ZSi-Foster



Manufacturers of Quick Disconnects, Cushioned Clamping, and Support Systems



ENGINEERING CATALOG





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industrial :



Quick Detachable Couplers



How To Select – Proper coupler selection is important because of the variety of media for which they are used. Four basic factors should be considered to assure proper selection:

Type - Operation - Flow - Media

Type – All couplers consist of two basic components – a socket and a plug. The type of coupler varies by the valving arrangements in these two components.

Manual



Manual sockets require manual retraction of the sleeve to both connect and disconnect the plug. Ball Lock (BL) is an optional feature available on manual sockets. After connection, the sleeve is rotated locking the coupler against accidental disconnect.

Automatic



Automatic sockets accept the plug by simple insertion into the socket and do not require retraction of the sleeve to connect. Sleeve Lock (SL) is an optional feature on automatic sockets to prevent accidental disconnect. It is functionally the same as the Ball Lock (BL) on manual sockets.

Safety Coupler



Safety sockets are a variation of automatic operation. The socket accepts the plug by insertion. The sleeve is moved straight forward to lock and turn on the air. The sleeve is moved back by rotating first to the left and then to the right. This shuts off the supply line, exhausts the downstream line, and then releases the plug.

One Way Shut-Off



In a "One Way Shut-Off," only the socket has valving to shut off the flow when disconnected; it is, therefore, installed on the pressure side of the line. The plug has no valving and exhausts the downstream line at disconnect.

Two Way Shut-Off



The "Two Way Shut-Off" provides valving in both the socket and the plug, thereby shutting off flow at both of the disconnected ends. Originally developed for hydraulic lines, they are suitable for many other media because of the variety of metals and seal compounds offered.

Straight-Thru



"Straight-Thru" couplers, as the name implies, do not have valving in either the socket or the plug. Therefore, both ends of the line are exhausted at disconnect.

Operation: Operation refers to the action required to connect and disconnect a coupler. Operation is a function of sockets only and does not vary for plugs.

Flow: The most important factor in properly sizing couplers is flow. Flow data is given throughout the catalog for industrial interchange design couplers, as well as many of Foster's interchanges for competitors' non-standard designs. Where flow information is not shown, it is the same as the originating competitors' non-standard design. Most One Way Shut-Off non-standard couplers have the same flow as the same basic size industrial interchange design. All flows shown are for FPT couplers.

Media: The media flowing through the coupler will usually determine the type. Compressed air, many other gasses, and some liquids can be handled by One Way Shut-Off couplers. Hydraulic fluids as well as many other liquids and some gasses require Two Way Shut-Off. Straight-Thru couplers are suitable where there is no pressure in the line at connect or disconnect and loss of media at disconnect does not matter.



Think Safety First



Pressurized lines employing quick-disconnect couplers should be considered potentially hazardous and must be used with safety in mind. Proper selection and use of Foster products will help you maintain a safe working environment for your personnel, your equipment, and your products.

Foster's quick-disconnect couplers are precision devices—do not modify, strike, or otherwise abuse the coupling halves. Never exceed their pressure or temperature limits and always protect the hose and coupler assembly from moving equipment.

Be cautious when moving pressurized hoses as some types of quickdisconnect couplers may unintentionally disconnect if the coupler encounters an obstacle as the hose is dragged. The pressurized media subsequently escaping from the freed line can force the hose assembly to violently whip about, possibly causing personal injury, equipment/product damage, and economic loss. Foster couplers and plugs designed to

minimize hose-whip hazards should be used whenever the risk is present, and personnel must be instructed to maintain a firm grip on both coupler halves when connecting or disconnecting pressurized lines.

Above all, always wear appropriate personal-protection equipment and safety glasses when working with, or near, pressurized lines utilizing quick-disconnect couplers.

Described below are several products offered by Foster Manufacturing Company that are designed to minimize the possibility of inadvertent disconnection and dangerous hose-whip:

- Couplers -

Sleeve Guard Sockets:

Sleeve guard sockets (models SG3 and TF3) employ a rigid flange at the nose of the socket that protects the sleeve from accidental retraction if the coupler encounters an obstacle while the hose is being dragged or moved.

Sleeve Locking Options:

BL and SL options employ a ball or pin to restrict sleeve retraction and are available on all Foster manual and automatic couplers having retractable sleeves. Couplers with the BL or SL designation are constructed with sleeves having a slot that must be aligned with a ball or pin before the sleeve is allowed to retract. Rotating the sleeve 180 degrees so the slot is not aligned with the ball or pin will minimize the chance of accidental sleeve retraction.

Twist-lock Sockets:

Our twist-lock couplers (RL series and SHD series) offer another option for minimizing the chance of hose-whip. These models are very resistant to accidental disconnection because the sleeves must be rotated, rather than retracted, to release the plug. In addition, the RL and SHD couplers are push-to-connect automatic models designed for easy operation when using gloved hands.

Safety Vent Sockets:

Foster SV series safety-vent sockets are "zero pressure" connect/disconnect type couplers designed to safely vent downstream pressure prior to disengaging the plug. Besides being nearly effortless to connect and great for hose use, SV sockets are especially useful for single-hand operation when they are mounted to hard lines such as an overhead air drop. Once inserted into the SV socket, the plug is lightly gripped and will stay in place allowing the operator to use the same hand to actuate the sleeve to the "on" position. As the sleeve is being moved to the "on" position, the SV socket will securely lock the plug in place before flow begins. Foster SV sockets can also be used as a 3-way valve to turn off the flow of air and exhaust the downstream pressure without disengaging the plug. By turning and sliding the sleeve to the "exhaust" position, downstream air pressure is relieved but the plug remains locked in place. Turning and sliding the sleeve in the opposite direction allows air to flow again. Foster SV series sockets are the ultimate solution to accidental-disconnect hose-whip dangers.

- Plugs -

Ball Check Plugs

Ball check plugs are offered in several sizes of Industrial Interchange and RL plugs. Ball-check plugs have a free-floating internal ball that acts as a check valve when the plug is disconnected from the coupler. The checkvalve action minimizes hose-whip by causing the pressurized gas to escape slowly from the disconnected hose.

- Air Blowguns -

Foster manufactures several types of air blowgun products designed for cleaning, blow-off, inflation, and other operations. The blowguns are available with zinc or nylon bodies and we offer a variety of optional tips for nearly any use. Foster blowguns are available in OSHA* compliant and non-compliant** models to suit your particular needs.

- * Blowguns that comply with OSHA regulations will limit the pressure of air exiting the gun to less than 30 psig when the tip is dead-headed. All Foster blowguns using "standard" and "safety" tips are OSHA compliant and are available with either removable threaded tips or tamper resistant crimped tips.
- ** Note: If a non-compliant blowgun/tip assembly is being used, air pressure to the gun's inlet must be regulated to less than 30 PSI to meet OSHA regulations.

Product Selection and Training -

We strongly recommend that the end user obtain proper training before using guick-disconnect couplers, air blowguns, and other Foster products. Thoughtful analysis of the user's needs and application must be given before selecting a product.

Our dedicated employees and distributors are eager to explain the features, benefits, and proper selection of Foster products, and answer your questions regarding their correct application and safe use.



One Way Shut-Off - Series 2 thru 6



Type: One Way Shut-Off – Socket is valved, shutting off supply line at disconnect. Plug is un-valved, exhausting downstream line at disconnect. Install socket on pressure side of line.

Interchangeability: Standard industrial interchange design, most widely used in industry. 3 and 5 Series Automatic water service comply with A-A-59439 (formerly MIL-C-4109F). 3-4-5-6 SERIES MEET ISO 6150-B, ANSI(NFPA)T3.20.14-1990. IN ADDITION, SV SOCKETS MEET ISO 4414.

Rated Pressure: 300 PSIG; Vacuum to 26"Hg (connected) Contact Foster for higher pressure applications.

Manual: Socket sleeve must be manually retracted to connect and disconnect.

- Low cost, general purpose coupler
- · Positive locking mechanism
- 65% more ball retention
- Precision leakproof seal and heavy steel sleeve.

Automatic: Inserting the plug into the socket automatically retracts the sleeve to connect. Manually retract the sleeve to disconnect.

- One hand operation
- One piece sleeve with rear crimp
- · Precision leakproof seal
- · Long wearing pin type locking mechanism
- Greater plug contact

Features:

- · High flow capability for small coupler
- Precision leak-proof seal
- Positive locking mechanism
- Sockets other than standard are color coded: Water (Blue), Steam (Black), and Heat (Red)

Safety: To connect, insert plug and pull sleeve forward. To disconnect, push sleeve back while rotating first counter clockwise and then clockwise.

As sleeve goes black, supply line is shut off, downstream line is exhausted, and plug is released. Remove plug.

- 100% safety
- Connect and disconnect at "0" pressure
- Plug locked before air is turned on and downstream line is exhausted before plug is released, completely eliminating hose whip
- Tested to 100,000 operations with no leakage
- Special lubrication eliminates dry breakaway
- Can be used as 3-Way on-off valve without disconnecting

Connection Sizes:

- 1/8" to 1" NPT
- ¼" to 1" Hose Barb (Hose clamp required. See page 96 for Python hose clamps)
- ¼" to ½" Push-on Hose Barb (Clamps not required when used with Push-On Hose. See page 63 for Push-On Hose)

Options:

Ball Lock (BL) – Locks manual socket against accidental disconnect. To connect, align ball with slot. After connection, rotate sleeve to lock. To disconnect, realign ball with slot and retract sleeve..

Sleeve Lock (SL) – Locks automatic socket against accidental disconnect. To connect, align notch with slot. After connection, rotate sleeve to lock. To disconnect, realign notch with slot and retract sleeve.

BALL CHECK PLUG – Eliminates hose whip at disconnect by checking the rapid flow of downstream exhaust air.

SWIVEL PLUGS – Free swivel under pressure. Eliminates hose twist on end drop applications such as blow guns, air tools, etc.

Performance Data:

						Pressu	re Drop				
Fastan	1	PS	PSI Rated Pressure, Coupled (Body / Sleeve)			Air Flov	v – CFM		Water	Flow	
Foster Series	Body Size	(Body / Siecve)		100	PSIG	80 F	SIG	GPM 6	0 PSIG		
		Brass / Steel	Brass / Brass	Steel / Steel	S.S. / S.S.	10 PSIG	5 PSIG	10 PSIG	5 PSIG	10 PSIG	5 PSIG
Series 2	¹ /8"	300*	300*	n/a	300*	16	12	14	11	1.8	1.2
Series 3	1/4"	300*	300*	300	300*	36	26	33	24	3.7	2.5
Series 4	³ /8"	300*	300	300	n/a	68	50	62	45	6.8	5
Series 5	1/2"	300*	300	300	n/a	118	90	107	82	11	8
Series 6	3/4"	300	300	300	n/a	190	135	172	122	22	16

^{*} Contact factory for higher pressure applications.



COSTER® One Way Shut-Off - Series 3 thru 6

4

Foster 3 thru 6 Series couplers are designed for rigid mounting that allows a simple push-to-connect operation, constructed of a solid brass body and a steel valve. The "FM" Series are mechanically interchangeable with similar industrial interchange couplings made by other manufacturers and accept plugs that conform to MIL-C4109-F. Plugs used with the "FM" Series are the Industrial Interchange plugs that are found on page xx of this catalog. FM Series 3 and 5 couplers comply with A-A-59439.

Sleeve-Lock Option

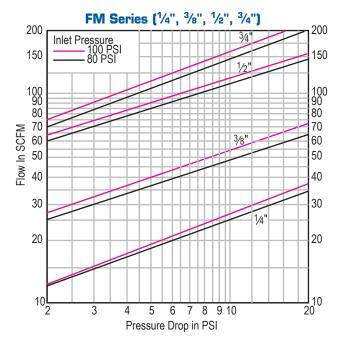
Sleeve-Lock feature locks automatic socket against accidental disconnect. To connect, align ball with slot. After connection, rotate sleeve to lock. To disconnect, realign ball with slot and retract



sleeve. Sizes available with sleeve lock are shown in the tables on following pages.

Oursitiestiens		Body Size				
Specifications	1/4"	3/8"	1/2"	3/4"		
Rated Pressure (psi)	30	0 PSIG; vac	cuum to 26"	Hg		
Temperature Range (std seals)		-40° to +250° F				
Locking Device	3 pawls	4 pawls	5 pawls	6 pawls		
Vacuum Data			,			
Disconnected (coupler only)	Not Recommended					
Connected		27.4 inc	hes Hg			
Approximate CFM at 100 (psi)	37	70	150			

Performance:



Optional Seal [Ordering]:

Buna-N seal is standard. Alternate seals are specified by the appropriate suffix on the catalog number. For example, 3003 socket with Heat Adder is 3003H

Service	Construction	Seal	Temperature	Suffix
Air, Vacuum, Grease & Oil	Brass & Steel	Buna-N	-40° to +250°F	none
Water	Brass & S/S	Buna-N	+32° to +100°F	W
Hot Water	Brass & S/S	Viton	-40° to +400°F	HW
Steam	Brass & S/S	EPDM	-40° to +250°F	S
Heat	Brass & Steel	Viton	-40° to +400°F	Н
Less Valve	Brass & Steel	Buna-N	-40° to +250°F	LV

Note: Temperatures shown are seal compatibility. Consult factory for operational characteristics.

industrial



One Way Shut-Off - Series 2 thru 6



Features:

- High flow metal valves.
- Precision molded seals form a "bubble tight" seal for reliable operation within rated working pressures. Nitrile (Buna-N) seals are standard. EPDM, Viton and Neoprene seals are available as options.
- Proven ball locking mechanism with large numbers of stainless steel locking balls evenly distribute the load to resist wear and provide positive connections and allow a swiveling action to reduce hose torque.
- Integral sleeve guard protects the sleeve and resists accidental disconnects for the "SG" series.
- Knurling and/or grooves on the sleeve provide a gripping surface for ease of operation.
- Wide range of body sizes, materials, options and end terminations are available to meet specific needs.
- Accepts Industrial Interchange Plug.



Operation: Sleeve type couplings are widely used to connect air and low pressure fluid lines. Their compact and economical design uses a ball locking mechanism consisting of captive stainless steel balls that engage the locking groove on the mating plug. The sliding spring loaded sleeve on the socket must be manually retracted in order to connect or disconnect the

Material: Brass body and socket end, zinc-plated steel sleeve

Working Pressure: 300 PSIG; vacuum to 26" Hg Interchangeability: Complies with ANSI/NFPA

T3.20.14-1990 & ISO 6150-B

Considerations	Body Size				
Specifications	1/4"	3/8"	1/2"		
Rated Pressure (psi)	300	300	300		
Temp. Range (Buna-N Seal)	-40° to +250° F				
Locking Device	Stainless Steel Balls				
Vacuum Data (inches Hg)					
Disconnected (coupler only)	No	t Recommend	led		
Connected	27.4	27.4	27.4		
Approximate CFM at 100 (psi)	37 70 150				

1/8" One Way Shut-Off - 2 Series

2 Series ½" Plugs

Plastic and Metal Tubing	

Part No.	Size	Description
PJ8-2	.170" x ½"	Plastic
PJ8-2V	.170" x ½"	Plastic - Valve Core Brass
PJ8-2VLV	.170" x ½"	Plastic - Less Valve
PJ8-2M	1/4"	Soft Metal
PJ8-2S/S	1/4"	Stainless Steel
PJ8-2VM	1/4"	Soft Metal - Valve Core Brass

Female Thread	Part No.	FPT	Description	
		23-2	1/8"	Charl
		27-2	1/4"	Steel

		Part No.	MPT	Description
ale ead		22-2	1/8"	Steel
Ma hre	Male Threa	22-2B	1/8"	Brass
		22-2S/S	1/8"	303 Stainless
		24-2	1/4"	Steel

		Part No.	I.D.	Description
lose		02-2	1/8"	Steel
St.	5	03-2	³ / ₁₆ "	Requires Hose Clamp
		04-2	1/4"	(See page 96 for typical hose clamps)

		Part No.	I.D. x O.D.	Description
able Slamp		PB3-2	¹ /4" x ¹ /2"	
Reus Hose C		PB5-2	¹ / ₄ " x ⁹ / ₁₆ "	Steel
エ	FOSTER	PB7-2	¹ /4" x ⁵ /8"	



1/8" One Way Shut-Off - 2 Series

2 Series 1/8" Sockets

— 5	3 19	Part No.	Size	Description
anc bin	Plastic and Metal Tubing	SJ8-2	.170" x ¹ / ₄ "	Plastic
<u> </u>		BLSJ8-2		Ball Lock, 1/4" Plastic
ast		SJ8-2M		Soft Metal
B		BLSJ8-2M	1/4""	Ball Lock, Soft Metal
		SJ8-2S/S		303 Stainless

ng		Part No.	Size	Description
idn.	Plastic & Metal Tubing Panel Mount	SJ8P-2	.170" x ¼"	Plastic
al T		BLSJ8P-2		Ball Lock, Plastic
Met el Mo		SJ8P-2HW		Plastic for Hot Water
∞ 8		SJ8P-2W		Plastic, for Water
asti		SJ8P-2M		Soft Metal
ä		BLSJ8P-2M		Ball Lock, Soft Metal

		Part No.	FPT	Description
		2302		Brass/Steel
		BL2302		Ball Lock
		2302H		Brass/Steel For Heat, Viton Seal
þ		2302HW	1/8"	Brass/SS For Hot Water, Viton Seal
rea	Female Thread	2302S/S	/8	303 Stainless
Th		BL2302S/S		Ball Lock, 303 Stainless
nale		2302S/SH		303 Stainless For Heat, Viton Seal
Fen		2302W		Brass/SS For Water, Buna-N Seal
		2702		Brass/Steel
		BL2702		Ball Lock
	2702H	1/4"	Brass/Steel For Heat, Viton Seal	
	2702HW		Brass/SS For Hot Water,Viton Seal	

		Part No.	MPT	Description
	Male Thread	2202		Brass/Steel
		BL2202]	Ball Lock
		2202S/S]	Brass
ad		BL2202S/S		Ball Lock, 303 Stainless
Thre		2202H	1/8"	For Heat, Viton Seal
Male		2202S		For Steam, Brass/SS, EPDM Seal
		2202W		For Water, Brass/SS, Buna-N Seal
		2402		Brass/Steel
		BL2402	1/4"	Ball Lock
		2402H		For Heat, Viton Seal

		Part No.	I.D.	Description
	Hose Stem	2022		Brass/Steel
		BL2022	1/8"	Ball Lock
		2022W	70	For Water, Brass/SS, Buna-N Seal
Ξ		2032		Brass/Steel
Ste		BL2032	³ / ₁₆ "	Ball Lock
ose (2032HW		For Hot Water, Brass/SS, Viton Seal
Ī		2032S		For Steam, Brass/SS, EPDM Seal
		2042		Brass/Steel
		BL2042	1/4"	Ball Lock
		2042HW	,4	For Hot Water, Brass/SS, Viton Seal
	Requires Hose C	Clamp (See page !	96 for typic	cal hose clamps)

	Non-Standard Product		Standard Product
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¹/₄" One Way Shut-Off - 3 Series



3 Series 1/4" Plugs

		Part No.	FPT	Description
ad	======================================	13-3		Steel
Thread		13-3B	1/8"	Brass
		13-3S/S		303 Stainless
Female		11-3	1/4"	Steel
em		11-3B		Brass
<u> </u>		11-3S/S		303 Stainless
		15-3	3/8"	Steel

		Part No.	I.D.	Description		
_		16-3	1/4"	Steel		
Stem		16-3B	74	Brass		
	15/8	165-3	5/16"	Steel		
)S(Hose	17-3	³ /8"	Steel		
Ť		17-3B		Brass		
	Requires Hose Clamp (See page 96 for typical hose clamps)					

		Part No.	MPT	Description
		12-3		Steel
		12-3B	1/8"	Brass
		12-3S/S	78	303 Stainless
		12S-3		Free Swivel Under Pressure Steel
		10-3		Steel
		10-3B		Brass
75		10-3S/S		303 Stainless
ea(10-3D		w/Dill Valve Steel
Гhr		10-3G		Ball Check, Steel
6	10,33	10-3GB	1/4"	Ball Check, Brass
Ma	Male Thread	10-3GS		Ball Check, Spring Loaded, For Steam, Brass/SS Material, EPDM Seal
		10-3GS/S		Ball Check, 303 Stainless
		10S-3		Free Swivel Under Pressure
		10-3DB		Brass, Valve Core Plug
		14-3		Steel
		14-3B	3/8"	Brass
		14-3GB	/8	Ball Check, Brass
		14S-3		Free Swivel Under Pressure

		Part No.	I.D.	Description
sh-On e Stem		51-3	1/4"	Steel
Pus Hos		71-3	3/8"	Steel
	Hose clamps not requ	ired when u	sed with "Pu	sh On" hose. See page 63.

		Part No.	I.D. x O.D.	Description
		PB3-3	1/4" x 1/2"	Steel
		PB3-3B	1/4" x 1/2"	Brass
up	-	PB3-3S/S	1/4" x 1/2"	303 Stainless
Reusable Hose Clamp		PB5-3	¹ / ₄ " x ⁹ / ₁₆ "	Steel
၂ ရ		PB5-3B	¹ /4" x ⁹ / ₁₆ "	Brass
OS(THESE	PB7-3	1/4" x 5/8"	Steel
I	121(3)	PB7-3B	1/4" x 5/8"	Brass
ple		PB7-3S/S	1/4" x ⁵ /8"	303 Stainless
ISa	33	PC5-3	⁵ /16" X ⁹ /16"	Steel
Zer		PC7-3	⁵ / ₁₆ " x ⁵ / ₈ "	Steel
		PD7-3	³ /8" x ⁵ /8"	Steel
		PD9-3	³ /8" X ¹¹ / ₁₆ "	Steel
		PD11-3	³ /8" x ³ /4"	Steel
		PD13-3	³ /8" X ¹³ / ₁₆ "	Steel

- [1] Ball check plugs eliminate hose whip at disconnect by checking the rapid flow of downstream exhaust air
- [2] Swivel Plugs Eliminates hose twist on end drop applications such as blow guns, air tools, etc.

Dust Caps

	Part No.	Size	Description
Dust Cap	3PDC	1/4"	Plastic

	Part No.	I.D. x O.D.	Description
Dust Caps, Sockets	3SDC	1/4"	For Manual ½" only

Non-Standard Product Standard Product

MurdockIndustrial

See page 138 for full size templates



¹/₄" One Way Shut-Off - 3 Series

3 Series 1/4" 1-Way Manual Sleeve Guard Sockets

Thread	Part No.	FPT	Description
Thi	SG2803	1/8"	Brass
	SG3003	1/4"	Brass
Female	SG3003LV	1/4"	Brass, less Valve
Fe	SG3203	3/8"	Brass

ad		Part No.	MPT	Description
Thread		SG2903	1/8"	Deece
	THE RESERVE OF THE PERSON NAMED IN COLUMN	SG3103	1/4"	Brass
Male		SG3103D	1/4"	Brass w/Dill Valve
_		SG3303	3/8"	Brass

^[1] Sockets with modified valves are recommended for use with valve core plugs. Suffix-D to socket Cat. No.

		Part No.	I.D.	Description		
Hose Stem	186	SG3603	1/4"			
Hose		SG3703	3/8"	Brass		
Requires Hose Clamp (See page 96 for typical hose clamps)						

		Part No.	I.D.	Description
sh-On e Stem	A S 6. L.	SG1513	1/4"	Brass
Pus Hos		SG1713	3/8"	DIdSS
	Hose clamps not requ	ired when us	ed with "Pus	h On" hose. See page 63.

