model	Handle Code	Stand Height
7201	ESO-14-100	1/4"	1"
7203	ESO-14-150	1/4"	1-1/2"
7205	ESO-14-200	1/4"	2"
7207	ESO-38-100	3/8"	1"
7209	ESO-38-150	3/8"	1-1/2"
7211	ESO-38-200	3/8"	2"
7213	ESO-12-100	1/2"	1"
7215	ESO-12-150	1/2"	1-1/2"
7217	ESO-12-200	1/2"	2"

Also Available for Round Duct and with Seals.

90° ANGLE DRIVE DIE CAST MITRE GEAR ASSEMBLY



Will accommodate 3/8" square rod from duct

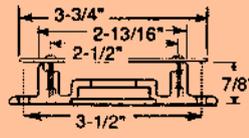
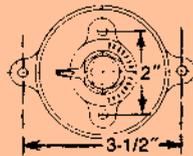
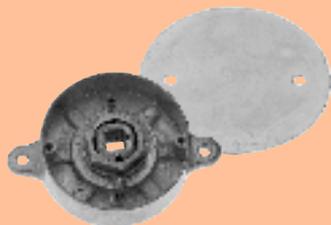


Packed 5 Per Carton

Item#	Model	Description
8135	AD-38	Mitre Gear Assembly

CONCEALED STYLE REGULATOR SET WITH HEX NUT

Attractive Cast Alloy Corrosion Resistant Plated Cover



Packed 5 Per Carton

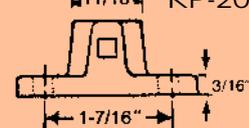
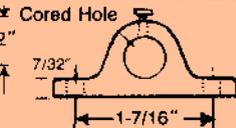
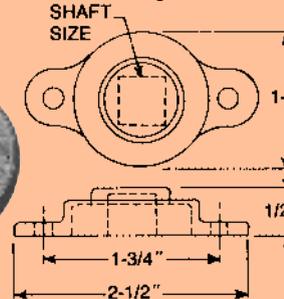
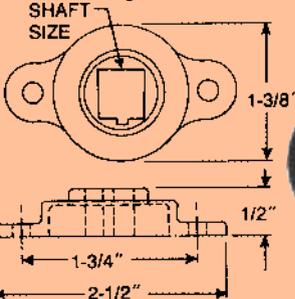
Item#	Model	Shaft Size
8007	SRC-140	1/4"
8008	SRC-380	3/8"
8009	SRC-120	1/2"

SPECLINE PARTS AND ACCESSORIES

Open End Bearing
Cast Alloy

Closed End Bearing
Cast Alloy

Damper And Deflector Castings
Control of 3/8" round rod where used to operate dampers. Either type can be used.



Item#	Model	Shaft Size
8025	SB-114	1/4"
8027	SB-138	3/8"
8029	SB-112	1/2"

Packed 25 per carton

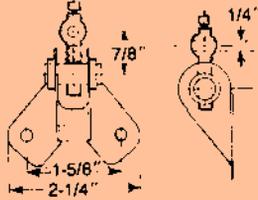
Item#	Model	Shaft Size
8026	SB-314	1/4"
8028	SB-338	3/8"
8030	SB-312	1/2"

Packed 25 per carton

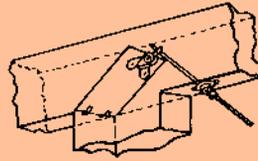
Item#	Model	Description
8037	KP-20	Damper Casting
8038	KP-21	Deflector Casting

Packed 100 per carton

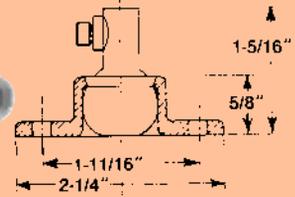
Splitter Damper Bracket
Steel Bracket, Brass Pivot



Splitter Damper Hardware



Ball Joint Damper Casting
Cast Alloy



Item#	Model	Shaft Size
8034	SRP-40	1/4"
8035	SRP-50	5/16"

Packed 25 per carton

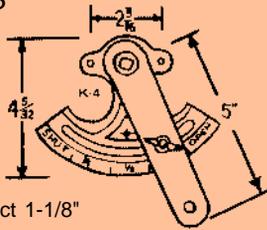
Typical Application Using Ball Joint and Damper Bracket