3 Series 1/4" 1-Way Manual Sockets

		Part No.	FPT	Description
		2803		Brass/Steel
		BL2803		Ball Lock
		2803GB		Brass
		2803GS		Steel
		2803H	1/8"	Steel, For Heat, Viton Seal
		2803S		Brass/SS, For Steam, EPDM Seal
		2803S/S		303 Stainless
		BL2803S/S		Ball Lock, 303 Stainless
		2803W		Brass/SS, For Water, Buna-N Seal
		3003		Brass/Steel
		BL3003		Ball Lock
		3003D		w/Dill Valve
		3003GB		Brass
ᅙ	11 17 7 12 10	3003GS		Steel
Female Thread		3003H	Ì	Steel, For Heat, Viton Seal
드		3003HW		Brass/SS, For Hot Water, Viton Seal
<u>a</u>		3003LV	1/4"	Steel , Less Valve
na	1500	3003S		Brass/SS, For Steam, EPDM Seal
e		3003S/S		303 Stainless
		BL3003S/S		Ball Lock, 303 Stainless
		3003S/SH		303 Stainless, For Heat, Viton Seal
		3003W		Brass/SS, For Water, Buna-N Seal
		BL3003W		Brass/SS, Ball Lock, For Water, Buna-N Seal
		3203		Brass/Steel
		BL3203		Ball Lock
		3203GB		Brass
		3203GS		Steel
		3203H	3/"	Steel, For Heat, Viton Seal
		3203LV	3/8"	Steel , Less Valve
		3203S/S		303 Stainless
		BL3203S/S		Ball Lock, 303 Stainless
		3203S/SLV		Less Valve, 303 Stainless
		3203W		Brass/SS, For Water, Buna-N Seal

		Part No.	MPT	Description
		2903		Brass/Steel
		BL2903		Ball Lock
		2903GB		Brass
		2903GS	4	Steel
		2903H	1/8"	Steel, For Heat, Viton Seal
		2903S		Brass/SS, For Steam, EPDM Seal
	2903S 2903S/S BL2903S/S	2903S/S		303 Stainless
			Ball Lock, 303 Stainless	
		3103		Brass/Steel
		BL3103		Brass/Steel, Ball Lock
		3103D		Brass/Steel, w/Dill Valve
		3103GB		Brass
		3103GS		Steel
g	10 () G CO. (3	3103H		Brass/Steel, For Heat, Viton Seal
ě	03 \$15.1	3103LV		Brass/Steel, Less Valve
두		3103S		Brass/SS, For Steam, EPDM Seal
Male Thread		3103S/S	1/4"	303 Stainless
Ma	2903	BL3103S/S		Ball Lock, 303 Stainless
		BL3103S/S-104		Ball Lock, 303 Stainless, w/Silicone Seal
		3103S/SH		303 Stainless, For Heat, Viton Sea
		3103S/SLV		303 Stainless, Less Valve
		3103W		Brass/SS, For Water, Buna-N Sea
		BL3103W		Ball Lock, For Water, Brass/SS, Buna-N Seal
		3303		Brass/Steel
		BL3303		Ball Lock
		3303GB		Brass
		3303GS	3/8"	Steel
		3303H	/8	Steel , For Heat, Viton Seal
		3303S/S		303 Stainless
		BL3303S/S		Ball Lock, 303 Stainless
		3303W		Brass/SS, For Water, Buna-N Seal



¹/₄" One Way Shut-Off - 3 Series



3 Series 1/4" 1-Way Manual Sockets (Continued)

		Part No.	I.D.	Description
	3603		Brass/Steel	
		BL3603		Ball Lock
		3603GB		Brass
		3603GS	1/4"	Steel
	-	3603S	/4	Brass/SS, For Steam, EPDM Seal
	LIFE, CO. INC.	3603S/S		303 Stainless
		BL3603S/S		Ball Lock, 303 Stainless
_	D. Manus St. RUS	3603W		Brass/SS, For Water, Buna-N Seal
Hose Stem		3653	⁵ /16"	Brass/Steel
S		BL3653		Ball Lock
se	1 3303	3653GB	/16	Brass
Ho		3653GS		Steel
		3703		Brass/Steel
		BL3703		Ball Lock
		3703GB		Brass
		3703GS	3/8"	Steel
		3703S	/8	Brass/SS, For Steam, EPDM Seal
		3703S/S		303 Stainless
		BL3703S/S		Ball Lock, 303 Stainless
		3703W		Brass/SS, For Water, Buna-N Seal
	Requires Hose	Clamp (Se	e page 9	96 for typical hose clamps)

_	TOTAL CO.	Part No.	I.D.	Description
en	Push-On Hose Stem	1513	1/4"	Brass/Steel
		BL1513		Ball Lock
se		1513GB	/4	Brass
오		1513W		For Water, Brass/SS, Buna-N Seal
⊑		1713		Brass/Steel
P	4.85	BL1713	3/8"	Ball Lock
sh	S III	1713GB		Brass
Pu		1713W		For Water, Brass/SS, Buna-N Seal
	Hose clamps not re	quired when	used with "l	Push On" hose. See page 63.

		Part No.	I.D. x O.D.	Description
		SB3-3		Brass/Steel
		BLSB3-3W		Ball Lock, For Water, Brass/SS, Buna-N Seal
		SB3-3GB	1/11 1/11	Brass
		SB3-3GS	1/4" x 1/2"	Steel
		SB3-3S/S		303 Stainless
		SB3-3W		Brass Steel
		SB5-3		Brass/Steel
		BLSB5-3		Ball Lock
		SB5-3GB	¹ /4" X ⁹ / ₁₆ "	Brass
		SB5-3GS	/4 A / 16	Steel
		BLSB5-3W		· · · · · · · · · · · · · · · · · · ·
	DETERMINE	SB7-3		Brass/Steel
를		BLSB7-3		Ball Lock
<u>a</u>		SB7-3GB		Brass
Reusable Hose Clamp	TOTAL STORY	SB7-3GS		Steel
		SB7-3S/S	¹ / ₄ " x ⁵ / ₈ "	303 Stainless
	The second second	BLSB7-3S/S	,	Ball Lock, 303 Stainless
able		SB7-3W		
ens		BLSB7-3W		Ball Lock, For Water,
œ	1982	SC5-3	5/ " 9/ "	Brass/Steel
		BLSC5-3	⁵ /16" X ⁹ /16"	Ball Lock
		SC7-3	⁵ / ₁₆ " x ⁵ / ₈ "	Brass/Steel
		BLSC7-3	716 X 78	Buna-N Seal Brass/Steel Ball Lock Brass Steel Ball Lock, For Water, Brass/SS, Buna-N Seal Brass/Steel Ball Lock Brass Steel 303 Stainless Ball Lock, 303 Stainless For Water, Brass/SS, Buna-N Seal Ball Lock, For Water, Brass/SS, Buna-N Seal Brass/Steel Ball Lock
		SD7-3		Brass/Steel
		BLSD7-3	3/8" x 5/8"	Ball Lock
		SD7-3GB	78 X 78	Brass
		SD7-3GS		Steel
		SD9-3	³ /8" X ¹¹ / ₁₆ "	Brass/Steel
		BLSD9-3	78 X /16	Ball Lock
		SD11-3		Brass/Steel
		BLSD11-3	³ /8" x ³ /4"	Ball Lock
		SD11-3GB	78 X 74	Brass
		SD11-3GS		Steel
		SD13-3	³ /8" X ¹³ / ₁₆ "	Brass/Steel
		BLSD13-3	78 X 7/16	Ball Lock

Non-Standard Product		Standard Produc
See page 138 for full size temp	lates	

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1/4" One Way Shut-Off - 3 Series

3 Series 1/4" 1-Way Automatic Sockets

		Part No.	FPT	Description
		FM2803		Brass
		FM2803S	4	For Steam, Brass/SS, EPDM Seal
		SL2803	1/8"	Sleeve Lock
		FM2803W		For Water, Brass/SS, Buna-N Seal
p		FM3003		Brass
геа	- 13 ··· - 081 LR /4	SL3003		Sleeve Lock
e Thı		FM3003HW	1/4"	For Hot Water, Brass/SS, Viton Seal
Female Thread	10082	FM3003S		For Steam, Brass/SS, EPDM Seal
Ţ		FM3003W		For Water, Brass/SS, Buna-N Seal
		SL3003W		Sleeve Lock, For Water, Brass/SS, Buna-N Seal
		FM3203		Brass
		SL3203		Sleeve Lock
		FM3203H	3/8"	For Heat, Viton Seal
		FM3203W		For Water, Brass/SS, Buna-N Seal

		Part No.	MPT	Description
		FM2903	1/8"	Brass
		SL2903	78	Sleeve Lock, Brass
		FM3103		Brass
		SL3103		Sleeve Lock, Brass
		FM3103D		w/Dill Valve
		SL3103D		Sleeve Lock, w/Dill Valve, Brass
Male Thread	HV MEOSTER MC	FM3103H		For Heat, Viton Seal
		FM3103HW	1/4"	For Hot Water, Brass/SS, Viton Seal
/ale	Too S	SL3103HW		Sleeve Lock, For Hot Water, Brass/SS, Viton Seal
N		FM3103S		For Steam, Brass/SS, EPDM Seal
		FM3103W		For Water, Brass/SS, Buna-N Seal
		SL3103W		Sleeve Lock, For Water, Brass/SS, Buna-N Seal
		FM3303		Brass/SS, Viton Seal For Steam, Brass/SS, EPDM Seal For Water, Brass/SS, Buna-N Seal Sleeve Lock, For Water,
		SL3303	3/8"	Sleeve Lock, Brass
		FM3303W	, ,	

^[1] Sockets with modified valves (Dill Valve) are recommended for use with valve core

		Part No.	I.D.	Description
		FM3603	1/4"	Brass
	- (34) FOSTER	SL3603	1/4"	Sleeve Lock, Brass
Hose Stem		FM3603S	1/4"	For Steam, Brass/SS, EPDM Seal
		FM3653	⁵ / ₁₆ "	Brass
		SL3653	⁵ / ₁₆ "	Sleeve Lock, Brass
		FM3703	3/8"	Brass
		SL3703	3/8"	Sleeve Lock, Brass
		FM3703S	3/8"	For Steam, Brass/SS, EPDM Seal
	Requires Hose Clamp	s (See page 96	for typical	hose clamps)

Stem	4M3-FOSBA M	Part No.	I.D.	Description
		FM1513	1/4"	Brass
Se		SL1513	1/4"	Sleeve Lock, Brass
Ĭ		FM1713	3/8"	Brass
כָ		SL1713	3/8"	Sleeve Lock, Brass
Push-On Hose		FM1713W	3/8"	For Water, Brass/SS, Buna-N Seal
	Hose clamps not requ	ired when used	with "Push	On" hose. See page 63.

		Part No.	I.D. x O.D.	Description
шb		FMSB3-3	1/4" x 1/2"	
lai	M3-4F0.11g	FMSB5-3	1/4" x 9/16"	
e (FMSB7-3	1/4" x 5/8"	
<u> 0</u>		FMSC5-3	⁵ /16" x ⁹ /16"	
T a	12 131	FMSC7-3	⁵ / ₁₆ " x ⁵ / ₈ "	Brass
plok		FMSD7-3	3/8" x 5/8"	
US		FMSD9-3	³ /8" x ¹¹ / ₁₆ "	
Reusable Hose Clamp		FMSD11-3	3/8" x 3/4"	
		FMSD13-3	³ /8" X ¹³ / ₁₆ "	

	Part No.	I.D. x O.D.	Description	
Q		SLSB3-3	1/4" x 1/2"	
am	THE MADE IN	SLSB5-3	¹⁄4" x ⁹ ∕16"	Sleeve Lock, Brass
हें ह	ğ	SLSB7-3		Бійоо
Hose eve Lo	6	SLSB7-3W	¹ / ₄ " x ⁵ / ₈ "	Sleeve Lock, For Water, Brass/SS, Buna-N Seal
e F Sle	Reusable Hose Clamp with Sleeve Lock	SLSC5-3	⁵ /16" X ⁹ /16"	
ab vith		SLSC7-3	⁵ /16" x ⁵ /8"	
NS N		SLSD7-3	3/8" x 5/8"	Sleeve Lock,,
Re		SLSD9-3	³ /8" X ¹¹ / ₁₆ "	Brass
		SLSD11-3	³ / ₈ " x ³ / ₄ "	
	SLSD13-3	³ /8" x ¹³ / ₁₆ "		

📑 industrial



³/₈" One Way Shut-Off - 4 Series



4 Series 3/8" Plugs

ead		Part No.	FPT	Description
Гhг		41-4	1/4"	Ctool
e]		43-4	3/8"	Steel
emale	41-4	43-4S/S	78	303 Stainless
Fe	41-4	45-4	1/2"	Steel

		Part No.	MPT	Description
	Thread	38-4	1/8"	Steel
ac		40-4	1/4"	Steel
ıre		40-4B		Brass
		40-4S/S		303 Stainless
Male	20-2	42-4	3/8"	Steel
Ma		42-4B		Brass
		42-4S/S		303 Stainless
		44-4	1/2"	Steel

ad Pressure	Part No.	MPT	Description
Threa - Under	40S-4	1/4"	Ctool
Male Free Swivel	42S-4	3/8"	Steel

	Hose Stem	Part No.	I.D.	Description	
Ē		46-4	1/4"		
Ste		47-4	⁵ / ₁₆ "	Steel	
Se		48-4	3/8"		
운		48-4B		Brass	
		49-4	1/2"	Steel	
Requires Hose Clamps (See page 96 for typical hose clamps)					

		Part No.	I.D.	Description	
C Hem	12 11	51-4	1/4"	Steel	
ush-(71-4	3/8"	Older	
		71-4B	/8	Brass	
		81-4	1/2"	Steel	
	Hose clamps not requ	ired when used	with "Push On"	hose. See page 63.	

		Part No.	I.D. x O.D.	Description
Q		PB3-4	1/4" x 1/2"	Steel
ole am		PB5-4	1/4" x 9/16"	Steel
Signal City	C THE WA	PB7-4	¹⁄₄" x ⁵⁄ ₈ "	Steel
e se		PD7-4	³⁄8" x ⁵⁄8"	Steel
Reusable Hose Clamp		PD9-4	³ /8" x ¹¹ / ₁₆ "	Steel
	FOSIL	PD11-4	3/8" x 3/4"	Steel
		PD13-4	³ /8" X ¹³ / ₁₆ "	Steel

4 Series 3/8" 1-Way Manual Sockets

		Part No.	FPT	Description
		4004	1/4"	Brass/Steel
_	Stephenson	BL4004	/4	Ball Lock, Brass/steel
Female Thread	Tours, Co. II	4204		Brass/Steel
hre	State Control of	BL4204		Ball Lock, Brass/Steel
E	1:03:1	4204H	³ /8"	For Heat, Viton Seal, Brass/Steel
ale		4204S		For Steam, Brass/SS, EPDM Seal
Ë		4204S/S		303 Stainless
Fe		BL4204S/S		Ball Lock, 303 Stainless
		4204W		For Water, Brass/SS, Buna-N Seal
		4404	1/2"	Brass/Steel
		BL4404		Ball Lock, Brass/Steel

		Part No.	I.D.	Description
		4604		Brass/Steel
	TOTAL CO. INC. THE	BL4604	1/4"	Ball Lock, Brass/Steel
		4604W		For Water, Brass/SS, Buna-N Seal
Hose Stem	DED SO. 4 SECTED	4704	⁵ /16"	Brass/Steel
		BL4704		Ball Lock, Brass/Steel
		4804	3/8"	Brass/Steel
		BL4804		Ball Lock, Brass/Steel
		4804S		For Steam, Brass/SS, EPDM Seal
		4804W		For Water, Brass/SS, Buna-N Seal
		4904	1/2"	Brass/Steel
		BL4904		Ball Lock, Brass/Steel
		4904S		For Steam, Brass/SS, EPDM Seal
	Requires Hose Cla	mn (See nac	e 96 for typic	al hose clamps)

		Part No.	MPT	Description
		4104		Brass/Steel
		BL4104		Ball Lock, Brass/Steel
		4104H	1/4"	For Heat, Viton Seal, Brass/Steel
		4104S		For Steam, Brass/SS, EPDM Seal
	KERR MEE. CO. NEW	4104W		For Water, Brass/SS, Buna-N Seal
Male Thread	0. NO. 4 3113	4304		Brass/Steel
Jre		BL4304	3/8"	Ball Lock, Brass/Stel
F		4304S		For Steam, Brass/SS, EPDM Seal
ale		4304S/S		303 Stainless
Ĕ		BL4304S/S		Ball Lock, 303 Stainless
		4304W		For Water, Brass/SS, Buna-N Seal
		4504		Brass/Steel
		BL4504		Ball Lock, Brass/Steel
		4504H	1/2"	For Heat, Viton Seal, Brass/Steel
		4504S		For Steam, Brass/SS, EPDM Seal
		4504W		For Water, Brass/SS, Buna-N Seal

Stem	NOTER MEG. CO. 173	Part No.	I.D.	Description		
	nik (FLE MO.), Mess	1714		Brass/Steel		
se		BL1714	3/8"	Ball Lock		
운		1714W		For Water, Brass/SS, Buna-N Seal		
ush-On Hose		1814		Brass/Steel		
þ-(BL1814	1/2"	Ball Lock		
	1	1814W		For Water, Brass/SS, Buna-N Seal		
_	Hose clamps not required when used with "Push On" hose. See page 63.					

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3/8" One Way Shut-Off - 4 Series

4 Series 3/8" 1-Way Manual Sockets (Continued)

		Part No.	I.D. x O.D.	Description
		SB3-4	1/4" x 1/5"	Brass/Steel
		BLSB3-4	/4 X /2	Ball Lock, Brass/Steel
Reusable Hose Clamp	POTER LIES, CO. L.	SB5-4	¹ / ₄ " x ⁹ / ₁₆ "	Brass/Steel
		BLSB5-4	/4 X /16	Ball Lock, Brass/Steel
	7. F. F. O. V.D.	SB7-4	¹ /4" x ⁵ /8"	Brass/Steel
		BLSB7-4	'/4" X '/8"	Ball Lock, Brass/Steel
		SD7-4	³ /8" x ⁵ /8"	Brass/Steel
		BLSD7-4		Ball Lock, Brass/Steel
		SD9-4	³ /8" X ¹¹ / ₁₆ "	Brass/Steel
		BLSD9-4		Brass/Steel
		SD11-4	³ / ₈ " x ³ / ₄ "	Brass/Steel
		BLSD11-4	%" X %4"	Ball Lock, Brass/Steel
		SD13-4	³ / ₈ " x ¹³ / ₁₆ "	Brass/Steel
		BLSD13-4	%8" X 1 ³ ∕16"	Ball Lock, Brass/Steel

- [1] Ball check plugs eliminate hose whip at disconnect by checking the rapid flow of downstream exhaust air
- [2] Swivel Plugs Eliminates hose twist on end drop applications such as blow guns, air tools, etc.

4 Series 3/8" 1-Way Automatic Sockets

	Part No.	FPT	Description
	FM4004	12"	Brass
	SL4004	/4	Sleeve Lock Brass
TA FOSTER ALL	FM4204	3/8"	Brass
	SL4204		Sleeve Lock, Brass
	FM4204H		For Heat, Viton Seal
	FM4204W		For Water, Brass/SS, Buna-N Seal
	FM4404	1/2"	Brass
	SL4404		Sleeve Lock, Brass
	FM4404S		For Steam, Brass/SS, EPDM Seal
	FM4404W		For Water, Brass/SS, Buna-N Seal
	FOS PR	FM4004 SL4004 FM4204 SL4204 FM4204H FM4204W FM4404 SL4404 FM4404S	FM4004 SL4004 FM4204 SL4204 FM4204H FM4204W FM4404 SL4404 SL4404 FM4404S

		Part No.	MPT	Description
		FM4104		Brass
		SL4104	1/4"	Sleeve Lock, Brass
		FM4104S	/4	For Steam, Brass/SS, EPDM Seal
Male Thread	- WFOSTER MANE	FM4104W		For Water, Brass/SS, Buna-N Seal
Jre		FM4304	3/8"	Brass
È		SL4304		Sleeve Lock, Brass
ale .		FM4304S		For Steam, Brass/SS, EPDM Seal
ž		FM4304W		For Water, Brass/SS, Buna-N Seal
		FM4504	1711	Brass
		SL4504		Sleeve Lock, Brass
		FM4504S	1/2"	For Steam, Brass/SS, EPDM Seal
		FM4504W		For Water, Brass/SS, Buna-N Seal

		Part No.	I.D.	Description
	FOF M4···I OSTA	FM4604	1/4"	Brass
		SL4604		Sleeve Lock, Brass
		FM4704	⁵ / ₁₆ "	Brass
E		SL4704	716	Sleeve Lock, Brass
Stem	Requires Hose Clamp (See page 96 for	FM4804	3/8"	Brass
		SL4804		Sleeve Lock, Brass
Hose		FM4804H		For Heat, Viton Seal
Hc		FM4804W		For Water, Brass/SS, Buna-N Seal
		FM4904	1/2"	Brass
		SL4904		Sleeve Lock, Brass
	typical hose clamps)	FM4904W		For Water, Brass/SS, Buna-N Seal

ر E		Part No.	I.D.	Description
_		FM1714	3/8"	Brass
h-On Sten		SL1714		Sleeve Lock, Brass
		FM1814		Brass
ose		SL1814		Sleeve Lock, Brass
<u>"</u> ±		FM1814W		For Water, Brass/SS, Buna-N Seal
	Hose clamps not requ	ired when used	with "Push (On" hose. See page 63.

		Part No.	I.D. x O.D.	Description
Reusable Hose Clamp		FMSB3-4	1/4" x 1/2"	Brass
		SLSB3-4	74 X 72	Sleeve Lock, Brass
		FMSB5-4	¹ /4" x ⁹ /16"	Brass
	THE TERM	SLSB5-4	/4 X /16	Sleeve Lock, Brass
		FMSB7-4	1/4" x 5/8"	Brass
		SLSB7-4	/4 X /8	Sleeve Lock, Brass
	1051	FMSD7-4	³ / ₈ " x ⁵ / ₈ "	Brass
ole		SLSD7-4		Sleeve Lock, Brass
sak		FMSD9-4		Brass
en		SLSD9-4	/8 X /16	Sleeve Lock, Brass
Ř		FMSD11-4	³ /8" x ³ /4"	Brass
		SLSD11-4	/8 X /4	Sleeve Lock, Brass
		FMSD13-4	³ /8" x ¹³ / ₁₆ "	Brass
		SLSD13-4	/8 A /16	Sleeve Lock, Brass

- [1] Swivel Plugs Eliminates hose twist on end drop applications such as blow guns, air
- [2] Ball Lock (BL) Locks manual socket against accidental disconnect.
- [3] Sleeve Lock (SL) Locks automatic socket against accidental disconnect..

Non-Standard Product		Standard Product
See page 138 for full size temp	lates	



¹/₂" One Way Shut-Off - 5 Series



5 Series ½" Plugs

	-52	Part No.	FPT	Description
iale ead		53-5	3/8"	Steel
Femal Threa		55-5	1/2"	Steel
		55-5S/S	/2	303 Stainless
		57-5	3/4"	Steel

		Part No.	I.D.	Description
		59-5	3/8"	Steel
⊑		59-5B	3/8"	Brass
ter	Hose Stem	60-5	1/2"	Steel
S		60-5G	1/2"	Ball Check, Steel
Se		60-5B	1/2"	Brass
운		61-5	3/4"	Steel
		61-5B	3/4"	Brass
		Requires Hose Clamps (See page 96 for typical hose clamps)		

		Part No.	I.D. x O.D.	Description
<u>e</u>		PB3-5	1/4" x 1/2"	
Clamp		PB5-5	1/4" x ⁹ /16"	
ਹ		PB7-5	1/4" x 5/8"	
e e		PD7-5	3/8" x 5/8"	
<u>ĕ</u>		PD9-5	³ /8" X ¹¹ / ₁₆ "	
4)		PD11-5	3/8" x 3/4"	Steel
ğ		PD13-5	³ /8" x ¹³ / ₁₆ "	
Sa		PP13-5	1/2" x 13/16"	
Reusable Hose		PP15-5	½" x ½"	
~	Can Can	PP17-5	¹ / ₂ " x ¹⁵ / ₁₆ "	
		PP19-5	½" x 1"	

		Part No.	I.D.	Description
On		71-5	3/8"	
Push-C	81-5	1/2"	Steel	
		81-5B	1/2"	Brass
	Hose clamps not requ	ired when use	ed with "Push O	n" hose. See page 63.

		Part No.	MPT	Description
		50-5	1/4"	Steel
		52-5	3/8"	Steel
ä	Thread	52-5B	78	Brass
		54-5GB		Ball Check, Brass
F		54-5	1/2"	Steel
Male	The state of	54-5G		Ball Check, Steel
	54-5B		Brass	
		54-5S/S		303 Stainless
		56-5	3/4"	Steel
		56-5S/S		303 Stainless

ad essure	Part No.	MPT	Description
Male Thread Swivel Under Press	54\$-5	1/2"	Free Swivel Under Pressure, Steel

Coaxial Plug/Coupler

ead	Part No.	I.D.	Description
Male Thre	54-5CA	1/2"	Steel

hread er	Part No.	I.D.	Description	
Female Thr Coupler		SV5205CA	1/2"	Steel, Safety Coupler

ead	Part No.	I.D.	Description
e Thre coupler	SV5305CA	1/2"	Steel,
Male	SV5505CA	3/4"	Safety Coupler

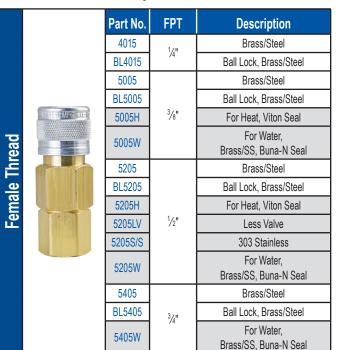
Non-Standard Product Standard Product

See page 138 for full size templates



¹/₂" One Way Shut-Off - 5 Series

5 Series ½" 1-Way Shut-Off Sockets



		Part No.	MPT	Description
		4905	1/4"	Brass/Steel
	11 1.9 G. CO. 18 12 2	BL4905	/4	Ball Lock, Brass/Steel
- 5		5105	3/8"	Brass/Steel
Male Thread		BL5105	78	Ball Lock, Brass/Steel
골		5305		Brass/Steel
ு		BL5305	1/2" 3/4"	Ball Lock, Brass/Steel
Mal		5305H		For Heat, Viton Seal
		5305S/S		303 Stainless
		5305W		For Water, Brass/SS, Buna-N Seal
		5505		Brass/Steel
		BL5505		Ball Lock, Brass/Steel

		Part No.	I.D.	Description
		5605	1/4"	Brass/Steel
	TEN	BL5605	/4	Ball Lock, Brass/Steel
	0 (<u>122)</u> (M2)	5705		Brass/Steel
		BL5705	3/8"	Ball Lock, Brass/Steel
	Hose Stem	5705H	ĺ	For Heat, Viton Seal
em		5805		Brass/Steel
St		BL5805		Ball Lock, Brass/Steel
Se	11	5805H		For Heat, Viton Seal
운		5805HW	1/2"	For Hot Water, Brass/SS, Viton Seal
	Requires Hose Clamps (See page 96 for typical hose clamps)	5805W		For Water, Brass/SS, Buna-N Seal
		5905		Brass/Steel
	, ,	BL5905	3/4"	Ball Lock, Brass/Steel
		5905W	, ,	For Water, Brass/SS, Buna-N Seal



		Part No.	I.D. x O.D.	Description	
		SD7-5		Brass/Steel	
		BLSD7-5	³ /8" x ⁵ /8"	Ball Lock, Brass/Steel	
		SD7-5W		For Water, Brass/SS, Buna-N Seal	
		SD9-5		Brass/Steel	
		BLSD9-5	³ /8" x ¹¹ / ₁₆ "	Ball Lock, Brass/Steel	
Reusable Hose Clamp		SD9-5W	70 X 710	For Water, Brass/SS, Buna-N Seal	
C		SD11-5	³ /8" x ³ /4" ³ /8" x ¹³ / ₁₆ "	Brass/Steel	
ose		BLSD11-5		Ball Lock, Brass/Steel	
Ĭ		SD13-5		Brass/Steel	
ble	9-03	BLSD13-5		Ball Lock, Brass/Steel	
Isa		SP13-5		Brass/Steel	
Seu	F051(R-0	BLSP13-5	1/2" x ¹³ / ₁₆ "	¹ /2" x ¹³ / ₁₆ "	Ball Lock, Brass/Steel
-		SP13-5W		For Water, Brass/SS, Buna-N Seal	
		SP15-5	1/2" x ⁷ /8"	Brass/Steel	
		BLSP15-5	/2 A /8	Ball Lock, Brass/Steel	
		SP17-5	¹ /2" X ¹⁵ / ₁₆ "	Brass/Steel	
		BLSP17-5	/2 A /10	Ball Lock, Brass/Steel	
		SP19-5	½" x 1"	Brass/Steel	
		BLSP19-5	/2 A I	Ball Lock, Brass/Steel	

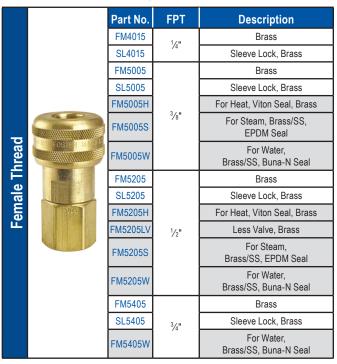
🚂 industrial



¹/₂" One Way Shut-Off - 5 Series



5 Series ½" 1-Way Automatic Sockets



		Part No.	MPT	Description
		FM4905	1/4"	Brass
		SL4905	/4	Sleeve Lock, Brass
		FM5105	3/8"	Brass
~	INSFOSTER OFG.	SL5105	/8	Sleeve Lock, Brass
ea		FM5305		Brass
直	Male Inread	SL5305	1/2"	Sleeve Lock, Brass
lale -		FM5305S		For Steam, Brass/SS, EPDM Seal
2		FM5305W		For Water, Brass/SS, Buna-N Seal
		FM5505		Brass
		SL5505	3/4"	Sleeve Lock, Brass
		FM5505S		For Steam, Brass/SS, EPDM Seal

		Part No.	I.D.	Description
		FM5605	1/4"	Brass
		SL5605	/4	Sleeve Lock, Brass
		FM5705		Brass
		SL5705	3/8"	Sleeve Lock, Brass
Шá		FM5705H		For Heat, Viton Seal, Brass
Ste		FM5805		Brass
se	Requires Hose Clamp (See page 96 for typical hose clamps)	SL5805		Sleeve Lock, Brass
Hose Stem		FM5805H	1.	For Heat, Viton Seal, Brass
		SL5805H	1/2"	For Heat, Sleeve Lock, Viton Seal
		FM5805W		For Water, Brass/SS, Buna-N Seal
		FM5905	3/4"	Brass
		SL5905	/4	Sleeve Lock, Brass

IND FOSTERIFG O	Part No.	I.D.	Description				
Push-On Hose Stem	FM1815	1/2"	Brass				
Hose clamps not required when used with "Push On" hose. See page 63.							

		Part No.	I.D. x O.D.	Description
	FMSD7-5		Brass	
	Reusable Hose Clamp	SLSD7-5	³ /8" x ⁵ /8"	Sleeve Lock, Brass
		FMSD7-5H		For Heat, Viton Seal, Brass
		FMSD9-5	³ /8" x ¹¹ /16"	Brass
ط		SLSD9-5	78 X /16	Sleeve Lock, Brass
an		FMSD11-5	³ /8" x ³ /4"	Brass
[[[]		SLSD11-5	/8 X /4	Sleeve Lock, Brass
Se		FMSD13-5	³ /8" x ¹³ / ₁₆ "	Brass
ヹ		SLSD13-5	/8 X /16	Sleeve Lock, Brass
ple		FMSP13-5	¹ /2" X ¹³ / ₁₆ "	Brass
sal		SLSP13-5		Sleeve Lock, Brass
Reu		FMSP13-5H	,	For Heat, Viton Seal, Brass
		FMSP15-5	½" x ⁷ /8"	Brass
		SLSP15-5	/2 X /8	Sleeve Lock, Brass
		FMSP17-5	¹ /2" X ¹⁵ / ₁₆ "	Brass
		SLSP17-5	/2 X /16	Sleeve Lock, Brass
		FMSP19-5	½" x 1"	Brass
		SLSP19-5	/2 X I	Sleeve Lock, Brass

- [1] Swivel Plugs Eliminates hose twist for applications such as blow guns, air tools, etc.
- [2] Ball check plugs eliminate hose whip at disconnect by checking the rapid flow of downstream exhaust air
- [3] Ball Lock (BL) Locks manual socket against accidental disconnect.
- [4] Sleeve Lock (SL) Locks automatic socket against accidental disconnect.

Non-Standard Product		Standard Product
See nage 138 for full size temp	lates	



3/4" One Way Shut-Off - 6 Series

6 Series 3/4" Plugs

0.75		Part No.	FPT	Description
nal eac		65-6	1/2"	
Fen		67-6	3/4"	Steel
	55-6	69-6	1"	

ead	Part No.	MPT	Description
Γhr	64-6	1/2"	
	66-6	3/4"	Steel
Male	68-6	1"	

u		Part No.	I.D.	Description
Stem		70-6	1/2"	Steel
Hose	lose	71-6	3/4"	Requires Hose Clamps (See page 96 for
		72-6	1"	typical hose clamps)

6 Series 3/4" 1-Way Automatic Sockets

		Part No.	FPT	Description
	FM6206		Brass	
		SL6206	1/2"	Sleeve Lock, Brass
	4 10	FM6206W	72	For Water, Brass/SS, Buna-N Seal
Ъ		FM6406		Brass
ea	Female Thread	SL6406		Sleeve Lock, Brass
'n		FM6406H	3/4"	For Heat, Viton Seal
ale T		SL6406H		For Heat, Sleeve Lock, Viton Seal, Brass
Fem		FM6406S		For Steam, Brass/SS, EPDM Seal
		FM6406W		For Water, Brass/SS, Buna-N Seal
		FM6606		Brass
		SL6606	1"	Sleeve Lock, Brass
		FM6606W	·	For Water, Brass/SS, Buna-N Seal

[1] Sleeve Lock (SL) – Locks automatic socket against accidental disconnect.

		Part No.	MPT	Description
		FM6306		Brass
		SL6306		Sleeve Lock, Brass
5	ING FOSTERING OF	FM6306S	1/2"	For Steam, Brass/SS, EPDM Seal
Male Thread	335	FM6306W		For Water, Brass/SS, Buna-N Seal
E		FM6506	3/4""	Brass
ale		SL6506		Sleeve Lock, Brass
ğ	909	FM6506S		For Steam, Brass/SS, EPDM Seal
		FM6506W		For Water, Brass/SS, Buna-N Seal
		FM6706	1"	Brass
		SL6706	'	Sleeve Lock, Brass

		Part No.	I.D.	Description
	THE COLUMN TO SERVICE STATE OF THE COLUMN TWO IS NOT THE COLUMN TO SERVICE STATE OF THE COLUMN TWO IS NOT THE	FM6806		Brass
		SL6806	1/2"	Sleeve Lock, Brass
Stem		FM6806W	72	For Water, Brass/SS, Buna-N Seal
		FM6906		Brass
Hose	Requires Hose Clamp (See page 96 for	SL6906	3/4"	Sleeve Lock, Brass
Ŧ		FM6906W		For Water, Brass/SS, Buna-N Seal
		FM7006	1"	Brass
	typical hose clamps)	SL7006	I	Sleeve Lock, Brass

6 Series Coaxial Plug/Coupler

64-6CA ½" 66-6CA ¾" Steel	read		Part No.	I.D.	Description
66-6CA 3/4"	e Thre	The state of the s	64-6CA	1/2"	Ctool
	Male		66-6CA	³ /4"	Steel

hread	Part No.	I.D.	Description	
Female Thr Coupler		SV6406CA	³ /4"	Steel, Safety Coupler

ead r	Part No.	I.D.	Description	
Male Thre Coupler		SV6506CA	3/4"	Steel, Safety Coupler

	Non-Standard Product		Standard Product
See	page 138 for full size temp	lates	

🕶 industrial



Zero Pressure Connect and Disconnect Design

Steel	Protective Covered Body	Fully Protective Covered	Fully Protective Covered w/Strain Relief

Foster SV and SVPC Series Safety Vent couplings are designed for maximum user and equipment safety. Foster SV and SVPC Series couplings allow for safe and easy connection/disconnection under zero line pressure to minimize the possibility of inadvertent disconnection and potential hose whip.

The fully encapsulated non-marring models significantly reduce the risk of surface nicks and scratches. Ideal for use in paint booth applications or for air lines used around finished surfaces, such as fiberglass, painted metal or glass surfaces.

Features:

- Made in the USA
- Rubber or polyurethane hose connections available
- Extra thick heat-treated steel walls extend service life
- Zero pressure connect/disconnect design vents down stream pressure for safe, easy connect/disconnect. It also minimizes possible inadvertent disconnection and potentially dangerous
- "O-ring" plug seal for leak-free performance
- No replacement parts used (valve, spring, or washer) that could block flow of air.
- Silicone-free assembly.
- Meets ISO 4414, 9.6 Quick-Action Couplings requirements: Quick-Action (quick release) couplings shall be selected so that when they are coupled or uncoupled
 - a) the coupling shall not be forced apart in a hazardous
 - b) compressed air particles shall not be expelled in a hazardous manner
 - c) a controlled pressure-release system shall be provided where a hazard may exist.

Specifications:

Material: Zinc-plated steel, Acetal Copolymer outside cover,

Steel internals

Seal: Buna-N

Working Pressure: 300 PSIG; vacuum to 26"Hg **Body Sizes:** 1/4" to 3/4" Industrial Interchange Design **Connection Sizes:** 1/4" to 1" NPT: 1/4" to 3/4" Hose Barb Interchangeability: Complies with ANSI/NFPA

T3.20.14-1990, ISO 6150-B, & ISO 4414

Rated Pressure: 300 psi

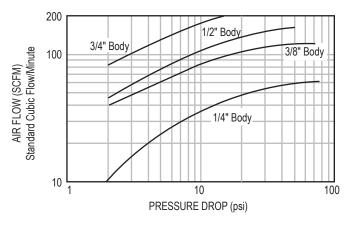
Temperature Range (std seals): 0° to +150° F

Locking Device: Stainless Steel Balls

Force required to Connect: Less than 10 lbs

Performance:

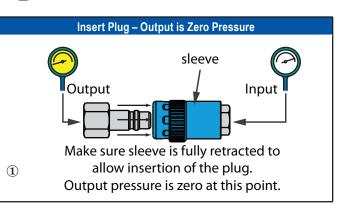
"SV","SVPC" Series (1/4", 3/8",1/2", 3/4") **Pressure Drop/Flow Performance Curves** @ 100 PSIG Inlet

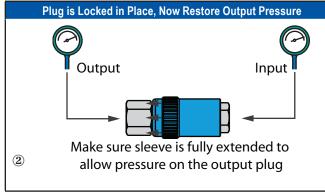


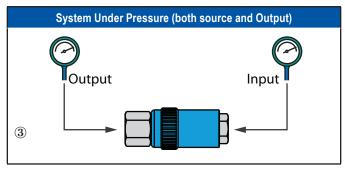
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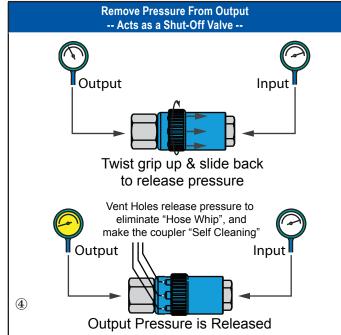


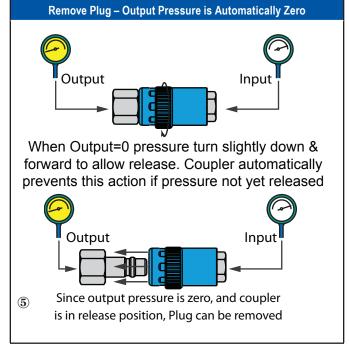
Zero Pressure Connect and Disconnect Design









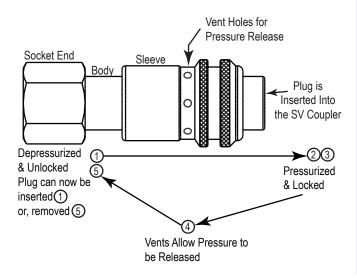


Operation: SV and SVPC Series Safety Vent couplers are nearly effortless to connect and great for hose use. They are also especially useful for single-hand operation when they are mounted to hard lines such as an overhead air drop.

Once inserted into the SV or SVPC socket, the plug is lightly gripped and will stay in place allowing the operator to use the same hand to slide the sleeve straight forward to the "on" position.

SV or SVPC Series sockets can also be used as a 3-way valve to turn off the flow of air and exhaust the downstream pressure without disengaging the plug. By turning and sliding the sleeve to the "exhaust" position, downstream air pressure is relieved but the plug remains locked in place. Turning and sliding the sleeve in the opposite direction allows air to flow again.

Foster SV or SVPC Series couplers are the ultimate solution to accidental disconnect hose whip dangers.



industrial





Zero Pressure Connect and Disconnect Design

SV & SVPC Series Safety Vent Couplers (Industrial Interchange)

		Part No.	Body	FPT	Description
p	1000	SV3003	1/4"	1/4"	
rea		SV3203	/4	3/8"	
Thread		SV4004		1/4"	
Pipe	SUSTEDSIA	SV4204	3/8"	3/8"	
Pig		SV4404		1/2"	Steel
ale e		SV5005		3/8"	Safety Coupler,
Female		SV5205	1/2"	1/2"	
F.		SV5405		3/4"	
		SV6406	3/4"	3/4"	
		SV6606	/4	1"	

7	Part No.	Body	FPT	Description	
ad	ad _	SVPC3003	1/4"	1/4"	
Jre ove		SVPC3203	74"	3/8"	
		SVPC4004		1/4"	
ipe	Female Pipe Thread with Protective Cover	SVPC4204	3/8"	3/8"	Steel with Protective Covered Body*
e P rote		SVPC4404		1/2"	
h P		SVPC5005		3/8"	
Fem		SVPC5205	1/2"	1/2"	
		SVPC5405		3/4"	
		SVPC6406	3/4"	3/4"	

		Part No.	Body	MPT	Description
	ad	SV3103	1/4"	1/4"	
ad		SV3303	74	3/8"	
Pipe Thread		SV4104		1/4"	
E		SV4304	3/8"	3/8"	
ipe		SV4504		1/2"	Steel
Male P		SV5105		3/8"	Safety Coupler,
	SV5305	1/2"	1/2"		
		SV5505		3/4"	
		SV6506	SV6506 3/4"	3/4"	
		SV6706	/4	1"	

		Part No.	Body	MPT	Description
	OF D	SVPC3103	1/4"	1/4"	
ad		SVPC3303	74	3/8"	
hre Co		SVPC4104		1/4"	
T		SVPC4304	3/8"	3/8"	Steel with Protective Covered Body*
ipe tec		SVPC4504		1/2"	
Male Pipe Thread with Protective Cover		SVPC5105		3/8"	
		SVPC5305	1/2"	1/2"	
		SVPC5505		3/4"	
		SVPC6506	3/4"	3/4"	
		SVPC6706	74"	1"	

- E	Part No.	Body	Hose ID	Description	
On	. = = .	SV1513	1/4"	1/4"	
Step		SV1713	/4	3/8"	Steel, Safety Coupler
Push-		SV1714	SV1714 SV1814 ³ / ₈ "	3/8"	
	-	SV1814		1/2"	
		SV1815	1/2"	1/2"	
	Hose clamps not requ	ired when u	sed with	"Push On" ho	se. See page 63.

٤.		Part No.	Body	Hose ID	Description		
e Ste		SVPC1513	1/4"	1/4"			
စ္ ပိ	SVPC1713	74	3/8"				
		SVPC1714	3/8"	3/8"	Steel with		
Push-On Hose Stem with Protective Cover		SVPC1814		1/2"	Protective Covered		
	SVPC1815	1/2"	1/2"	Body*			
Hose clamps not required when used with "Push On" hose. See page 63.							

		Part No.	Body	Hose ID	Description
	Hose Barb	SV3603	1/4"	1/4"	
		SV3703	74	3/8"	
ark		SV4604		1/4"	Steel,
		SV4804	3/8"	3/8"	Safety Coupler
)SO		SV4904		1/2"	Requires
Ĭ		SV5705	1/2"	3/8"	Hose Clamp (See page 96 for
		SV5805		1/2"	typical hose clamps)
	SV5905		3/4"		
		SV6906	3/4"	3/4"	

		Part No.	Body	Hose ID	Description
Hose Barb with Protective Cover	SVPC3603	1/4"	1/4"		
		SVPC3703	74	3/8"	Steel with
		SVPC4604	3/8"	1/4"	Protective Covered
	- 21	SVPC4804		3/8"	Body*
	E	SVPC4904		1/2"	Requires Hose Clamp (See page 96
		SVPC5705		3/8"	
	- 4 -	SVPC5805	1/2"	1/2"	for typical hose
		SVPC5905		3/4"	clamps)
		SVPC6906	3/4"	3/4"	

[·] All SV, SVPC Sockets feature a Silicone-free assembly.



Zero Pressure Connect and Disconnect Design

SVPC Series Safety Vent Couplers (Industrial Interchange)

		Part No.	Body	Hose ID	Description
9		SVPCA62.R	2	3/8"	Fully Protective Cover*, for Rubber Hose
arl	Hose Barb	SVPCA62.P	3/8"	3/8"	Fully Protective Cover*,
		SVPCA72.P		⁷ /16"	for Poly Hose
Hos		SVPC262.R		3/8"	Fully Protective Cover*, for Rubber Hose
		SVPC262.P	1/2"	3/8"	Fully Protective Cover*,
		SVPC272.P		⁷ / ₁₆ "	for Poly Hose
Requires Hose Clamp (See page 96 for typical hose clamps)					

[·] All SV, SVPC Sockets feature a Silicone-free assembly.

See page 140 for full size templates

Hose Part No. Body **Description** ID Fully Protective Cover SVPCA66.R 3/8" w/Strain Rellief for Rubber Hose 3/8" SVPCA66.P Fully Protective Cover³ w/Strain Rellief SVPCA76.P 7/16" for Poly Hose Fully Protective Cover' SVPC266.R 3/8" w/Strain Rellief for Rubber Hose 1/2" SVPC266.P Fully Protective Cover w/Strain Rellief SVPC276.P 7/16" for Poly Hose Requires Hose Clamp (See page 96 for typical hose clamps)

Protective Covers

		Part No.	Size	Description			
tive Cover	Y	SV4-PC	³ /8"	Plastisol Rubber			
Protective for "SV4" S	Superior cushioning effect of Plastisol cover provides better protection for auto, motorcycle, marine, & appliance finishes.						
<u>.</u>	Flexible protective cover allows normal coupling operation while reducing the entry of contaminates in dirty environments.						
		/ couplers with protective covers are less expensive than hard plastic models.					