Item#	Model	Shaft Size
8032	SRP-14	1/4"
8033	SRP-516	5/16"

Packed 25 per carton

Quadline Damper Quadrants

SETS AND PARTS

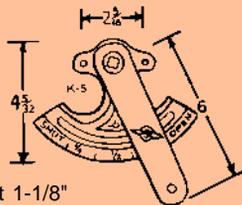


Stands Off Duct 1-1/8"

3/8" QUADRANT SETS
(for dampers up to 20")

These heavy gauge Plated Steel quadrants are designed with excellent handle action as well as quick wing nut adjustment and locking of the damper. The frame is marked to show the exact position of the damper. For use on square or round ducts.

Item#	8050	8051	8049	8059
Model	KS-38	KS-385	KS-385L	K-4
Set Consists Of:	K-4 quadrant; KP-9R round end bearing; KP-9S square end bearing	K-4 quadrant; KP-7 spring loc bearing; KP-9S long square end bearing	K-4 quadrant; KP-7L long spring loc bearing; KP-9L long square end bearing	3/8" quadrant only (100 per Carton)
Packed 1 Set Per Carton				

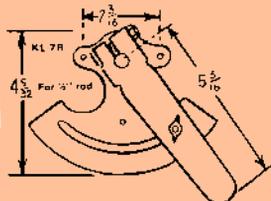


Stands Off Duct 1-1/8"

1/2" QUADRANT SETS
(for dampers up to 30")

These heavy gauge Plated Steel quadrants are designed with excellent handle action as well as quick wing nut adjustment and locking of the damper. The frame is marked to show the exact position of the damper. For use on square or round ducts.

Item#	8052	8060
Model	KS-12	K-5
Set Consists Of:	K-5 quadrant; KP-10R round end bearing; KP-10S square end bearing	1/2" quadrant only (100 per Carton)
Packed 1 Set Per Carton		



Stands Off Duct 1-3/16"

1/2" SHAFT LOC QUADRANT SETS
(for dampers up to 30")

"Shaft Loc" Quadrants are stamped of heavy gauge steel and clearly indicate the position of the damper.

The quadrant handle (available for either 1/2" square or round shafts) is unique in that it locks the shaft of the damper to it by means of a powerful friction holding device strong enough to cut into the damper shaft eliminating damper rattle. The shaft is easily locked with 1/2" open end wrench. For use on square or round ducts.

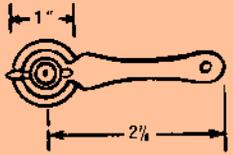
Item#	8063	8064
Model	KL-7	KL-7R
Shaft Description	1/2" square Shaft loc quadrant	1/2" round Shaft loc quadrant
Packed 100 Per Carton		

Stampline Regulators

FOR CONTROLLING SMALL DAMPERS



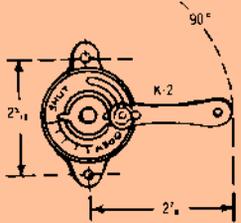
Stands Off
Duct 3/4"



1/4" "JIFFY" REGULATOR SETS (for dampers up to 10")

These efficient, low cost, heavy gauge, plated steel regulators install in a "jiffy" by slipping the washer and handle over the threaded square end bearing. The wing nut locks the damper in position. The position of the handle shows the position of the damper in the duct. For use on round or square ducts.

Item#	8039	8046	8102	8220
Model	KS-7	KS-7L	JB-1	JB-1L
Set Consists Of:	KP5 1/4" threaded bearing, handle; KP-6 spring loc bearing, bevelled wingnut & washer	KP5L 1/4" long threaded bearing, handle; KP-6L long spring loc bearing, bevelled wingnut & washer	KP5 1/4" threaded bearing, handle; 5/16-18 wingnut & washer (100 per Carton)	KP5L 1/4" long threaded bearing, handle; 5/16-18 wingnut & washer (100 per Carton)
Packed 10 per Carton 10 Cartons per Box				

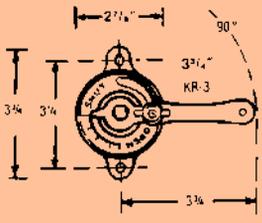


1/4" DIAL REGULATOR SETS AND BEARINGS (for dampers up to 10")

These heavy gauge plated steel regulators are among the most popular on the market. They minimize air leakage and reduce rattle. A wing nut locks the damper in position, yet permits quick readjustment. The dial shows the damper position at a glance. The regulator mounts easily on round or square ducts.