			Part No.	Size	Description
Protective Cover for "SV5" Sockets			SV5-PC	1/2"	Plastisol Rubber
rotec for "S	•	Superior cushioning effect of Plastisol cover provides better protection for auto, motorcycle, marine, & appliance finishes.			
Ā	•	Flexible protective cover allows normal coupling operation while reducing the entry of contaminates in dirty environments.			
	•		lastic models, p	olus they elimina	less expensive than ate the need to stock both

Push-Button Safety Vent Series

Zero Pressure Connect and Disconnect Design

Features:

- Industrial Interchange, Pneumatic Application
- Anodized Aluminum Body for long life
- Swivel body to keep hose untangled
- Push twice for release. First push vents, second releases
- Button, Valve & Venting Ring: Hardened zinc plated steel

ad	Part No.	Size	Description
Female Pipe Thread Industrial Interchange	SPB3003	1/4"	½" Body,
Female Industria	SPB4204	3/8"	Safety Push Button

- · Springs, Balls: Stainless Steel
- ISO 4414 Norm
- Flow capacity: 37SCFM (at 90 psi with connected insert)
- Max working pressure: 175 psi (safety factor 4:1)
- Recommended working Temperature: 0°F-160°F

	Part No.	MPT	Description
ipe Thread	SPB3103	1/4"	½" Body,
Male Pip Industrial I	SPB4304	3/8"	Safety Push Button

industrial



Non-Standard Interchange Design



Interchangeable Couplers For Non-Standard Designs

As various manufacturers started to offer quick detachable couplers, most of them entered the market with their own design, which was different from their competitors. There was very little interchangeability from one brand to another. Efforts to correct this problem began about 50 years ago with the creation of a military specification (MIL-C-4109) for One Way Shut-Off couplers. This design is now the most commonly used and is referred to as the standard industrial interchange.

Two Way Shut-Off designs are also being standardized, based on ISO dimensions. However, there are still many different Two Way designs, most of which vary by application. Although there is no organizational standard governing the design of Straight-Thru couplers, a standard industrial design (Foster Series FST) has developed from usage. On the catalog pages following; Foster offers couplers that will interchange with many of these non-standard designs as shown below

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LN Series - 1/4"

(Interchange with Lincoln Long Nose)

Foster LN Series couplings are interchangeable with Lincoln's "Long Nose" series couplings and offer quick coupling of all air-operated equipment. They are only available in \(^1/4\)" body size, brass and steel construction.

- Locking mechanism prevents accidental coupler detachment
- Increased air flow due to a larger air passage
- Automatic air check valve shuts off air instantly when uncoupled, providing leak-proof seal.
- Corrosion resistant steel for long service life
- Free swivel helps prevent kinking or curling of air hoses

Specifications:

Type: One Way Shut-Off Rated Pressure: 300 PSIG

Temperature Range (std seals): -40° to +250°F.

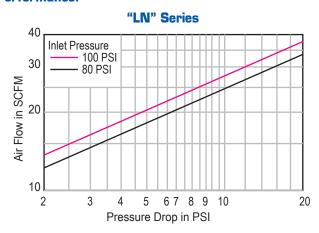
Locking Device: Balls or pins

Operation:

Manual - socket sleeve must be retracted to connect and disconnect

Automatic - Push to Connect

Performance:



MURDOCK Sales@MurdockIndustrial.com Phone: 330-535-7105 Skype: industrial www.eMurdock.com Fax: 330-535-1125 Murdock

MurdockIndustrial

(Interchange with Lincoln Long Nose)

Plugs - 1/4"

ead	Part No.	FPT	Description
le Thread	LN13	1/8"	
Female	LN11	1/4"	Steel

ad	Part No.	MPT	Description
. Threa	LN12	1/8"	
Male	LN10	1/4"	Steel

Automatic 1/4" Sockets

hread		Part No.	FPT	Description
		LN2803	1/8"	
emale	1200	LN3003	1/4"	Brass/Steel
Fer		LN3203	3/8"	

ad	Part No.	MPT	Description
Thread	LN2903	1/8"	
Male 1	LN3103	1/4"	Brass/Steel
Me	LN3303	3/8"	

Ę	Part No.	I.D.	Description
Stem	LN3603	1/4"	Brass/Steel
Hose	LN3653	⁵ / ₁₆ "	Requires Hose Clamp
Ŧ	LN3703	3/8"	(See page 96 for typical hose clamps)

Stem		Part No.	Size I.D.	Description
Hose S		LN1513	1/4"	Brass/Steel
ush-On Hose		LN1713	³ /8"	Brass/Steer
<u>a</u>	Hose clamps not requ	ired when used	with "Push On" h	ose. See page 63.

d		Part No.	Size (I.D. x O.D.)	Description
띭		LNSB3	1/4" x 1/2"	
Clamp	EN C	LNSB5	1/4" x ⁹ /16"	
Se		LNSB7	1/4" x 5/8"	
Reusable Hose		LNSC5	¹⁵ / ₁₆ " x ⁹ / ₁₆ "	
<u>a</u>		LNSC7	¹⁵ / ₁₆ " x ⁵ / ₈ "	Brass/Steel
ap		LNSD11	³ /8" x ⁵ /8"	
Sne		LNSD13	³ /8" X ¹¹ / ₁₆ "	
<u>&</u>		LNSD7	3/8" x 3/4"	
		LNSD9	³ /8" x ¹³ / ₁₆ "	

Manual 1/4" Sockets

Thread		Part No.	FPT	Description
	- L 10 1 L 1 - 14	LN2803M	1/8"	
emale		LN3003M	1/4"	Brass/Steel
Fer		LN3203M	3/8"	

7		Part No.	MPT	Description
hread	LNX ₂ M/ os t	LN2903M	1/8"	
Male Th		LN3103M	1/4"	Brass/Steel
Ma		LN3303M	3/8"	

	Part No.	I.D.	Description
se Stem	LN3603M	1/4"	Brass/Steel Requires
Hose	LN3703M	³ /8"	Hose Clamp (See page 96 for typical hose clamps)

See page 141 for full size templates See page 130 -131 for optional seal compounds

SHD Series

(Interchange with Schrader Standard & Heavy Duty)

Features:

- Engineered for speedy coupling and uncoupling. To lock - push in; To unlock - rotate sleeve \frac{1}{2} turn.
- Designed to protect against accidental uncoupling. A variety of types and sizes are available to meet specific needs.
- Standard Twist-Lock couplings are ideal for low to medium air flows, such as air tools.

Specifications:

Temperature Range (Nitrile seal): -10° to +165°F

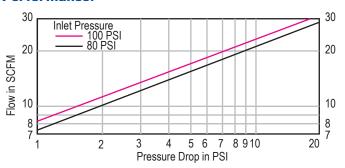
Locking Device: Twist-Lock Vacuum Service: 27 HG Type: One Way Shut-Off

Rated Pressure: 300 PSIG

Operation: Automatic Push to Connect; Twist-to-release

Materials: Aluminum bodies and zinc plated steel sleeves. Buna-N seals. Brass adapters.

Performance:



SHD3 Series 1/4" Plugs

ad	-	Part No.	FPT	Description
Thread		SHD13	1/8"	Steel
Female	Senses	SHD11	1/4"	Steel
Fer		SHD11S/S	1/4"	303 Stainless

5	Part No.	MPT	Description
hrea	SHD12	1/8"	Steel
Male Thread	SHD10	1/4"	Steel
M	SHD10S/S	1/4"	303 Stainless

	Part No.	I.D.	Description
Hose Stem	SHD16	1/4"	Steel Requires
오	SHD17	3/8"	Hose Clamp (See page 96 for typical hose clamps)

Stem		Part No.	I.D.	Description
ush-On Hose	ISONE I	SHD51	1/4"	Steel
直	Hose clamps not requ	ired when used	with "Push On" I	nose. See page 63.

SHD5 Series 1/2" Plugs

0 75	Part No.	FPT	Description
Femal Thread	SHD53	³ /8"	Steel

Thread	Part No.	MPT	Description
Lhre	SHD50	1/4"	
Male 7	SHD52	3/8"	Steel
Ma	SHD54	1/2"	

		Part No.	I.D.	Description
se Stem	* SH250	SHD59	3/8"	Steel Requires
Hose		SHD60	1/2"	Hose Clamp (See page 96 for typical hose clamps)

Non-Standard Product Standard Product

See page 141 for full size templates

Description

Aluminum/Steel/Brass

hose clamps)

SHD Series



(Interchange with Schrader Standard & Heavy Duty)

ale Thread

SHD3 Series 1/4" Automatic Sockets

	Female Thread	Part No.	FPT	Description
		SHD2803	1/8"	Aluminum/Steel/Brass
ਰੂ		SHD2803S/S	/8	303 Stainless
rea		SHD3003		Aluminum/Steel/Brass
e Th		SHD3003-104	1/4" 3/ ₈ "	Aluminum/Steel/Brass w/Silicone Seal
emal		SHD3003LV		Aluminum/Steel/Brass Less Valve
ш		SHD3003S/S		303 Stainless
		SHD3203		Aluminum/Steel/Brass
		SHD3203S/S	/8	303 Stainless

Thread	Part No.	MPT	Description	
	TOENNOO!	SHD2903	1/8"	Aluminum/Steel/Brass
	SHD2903S/S	78	303 Stainless	
hre	ASD ALL SOAM AND A	SHD3103		Aluminum/Steel/Brass
Male Ti		SHD3103-104	1/4"	Aluminum/Steel/Brass w/Silicone Seal
	SHD3103S/S		303 Stainless	
		SHD3303	3/8"	Aluminum/Steel/Brass
		SHD3303S/S		303 Stainless

	- 3 (IIAS VAR	Part No.	I.D.	Description
		SHD3603	1/4"	Aluminum/Steel/Brass
Stem	oter oter	SHD3603S/S		303 Stainless
	Hose	SHD3653	⁵ / ₁₆ "	Aluminum/Steel/Brass
Но		SHD3703	2	Aluminum/Steel/Brass
		SHD3703S/S	3/8"	303 Stainless
	Requires Hose Clamp	(See page 96	for typical hos	se clamps)

Stem	VECT	Part No.	I.D.	Description
Hose St	ASU VIEW	SHD1513	1/4"	
Push-On Hose		SHD1713	3/8"	Aluminum/Steel/Brass
<u>α</u>	Hose clamps not requ	ired when use	d with "Push O	n" hose. See page 63.

	Reuable Hose Clamp	Part No.	I.D. x O.D.	Description
		SHDSB33	1/4" x 1/2"	Aluminum/Steel/Brass
np		SHDSB33S/S		303 Stainless
lar		SHDSB53	1/4" x 9/16"	Aluminum/Steel/Brass
e C		SHDSB73	¹ /4" x ⁵ /8""	Aluminum/Steel/Brass
OS		SHDSB73S/S		303 Stainless
Ηe		SHDSC53	⁵ /16" x ⁹ /16"	Aluminum/Steel/Brass
ple		SHDSC73	⁵ / ₁₆ " x ⁵ / ₈ "	Aluminum/Steel/Brass
ene		SHDSD73	3/8" x 5/8"	Aluminum/Steel/Brass
R		SHDSD93	³ /8" X ¹¹ / ₁₆ "	Aluminum/Steel/Brass
		SHDSD113	3/8" x 3/4"	Aluminum/Steel/Brass
		SHDSD133	³ /8" x ¹³ / ₁₆ "	Aluminum/Steel/Brass

SHD5 Series ½" Auto. Sockets

ad	Pasiq	Part No.	FPT	Description
hre-		SHD4015	1/4"	
le 1		SHD5005	3/8"	Alumainum (Charl / Drang
Female Thread		SHD5205	1/2"	Aluminum/Steel/Brass
R.		SHD5405	3/4"	

MPT

1/4"

3/8"

1/2"

3/4"

Part No.

SHD4905

SHD5105

SHD5305

SHD5905

2		SHD5505	3/4"	
		OTIDOGGO	/4	
n		Part No.	I.D.	Description
Stem		SHD5605	1/4"	Aluminum/Steel/Brass
		SHD5705	3/8"	Requires Hose Clamp
Hose	111	SHD5805	1/2"	(See page 96 for typical

		Part No.	I.D.	Description
Push-On Hose Stem	A D Mail	SHD1815	1/2"	Aluminum/Steel/Brass
H	Hose clamps not requ	ired when use	d with "Push O	n" hose. See page 63.

ď		Part No.	I.D. x O.D.	Description
ШE		SHDSD75	3/8" x 5/8"	
Clamp		SHDSD95	³ /8" x ¹¹ / ₁₆ "	
		SHDSD115	3/8" x 3/4"	
Ê	(o-os)	SHDSD135	³ /8" X ¹³ / ₁₆ "	Al
<u>a</u>		SHDSP135	¹ /2" X ¹³ / ₁₆ "	Aluminum/Steel/Brass
ab		SHDSP155	½" x ½"	
Seu-		SHDSP175	¹ /2" X ¹⁵ /16"	
-		SHDSP195	½" x 1"	

Plug	Part No.	Size	Description
Dust	SHD-DP	1/4"	Aluminum w/Lanyard

Non-Standard Pro	duct Sta	andard Product
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See page 141 for full size templates See page 130 - 131 for optional seal compounds

FRL Series

(Interchange with Hansen 2RL & 3RL)



Type: One Way Shut-Off

Rated Pressure: 300 PSIG

Operation: Automatic Push to Connect; Twist-to-release

Features:

- · High flow capacity
 - 2RL flow equals that of most 3/8" couplings
 - 3RL flow equals that of most ½" couplings
- Ring lock
- Push to connect
- · Will not disconnect when hose is dragged on the ground
- Rotate locking sleeve approximately 20° to disconnect
- · Optional seal materials available

Standard Materials:

- Socket
 - Zinc Plated Steel Body
 - Brass Socket End
 - Nickel Plated Steel Sleeve
 - Zinc Plated Steel Valve
 - Buna-N (Nitrile) Seal
 - Stainless Steel Spring
 - Zinc Plated Steel Locking Ring
- Plug
 - Zinc Plated Case-Hardened Steel

Accessories:

Dust caps and dust plugs

2FRL Series 3/8" Plugs

ad		Part No.	FPT	Description
Thread		2L41	1/4"	
Female	SA SA	2L43	3/8"	Steel
Fer	57 18	2L45	1/2"	

ad		Part No.	MPT	Description
Thread		2L38	1/8"	
H	75000	2L40	1/4"	041
Male	21.38	2L42	3/8"	Steel
2		2L44	1/2"	

	Part No.	I.D.	Description
Stem	2L46	1/4"	Steel
Hose	2L48	3/8"	Requires Hose Clamp (See page 96 for
_	2L49	1/2"	typical hose clamps)

dı		Part No.	I.D. x O.D.	Description
Clamp		2LPD7	3/8" x 5/8"	
	-	2LPD9	³ /8" X ¹¹ / ₁₆ "	
Se	William	2LPD11	³ /8" x ³ /4"	
Ĭ		2LPD13	³ /8" x ¹³ / ₁₆ "	Charl
Reuable Hose		2LPP13	¹ / ₂ " x ¹³ / ₁₆ "	Steel
ual		2LPP15	1/2" x 7/8"	
Re		2LPP17	¹ / ₂ " x ¹⁵ / ₁₆ "	
		2LPP19	½" x 1"	

3FRL Series ½" Plugs

Thread		Part No.	FPT	Description
	100	3L51	1/4"	
emale	3137	3L55	1/2"	Steel
Fen		3L57	3/4"	

ad		Part No.	MPT	Description
hre		3L50	1/4"	
He	128	3L52	3/8"	Steel
Male Thread	10 10	3L54	1/2"	Steel
		3L56	3/4"	

	Part No.	I.D.	Description
C [2]	3L58	1/4"	
	3L59	3/8"	Steel
	3L60	1/2"]
Hose	3L60G	1/2"	Steel, Ball Check
	3L61	3/4"	Steel
	3L61G	3/4"	Steel, Ball Check
Requires Hose Cla	amp (See page 96 fo	or typical hose	e clamps)

Non-Standard Product Standard Product

See page 141 for full size templates

See page 130 - 131 for optional seal compounds

FRL Series

(Interchange with Hansen 2RL & 3RL)

2FRL Series 3/8" Automatic Sockets



ad		Part No.	MPT	Description
Fhread		2R4104	1/4"	
Male 7	[4304]	2R4304	3/8"	Brass/Steel
Z		2R4504	1/2"	

E		Part No.	I.D.	Description
Stem		2R4604	1/4"	Brass/Steel
	Hose S	2R4704	⁵ / ₁₆ "	Requires Hose Clamp
<u> 0</u>		2R4804	3/8"	
		2R4904	1/2"	(See page 96 for typical hose clamps)

Stem		Part No.	I.D.	Description		
and the second second		2R1714	3/8"			
ush-On Hose	no-ysn	2R1814	1/2"	Brass/Steel		

amp		Part No.	I.D. x O.D.	Description
e Cli		2RSD7	³ /8" x ⁵ /8"	
Hos	Reusable Hose Clamp	2RSD9	³ /8" X ¹¹ / ₁₆ "	Dec 104 - 1
sable		2RSD11	³ /8" x ³ /4"	Brass/Steel
Reu		2RSD13	³ /8" X ¹³ /16"	

3FRL Series ½" Automatic Sockets

Thread		Part No.	FPT	Description
Гhг	TOTAL OF THE PARTY	3R4015	1/4"	
<u>е</u>		3R5005	3/8"	Brass/Steel
-emale	The state of the s	3R5205	1/2"	Brass/Steer
æ		3R5405	3/4"	

ad		Part No.	MPT	Description
Thread		3R4905	1/4"	
		3R5105	3/8"	Brass/Steel
Male	5060	3R5305	1/2"	Diass/Steel
2		3R5505	3/4"	

Stem	Part No.	I.D.	Description	
teu	3R5605	1/4"	Brass/Steel	
	S	3R5705	3/8"	
Hose	3R5805	1/2"	Requires Hose Clamp	
工		3R5905	3/4"	(See page 96 for typical hose clamps)

Stem		Part No.	I.D.	Description
Push-On Hose S		3R1815	1/2"	Brass/Steel
<u> </u>	Hose clamps not requ	ired when used	d with "Push On	" hose. See page 63.

	Part No.	I.D. x O.D.	Description
	3RSD7	3/8" x 5/8"	
	3RSD9	³ /8" X ¹¹ / ₁₆ "	
	3RSD11	3/8" x 3/4"	
2-63	3RSD13	³ /8" x ¹³ / ₁₆ "	Brass/Steel
	3RSP13	¹ / ₂ " x ¹³ / ₁₆ "	Diass/Sieei
	3RSP15	1/2" x 7/8"	
Reusable	3RSP17	¹ / ₂ " x ¹⁵ / ₁₆ "	
	3RSP19	½" x 1"	
		3RSD7 3RSD9 3RSD11 3RSD13 3RSP13 3RSP15 3RSP17	3RSD7 3/6" x 5/6" 3RSD9 3/6" x 11/6" 3RSD11 3/6" x 3/4" 3RSD13 3/6" x 13/6" 3RSP13 1/2" x 13/6" 3RSP15 1/2" x 7/6" 3RSP17 1/2" x 15/6"

See page 141 for full size templates See page 130 - 131 for optional seal compounds



060 & A70 ¹/₄" Series

(Interchange with Hansen 600 & 700 Series)



Type: One Way Shut-Off Rated Pressure: 300 PSIG

Safety: Sleeve must be retracted to connect and disconnect

Applications & Markets:

- Designed for use with compressed air and other gases
- · General Pnuematics · Breathing Equipment · Welding · Shipyards • Construction
- Series O60 couplings used with oxygen at 100 psig or less
- Series A70 couplings used with acetylene at 15 psig or less

Features:

- Safety sleeve lock prevents accidental disconnections
- Non-Interchangeable design prevents crossing of lines
- Color coded sleeves for easy identification: O60 - green, A70 - red
- OSHA compliant
- Contstruction: Brass w/Buna-N seal

O60 Series 1/4" Plugs

Thread	Part No.	FPT	Description
Female Thr	O-11	1/4"	Brass

ad		Part No.	MPT	Description
Male Thread	O-12	1/8"	D	
	Britania	O-10	1/4"	Brass

E		Part No.	I.D.	Description
Hose Stem	25.17	O-16	1/4"	Brass Requires
		O-17	3/8"	Hose Clamp (See page 96 for typical hose clamps)

O60 Series 1/4" Standard Sockets

		Part No.	FPT	Description
ad	NO BROKER	O-2803	1/8"	
Female Thread		O-3003	1/4"	Brass
–		O-3003LV	1/4"	Less Valve, Brass
ale		O-3203	3/8"	Brass
E E	E	BLO-2803	1/8"	
		BLO-3003	1/4"	Ball Lock, Brass
		BLO-3203	3/8"	

d	O FORTHER IME	Part No.	MPT	Description
ea		O-2903	1/8"	
Thread		O-3103	1/4"	Brass
		O-3303	3/8"	
Male	Loca	BLO-2903	1/8"	
Σ		BLO-3103	1/4"	Ball Lock, Brass
		BLO-3303	3/8"	

	180 FOSTER	Part No.	I.D.	Description	
		O-3603	1/4"		
lem	Hose Stem	O-3653	⁵ / ₁₆ "	Brass	
S		O-3703	3/8"		
OSC		BLO-3603	1/4"		
Ť		BLO-3653	¹⁵ / ₁₆ "	Ball Lock, Brass	
		BLO-3703	3/8"		
	Requires Hose Clamp (See page 96 for typical hose clamps)				

See page 141 for full size templates. See	ee page 130 - 131 to	r optional seal	compounds
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		Part No.	I.D. x O.D.	Description
	O-SB3	1/4" x 1/2"		
		O-SB5	1/4" x 9/16"	
		O-SB7	1/4" x 5/8"	
E	TO POSTER IN	O-SC5	⁵ / ₁₆ " x ⁹ / ₁₆ "	
a		O-SC7	⁵ /16" x ⁵ /8"	Brass
Reusable Hose Clamp	O-SD7	3/8" x 5/8"		
	O-SD9	³ /8" x ¹¹ / ₁₆ "		
	O-SD11	3/8" x 3/4"		
		O-SD13	³ /8" x ¹³ / ₁₆ "	
		BLO-SB3	1/4" x 1/2"	
Sn	STER ES	BLO-SB5	1/4" x 9/16"	
8	BLO-SB7	1/4" x 5/8"		
		BLO-SC5	⁵ / ₁₆ " x ⁹ / ₁₆ "	Ball Lock, Brass
		BLO-SC7	⁵ /16" x ⁵ /8"	
		BLO-SD7	3/8" x 5/8"	
		BLO-SD9	³ /8" X ¹¹ / ₁₆ "	

Stem	080 108	Part No.	I.D.	Description		
e Si		O-1513	1/4"	Brass		
Hos	Push-On Hose	O-1713	3/8"	DIASS		
ó		BLO-1513	1/4"	Dall Lask Dassa		
nsh-		BLO-1713	3/8"	Ball Lock, Brass		
4	Hose clamps not required when used with "Push On" hose. See page 63.					

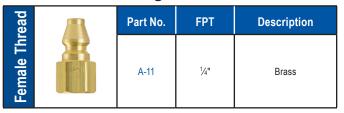
Non-Standard Product Standard Product

Fax: 330-535-1125



(Interchange with Hansen 700 Series)

A70 Series 1/4" Plugs



p		Part No.	MPT	Description
Male Thread	a 10	A-12	1/8"	Brass
Male		A-10	1/4"	DIdSS

		Part No.	I.D.	Description
se Stem	Hose Stem	A-16	1/4"	Brass
Hos		A-17	3/8"	Requires Hose Clamp (See page 96 for typical hose clamps)

A70 Series 1/4" Standard Sockets

þ	Part No.	FPT	Description
rea	A-2803	1/8"	
Thread	A-3003	1/4"	Brass
<u>e</u>	A-3203	3/8"	
Female	BLA-2803	1/8"	
Fe	BLA-3003	1/4"	Ball Lock, Brass
	BLA-3203	3/8"	

	and the state of t	Part No.	MPT	Description
ad	MO FOSIER	A-2903	1/8"	
hre	Thread	A-3103	1/4"	Brass
	A-3303	3/8"		
Male	206	BLA-2903	1/4"	
Σ		BLA-3103	¹⁵ / ₁₆ "	Ball Lock, Brass
		BLA-3303	3/8"	

		Part No.	I.D.	Description
_		A-3603	1/4"	
Stem	Free	A-3653	⁵ / ₁₆ "	Brass
		A-3703	3/8"	
Hose		BLA-3603	1/4"	
工		BLA-3653	⁵ / ₁₆ "	Ball Lock, Brass
		BLA-3703	3/8"	
	Requires Hose Clamp	(See page 96	for typical hose o	lamps)

		Part No.	I.D. x O.D.	Description
		A-SB3	1/4" x 1/2"	
	Reusable Hose Clamp	A-SB5	¹ / ₄ " x ⁹ / ₁₆ "	
		A-SB7	¹⁄4" x ⁵⁄8"	
		A-SC5	⁵ /16" x ⁹ /16"	
du		A-SC7	⁵ /16" X ⁵ /8"	Brass
lar		A-SD7	3/8" x 5/8"	
S a		A-SD9	³ /8" x ¹¹ / ₁₆ "	
)SO		A-SD11	3/8" x 3/4"	
I		A-SD13	³ /8" x ¹³ / ₁₆ "	
		BLA-SB3	1/4" x 1/2"	
ISa		BLA-SB5	1/4" x 9/16"	
Zel		BLA-SB7	1/4" x 5/8"	
		BLA-SC5	⁵ /16" x ⁹ /16"	
		BLA-SC7	⁵ /16" X ⁵ /8"	Ball Lock, Brass
		BLA-SD7	3/8" x 5/8"	
		BLA-SD9	³ /8" x ¹¹ / ₁₆ "	
		BLA-SD11	3/8" x 3/4"	
		BLA-SD13	³ /8" x ¹³ / ₁₆ "	

COLOR CODED SOCKETS

060 - Green Sleeve Band • Oxygen Service

A70 - RED SLEEVE BAND • ACETYLENE SERVICE

When used for oxygen/acetylene service, order with Ball Lock (BL) to comply with OSHA Std. 1915.55(f)(5).

Non-Standard Product Standard Product

See page 141 for full size templates

See page 130 - 131 for optional seal compounds



210 ¹/₄" Series

(Interchange with ARO 210 Series)



Foster 210 Series couplings are manual to connect designs and interchange with 1/4" body size ARO 210 series plugs.

Specifications:

Type: One Way Shut-Off Rated Pressure: 300 psi

Temperature Range (Buna seal): -40° to +250°F.

Locking Device: Stainless Steel pins

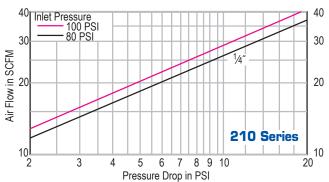
Operation:

Manual - socket sleeve must be retracted to connect and

disconnect

Automatic - Push to Connect

Performance:



210 Series 1/4" Plugs

b		Part No.	FPT	Description
le Threa	le Thread	210-11	1/4"	Steel
Female	11-012 11-012 11-013	210-11S/S	1/4"	303 Stainless

		Part No.	MPT	Description
hread	hread	210-12	1/8"	Steel
Male Thread	210-10	1/4"	Steel	
2	W	210-10S/S	1/4"	303 Stainless

		Part No.	I.D.	Description
tem	tem is a second	210-16	1/4"	Steel
Hose Stem	210-165	⁵ / ₁₆ "	Requires Hose Clamp (See page 96 for	
		210-17	3/8"	typical hose clamps)

Шé		Part No.	I.D.	Description
Push-On Hose Stem		210-51	1/4"	Steel
	Hose clamps not requ	ired when use	d with "Push Or	n" hose. See page 63.

210 Series 1/4" Manual Sockets

Female Thread

Part No.	FPT	Description
210M-2803	1/8"	Brass/Steel
210M-2803NP	1/8"	Brass/Steel Nickel Plated Sleeve
210M-2803S/S	1/8"	303 Stainless
210M-3003	1/4"	Brass/Steel
210M-3003NP	1/4"	Brass/Steel Nickel Plated Sleeve
210M-3003S/S	1/4"	303 Stainless
210M-3203	3/8"	Brass/Steel
210M-3203S/S	3/8"	303 Stainless

Hose Stem	Requires Hose Ci

	Part No.	I.D.	Description	
	210M-3603	1/4"	Brass/Steel	
	210M-3603NP	1/4"	Brass/Steel Nickel Plated sleeve	
	210M-3603S/S	1/4"	303 Stainless	
	210M-3653	⁵ / ₁₆ "	Brass/Steel	
	210M-3653S/S	⁵ / ₁₆ "	303 Stainless	
	210M-3703	3/8"	Brass/Steel	
	210M-3703S/S	3/8"	303 Stainless	
دار	mn /Saa naga 96	for typical	hose clamps)	

|--|

Part No.	MPT	Description	
210M-2903	1/8"	Brass/Steel	
210M-2903NP	1/8"	Brass/Steel Nickel Plated sleeve	
210M-2903S/S	1/8"	303 Stainless	
210M-3103	1/4"	Brass/Steel	
210M-3103NP	1/4"	Brass/Steel Nickel Plated sleeve	
210M-3103S/S	1/4"	303 Stainless	
210M-3303	3/8"	Brass/Steel	
210M-3303S/S	3/8"	303 Stainless	

Non-Standard Product Standard Product

See page 141 for full size templates

(Interchange with ARO 210 Series)

210 ¹/₄" Series

Series 210 1/4" Safety Vent Sockets

ead		Part No.	FPT	Description
Thi		SV210-3003	1/4"	Steel,
Fema	Female	SV210-3203	3/8"	Safety Coupler

p		Part No.	MPT	Description
• Thread	15)	SV210-3103	/4"	Steel,
Male		SV210-3303	3/8"	Safety Coupler

		Part No.	I.D.	Description
se Stem	G ANN THE REAL PROPERTY OF THE PARTY OF THE	SV210-3603	1/4"	Steel, Safety Coupler Requires
Hose		Hose Clamp (See page 96 for typical hose clamps)		

Stem		Part No.	I.D.	Description
		SV210-1513	1/4"	Steel,
Push-On Hose		SV210-1713	³ /8"	Safety Coupler
	Hose clamps not requ	ired when used	with "Push On"	hose. See page 63.

Series 210 1/4" Automatic Sockets

210	Part No.	FPT	Description
	210-2803	1/8"	Brass/Steel
	210-2803S/S	1/8"	303 Stainless
	210-3003	1/4"	Brass/Steel
9000	210-3003S/S	1/4"	303 Stainless
	210-3203	3/8"	Brass/Steel
	210-3203S/S	3/8"	303 Stainless
	30	210-2803 210-2803S/S 210-3003 210-3003S/S 210-3203	210-2803 ½" 210-2803S/S ½" 210-3003 ¼" 210-3003S/S ¼" 210-3203 ¾"

Thread		Part No.	MPT	Description
		210-2903	1/8"	Brass/Steel
hre	D. MADE	210-2903S/S	1/8"	303 Stainless
Male T		210-3103	1/4"	Brass/Steel
		210-3103S/S	1/4"	303 Stainless
		210-3303	3/8"	Brass/Steel
		210-3303S/S	3/8"	303 Stainless

		Part No.	I.D.	Description
E	210	210-3603	1/4"	Brass/Steel
Stem		210-3603S/S	1/4"	303 Stainless
		210-3653	5/16"	Brass/Steel
Hose		210-3703	3/8"	Brass/Steel
		210-3703S/S	3/8"	303 Stainless
	Requires Hose Clamp	(See page 96 fo	r typical hose	clamps)

Push-On Hose Stem		Part No.	I.D.	Description
		210-1513	1/4"	
		210-1713	3/8"	Brass/Steel
H	Hose clamps not req	uired when used	with "Push On	" hose. See page 63.

		Part No.	I.D. x O.D.	Description
Q		210-SB3	1/4" x 1/2"	Brass/Steel
Clamp	WWW.	210-SB3S/S	1/4" x 1/2"	303 Stainless
ຮັ	10	210-SB5	1/4" x ⁹ /16"	Brass/Steel
se		210-SB7	1/4" x 5/8"	Diass/Steel
운	(6) (c) (c)	210-SB7S/S	1/4" x 5/8"	303 Stainless
<u>a</u>	16	210-SC5	⁵ /16" X ⁹ /16"	
ab	Reusable Hose	210-SC7	⁵ /16" x ⁵ /8"	
Sne	33 33	210-SD7	³ /8" x ⁵ /8"	Brass/Steel
Re		210-SD9	³ /8" X ¹¹ / ₁₆ "	Diass/Steel
		210-SD11	3/8" x 3/4"	
		210-SD13	³ /8" x ¹³ / ₁₆ "	

	Non-Standard Product		Standard Product
200 1	nage 1/11 for full size temm	lates	



310 ³/₈" Series

(Interchange with ARO 310 Series)



Type: One Way Shut-Off

Rated Pressure: 300 PSIG

310 Series 3/8" Plugs

Thread	Part No.	FPT	Description
Female Thr	310-43	3/8"	Steel

p	Part No.	MPT	Description
Male Thread	310-42	3/8"	Steel

		Part No.	I.D.	Description
se Stem	AC AL	310-48	3/8"	Steel Requires
Hose		310-49	1/2"	Hose Clamp (See page 96 for typical hose clamps)

310 Series 3/8" Manual Sockets

ad		Part No.	FPT	Description
Thread	3104.1	310M-4004	1/4"	Brass/Steel
		310M-4204	3/8"	Brass/Steel
Female	20:157	310M-4204NP	3/8"	Brass/Steel Nickel Plated sleeve
Fe		310M-4404	1/2"	Brass/Steel

q		Part No.	MPT	Description
Thread	3 5 00 M	310M-4104	1/4"	Brass/Steel
		310M-4304NP	1/4"	Brass/Steel Nickel Plated sleeve
Male	4504	310M-4303	3/8"	Brass/Steel
~		310M-4504	1/2"	Brass/Steel

		Part No.	I.D.	Description	
10 (M(1)	- 500 CM (CE)	310M-4604	1/4"		
ten	Hose Stem	310M-4704	⁵ /16"	Brass/Steel	
		310M-4804	3/8"		
Hose		310M-4804NP	3/8"	Brass/Steel Nickel Plated sleeve	
		310M-4904	1/2"	Brass/Steel	
	Requires Hose Clamp (See page 96 for typical hose clamps)				

Operation:

Manual - retract socket sleeve to connect and disconnect Automatic - Push to Connect

310 Series 3/8" Automatic Sockets

ad		Part No.	FPT	Description
Thread	41 kmi	310-4004	1/4"	Brass/Steel
Female	12027	310-4204	3/8"	Brass/Steel
Fer		310-4404	1/2"	Brass/Steel

ad		Part No.	MPT	Description
Thread	3105100	310-4104	1/4"	Brass/Steel
Male 7		310-4304	3/8"	Brass/Steel
Ž		310-4504	1/2"	Brass/Steel

		Part No.	I.D.	Description
Stem	310	310-4604	1/4"	Brass/Steel
		310-4704	⁵ /16"	Requires
Hose		310-4804	3/8"	Hose Clamp (See page 96 for
		310-4904	1/2"	typical hose clamps)

Stem		Part No.	I.D.	Description
	310 MATE	310-1714	3/8"	Brass/Steel
Push-On Hose		310-1814	1/2"	Biassioteci
<u> </u>	Hose clamps not requ	ired when used w	ith "Push On"	hose. See page 63.

Clamp		Part No.	I.D. x O.D.	Description
င်း	310	310-SB3	1/4" x 1/2"	
		310-SB5	1/4" x 9/16"	
Ř		310-SB7	1/4" x 5/8"	
<u>ө</u>		310-SD7	3/8" x 5/8"	Brass/Steel
Reusable Hose		310-SD9	³ /8" X ¹¹ / ₁₆ "	
sné		310-SD11	³ /8" x ³ /4"	
8		310-SD13	³ /8" X ¹³ /16"	

Non-Standard Product Standard Product

Call factory for nickel plating on additional items

See page 141 for full size templates

See page 130 - 131 for optional seal compounds

ISO A Series



(Conforms with ISO 7241-1, Series A)

Features:

- ISO A Series couplings feature poppet valves with solid metal perch that maintains valve alignment and prevents flow checking. Both the sleeves of the socket and plug are case hardened to make the couplings resistant to damage from brinelling and mechanical shock.
- · The durable ball-locking mechanism ensures a reliable connection every time.
- · These couplings have female pipe and straight thread end configurations as standard. The dimensional requirements of Series A in ISO 7241-1. Socket and plug are interchangeable with other parts compatible with ISO 7241-1.
- · ISO A couplings with sleeve lock, comply with OSHA requirements that couplings shall be the type that cannot be unlocked or disconnected by means of a straight pull without rotary motion.

Specifications:	Size				
	1/4"	3/8"	1/2"	3/4"	1
	Rated Pressure (PSI)				
Working Pressure	5000	4000	4000	4000	4000
Temperature Range (std seals)	-40° to +250° F.				

ISO-A SERIES PLUGS

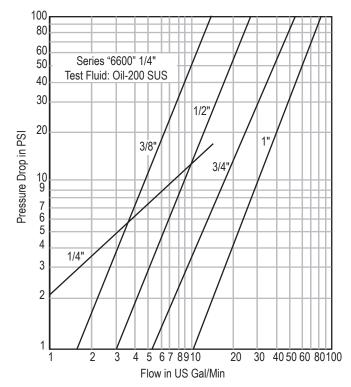
		Part No.	C	THREA	D S IZE
		STEEL	Size	NPTF	ORB
		B-6602-2-4	1/4"	1/8-27	
		B-6602-4-4	/4	1/4-18	
AD		B-6602-6-6	3/8"	3/8-18	-
RE		B-6602-8-10		1/2-14	
Ĕ		B-6602-12-10	1/2"	³ / ₄ -14	
FEMALE THREAD		B-6610-8-10			³ / ₄ -16
MA		B-6610-10-10			⁷ /8-14
뿐	7	B-6610-12-10			11/16-12
		B-6602-12-12	3/4"	³ / ₄ -14	-
		B-6610-12-12	/4	-	1 ¹ / ₁₆ -12
		B-6602-16-16	1"	1 - 11 1/2	
		B-6610-16-16	'	-	1 ⁵ / ₁₆ -12

ISO-A SERIES SOCKETS

Size	THREAD	C	Part No.		
ORB	NPTF	SIZE	STEEL		
	1/8-27	1/4"	B-6601-2-4		
	¹ / ₄ -18	/4	B-6601-4-4		
-	³ / ₈ -18	3/8"	B-6601-6-6		THREAD
	1/2-14		B-6601-8-10		RE
	³ / ₄ -14	1/2"	B-6601-12-10		丰
³ / ₄ -16			B-6608-8-10		끸
⁷ /8-14	-		B-6608-10-10		MA
11/16 - 12			B-6608-12-10		쁘
-	³ / ₄ -14	37.11	B-6601-12-12		
11/16 - 12	-	74	B-6608-12-12		
-	1 - 11 1/2	1"	B-6601-16-16		
1 ⁵ / ₁₆ -12	-	ı	B-6608-16-16		
⁷ / ₈ -1 1 ¹ / ₁₆ - - 1 ¹ / ₁₆ -	- ³ ⁄4-14 -	1/2" 3/4" 1"	B-6608-8-10 B-6608-10-10 B-6608-12-10 B-6601-12-12 B-6608-12-12 B-6601-16-16		FEMALE -

Applications:

The versatile ISO A Series couplings are used in a wide range of hydraulic applications including construction equipment, manufacturing machinery, and in-plant systems. They can be found anywhere the fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment. Rugged construction makes it a good choice for mobile applications including dump trucks, snow plows, refuse hauling, mining, asphalt paving, truck trailer connections and many more. In-plant machinery applications include hydraulic fluid, chemicals and gas lines for paper mills, steel production, and many varieties of plant maintenance and production equipment.



DUST CAPS & DUST PLUGS

	DUST CAP	Part No.	Size	Dust Plug	Part No.	Size
		B-6657-4	1/4"		B-6659-4	1/4"
	()	B-6657-6	3/8"		B-6659-6	3/8"
	\	B-6657-10	1/2"		B-6659-10	1/2"
		B-6657-12	3/4"		B-6659-12	3/4"
l		B-6657-16	1"		B-6659-16	1"

Dust Cap & Plug Combo	Part No.	SIZE
	A04DC-DP	1/4"
	A06DC-DP	3/8"
	A12DC-DP	1/2"
	A16DC-DP	3/4"

Note: Foster approved components (May be imported)

See page 141 for full size templates

TF Series

(Interchange with Tru-Flate Series)



TF Series Couplers (pneumatic) up to 300 psi connect with Tru-Flate design, commonly called the automotive interchange. They have manual sleeves and are single shut off quick couplings.

The steel tubular valve delivers high air flow with minimal pressure drop. Couplers and Nipples are available in a wide range of sizes and materials for use in a variety of applications with air or fluid.

Type: One Way Shut-Off Rated Pressure: 300 PSIG

Operation: Automatic Push to Connect:

Sizes: Sizes: 1/4", 3/8", (For 1/2" use Industrial Interchange product)

Features:

- Developed for the automotive industry
- High flow valves with minimal pressure drop
- Integral Sleeve guard helps prevent accidental disconnect
- Grip-ring sleeve version has a larger knurled diameter to provide easy operation when gloves are worn

Applications:

- Air compressors, Pneumatic Tools
- · Grease guns, Paint applicators

TF Series 1/4" Plugs

ad	S	Part No.	FPT	Description
Thread		TF13	1/8"	
emale	1	TF11	1/4"	Steel
Fel		TF15	3/8"	

ad	Part No.	MPT	Description
Thread	TF12	1/8"	
Male 1	TF10	1/4"	Steel
Σ	TF14	3/8"	

		Part No.	I.D.	Description
Stem		TF16	1/4"	Steel
Hose S	TF165	¹⁵ /16"	Requires Hose Clamps (See page 96 for	
		TF17	3/8"	typical hose clamps)

		Part No.	I.D.	Description		
ush-On ose Stem	TF51	1/4"	Charl			
Pusk Hose		TF71	3/8"	Steel		
	Hose clamps not required when used with "Push On" hose. See page 63.					

		Part No.	I.D. x O.D.	Description
np π		TFPB3	1/4" x 1/2"	
teusable se Clamp		TFPB5	¹ /4" x ⁹ / ₁₆ "	Steel
Re Hos	Reu Hose	TFPB7	¹ / ₄ " x ⁵ / ₈ "	

TF Series 1/4" Automatic Sockets

ad		Part No.	FPT	Description
Threa		TF2803	1/8"	Brass/Steel
	M. 138 T-	TF3003	1/4"	Brass/Steel
emale	D	SGTF3003	1/4"	Brass w/Steel Valve w/Sleeve Guard
щ		TF3203	3/8"	Brass/Steel

þ		Part No.	MPT	Description
Thread		TF2903	1/8"	Brass/Steel
	··· ** 5 1/1	TF3103	1/4"	Brass/Steel
Male	3102	SGTF3103	1/4"	Brass w/Steel Valve w/Sleeve Guard
		TF3303	3/8"	Brass/Steel

_		Part No.	I.D.	Description
Stem	1 3	TF3603	1/4"	Brass/Steel
Hose	TF3653	⁵ /16"	Requires Hose Clamps	
		TF3703	3/8"	(See page 96 for typical hose clamps)

_		Part No.	I.D.	Description
sh-On e Sterr		TF1513	1/4"	Brass/Steel
Pus Hose		TF1713	3/8"	DI ass/Steel
	Hose clamps not	required when ι	used with "Pu	ish On" hose. See page 63.

		Part No.	I.D. x O.D.	Description
	***************************************	TFSB3	1/4" x 1/2"	
م ط		TFSB5	1/4" x 9/16"	
b)(a)	Reusable lose Clamp	TFSB7	1/4" x 5/8"	
C SS		TFSC5	¹⁵ /16" X ⁹ /16"	
e ii		TFSC7	⁵ / ₁₆ " x ⁵ / ₈ "	Brass/Steel
Reng	TFSD7	3/8" x 5/8"		
Ĭ	一主	TFSD9	3/8" x 11/16"	
	J. B. B.	TFSD11	3/8" x 3/4"	
		TFSD13	3/8" X ¹³ /16"	
Non-Standard Product Standard Product				

See page 143 for full size templates



(Interchange with Tru-Flate Series)

TF4 ³/₈" Series

TF Series 3/8" Plugs

Thread	Part No.	FPT	Description
	TF41	1/4"	011
Female	TF43	3/8"	Steel

	Part No.	I.D.	Description
Hose Stem	TF48	3/8"	Steel Requires Hose Clamps (See page 96 for typical hose clamps)

pı		Part No.	MPT	Description
e Thread		TF40	1/4"	Steel
Male	Male	TF42	3/8"	Steel

TF Series 3/8" Automatic Sockets

Thread		Part No.	FPT	Description
Thr	or Note:	TF4004	1/4"	
emale	1+9.24	TF4204	3/8"	Brass/Steel
Fen		TF4404	1/2"	

ad		Part No.	MPT	Description
Thread	4	TF4104	1/4"	
Male 1		TF4304	3/8"	Brass/Steel
Σ	Ž	TF4504	1/2"	

)		Part No.	I.D.	Description
Stem	v.add (nad	TF4604	1/4"	Brass/Steel
		TF4704	⁵ / ₁₆ "	Requires
Hose		TF4804	3/8"	Hose Clamps (See page 96 for
		TF4904	1/2"	typical hose clamps)

		Part No.	I.D.	Description
ush-On se Stem	F4 YADE	TF1714	3/8"	Brass/Steel
Pus Hos		TF1814	1/2"	DI 855/Steet
	Hose clamps not re	quired when us	ed with "Push	On" hose. See page 63.

	4 2.	Part No.	I.D. x O.D.	Description
d d	11 200	TFSB34	1/4" x 1/2"	
ble arr		TFSB54	1/4" x ⁹ /16"	
Sal		TFSB74	1/4" x 5/8"	
Reusable Hose Clamp		TFSD74	3/8" x 5/8"	Brass/Steel
E 포		TFSD94	³ /8" X ¹¹ / ₁₆ "	
		TFSD114	3/8" x 3/4"	
		TFSD134	³ /8" X ¹³ / ₁₆ "	

Non-Standard Product	Standard Product
See page 143 for full size temp	plates



FST Series

(Straight-Thru Industrial Interchange)



Type: FST Straight-Thru, No valve in either socket or plug.

Interchangeability: Standard industrial interchange design, most widely used in industry. Within each series, only sockets and plugs of the same size will couple together.

Operation: Manual – Socket sleeve must be manually retracted to connect and disconnect.

Options: Ball Lock (BL) – Locks socket against accidental disconnect. To connect, align ball with slot. After connection, rotate sleeve to lock. To disconnect, realign ball with slot and retract sleeve.