Item#	8040	8041	8047	8056
Model	KS-14	KS-145	KS-145L	K-2
Set Consists Of:	K-2 regulator; KP-8S square end bearing; KP-8R round end bearing	K-2 regulator; KP-6 spring loc bearing; KP-8S square end bearing	K-2 regulator; KP-6L long spring loc bearing; KP-8L long square end bearing	1/4" regulator only (100 per Carton)
Packed 10 per Carton 10 Cartons per Box				

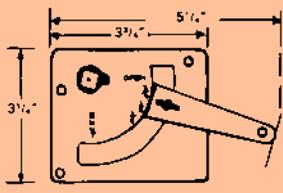
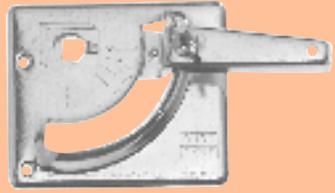
FOR CONTROLLING LARGER DAMPERS



3/8" DIAL REGULATOR SETS AND END BEARINGS (for dampers up to 20")

The following sets and parts are the same as the 1/4" size shown above except designed for larger dampers. The 3/8" bearings and regulator are suitable to use on round as well as square duct. Clear markings on the regulator indicate the damper position which can be locked securely by a wing nut.

Item#	8044	8045	8045	8058
Model	KSR-19	KSR-195	KSR-195L	KR-3
Set Consists Of:	KR-3 regulator; KP-9R round end bearing; KP-9S square end bearing	KR-3 regulator; KP-7 spring loc bearing; KP-9S square end bearing	KR-3 regulator; KP-7L long spring loc bearing; KP-9L long square end bearing	3/8" dial regulator only (100 per Carton)
Packed 1 Set Per Carton				



3/8" "WEDGE LOC" REGULATOR SETS (for dampers up to 20")

This attractive rectangular regulator features exclusive "Wedge Loc" action which firmly locks the bearing to the regulator handle when the damper is set - prevents rattling. Heavy construction, minimum air leakage and easy adjustability make this ideal for large dampers in round or square ducts.

Item#	8042	8043	8048	8042
Model	KS-19	KS-195	KS-195L	K-3
Set Consists Of:	K-3 regulator; KP-9R round end bearing; KP-9S square end bearing	K-3 regulator; KP-7 spring loc bearing; KP-9S square end bearing	K-3 regulator; KP-7L long spring loc bearing; KP-9L long square end bearing	3/8" wedge loc regulator only (100 per Carton)
Packed 1 Set Per Carton				

End Bearings

(PACKED 100 PER CARTON)

Spring Loc

KP6 # 8065
Dim. 1/4" x 2-3/16"

KP6L # 8241
Dim. 1/4" x 3-1/4"

KP7 # 8066
Dim. 3/8" x 2-3/4"

KP7L # 8242
Dim. 3/8" x 3-3/4"

Round

KP5 # 8075
Threaded Jiffy Bearing
Dim. 1/4" x 1/2"

KP8R # 8067
Dim. 1/4" x 9/16"

KP9R # 8070
Dim. 3/8" x 1"

KP10R # 8073
Dim. 1/2" x 1"

KP10RL # 8180
Dim. 1/2" x 2-1/4"

1/4" Square

KP5L # 8076
Long Threaded Jiffy Bearing
Dim. 1/4" x 2"

KP8S # 8068
Dim. 1/4" x 7/8"

KP8L # 8069
Dim. 1/4" x 2"

KP8XL # 8077
Dim. 1/4" x 2-1/2"

3/8" Square

KP9S # 8071
Dim. 3/8" x 1-1/8"

KP9L # 8072
Dim. 3/8" x 2-1/2"

KP9XL # 8247
Dim. 3/8" x 2-7/8"

1/2" Square

KP10S # 8074
Dim. 1/2" x 1-1/4"

KP10L # 8179
Dim. 1/2" x 2-1/4"