Seal Compound: Standard seals are Buna-N

Performance Data Flow: Couplers have same inside diameter as nominal pipe.

Rated Pressure: Rated pressures as defined by ANSI/B93.2-1986, based on 4:1 Safety Factor and non-shock service.

Vacuum Service: 27" Hg maximum

Body Size	Brass Socket w/ Brass Plug	Brass Socket w/ Steel Plug	S/S Socket w/ S/S Plug
	PSIG	PSIG	PSIG
1/8"	2500	2600	4200
1/4"	5200	5500	6700
3/8"	2700	3500	5500
1/2"	2200	2700	3000
3/4"	1700	2700	3000
1"	1700	2000	1700
1 ¹ / ₄ "	1700	2700	-
1 ¹ / ₂ "	1400	2200	-

Only Sockets & Plugs with same prefix digits connect together. Example: 25FS & 25MPB

FST Series Plugs, Straight Thru

		Part No.	FPT	Description
		12FPB	1/8"	Brass
		12FPS	/8	303 Stainless
		25FP		Steel
		25FPB	1/4"	Brass
		25FPS		303 Stainless
	A	38FP		Steel
_		38FPB	3/8"	Brass
Female Thread		38FPS		303 Stainless
Pre		50FP		Steel
F		50FPB	1/2"	Brass
ae		50FPS		303 Stainless
Ĕ	36.78	75FP		Steel
E.		75FPB	3/4"	Brass
		75FPS		303 Stainless
	A CONTRACTOR OF THE PARTY OF TH	100FP		Steel
		100FPB	1"	Brass
		100FPS		303 Stainless
		125FP	1-1/4"	Steel
		125FPB	1-/4	Brass
		150FP	1-1/2"	Steel
		150FPB	1-/2	Brass

	Part No.	I.D.	Description
Stem	25HP	1/4"	Steel
Hose Stem	38НРВ	3/8"	Desce
	75HPB	3/4"	Brass

		Part No.	MPT	Description
		12MP		Steel
		12MPB	1/8"	Brass
		12MPS		303 Stainless
		25MP		Steel
		25MPB	1/4"	Brass
		25MPS		303 Stainless
		38MP		Steel
		38MPB	3/8"	Brass
Male Thread	3 13	38MPS		303 Stainless
J.E		50MP		Steel
F		50MPB	1/2"	Brass
<u>s</u>	SEM T	50MPS		303 Stainless
ž	5000	75MP		Steel
		75MPB	3/4"	Brass
		75MPS		303 Stainless
		100MP		Steel
		100MPB	1"	Brass
		100MPS		303 Stainless
		125MP	1-1/4"	Steel
		125MPB	1-74	Brass
		150MP	1-1/2"	Steel
		150MPB	1-/2	Brass

See page 142 for full size templates

See page 130 - 131 for optional seal compounds

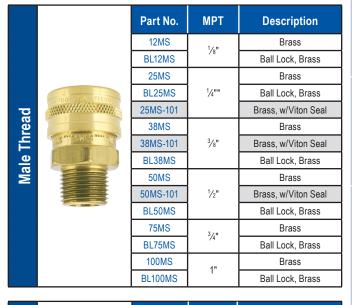
Female Thread

(Straight-Thru Industrial Interchange)

FST Series

FST Series Sockets, Straight Thru

	Dové No.	EDT	Description	
		FPI	Description	
	_		Brass	
			Brass, w/Viton Seal	
		17.11	Ball Lock, Brass	
12FSS-103 BL12FSS Ball 25FS 25FS-101 BL25FS 25FS-SWVL 25FSS 25FSS-101 25FSS-103 BL25FSS 38FS-101 38FS-103 BL38FS 38FSS-101 38FSS-103 BL38FSS 38FSS-101 50FS-101 50FS-103 BL50FS 50FSS 50FSS-101 50FSS-103 BL50FS 50FSS-103 BL50FS 75FS BL75FS 75FS-101 75FS-103 75FS-104 75FSS-103 BL75FS 75FSS-104 75FSS-103 BL75FSS 75FSS-101 75FSS-103 BL70FSS 100FS-101 BL100FS 100FSS	303 Stainless			
		303 Stainless, w/Viton Seal		
			303 Stainless, w/EPDM Seal	
			Ball Lock, 303 Stainless Steel Brass	
			Brass, w/Viton Seal	
			Ball Lock, Brass	
			Power Washer Swivel Tip, Brass	
		1/4"	303 Stainless	
			303 Stainless, w/Viton Seal	
			303 Stainless, w/EPDM Seal	
			Ball Lock, 303 Stainless Steel	
			Brass	
			Brass, w/Viton Seal	
			Brass, w/EPDM Seal	
			Ball Lock, Brass	
		3/8"	303 Stainless	
	38FSS-101		303 Stainless, w/Viton Seal	
	38FSS-103		303 Stainless, w/EPDM Seal	
COHE!			Ball Lock, 303 Stainless Steel	
20	50FS		Brass	
	50FS-101	140	Brass, w/Viton Seal	
38	50FS-103		Brass, w/EPDM Seal	
	BL50FS		Ball Lock, Brass	
	50FSS	1/2"	303 Stainless	
	50FSS-101		303 Stainless, w/Viton Seal	
	50FSS-103		303 Stainless, w/EPDM Seal	
	BL50FSS		Ball Lock, 303 Stainless Steel	
	75FS		Brass	
	BL75FS		Ball Lock, Brass	
			Brass, w/Viton Seal	
			Brass, w/EPDM Seal	
		3/4"	Brass, w/Silicone Seal	
	75FSS		303 Stainless	
	75FSS-101		303 Stainless, w/Viton Seal	
			303 Stainless, w/EPDM Seal	
			Ball Lock, 303 Stainless Steel	
			Brass	
			Brass, w/Viton Seal	
		1"	Ball Lock, Brass	
			303 Stainless	
			Ball Lock, 303 Stainless Steel	
	125FS	4 17 11	Brass	
	BL125FS	1-1/4"	Ball Lock, Brass	
	125FS-103		Brass, w/EPDM Seal	
	150FS	1-1/2"	Brass	
	BL150FS		Ball Lock, Brass	



		Part No.	I.D.	Description
	9% (4.8)	38HS	3/8"	Brass
Hose Stem	(0) 1 (5) X	BL38HS	3/8"	Ball Lock, Brass
	Requires Hose Clamp	50HS	1/2"	Brass
	(See page 96 for typical hose clamps)	BL50HS	1/2"	Ball Lock, Brass

Non-Standard Product Standard Product See page 142 for full size templates

See page 130 - 131 for optional seal compounds

FF Series

Flush Face



The FF Series couplers are a two-way shut-off hydraulic coupler. Typical applications include portable hydraulic tools, railway and construction maintenance equipment, utility company field equipment and general purpose hydraulic service. The flush face technology provides for ease of cleaning, minimal air inclusion and minimal fluid loss. The arrow stamped on the coupler indicates the direction of flow for installation purposes.

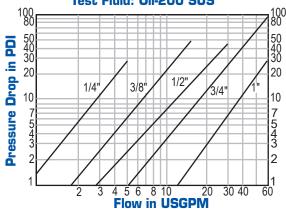
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- Meets dimensional and performance standards of ISO 16028 as well as HTMA* and NFPA.
- "FF" Series style double shut-off hydraulic couplings are intended for use on medium pressure hydraulic systems up to 2500 psi operating pressures.
- Combines dual flush face valving, push-to-connect operation, minimum fluid loss upon disconnect, low air inclusion and sleeve lock.
- Primary applications are with hydraulic tools where cleaner automatic connections are needed and in machine tool line connections where minimum fluid leaks can be tolerated.

0	Size							
Specifications	1/4"	3/8"	1/2"	3/4"	1"			
Rated Pressure (psi)	5,000	5,000	5,000	5,000	5,000			
Minimum Burst pressure, Male half (psi)	27,000	22,000	24,000	23,000	21,000			
Minimum Burst pressure, Female half (psi)	27,000	25,000	23,000	20,000	20,000			
Minimum Burst pressure, Coupled (psi)	27,000	23,000	25,000	22,000	22,000			
Rated Flow (gpm)	3	6	12	26	50			
Temperature Range		-10)°F to +250	°F				
Spillage (ML) (max. per disconnect)	.015	.015	.020	.150	.200			
Air Inclusion (max. per disconnect)	.020	.020	.070	.100	.150			

Performance:

FF Series (1/4"; 3/8"; 1/2"; 3/4"; 1") Test Fluid: Oil-200 SUS



FF Series Plugs

		Part No. Steel	Size	Dust Plug	Thread Size NPT
		B-FF2F2-FP	1/4"	SDC-2	1/4-20 FPT
_	Female Thread	B-FF2F2-FP-SAE	/4	3DC-2	1/4-20 SAE
eac		B-FF3F3-FP	3/8"	SDC-3	3/8-18 FPT
hr		B-FF3F4-FP	78	2DC-3	½-14 FPT
e 1	一种	B-FF4F4-FP			½-14 FPT
nal		B-FF4F4-FP-SAE	1/2"	SDC-4	3/4-16 SAE
-en		B-FF4F6-FP	72		3/4-14 FPT
		B-FF4F6-FP-SAE			1 ¹ / ₁₆ –12-SAE
		B-FF6F6-FP	3/4"	SDC-6	3/4-14 FPT
		B-FF6F6-FP-SAE	/4	300-0	1 ¹ / ₁₆ –12-SAE
		B-FF8F8-FP	1"	SDC-8	1-11 ¹ / ₂ FPT

FF Series Sockets

	Part No. Steel	Size	Dust Plug	Thread Size NPT	
		B-2FF2-FP	1/4"	PDC-2	1/4-20 FPT
_		B-2FF2-FP-SAE	1 74	PDC-2	1/4-20 SAE
eac	Female Thread	B-3FF3-FP	3/8"	PDC-3	3/8-18 FPT
jų.		B-3FF4-FP	78	PDC-3	½-14 FPT
e T		B-4FF4-FP			1/2-14 FPT
nal		B-4FF4-FP-SAE	1/2"	PDC-4	3/4-16 SAE
-en		B-4FF6-FP	72		3/4-14 FPT
		B-4FF6-FP-SAE			1 ¹ / ₁₆ –12-SAE
		B-6FF6-FP	3/4"	PDC-6	³ / ₄ –14 FPT
		B-6FF6-FP-SAE	74	PDC-0	1 ¹ / ₁₆ –12-SAE
		B-8FF8-FP	1"	PDC-8	1-11½ FPT

Note: Foster approved components (May be imported)

^{*}Hydraulic Tool Mfg. Assoc. and National Fluid Power Assoc.



(Compatible with ISO 7241-1, Series B)

			ا	Performance Dat	a			
					Air Flov	w – CFM		Oil Flow-GPM
Davida Circ	Rated Pressure Coupled PSI (Non Shock Service)		100 PSIG 80 PS		PSIG	MIL-H5606-125°F		
Body Size	Coupled				Pressure Drop			
	Steel	Brass	Stainless	10 PSIG	5 PSIG	10 PSIG	5 PSIG	10 PSIG
1/8"	4000	3000	5000	22	17	20	15	1.8
1/4"	5000	2700	3700	32	22	29	20	3.6
3/8"	3700	2200	3700	58	42	53	38	6.7
1/2"	5000	2250	4250	130	88	118	80	11.0
3/4"	4000	2000	3500	305	207	277	188	26.3
1"	4000	1500	3000	372	252	338	229	31.8

Applications: FHK Series sockets incorporate valves in both socket and plug halves to prevent fluid loss when the socket is disconnected. These sockets are normally referred to as "hydraulic couplings", but they are used extensively with other media where objectionable. The FHK Series sockets are available in ROHS compliant steel and brass.

Vacuum Service: 27" Hg. maximum Rated pressures as defined by ANSI/B93.2-1986 based on 4:1 Safety Factor and non-shock service.

Type: FHK, Two-Way Shutoff, Both socket and plug are sealed at disconnect.

Interchangeability: Standard, most widely used, industrial interchange design. Within each series, only sockets and plugs of the same size will couple to gether. Compatible with ISO 7241-1, Series B.

Operation: Manual - Socket sleeve must be manually retracted to connect and disconnect.

Options:

FHK Series couplings are available in ROHS compliant plated steel, brass, and 303 Stainless as standard. Brass couplings have double O-Ring seals (excluding \(^1/\set^*\)) and stainless locking balls. Standard seals are Buna-N (Nitrile). Consult factory for optional seals.

One Way Shut-Off: Add suffix VA to either socket or plug

 Ball Lock (BL): Locks against accidental disconnect. To connect, align ball with slot. After connection, rotate sleeve to

Straight-Thru: Add suffix LV to both socket and plug catalog

lock. To disconnect, realign ball with slot and retract sleeve.

Seal Compound: Standard seals are Buna-N.

catalog number for valve actuator.

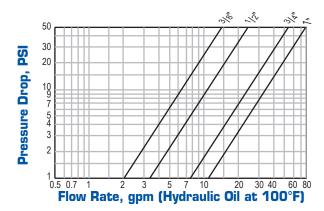
number for less valve.

Ordering information:

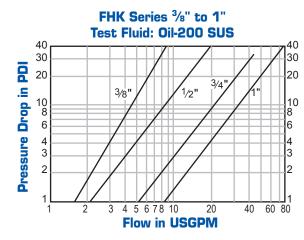
All sizes can be furnished with locking sleeves designated by "BL" (Ball Lock) suffix after regular catalog numbers.

Specifications:

Rated Pressure, Coupled									
	Cina	Brass		Steel		Stainless Steel			
	Size	PSI	BAR	BAR PSI BAR		PSI	BAR		
H3	3/8"	2,200	152	3,700	255	3,700	255		
H4	1/2"	2,250	155	5,000	345	4,250	293		
H6	3/4"	2,000	138	4,000	275	3,500	242		
H8	1"	1,500	103	4,000	275	2,500	173		
Н6	3/4"	2,000	138	4,000	275	3,500			



Performance:



MURDOCK: industrial

Phone: 330-535-7105

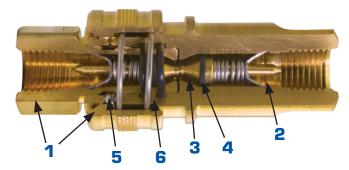


(Compatible with ISO 7241-1, Series B)



Features:

- 1 ISO B, Hardened plugs and sleeves constructed from solid bar stock ensures long service life and maximum resistance to damage from hydraulic and mechanical shock.
- 2 High flow capacity.
- 3 Foster's conical valve with its 360° metal to metal valve stop maintains valve alignment and ensures that poppets open fully every time.
- 4 Captive valve seal ensures "bubble tight" poppet sealing since seal is positively captured by the metal poppet to minimize seal washout or damage from high fluid velocity.



- 5 Ball locking mechanism ensures reliable connections every time. Many ball bearings distribute the load while providing alignment and excellent swiveling action to reduce hose torque and prolong hose life.
- 6 Broad range of metals and seal materials allow the use of

FHK Series 1/8" Two Way Shut-Off, Plugs and Sockets

	Д	Part No.	Thread	Description
		K1S		Steel
		K1S-101		Steel w/Viton Seal
10		K1B		Brass
Plugs	Si S	K1B-101	1/8"	Brass, w/Viton Seal
메		K1B-103		Brass, w/EPDM Seal
	KZB	K1BLV		Brass Less Valve
		K1S/S		303 Stainless
		K1S/S-101		303 Stainless, w/Viton Seal
		K1S4	⁷ /16 -20 *	Steel

		Part No.	Thread	Description
		H1S		Steel
	- CT 17-	H1S-101		Steel w/Viton Seal
		H1B		Brass
	LOSA FIGURE	H1B-101		Brass, w/Viton Seal
ts.		H1B-103		Brass, w/Ethylene Propylene Seal
ke	Sockets	H1BLV	H1S/S H1S/S-101	Brass Less Valve,
၁၀		H1S/S		303 Stainless
S		H1S/S-101		303 Stainless, w/Viton Seal
		H1S/S-104		303 Stainless, w/Silicone Seal
		BLH1S		Steel Ball Lock
		BLH1B		Brass Ball Lock
		BLH1S/S		303 Stainless Ball Lock
		H1S4	¹⁷ / ₁₆ -20*	Steel
		BLH1S4	/16 - ZU"	Steel Ball Lock

FHK Series \(\frac{1}{4}\)" Two Way Shut-Off, Plugs and Sockets

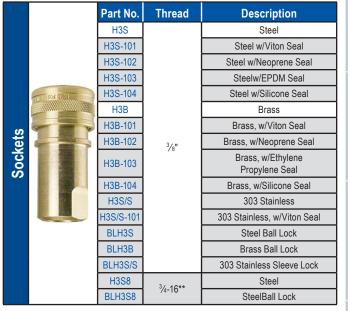
		Part No.	Thread	Description
		K2S		Steel
		K2S-101	K2S-101	Steelw/Viton Seal
		K2S-103		Steel w/EPDM Seal
		K2S-104		Steel w/Silicone Seal
		K2SLV		Steel Less Valve
		K2B		Brass
		K2B-101		Brass, w/Viton Seal
S		K2B-102		Brass, w/Neoprene Seal
Plugs		K2B-103	1/4"	Brass, w/EPDM Seal
<u> </u>		K2B-104		Brass, w/Silicone Seal
	RSB	K2BLV		Brass Less Valve
		K2S/S		303 Stainless
		K2S/S-101		303 Stainless, w/Viton Seal
		K2S/S-103		303 Stainless, w/EPDM Seal
		K2S/S-104		303 Stainless, w/Silicone Seal
		K2S/SLV		303 StainlessLess Valve
		K2S6	9/16-18*	Steel



(Compatible with ISO 7241-1, Series B)

FHK Series 3/8" Two Way Shut-Off, Plugs and Sockets

		Part No.	Thread	Description
		K3S		Steel
		K3S-101		Steel w/Viton Seal
		K3S-102		Steel w/Neoprene Seal
		K3S-103		Steel w/EPDM Seal
		K3S-104		Steel w/Silicone Seal
w		K3SLV		Steel Less Valve
Plugs		K3B		Brass
딥		K3B-101		Brass, w/Viton Seal
	KSB	K3B-102		Brass, w/Neoprene Seal
		K3B-103		Brass, w/EPDM Seal
		K3S/S		303 Stainless
		K3S/S-101		303 Stainless, w/Viton Seal
		K3S/S-103		303 Stainless, w/EPDM Seal
		K3S8	³ / ₄ -16*	Steel



FHK Series 1/2" Two Way Shut-Off, Plugs and Sockets

		Part No.	Thread	Description
		K4S		Steel
		K4S-101		Steel w/Viton Seal
		K4S-103		Steel w/EPDM Seal
		K4SLV		Steel Less Valve
		K4B		Brass
St		K4B-101		Brass, w/Viton Seal
Plugs		K4B-102	1/2"	Brass, w/Neoprene Seal
Д		K4B-103		Brass, w/EPDM Seal
	KZB	K4BLV		Brass Less Valve
	THE PARTY OF	K4S/S		303 Stainless
		K4S/S-101		303 Stainless, w/Viton Seal
		K4S/S-103		303 Stainless, w/EPDM Seal
		K4S/SLV		303 Stainless Less Valve
		K4S10	⁷ /8-14*	Steel

		Part No.	Thread	Description
		H4S		Steel
		H4S-101		Steel w/Viton Seal
		H4S-103		Steel w/EPDM Seal
	TO SISON STATE	H4B		Brass
		H4B-101		Brass, w/Viton Seal
w	y V	H4B-102		Brass, w/Neoprene Seal
Sockets	Ckets	H4B-103	1/2"	Brass, w/Ethylene Propylene Seal
So		H4S/S		303 Stainless
		H4S/S-101		303 Stainless, w/Viton Seal
		H4S/S-103		303 Stainless, w/EPDM Seal
		BLH4S		Steel Ball Lock
		BLH4B		Brass Ball Lock
		BLH4S/S		303 Stainless Ball Lock
		H4S10	⁷ ∕8-14*	Steel
		BLH4S10	/o-14	Steel Ball Lock

Non-Standard Product	Standard Produc

*SAE straight thread O-ring seal boss See page 143 for full size templates See page 130 - 131 for optional seal compounds

industrial



(Compatible with ISO 7241-1, Series B)



FHK Series 3/4" Two Way Shut-Off, Plugs and Sockets

		Part No.	Thread	Description
		K6S		Steel
	-	K6S-101		Steel w/Viton Seal
		K6S-102		Steel w/Neoprene Seal
		K6S-103		Steel w/EPDM Seal
		K6SLV		SteelLess Valve
Plugs		K6B	3/4"	Brass
Ď		K6B-101		Brass, w/Viton Seal
Ъ	ASA	K6B-103		Brass, w/Ethylene Propylene Seal
		K6S/S		303 Stainless
		K6S/S-101		303 Stainless, w/Viton Seal
		K6S/S-103		303 Stainless, w/EPDM Seal
		K6S/SLV		303 Stainless Less Valve
		K6S12	1-1/16-12*	Steel

		Part No.	Thread	Description
		H6S-101		Steel w/Viton Seal
		H6S-102		Steel w/Neoprene Seal
		H6S-103		Steel w/EPDM Seal
		H6SLV		Steel Less Valve
	First Roses	H6B		Brass
		H6B-101		Brass, w/Viton Seal
Sockets (cont.)		H6B-103		Brass, w/Ethylene Propylene Seal
S	y,	H6B-104	3/4"	Brass, w/Silicone Seal
Ke		H6S/S		303 Stainless
ြာင		H6S/S-101		303 Stainless, w/Viton Seal
Ň		H6S/S-103		303 Stainless, w/EPDM Seal
		H6S/SLV		303 Stainless Less Valve
		BLH6S		Steel Ball Lock
		BLH6B		Brass Ball Lock
		BLH6S/S		303 Stainless Ball Lock
		H6S12	1-1/16-12*	Steel
		BLH6S12	1-/10-12	Steel Ball Lock

FHK Series 1" Two Way Shut-Off, Plugs and Sockets

		Part No.	Thread	Description
		K8S	Steel	
		K8S-101		Steel w/Viton Seal
		K8SLV		Steel Less Valve
w		K8B		Brass
ğ		K8B-101	1" x 1"	Brass, w/Viton Seal
Plugs		K8B-103		Brass, w/Ethylene Propylene Seal
	K S B	K8S/S		303 Stainless
		K8S/S-101		303 Stainless, w/Viton Seal
		K8S/S-103		303 Stainless, w/EPDM Seal
		K8S16	1" x 1-5/16-12*	Steel

Non-Standard Product

Standard Product

*SAE straight thread O-ring seal boss See page 143 for full size templates See page 130 - 131 for optional seal compounds

Part No. **Thread Description** H8S Steel H8S-101 Steel w/Viton Seal H8SLV Steel Less Valve H8B H8B-101 Brass, w/Viton Seal Sockets (cont.) Brass, w/Ethylene H8B-103 Propylene Seal H8S/S 303 Stainless H8S/S-101 303 Stainless, w/Viton Seal 303 Stainless, w/EPDM H8S/S-103 Seal BLH8S Steel Ball Lock BLH8B Brass Ball Lock BLH8S/S 303 Stainless Ball Lock H8S16 1-5/16-12* BLH8S16 Steel Ball Lock

Dust Plugs and Caps

Dust Plugs and Dust Caps

Protective dust plugs and caps play a crucial role in the use of quick couplings and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. Dust plugs and caps keep the mating surface clean and free of contamination and protect the critical

mating elements of the coupling halves when they are disconnected. In this way the plug is protected from damage that would make the total coupling unusable.

Note: When ordering the dust cap/plug body size must correspond to that of the socket or plug.

Caps and Plugs Rubber	Part No.	Size	Description
Pl	B1DC	1/8"	Dust Cap
nd	B1DP	1/8"	Dust Plug
s a bbe	B2DC-DP	1/4"	Dust Cap and Plug
aps Ru	B3DC-DP	3/8"	Dust Cap and Plug
t C	B4DC-DP	1/2"	Dust Cap and Plug
Dust (B6DC-DP	3/4"	Dust Cap and Plug
Ω	B8DC-DP	1"	Dust Cap and Plug

Plug		Part No. NPT Thread	Part No. SAE Thread	For Use With
o st		H1DP	H1DP4	1/8" Socket
- Dust nyard	Consumption of the Consumption o	H2DP	H2DP6	1/4" Socket
Aluminum - W/Lany W/Lany	H3DP	H3DP8	3/8" Socket	
		H4DP	H4DP10	½" Socket
		H6DP	H6DP12	3/4" Socket
A		H8DP	H8DP16	1" Socket

www.zci foctor.com

Fax: 330-535-1125

MurdockIndustrial



FH & FIH Series

(Interchange with Snap-Tite H & IH Series)

FH & FIH Series Quick Disconnect has provided years of reliable service on hydraulic/pneumatic applications in the handling of gases and fluids. The FH & FIH Series couplings are engineered to meet or exceeds MIL-C-51234. Options are available for static pressure hydraulic systems and also for pneumatic air tool use.

Type:

- FH Two Way Shut-Off and Straight-Thru
- FIH One Way Shut-Off

Interchangeability:

- FH Series interchanges with Snap-Tite "H" Series.
- FIH Series interchanges with Snap-Tite "IH" Series.
- Within each series, only sockets and plugs of the same size will couple together.

Operation: Manual – Socket sleeve must be manually retracted to connect and disconnect.

Options: Ball Lock (BL prefix) – Locks against accidental disconnect. To connect align ball with slot. After connection, rotate sleeve to lock. To disconnect, realign ball with slot and retract sleeve.

Seal Compound: Standard seals are Buna-N.

Rated Pressure: Rated Pressure as defined by ANSI/B93.2 -1986, non-shock service.

Socket Features:

- Latch Mechanism
 - Manual connect and disconnect
 - Steel sleeves are hardened to provide maximum service life
- Material and Finish
 - Machined from solid bar stock
 - Steel components are zinc plated
- Coupled Seal
- Valved units incorporate a Teflon back-up ring to with-stand dynamic impulse

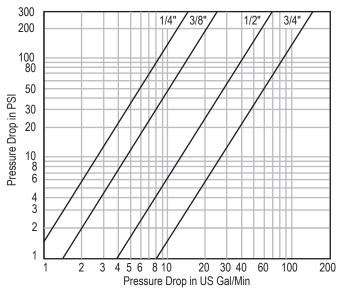
Plug Features:

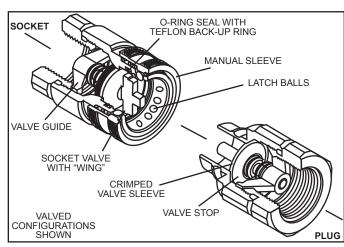
- Machined from solid bar stock
- Steel plugs are hardened and zinc plated to provide heavy duty performance
- Flow Large diameters provide for higher flow than other double shut-off quick disconnects
- Seals
 - Buna-N (Nitrile) seals are standard
 - Valve seals are crimped in place to maintain integrity during excessive flow conditions



Performance:

Series "FH & FIH" - Valved or Non-Valved Test Fluid: Hydraulic Oil at 100°F





The FIH Series sockets & plugs are for pneumatic applications. The FIH sockets have a valve with 360° contact with plug.

Standard Produc
-

Profile drawings available at www.couplers.com See page 144 for full size templates See page 130 - 131 for optional seal compounds

industrial



FH & FIH Series

(Interchange with Snap-Tite H & IH Series)



FH Series, Two Way Valved Plugs

		Part No.	FPT	Description	
ठ		FHP2F2		Steel	
ea.			FHP2F2-101	1711	Steel w/Viton Seal
핕		FHP2F2B	1/4"	Brass	
Female Thread	300 MACO	FHP2F2B-101		Brass, w/Viton Seal	
la		FHP3F3	3/8"	Steel	
en	we dem	FHP3F3B	78	Brass	
ш.	T 2000	FHP4F4	1/2"	Steel	
		FHP4F4B		Brass	

		Part No.	MPT	Description	
		FHP2M2		Steel	
ਰੂ		FHP2M2-103	1/4"	Steel w/Ethylene Prop. Seal	
es	Male Thread		FHP2M2B	74	Brass
돈		FHP2M2B-103		Brass w/EPDM Seal	
G O		FHP3M3	3/8"	Steel	
a		FHP3M3B	78	Brass	
2	7/1/2	FHP4M4		Steel	
		FHP4M4-101	1/2"	Steel w/Viton Seal	
		FHP4M4B		Brass	

FH Series, Two Way Valved Sockets

		Part No.	FPT	Description
	1000000	FHS2F2		Steel
		BLFHS2F2	1/4"	Ball Lock, Steel
		FHS2F2-101		Steel w/Viton Seal
		FHS3F3	3/8"	Steel
ac		BLFHS3F3	78	Ball Lock, Steel
]E		FHS4F4	1/2"	Steel
Female Thread		BLFHS4F4	/2	Ball Lock, Steel
<u>e</u>	(sustain	FHS2F2B	1/4"	Brass
Ë	NA COUNTY IN IN	BLFHS2F2B		Ball Lock, Brass
T T		FHS2F2B-101		Brass, w/Viton Seal
		FHS2F2B-103		Brass w/EPDM Seal
		FHS3F3B	3/8"	Brass
		BLFHS3F3B	/8	Ball Lock, Brass
		FHS4F4B	1/2"	Brass
		BLFHS4F4B	/2	Ball Lock, Brass

		Part No.	MPT	Description
		FHS2M2		Steel
		FHS2M2-101	1/4"	Steel w/Viton Seal
		BLFHS2M2		Ball Lock, Steel
		FHS3M3	3/8"	Steel
등	400 MM	BLFHS3M3	78	Ball Lock, Steel
39(FHS4M4		Steel
hre		FHS4M4-101	1/2"	w/Viton Seal
F		BLFHS4M4		Ball Lock, Steel
Male Threadl	VIB. FOR BEAUTI	FHS2M2B	1/4"	Brass
Ž		BLFHS2M2B		Ball Lock, Brass
		FHS3M3B	3/8"	Brass
		BLFHS3M3B	78	Ball Lock, Brass
		FHS4M4B		Brass
		BLFHS4M4B	1/2"	Ball Lock, Brass
		FHS4M4B-103		Brass w/EPDM Seal

FIH Series, Unvalved Plugs (Use with both FI & FIH Sockets)

75		Part No.	FPT	Description
Female Thread		FH21F	1/8"	Steel
J.E		FH22F	1/4"	Steel
F		FH22FB	/4	Brass
<u>e</u>	Transfer	FH33F	3/8"	Steel
Ĕ		FH33FB	78	Brass
T T T T T T T T T T T T T T T T T T T		FH44F	1/2"	Steel
		FH44FB	/2	Brass

		Part No.	MPT	Description
Thread		FH22M	1/4"	Steel
=	WARTER	FH22MB	/4	Brass
		FH33M	3/8"	Steel
Male		FH33MB	78	Brass
Ĕ		FH44M	1/2"	Steel
		FH44MB	/2	Brass

FIH Series, One Way Valved Sockets

b		Part No.	FPT	Description
Thread		FIS2F2	1/4"	Steel
프		BLFIS2F2		Ball Lock, Steel
e l		FIS3F3	3/8"	Steel
a		BLFIS3F3		Ball Lock, Steel
Female		FIS4F4	1/2"	Steel
ш	IN	BLFIS4F4	72"	Ball Lock, Steel
	TRIVETE TOR	Part No.	MPT	Description

	ED PRIER	Part No.	MPT	Description
ad		FIS2M2	Steel	
Thread		BLFIS2M2	/4	Ball Lock, Steel
		FIS3M3	3/8"	Steel
Male	SERVEDE HI	BLFIS3M3		Ball Lock, Steel
Σ	CHANCE TO THE PARTY OF THE PART	FIS4M4	1/2"	Steel
		BLFIS4M4		Ball Lock, Steel

FH Series, Straight-Thru Sockets

		Part No.	FPT	Description (no valve)	
		FHS2		Steel	
		BLFHS2		Ball Lock, Steel	
		FHS2B	1/4"	Brass	
ਰੂ		BLFHS2B		Ball Lock, Brass	
Female Thread	'FHS3B FOST	FHS2B-101		Brass, w/Viton Seal	
Ξ		FHS3	3/8"	Steel	
ี •	1	BLFHS3		Ball Lock, Steel	
a		FHS3-101		Brass, w/Viton Seal	
em		FHS3B		Brass	
Ľ.		BLFHS3B		Ball Lock, Brass	
		FHS4		Steel	
		BLFHS4	1/2"	Ball Lock, Steel	
		FHS4B	72"	Brass	
		BLFHS4B		Ball Lock, Brass	
	Non-Standard Product Standard Product				

See page 144 for full size templates

Size 3/4"

1"

1-1/4"

1-1/2"



FWN Series - Wing Nut Couplers

Features:

- For use on hydraulic applications with operating pressure up to 3,000 PSI
- · Heavy duty, double shutoff coupler
- Connect/disconnect under pressure with minimal air inclusion and fluid loss
- Interchangeable with manufacturers' couplings
- Plugs can be bulkhead mounted

Construction:

- Brass body resists corrosion
- · Zinc plated steel wing nut
- Stainless steel springs
- Buna-N Seals

Temperature Range:

- -40° to +250° F
- * Minimum burst pressure is equal to three times the rated pressure. Not recommended for continuous hydraulic impulse applications at rated pressures.

Specifications: SIZE 11/4" Dash Number -20 -08 -12 -16 -24 Rated Pressure (PSI) Female Half 3000 3000 3000 2750 2000 3000 Male Half 3000 3000 2500 2500 3000 Complete Coupling Assembly 3000 3000 2750 2500 Rated Flow (GPM) 12 28 50 76 100

FWN Series ($\frac{1}{2}$ " to $1-\frac{1}{2}$ ") Performance: Test Fluid: OIL-200 SUS 100 80 60 100 40 30 1/2" Pressure Drop in PDI 20 20 10 8 10 40 50 70 Flow in USGPM

FWN Series, Plugs

		Part No.			Thread
		With Flange	Without Flange	Size	Size NPTF
gs	Plugs	B-6115-08	B-6105-08	3/4"	1/2-14
문		B-6115-12	B-6105-12	/4	³ / ₄ -14
		B-6115-16	B-6105-16	1"	1 - 11-1/2
		B-6115-20	B-6105-20	1-1/4"	11/4 - 11-1/2
		B-6115-24	B-6105-24	1-1/2"	11/2 - 11-1/2

	Part No.
ona nge	B-6107-08
Optio Flan	B-6107-16
	B-6107-20
	B-6107-24

Dust Plugs & Dust Ca	aps
----------------------	-----

gs		Part No.	Size	NPTF Thread	Description
흕	Q	B-6109-08	3/4"	3/4-14	
st F		B-6109-16	1"	1 - 11-1/2	Brass Dust Plug
Dust Plugs		B-6109-20	1-1/4"	11/4 - 11-1/2	Dust Plug
		B-6109-24	1-1/2"	11/2 - 11-1/2	

sd	Part No.	Size	NPTF Thread	Description
Caps	B-6108-08	3/4"	³ / ₄ -14	
	B-6108-16	1"	1 - 11- ¹ / ₂	Brass
Dust	B-6108-20	1-1/4"	11/4 - 11-1/2	Dust Cap
	B-6108-24	1-1/2"	11/2 - 11-1/2	

FWN Series, Coupling Assemblies

Coupling with Wing Nut	
------------------------	--

Part No.			Thread
With Flange	Without Flange	Size	Size NPTF
B-6100-08	B-6120-08	3/4"	1/2-14
B-6100-12	B-6120-12	/4	3/4-14
B-6100-16	B-6120-16	1"	1 - 11-1/2
B-6100-20	B-6120-20	1-1/4"	1½ - 11-½
B-6100-24	B-6120-24	1-1/2"	11/2 - 11-1/2

		Part	No.		Thread
	With Flange	Without Flange	Size	Size NPTF	
Coupling		B-6110-08	B-6130-08	3/4"	1/2-14
dnc	dno	B-6110-12	B-6130-12	/4	3/4-14
ŭ	B-6110-16	B-6130-16	1"	1 - 11-1/2	
		B-6110-20	B-6130-20	1-1/4"	11/4 - 11-1/2
		B-6110-24	B-6130-24	1-1/2"	1½ - 11-½

FWN Series, Sockets



Brass	Size	NPTF
B-6125-08	3/4"	1/2-14
B-6125-12	/4	³ / ₄ -14
B-6125-16	1"	1 - 11-½
B-6125-20	1-1/4"	11/4 - 11-1/2
B-6125-24	1-1/2"	11/2 - 11-1/2

		Part No. Brass	Size	Thread Size NPTF
Ħ		B-6135-08	3/4"	1/2-14
Z	Z	B-6135-12	7/4	³ / ₄ -14
Hex Nut		B-6135-16	1"	1 - 11- ¹ / ₂
		B-6135-20	1-1/4"	11/4 - 11-1/2
		B-6135-24	1-1/2"	11/2 - 11-1/2

Note: Foster approved components (May be imported)



(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

Specifications & Layouts FJT Series

Foster FJT Series couplers are designed to connect coolant lines to plastic molds and die casting dies. FJT Series plugs are mounted in the mold. They can be threaded directly into the mold coolant ports or recessed into the mold for a flush surface during storage. Sockets have hose stems, either standard hose or "Push-on" type, for direct connection to the coolant line going to the manifold. Seal compound is silicone for use with water, ethylene glycol, or air.

Type: Straight-Thru, One Way or Two Way

Interchangeability: DME Jiffy-Tite and Jiffy-Matic and Parker Moldmate couplers

Operation: Manual – Socket sleeve must be manually retracted to connect and disconnect

Options:

Ball Lock (BL) - Locks manual socket against accidental disconnect. To connect, align ball with slot.

After connection, rotate sleeve to lock.

To disconnect, realign ball with slot and retract sleeve.

Features:

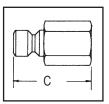
- Precision leakproof seal
- Two piece construction on straight stem sockets
- · Double knurl on socket sleeve for easier grip
- Sockets have six balls.

Specifications:

Temperature Range: -65° to +425° F

Rated Pressure: 200 PSIG

MOLD'C'BORE

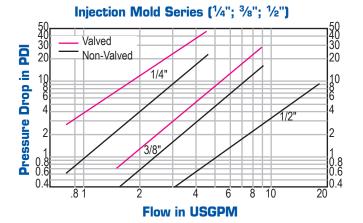


Cat. No.	NPT	Α	В	С
FP251 (F)	1/8	.687	.687	1.000
FP252 (F)	1/4	.843	.937	1.278
FP352 (F)	/4	1.00	1.092	1.450
FP253 (F)	3/8	1.00	.937	1.373
FP353 (F)	78	1.00	1.125	1.574
FP354	1/2	1.187	1.250	-
FP554 (F)	/2	1.250	1.500	1.750
FP556 (F)	3/4	1.500	1.562	1.750

(F) - Suffix F for female pipe thread

PERFOR	RMANCE DATA	FLOW		
		Water – GPM 10 PSIG Pressure Drop		
FJT 1/4	Straight-Thru	4.5		
FJT ¼ V	One Way (valved)	2.3		
FJT 3//8	Straight-Thru	10.0		
FJT 3/8 HF	High Flow	13.8		
FJT 3/8 V	One Way (valved)	5.9		
FJT ½	Straight-Thru	28.2		

Performance:





(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

Features:

- 1. Available with or without valves in the coupler. Non-valved couplers have minimum flow resistance for maximum cooling. Valved couplers shut off automatically upon disconnect. Valved couplers can be used with either valved or non-valved nipples.
- 2. Nipples are designed to be recessed below mold surfaces to provide more efficient storage of molds and prevent damage to the nipple.
- **3.** Widest choice of end fittings available, including straight, 45° or 90° with standard hose barb or Push-Lok barbs for easy installation.
- 4. Couplers and nipples are made of corrosion resistant steel and brass.

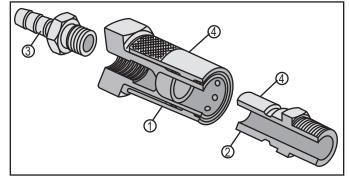
Applications: Injection Mold Series couplings are specifically designed for connecting coolant lines to molds and dies, on injection molding machinery in the plastics and die casting industries. Injection Mold Series couplings significantly reduce machine downtime by providing fast and easy connection of coolant lines during mold changes. Their short nipples can be recessed below the surface of the mold for more efficient storage of molds. Injection Mold Series couplers are available with or without valves in the female half. Non-valved couplers provide maximum flow for efficient cooling. Valved couplers shut off when disconnected.

Selection Guidelines: Injection Mold Series couplings are designed for a maximum working pressure of 200 PSI. Most thermoplastic and thermostat heat transfer systems have pumps which provide relatively high flow rates at relatively low pressures. Water and water glycol (anti-freeze) systems usually have capacities ranging from 10 to 40 gpm, with most from 10 to 15 gpm. Normal medial opening pressures are 20 to 60 PSI for these systems. Heat transfer systems using oil generally operate from 10 to 30 PSI. However, their flow rates are usually much higher, requiring the total volume of oil to be circulated at least once per minute.

The number of hose connections in a single mold system results in a cumulative pressure drop. Please note the Pressure Drop vs. Flow Rate chart provided, to select the appropriate size.

Temperature is another important consideration. Injection Mold Series couplings with their standard Silicone seal have a temperature capability of -65° to +425°F. Rapid deterioration of the seal and leaking may result if used beyond these limits.

External conditions of temperature, corrosive atmospheres, and other abnormalities may affect coupling performance and must be considered when selection is made consult factory with questions.



FJT Series Brass Extension Plugs



- One piece construction for fast assembly, positive removal
- Installation problems associated with pipe nipple extensions on standard plugs are eliminated
- One-piece brass construction eliminates a potential leak point and ensures removability
- A variety of pipe sizes and lengths are available per the enclosed table
- Lengths available: 2.5" thru 13" Standard, Call factory for available lengths
- To Order: Add desired length to the end of the part number; i.e. FP251x2.5.





(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

FJT 1/4" Series - Plugs

	Part No.	FPT	Description	
<u>a</u> 6	5	FP251F	1/8"	Steel
male read		FP251FB	/8	Brass
h.		FP252F	1/4"	Steel
шн		FP252FB	/4	Brass
		FP253F	3/8"	Steel

		Part No.	MPT	Description
e ad	AND DESCRIPTION OF THE PARTY OF	FP251	1/8"	Droop
Male Trea	19831	FP252	1/4"	Brass
골두		FP252S	/4	Steel
		FP253	3/8"	Brass

		Part No.	Pipe Size	Description
Plug		FP251X	1/8"	Call with length, material, and thread
Male xtension	FP252X	1/4"	requirements Lengths available: 2.5" - 13"	
Ex	FP253X	3/8"	To Order: Add length to part number: i.e. FP251x2.5	

FJT 1/4" Series Straight Thru Sockets

		Part No.	I.D.	Description
E 1800	FS204	1/4"	Brass	
ght	ten ster	BLFS204	74	Ball Lock, Brass
Straig Hose S	FS205	5/16"	Brass	
	BLFS205	/16	Ball Lock, Brass	
	FS206	3/"	Brass	
		BLFS206	3/8"	Ball Lock, Brass

		Part No.	I.D.	Description
E 120	FS214	1/4"	Brass	
)° Stem	B3300000	BLFS214	/4	Ball Lock, Brass
Hose Si	FS215	⁵ / ₁₆ "	Brass	
	BLFS215	/16	Ball Lock, Brass	
		FS216	3/8"	Brass
		BLFS216	78	Ball Lock, Brass

Ε	17.10	Part No.	I.D.	Description
Stem	(B)/// (B)	FS224	1/4"	Brass
	222000	BLFS224	/4	Ball Lock, Brass
Hose		FS225	⁵ / ₁₆ "	Brass
		BLFS225	716	Ball Lock, Brass
45°		FS226	3/8"	Brass
4	BLFS226	78"	Ball Lock, Brass	

=		Part No.	FPT	Description
ocket Ster		FS200	1/8"	Brass
SO W/O	1021	BLFS200		Ball Lock, Brass

n	F. 17200 B. 1850 (10)	Part No.	I.D.	Description
Push-On Stem	7//	FS204P	1/4"	Brass
Straight Hose		FS206P	³ /8"	DIASS
တ	Hose clamps not required when used with "Push On" hose. See page 63.			

۾ ر	. T20)	Part No.	I.D.	Description
h-O ten	/A /// E	FS214P	1/4"	Brass
St	E-11077 W	BLFS214P	74	Ball Lock, Brass
Pu	S S	FS216P	2 / 11	Brass
90° Ho		BLFS216P	3/8"	Ball Lock, Brass
Hose clamps not required when used with "Push On" hose. See page 63.				" hose. See page 63.

	18/11 2 <mark>.0</mark> 1	Part No.	I.D.	Description
Ou	HEAVY COMES	FS224P	1/4"	Brass
ush-Oı e Stem		BLFS224P	/4	Ball Lock, Brass
45° Pu Hose		FS226P	3/8"	Brass
45 H		BLFS226P	78	Ball Lock, Brass
	Hose clamps not required when used with "Push On" hose. See page 63			

See page 144 for full size templates

(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

FJT 1/4" Series One Way Valved Sockets

		Part No.	I.D.	Description	
100	(N. 77 HAV.W.)	FS204V	1/4"	Brass	
ıt em	E	BLFS204V	/4	Ball Lock, Brass, Valved	
St	traight se Sten	FS205V	5/16"	Brass	
Ta Se		BLFS205V		Ball Lock, Brass, Valved	
Str Hose		FS206V		Brass	
		BLFS206V	3/8"	Ball Lock, Brass, Valved	
	Hose clamps not required when used with "Push On" hose. See page 63.				

90° Hose Stem	Part No.	I.D.	Description	
	FS214V	1/4"	Brass	
	BLFS214V		Ball Lock, Brass	
	FS215V	5/16"	Brass	
	BLFS215V	716	Ball Lock, Brass	
	The section of the	FS216V	3/8"	Brass
		BLFS216V	78	Ball Lock, Brass

		Part No.	I.D.	Description
_	W. W.	FS224V	1711	Brass
se Stem	Application of the second	BLFS224V	1/4"	Ball Lock, Brass
45° Hose St		FS225V	⁵ / ₁₆ "	Brass
		BLFS225V		Ball Lock, Brass
운		FS226V		Brass
	A STATE OF THE STA	BLFS226V	3/8"	Ball Lock, Brass

: n		Part No.	FPT	Description
Socket w/o Ster	FS200V	144	Brass Valved	
	I S	BLFS200V	1/8"	Ball Lock, Brass

Part No. Body x I.D. **Description** 1/4" x 1/4" FS204VP Brass BLFS204VP 1/4" x 1/4" Ball Lock, Brass, Valved FS206VP 1/4" x 3/8" Brass Hose clamps not required when used with "Push On" hose. See page 63.