Spec-Seal™

DAMPER REGULATOR

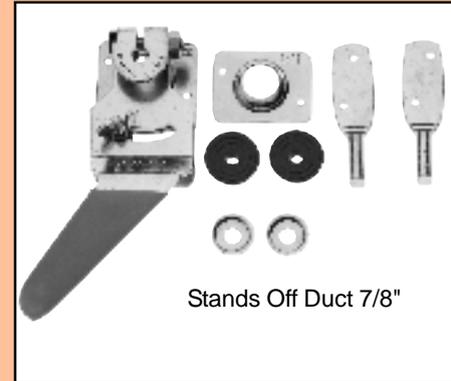
The Spec-Seal Regulator utilizes a special rubber seal for applications up to 500°F constant temperature. It eliminates leakage and rattle even at many times the pressure found in high pressure systems. The handle's unique design utilizes a highly-visible orange plastic cover showing the damper position. This unit, made of heavy-gauge, zinc-plated steel, is made in four styles to accommodate 3/8" and 1/2" round or square bearing shafts. It is also available in stainless steel for use with 1/2" square bearing shafts.

Each Set Consists of:

- Regulator
- End Bearing Support
- 2 Rubber Seals
- 2 Metal Washers
- 2 End Bearings

Item#	Model	Bearing Type
8153	AL-38	3/8 Square
8154	AL-38R	3/8 Round
8158	AL-38L	3/8 Square Long
8150	AL-12	1/2 Square
8152	AL-12R	1/2 Round
8157	AL-12L	1/2 Square Long
8301	AL-12SS	1/2 Stainless Square

Quantity per carton: 10 sets



Quad Seal™

SELF FORMING SILICONE GASKET

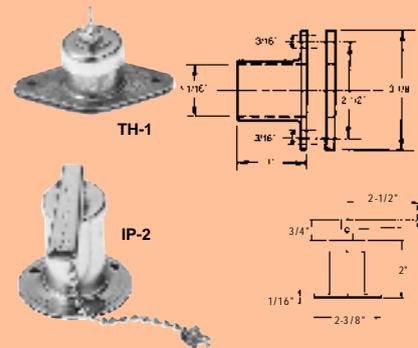
Quad Seal works in conjunction with Spec-Seal hardware, flexible duct connector, air regulators, quadrants, test-ports, screws or any other applications requiring an airtight gasket seal. Quad Seal is 100% RTV Silicone Rubber and has a continuous temperature rating from -60°F to 500°F. Its automatic dispensing system eliminates mess and minimizes waste.



Item#	Model	Quantity per carton
8159	QS-85	12

Instrument Test Port

The Instrument Test Port has a heavy duty cast zinc alloy construction with a heavy gauge zinc plated cap. Its Neoprene Expansion Plug can withstand up to 180°F and has resisted pressures up to 90 psi when installed. The TH-1 accommodates 1" of insulating materials and has an inside diameter of 1-1/16". The IP-2 accommodates 2" of insulation material and has an inside diameter of 1-1/8". Both are designed for high velocity systems. A flat neoprene mounting gasket is supplied. However, for maximum protection against leakage, we recommend using Quad Seal (left).



Item#	Model	Quantity per ctn.
8036	TH-1	25
8398	IP-2	25

Standard Access Doors

Rugged Quality Construction Designed For Fast Secure Installation Without Using Tools!

IAD Access Doors

The IAD Door has been designed to create an airtight seal utilizing a moisture, oil and grease resistant neoprene gasketing between the door to the frame and the frame to the duct. The door panel is constructed out of 24 gauge galvanized steel and filled with a 1" 1-1/2 lb. fiberglass insulation (K factor .26+.03@75°F). The frame is 24 gauge galvanized steel with punched steel tabs along each side, which locks the frame into the ductwork. Smaller frame corner tabs make installation easy. Double camlock latches are used on doors 14" and larger (12" and smaller have one camlock). Special models and sizes can be fabricated with multiple walls of steel or see-through panels or Cam-Lock only style.



Item#	Model
8320	IAD 6" x 6"
8168	IAD 8" X 8"
8169	IAD 10" X 10"
8170	IAD 12" X 12"
8171	IAD 14" X 10"
8167	IAD 14" X 14"
8172	IAD 16" X 16"
8173	IAD 18" X 18"
8174	IAD 20" X 20"
8175	IAD 24" X 24"

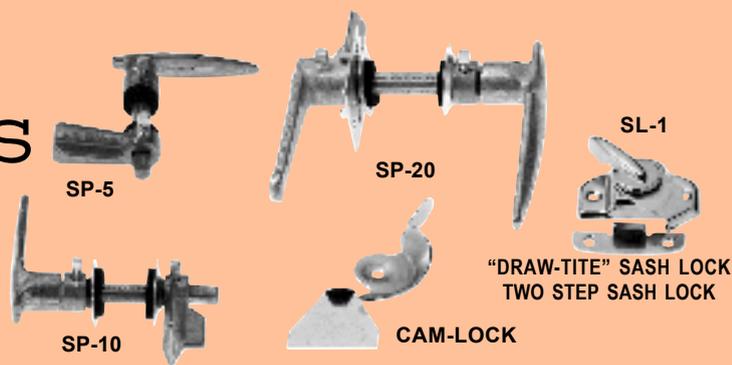
Packed 10 Per Carton;
(Item# 8172 thru 8175 packed 5 per carton)

Standard Sizes:

(Installation Note: All holes should be cut 1-1/8" smaller than the door.)

Access Doors Locking Devices

Item#	Model	Shaft Size	Qty. Per Ctn.
8015	SP-5	1/4" dia.	25
8106	SP-10	3/8" dia.	10
8107	SP-20	1/2" dia.	10
8138	CAM-LOCK	-	100
8108	SL-1	-	100



Reddi-Stick Gasketing

GASKETING COMPARISON CHART



	VINYL FOAM (PVC)	URETHANE	NEOPRENE	SPONGE RUBBER
Color	Light Gray	Charcoal Gray	Black	Black
Type	Close Cell	Open Cell	Close Cell	Open Cell
Density	8 lbs./cu.ft.	2 lbs./cu.ft.	4-5.5 lbs./cu.ft.	2-5 lbs./cu.ft.
Water Absorption by % Weight	Low	High	Low	High
Temp. Range (Constant)	- 40 - 180°	- 30 - 275°	- 20 - 175°	- 20 - 150°
Temp. Range (Intermit.)	- 40 - 200°	- 30 - 300°	- 20 - 225°	- 20 - 175°
Ultimate Tensile Strength (Typical Properties) PSI	30 PSI	13 - 50 PSI	90 PSI	60 - 90 PSI
Elongation (Typical Properties) %	150%	175%	150%	150%
K Factor	0.24 - 0.28	0.22 - 0.23	0.26	0.24 - 0.28
Flame Resistance	-	UL94HF1	UL94HF1	-
U.L. Test #	-	UL94HF1	UL94HF1	-
ASTM Desig.	D-1667	D-1564 D-1056-73	D-1056-68	-
Adhesive	Direct-Coated Adhesive	Bonded Adhesive Film	Bonded Adhesive Film	Bonded Adhesive Film
General Information	Non-Disintegrating; Good Weatherability; High-Pressure Seal; Fungi Resistant.	Low-Pressure Seal; Unaffected by Grease, Mildew, Fungus, Aromatic Oils; Low-Heat Transfer.	Non-Disintegrating; Excellent Weatherability; High-Pressure Seal; Unaffected by Grease, Mildew, Ozone, Gasoline Vapor Proof, Waterproof.	Excellent Memory Low-Pressure Seal.

VINYL FOAM (PVC)				URETHANE				NEOPRENE				SPONGE RUBBER			
Item#	Model	Length	Thickness	Item#	Model	Length	Thickness	Item#	Model	Length	Thickness	Item#	Model	Length	Thickness
			x Width				x Width				x Width				x Width
8123	PVC 18-12	50'/RL	1/8" x 1/2"	8126	UF 3-12	50'/RL	3/16" x 1/2"	8129	BN 18-12	50'/RL	1/8" x 1/2"	8132	SD 18-12	50'/RL	1/8" x 1/2"
8124	PVC 14-34	50'/RL	1/4" x 3/4"	8127	UF 14-34	50'/RL	1/4" x 3/4"	8130	BN 14-34	50'/RL	1/4" x 3/4"	8133	SD 14-34	50'/RL	1/4" x 3/4"
8125	PVC 38-34	25'/RL	3/8" x 3/4"	8128	LF 38-34	25'/RL	3/8" x 3/4"	8131	BN 38-34	25'/RL	3/8" x 3/4"	8134	SD 38-34	25'/RL	3/8" x 3/4"
								8261	BN 316-34	50'/RL	3/16" x 3/4"				

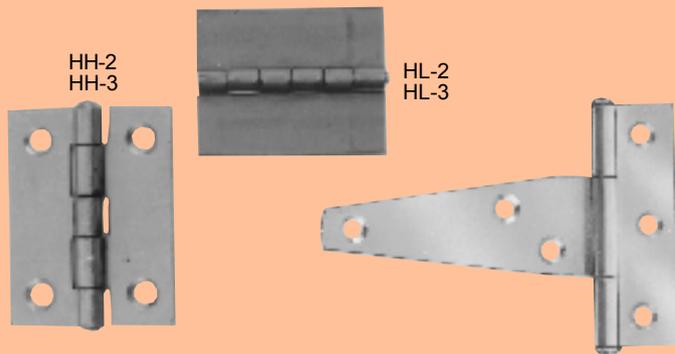
Piano Hinges



Item#	Model	Size	Description
8117	HP-116	1-1/16" x 3'	Piano hinge,
8118	HP-112	1-1/2" x 3'	no holes,
8119	HP-23	2" x 3'	plain steel
Qty. per ctn. 25 - Special sizes available upon request			

Item#	Model	Size	Description
8120	HPH-116	1-1/16" x 3'	Piano hinge, with holes,
8121	HPH-112	1-1/2" x 3'	zinc plated
Qty. per ctn. 25 - Special sizes available upon request			

Butt Hinges / 'T' Hinges



Item#	Model	Size	Description	Finish
8109	HH-2	2" x 1 9/16"	Light, narrow butt	Zinc
8110	HH-3	3" X 2"	hinge, fast pin,	plated
w/ screw holes.				
8111	HL-2	2" x 1 9/16"	Light narrow butt	
8112	HL-3	3" x 2"	hinge, fast pin,	Steel
w/out screw holes.				
8115	HT-3	3"	Light 'T' hinge	Zinc
8116	HT-5	5"	fast pin	plated
Qty. per ctn. 25 - Special sizes available upon request				

Fire Damper Hardware



All fusible links classified by Underwriter's Laboratories, Inc. and Factory Mutual Laboratories

Item#	Model	Description	Dim. A	Dim. B
2032	FLS-39	temperature rating 165° 10 pound load	1"	1-1/2"
2033	FL-43	temperature rating 165° 30 pound load	1-3/4"	2-9/16"
2034	FL-41	temperature rating 212° 30 pound load	1-3/4"	2-9/16"
2035	FL-42	temperature rating 386° 30 pound load	1-3/4"	2-9/16"
Packed 100 per carton				

Hanging Strap

Duro Dyne provides 3 types of Hanging Strap fabrics which are waterproof, grease, oil & acid resistant, and have low smoke & flame development.



Vinyl Duro Strap
Item#: 10190
Size: 1.5" x 200"
Flame Spread: 12
Smoke Development: 38
Tensile Strength: Warp-70 lbs./In. Fill-70 lbs./In
Heat Resistance: 200° F
Tear Strength: Warp- 8 lbs./In, Fill-11 lbs./In
Thread Count: 28 x 14
Fabric: Black vinyl coated polyester fill
Total Fabric Thickness: .022" Approx.
Quantity per carton: 10 rolls

EZ Strap
Item#: 10182
Size: 1.5" x 300"
Flame Spread: 10
Smoke Development: 27
Tensile Strength: 310 lbs.
Heat Resistance: 180° F
Tear Strength: 125 lbs.
Thread Count: 28 x 14
Fabric: Proprietary plastic
Total Fabric Thickness: .020" Approx.
Quantity per carton: 10 rolls

Woven Econo Strap
Item#: 10192
Size: 1.75" x 300"
Flame Spread: 5
Smoke Development: 20
Tensile Strength: Warp-850 lbs./In., Fill-360 lbs./In.
Heat Resistance: 330° F
Thread Count: 850 x 360
Fabric: Grey woven polypropylene
Total Fabric Thickness: .025" Approx.
Quantity per carton: 24 rolls

Dyn-O-Ties®

Whenever your job calls for securing round flexible duct to outlets, pipes or fittings, you can do the job better, faster, and at a lower cost using **DYN-O-TIES™**, flexible duct ties.

No tapes, no screws, no clamps. Position the flexible duct and slip a **DYN-O-TIE** around the flexible duct over the joint. Draw the **DYN-O-TIE** tight with our ratchet action hand tool. A push with the thumb completes the job by clipping off the excess nylon tab for the neatest and most secure connection you could want.

For those jobs requiring steel connections, Duro Dyne has designed a new stainless steel **DYN-O-TIE**. The same basic installation process applies when using the **DIT-1SS** installation tool.

DYN-O-TIES, when properly installed, provide secure, self-extinguishing joints when connecting certain types of flexible duct listed by Underwriters Laboratories Inc., class 1.

Item#	Model	Type	Length	Max. Dia.	Pkg.	Pkg./Ctn
8251	DN-22	Nylon	22	6"	25	20
8252	DNC-22	Nylon	22	6"	100	5
8253	DNF-22	Nylon	22	6"	500	1
8307	DN-33	Nylon	33	9"	25	20
8308	DNC-33	Nylon	33	9"	100	5
8309	DNF-33	Nylon	45	9"	500	1
8269	DT-34	Stainless	33	9"	25	20
8264	DN-45	Nylon	45	14"	25	20
8262	DNX-60	Nylon	60	18"	25	20

All materials shipped in master cartons of 500 pieces.



Nylon: Nylon 6/6 V2 - available in four sizes. Self-extinguishing. Fungus inert. Normal service temperature range: - 40° F to 185° F.

Test Results*: Nylon -275 lbs.



Stainless Steel: 430 stainless steel .020" x .3125 x 34" long.

Test Results*: Stainless Steel - 500 lbs.

***Test Method:** Tie is secured at both ends forming a loop. A weight is suspended from the bottom of loop to determine tensile strength of **DYN-O-TIE** strap.

Mini Dyn-O-Ties®

Made of molded natural color 6/6 nylon, these ties are perfect for bundling wires. The ties are designed to meet ASTM D638 for tensile strength and ASTM D789 for melting point. Not for use with DIT-2.

Item#	8378	8383
Model	DNC-8.5	DNC-14.5
Overall Length inches	8.5	14.5
Width inches	.130	.187
Bundle Diameter inches	1/16 - 2	1/16 - 3
Minimum Loop Tensile	40	50
Tensile Strength	11.2	11.2
Melting Point	491° F	491° F
UL Flammability	94V-2	94V-2

Packed 5 - 100 packs to a carton.

Dyn-O-Tie® Gun

INSTALLATION TOOL

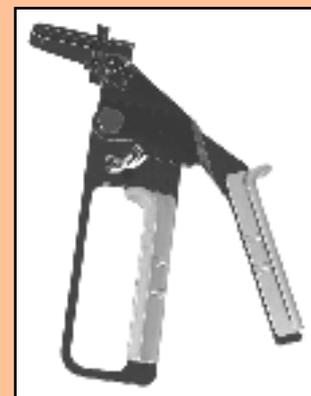
The DIT-2 gun is light weight and commonly used to install most makes of nylon duct ties.

The DIT-1SS gun with a specially designed nose piece is designed to install Duro Dyne type DT-34 stainless steel duct ties.

Item#	Model	Description
8229	DIT-2	For use w/nylon
8263	DIT-1SS	For use w/stainless



DIT-2



DIT-1SS

Duro Dyne The Greatest Name In Sheet Metal Necessities



Duro Dyne East Division, Farmingdale, NY 631-249-9000 Fax: 631-249-8346

Duro Dyne Midwest Division, Fairfield, OH 513-870-6000 Fax: 513-870-6005

Duro Dyne West Division, Santa Fe Springs, CA 562-926-1774 Fax: 562-926-5778

Duro Dyne Canada, Lachine, Quebec, Canada 514-422-9760 Fax: 514-636-0328

www.durodyne.com E-mail: durodyne@durodyne.com