_	EJ 7	Part No.	Body x I.D.	Description	
ᅙᄩ	W. W.	FS214VP	1/4"	Brass	
इं इं		BLFS214VP	/4	Ball Lock, Brass	
Pu	SO	FS216VP	3	Brass	
90° Ho		BLFS216VP	3/8"	Ball Lock, Brass	
	Hose clamps not required when used with "Push On" hose. See page 63.				

	0734	Part No.	Body x I.D.	Description		
on T	morrages.	FS224VP	1/4" x 1/4"	Brass		
Push-O	Ste	BLFS224VP	1/4" x 1/4"	Ball Lock, Brass, Valved		
45° Pu Hose		FS226VP	¹ / ₄ " x ³ / ₈ "	Brass		
4	A STATE OF THE STA	BLFS226VP	1/4" x 3/8"	Ball Lock, Brass, Valved		
	Hose clamps not required when used with "Push On" hose. See page 63.					

FJT 3/8" Series - Plugs

ad ad		FP352F	1/4"	Steel
Female Thread	The state of the s	FP352FB	/4	Brass
#=		FP353F	3/8"	Steel
	1242	FP353FB	/8	Brass
		Part No.	MPT	Description
		FP351	1/8"	Brass
ੂ ਰੂ		FP352	1/4"	Brass
Male hread		FP352S		Steel
عَ≤َ	NEAD IN	FP353		Brass
		FP353V	3/8"	Brass, Valved Plug, for Two Way sockets
		FP354	1/2"	Brass

Part No.

FPT

	Part No.	Pipe Size	Description
Male sion Plug	FP352X	1/4"	Call with length, material, and thread require- ments
Male Extenssion	FP353X	3/8"	Lengths available: 2.5" - 13" To Order: Add length to part
	FP354X	1/2"	number: i.e. FP251x2.5

Non-Standard Product	Standard Product			
See page 144 for full size templates				

Description





(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

FJT 3/8" Series Straight Thru Sockets

L L	10 1 310	Part No.	I.D.	Description
te jir	V. C. S. C.	FS306	3/8"	Brass
aiç e S		BLFS306	78"	Ball Lock, Brass
Straight Hose Stem		FS308	1/2"	Brass
		BLFS308	, 2	Ball Lock, Brass
Ę	-J 300	Part No.	I.D.	Description
ter	words	FS316	3/8"	Brass
90°	w. 110,721.00	BLFS316	78	Ball Lock, Brass
90° Hose Stem	The second	FS318	1	Brass
工		BLFS318	1/2"	Ball Lock, Brass
шe	TO SER	Part No.	I.D.	Description
	30072711C			

٥	W/////	Part No.	I.D.	Description
; Stem	70.000 (A)	FS326	3/8"	Brass
		BLFS326	78	Ball Lock, Brass
4 ! Hose		FS328	1/2"	Brass
		BLFS328	72	Ball Lock, Brass

et		Part No.	FPT	Description
ock St		FS300	1/4"	Brass
S/N	No No	BLFS300	1/4"	Ball Lock, Brass

BI.D. Description Part No. FS306P Brass 3/8" BLFS306P Ball Lock, Brass FS308P Brass 1/2" BLFS308P Ball Lock, Brass Hose clamps not required when used with "Push On" hose. See page 63.

בַּ	H.TZOO	Part No.	I.D.	Description
<u> </u>	() () () () () () () () () ()	FS316P	3/8"	Brass
St	**************************************	BLFS316P	78	Ball Lock, Brass
P _U	Hose	FS318P	1/2"	Brass
8 운		BLFS318P	72	Ball Lock, Brass
96 H	Hose clamps not requ	ired when use	d with "Push On	hose. See page 63.

	O	Part No.	I.D.	Description
-On	ush- e Ste	FS326P	3/8"	Brass
_		BLFS326P		Ball Lock, Brass
5° P _l Hose		FS328P		Brass
45 H		BLFS328P		Ball Lock, Brass
	Hose clamps not requ	ired when use	d with "Push On'	hose. See page 63.

FJT 3/8" Series One Way Valved Sockets

		Part No.	I.D.	Description	
မွ	**************************************	FS306V	3/8"	Brass	
<u>80</u>	(C. N. 11 (1990) (MA)	BLFS306V	78	Ball Lock, Brass	
t Hose		FS308V		Brass	
Straigh Ste	916	BLFS308V	1/2"	Ball Lock, Brass	
	Hose clamps not required when used with "Push On" hose. See page 63.				

	00	Part No.	I.D.	Description
se	D, VIII	FS316V	3/8"	Brass
유	WV800W	BLFS316V	/8	Ball Lock, Brass, Valved
St		FS318V		Brass
)6		BLFS318V	1/2"	Ball Lock, Brass, Valved

	W. 22	Part No.	I.D.	Description
		FS326V	3/8"	Brass
Se	200	BLFS326V	78	Ball Lock, Brass, Valved
5° Hose Stem		FS328V		Brass
45° S	And the second	BLFS328V	1/2"	Ball Lock, Brass, Valved

Socket w/o Stem		Part No.	FPT	Description
	W M CW	FS300V	1/4"	Brass Valved
	ICS I.	BLFS300V		Ball Lock, Brass, Valved

		Part No.	I.D.	Description		
em	FS306VP	3/8"	Brass			
Ste	CANADA WE	BLFS306VP	78	Ball Lock, Brass		
aig C		FS308VP		Brass		
Stra Push-C	Stra Push-O	BLFS308VP	1/2"	Ball Lock, Brass		
	Hose clamps not required when used with "Push On" hose. See page 63.					

		Part No.	Body x I.D.	Description	
OE	HINE CO.	FS316P	3/8" x 3/8"	Brass	
in-	Push-Onose Stem	BLFS216P	1/4" x 3/8"	Ball Lock, Brass	
sn,		FS318P	3/8" x 1/2"	Brass	
		BLFS316P	3/8" x 3/8"	Ball Lock, Brass	
96 94	BLFS516P	1/2" x 3/8"	Ball Lock, Brass		
	Hose clamps not required when used with "Push On" hose. See page 63.				

	0751	Part No.	Body x I.D.	Description
_	Mileses and	FS326VP	3/8"	Brass
ŌĘ	W/460	BLFS326VP	/8	Ball Lock, Brass, Valved
냕랋		FS328VP		Brass
45° Pus Hose §	45° Push-Or Hose Stem	BLFS328VP	1/2"	Ball Lock, Brass, Valved
Hose clamps not required when used with "Push On" hose. See page 63.				

Non-Standard Product Standard Product

MURDOCK Sales@MurdockIndustrial.com Phone: 330-535-7105 Skype: www.eMurdock.com Fax: 330-535-1125 Murdock

MurdockIndustrial



(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

FJT 3/8" Series Two Way (Valved) Sockets

	1 1 3(0) 1 7 6 , 50	Part No.	Body x I.D.	Description
ht em		FS306V2	3/8"	Brass
raig e St	N N N N N N N N N N N N N N N N N N N	BLFS306V2	, ,	Ball Lock, Brass
SE Hos	Hos Hos	FS308V2	1/2"	Brass
		BLFS308V2	/-	Ball Lock, Brass

B	Part No.	I.D.	Description	
, Ste	90° Hose Stem	FS316V2	3/8"	Brass
90°		BLFS316V2	3/8"	Ball Lock, Brass, Two Way Valved
))		FS318V2	1/2"	Brass
Ť		BLFS318V2	1/2"	Ball Lock, Brass, Two Way Valved

		Part No.	I.D.	Description
e B e e e e e e e e e e e e e e e e e e	FS326V2	3/8"	Brass	
Ste		BLFS326V2	78	Ball Lock, Brass, Two Way Valved
Hose	FS328V2		Brass	
	BLFS328V2	1/2"	Ball Lock, Brass, Two Way Valved	

o/v	Part No.	FPT	Description
se Ste	FS300V2	1/4"	Brass
Soci Hos	BLFS300V2	1/4"	Ball Lock, Brass,

_		Part No.	I.D.	Description	
ان د	Stem Stem	FS306VP2	3/8"	Brass	
Pusl Ster		BLFS306VP2	78	Ball Lock, Brass, Two Way Valved	
ight lose		FS308VP2	1/2"	Brass	
Straight Hose		BLFS308VP2	/2	Ball Lock, Brass, Two Way Valved	
	Hose clamps not required when used with "Push On" hose. See page 63.				

_ _	Hose Stem	Part No.	I.D.	Description	
O E		FS316VP2	3/8"	Brass	
S		BLFS316VP2	78	Ball Lock, Brass, Two Way Valved	
Pu		FS318VP2	1/2"	Brass, Two Way Valved	
e E		BLFS318VP2	/2	Ball Lock, Brass, Two Way Valved	
6	"Hose clamps not required when used with "Push On" hose. See page 63.				

=	Part No.	I.D.	Description		
Ster	45° sh-On Stem	FS326VP2	3/8"	Brass	
5° On S		BLFS326VP2		Ball Lock, Brass, Two Way Valved	
4 5-4		FS328VP2	1/2"	Brass	
Push	BLFS328VP2		Ball Lock, Brass, Two Way Valved		
	Hose clamps not required when used with "Push On" hose. See page 63.				

FJT 3/8" Series High Flow Straight-Thru Sockets

J	STER MEG. SPRINGED	Part No.	I.D.	Description
raight se Sten		FS308HF	1/2"	Brass
St		BLFS308HF	1/2"	Ball Lock, Brass

em	FJI Street	Part No.	I.D.	Description
° Ot		FS318HF	14"	Brass
H ₀	Hose	BLFS318HF	1/2"	Ball Lock, Brass

و <u>بر</u>		Part No.	FPT	Description
set w	100 AAT 744	FS300HF		Brass High Flow
Sock	UCST1	BLFS300HF	³ /8"	Ball Lock, Brass, High Flow

Ē	FJT 300 BENGELLA, E	Part No.	I.D.	Description
t Push-On e Stem		FS308HFP	1/2"	Brass High Flow
Straigh Hos		BLFS308HFP	72	Ball Lock, Brass, High Flow
	Hose clamps not requ	ired when used	with "	Push On" hose. See page 63.

ٿ د	1.1 78.1 10 1.176, 13.1 1.7161.0, W.	Part No.	I.D.	Description		
ush-(e Ster		FS318HFP	1/2"	Brass High Flow		
90° P Hos		BLFS318HFP	72	Ball Lock, Brass, High Flow		
	Hose clamps not required when used with "Push On" hose. See page 63.					

Non-Standard Product		Standard Product
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፣ industrial





(Interchange with DME, Jiffy-Tite, Jiffy-Matic, Parker Moldmate)

FJT ½" Series - Plugs

ale ad		Part No.	FPT	Description
hre	FP554F	1/2"	Steel	
E F	FP556F	3/4"	Sidel	

o p		Part No.	MPT	Description
Male Threa	FP554	1/2"	Dress	
	FP556	3/4"	Brass	

	Part No.	Pipe Size	Description
Male Extension Plug	FP554X	1/2"	Call with length, material, and thread requirements Lengths available: 2.5" - 13" To Order: Add length to part number: i.e. FP251x2.5

FJT ½" Series Straight-Thru Sockets

ر	FATSIO IN TEXT OF COM-	Part No.	I.D.	Description
jht item		FS504	1/2"	Brass
raic se S	Straig Hose Si	BLFS504	/2	Ball Lock, Brass
R S		FS506	3/4"	Brass
		BLFS506	9/4"	Ball Lock, Brass

	FUTZOO BINES (O)	Part No.	I.D.	Description		
sh-On		FS504P	1/2"	Brass		
Pusl Ster		BLFS504P	/2	Ball Lock, Brass		
ight lose	1	FS506P	3/4"	Brass		
Strai H		BLFS506P	74"	Ball Lock, Brass		
	Hose clamps not required when used with "Push On" hose. See page 63.					

Part No.	I.D.	Description
FS514	1/2"	Brass
BLFS514	1/2"	Ball Lock, Brass
FS516	3/4"	Brass
BLFS516	3/4"	Ball Lock, Brass
	FS514 BLFS514 FS516	FS514 ½" BLFS514 ½" FS516 34"

5	III 1200	Part No.	I.D.	Description
o e	Push-O	FS514P	1/2"	Brass
등장		BLFS514P	72	Ball Lock, Brass
Pu		FS516P	2	Brass
° OS Harris and the second sec	BLFS516P	3/8"	Ball Lock, Brass	
6	Hose clamps not requ	uired when used with "Push On" hose. See page 63		

n	50-20	Part No.	I.D.	Description
;° Stem		FS524	1/2"	Brass
45° Hose S		BLFS524	1/2"	Ball Lock, Brass
		FS526	3/4"	Brass
		BLFS526	3/4"	Ball Lock, Brass

	0	Part No.	I.D.	Description	
e o	2007/2000/2 2007/2000/2000	FS524P	17.11	Brass	
St	5	BLFS524P	1/2"	Ball Lock, Brass	
Pl See	P. Se	FS526P	3.44	Brass	
45° P Hos	100	BLFS526P	3/4"	Ball Lock, Brass	
	Hose clamps not required when used with "Push On" hose. See page 63.				

<i>o</i> / _w		Part No.	FTP	Description
ket w e Ste	Socket w Hose Ste	FS500	17.11	Brass
Soc		BLFS500	1/2"	Ball Lock, Brass

See page 144 for full size templates

Features:

- Greater durability than other recoil hoses due to exceptional wear characteristics
- Longer life expectancy due to kink resistant properties
- Superior recoil memory due to elastic properties
- · Pre-assembled and ready to use

Specifications:

Construction: Yellow polyurethane recoil hose with reusable brass fitting ends Inlet end includes in-line brass swivel fitting

Working Length: 80-90% of hose length

Polyurethane Recoil Hose Benefits:

- · Greater durability than Nylon or Hytrel recoil hoses due to exceptional wear characteristics
- Longer life expectancy due to kink resistant properties
- Superior recoil memory due to elastic properties
- Working length is approximately 80-90% of hose length
- Hoses are pre-assembled with reusable brass fittings reducing assembly time
- 5/32" ID hose is ideal for use with Foster blow guns

Temperature Range: -40°F to +125°F Rated Pressure: 125 psig @ 75°F

Options: Available in Transparent Blue & Yellow

Fully Assembled and Ready to Use Configurations with and without DW-Series Universal Sockets Includes Swivel NPT Fitting End Pre-Installed with Thread Compound 15' and 25' Lengths

Foster Polyurethane Recoil Hose has greater durability than other types of hose due to exceptional wear characteristics. Polyurethane Recoil Hose is kink resistant and has exceptional memory characteristics due to elastic properties of the polyurethane hose. Hoses are pre-assembled with reusable brass fittings for reduced assembly time.

Two assembly configurations include Foster DW Series Universal Sockets ready for connection to air tools or other accessories. The Foster Polyurethane Recoil Hose products are pre-bagged for convenience. Ideally suited as counter sale products.



		Part No.	Body Size x I.D. x Length	Description
Polyurethane Recoil Hose T=Transparent Blue, Y=Yellow		FPR532-10B-T	⁵ / ₃₂ " x ¹ / ₄ "	Blue, Rigid x Swivel
		FPR532-10B-Y	x 10 Ft.	Yellow, Rigid x Swivel
	FPR14-15A-T	¹ / ₄ " x ³ / ₈ "	Blue, Rigid x Swivel	
		FPR14-15A-Y	x 15 Ft.	Yellow, Rigid x Swivel
	78	FPR14-25A-T	¹ / ₄ " x ³ / ₈ "	Blue, Rigid x Swivel
etha spar		FPR14-25A-Y	x 25 Ft.	Yellow, Rigid x Swivel
olyurethane ==Transparent		FPR38-15A-T	³ /8" x ⁹ /16"	Blue, Rigid x Swivel
Pol		FPR38-15A-Y	x 15 Ft.	Yellow, Rigid x Swivel
	, (O)	FPR38-25A-T	³ /8" x ⁹ /16"	Blue, Rigid x Swivel
		FPR38-25A-Y	x 25 Ft.	Yellow, Rigid x Swivel

Polyurethane Hose

Hytrel Hose





Hytrel Hose Assemblies

Hytrel Recoil Hose Benefits:

- Impervious to oil, very abrasion resistant
- · Recoil memory superior to Nylon
- Working length is approximately 60% of hose length

• Coiled length is 1/30th of hose length **Temperature Range:** -40°F to +125°F Rated Pressure: 170 psig @ 76°F

Options:

Color - Light Blue (Suffix - B) and Yellow (Suffix Y for Yellow)

Available in 100' lengths

el Hose	Part No.	Hose Size	Description
	FR25*-100	1/4"	Wound as 3-3/4" Dia. Loop
Hyte ecoil	FR38*-100	3/8"	Wound as 5-3/4" Dia. Loop
Re	FR50*-100	1/2"	Wound as 8" Dia. Loop

Assemblies GS		Part No. Blue	Part No. Yellow	Hose Size	Length
뎓		FR25-6MB	FR25-6MY		6 FT
sen		FR25-12MB	FR25-12MY	1/4"	12 FT
As:		FR25-25MB	FR25-25MY	74	25 FT
	Male FTGS	FR25-50MB	FR25-50MY		50 FT
de la		FR38-6MB	FR38-6MY	3/8"	6 FT
		FR38-12MB	FR38-12MY		12 FT
coil W(2)		FR38-25MB	FR38-25MY	78	25 FT
Re	Hytrel Recoil	FR38-50MB	FR38-50MY		50 FT
<u>le</u>		_	FR50-12MY		12 FT
 		_	FR50-25MY	1/2"	25 FT
		_	FR50-50MY	i	50 FT

Hytrel Recoil Hose Assemblies W/(2) Swivel FTGS		Part No. Blue	Part No. Yellow	Hose Size	Length
lqu		FR25-6SB	FR25-6SY		6 FT
ser		FR25-12SB	FR25-12SY	1/4"	12 FT
Ass rgs		FR25-25SB	FR25-25SY	/4	25 FT
e /	W/(2) Swivel FTGS	FR25-50SB	FR25-50SY		50 FT
405 Mive		FR38-6SB	FR38-6SY		6 FT
ii }	PARTIE MARCOL DE DE PRODUCTION	FR38-12SB	FR38-12SY	3/8"	12 FT
)/(Z		FR38-25SB	FR38-25SY	/8	25 FT
Re _		FR38-50SB	FR38-50SY		50 FT
rel		_	FR50-12SY		12 FT
 		_	FR50-25SY	1/2"	25 FT
		_	FR50-50SY		50 FT



olies		Part No. Blue	Part No. Yellow	Hose Size	Length
emk		FR25-6LB	FR25-6LY		6 FT
Ass GS	Hose Assemblies Elbow FTGS	FR25-12LB	FR25-12LY	1/4"	12 FT
se /		FR25-25LB	FR25-25LY	74	25 FT
운임		FR25-50LB	FR25-50LY		50 FT
coil W(2)		FR38-6LB	FR38-6LY		6 FT
Re v	Hytrel Recoil W(2) (FR38-12LB	FR38-12LY	3/8"	12 FT
/tre		FR38-25LB	FR38-25LY	/8	25 FT
Į		FR38-50LB	FR38-50LY		50 FT

olies		Part No. Blue	Part No. Yellow	Hose Size	Length
emp	FR25-6FB	FR25-6FY		6 FT	
Ass	Blue Hytrel Recoil Hose Assemblies W/(2) Female FTGS	FR25-12FB	FR25-12FY	1/"	12 FT
lose e FTG		FR25-25FB	FR25-25FY	1/4"	25 FT
oil H		FR25-50FB	FR25-50FY		50 FT
Rec N/(2) F		FR38-6FB	FR38-6FY	2	6 FT
/trel		FR38-12FB	FR38-12FY		12 FT
Blue Hy		FR38-25FB	FR38-25FY	3/8"	25 FT
		FR38-50FB	FR38-50FY		50 FT

Hytrel Hose Fittings



NPT	Basi	Part No.	Hose Size x NPT Thread	Description
l Recoil ys - Male MPT		FR25M	½" x ½"	
lytrel Rittings	AAAAAAAA	FR38M	³ /8" x ³ /8"	Kit
H Hose Fi		FR50M	½" x ½"	

ngs Male NPT		Part No.	Hose Size x NPT Threa	Description
rtrel Recoil nt Hose Fittings nder Pressure, Male I		FR25S	½" x ½"	
Hytrel Reght Hose	lytrel Recoil jht Hose Fitti Under Pressure,	FR38S	³ /8" x ³ /8"	Kit
Hyti Straight Free Swivel Und	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	FR50S	½" x ½"	

	Part No.	Hose Size x NPT Thread	Description
Hytrel Recoil ow Hose Fittings ^{Male NPT}	FR25L	¹ /4" x ¹ /4"	Kit
Hytr Elbow H	FR38L	³ /8" x ³ /8"	M

il ttings	Part No.	Hose Size x NPT Thread	Description
ytrel Recoil ht Hose Fittir Female NPT	FR25F	½" x ½"	Kit
Hyt Straight Fe	FR38F	³ /8" x ³ /8"	NI



Blow Guns & Accessories



Handy-Air® Blow Guns & Accessories

		Part No.	Description
þ		BG2L-30P	Pressed – Standard Tip
Lever Derated	-1	BG2L-30STP	Pressed – Safety Tip
O		BG2L-30STT	Threaded – Safety Tip
		BG2L-30T	Threaded – Standard Tip
		BG2-30P	Pressed - Standard Tip
Button Operated		BG2-30STP	Pressed – Safety Tip
But Oper		BG2-30STT	Threaded – Safety Tip
		BG2-30T	Threaded – Standard Tip
Grip Gun	H	PG2P	Pressed – Safety Tip
Pistol Grip Blow Gun		PG2T	Threaded – Safety Tip

		Part No.
	Extension (10")	EX10DH
ories	Extension (12")	EX12
Blow Gun Accessories	High Flow Safety Nozzle	EX2
w Gun		EX2RT
Blo	Rubber Tip	EX2RT-104 w/Silicone Seal
		EX2ST
	Safety Air Screen Tip	

Non-Standard Product Standard Product

Blow Gun Kits



BG-KIT-F1 – The versatile Foster blow gun kit BG-KIT-F1 contains three of the most popular nozzles for industrial and automotive uses as well as a 1/4" standard plug for easy air hose connection. This kit includes a high quality, lever-operated heavy duty blow gun featuring a quick disconnect coupler which allows users to switch nozzles quickly and easily. Also included are a high flow safety nozzle, six inch extension safety nozzle, rubber tip nozzle and quick connector plug for connecting blow gun to shop air supply. The kit comes ready for hanging display in a clear clamshell package.



BG-KIT-F2 – The Foster BG-KIT-F2 contains five of the most popular nozzles for industrial and automotive uses. This kit includes a high quality, lever-operated heavy-duty blow gun featuring a quick disconnect coupler which allows users to switch nozzles quickly and easily. This multi-use kit also contains a high flow safety nozzle, six inch extension safety nozzle, rubber tip nozzle, needle tip nozzle, and air-screen safety nozzle. For handy storage, a clear vinyl compartmented snap pouch is included.

Note: Foster approved components (May be imported)

www.zci.foctor.com

Reusable Hose Fittings

Non Swivel Adapters

_		Part No.	I.D. x O.D.	Description
MPT Swivel	883	1B3	1/4" x 1/2"	
1/8" Non S	(B)	1B5	¹ /4" x ⁹ /16"	Brass
2		1B7	½" x ½"	

		Part No.	I.D. x O.D.	Description
		2B3	1/4" x 1/2"	
		2B5	1/4" x 9/16"	Brass
		2B7	1/4" x 5/8"	
	.g=8ELEO,	2B7S/S	/4 X /8	303 Stainless
1/4" MPT Non Swivel		2C5	⁵ /16" X ⁹ /16"	
₽ wi	1 5	2C7	⁵ /16" x ⁵ /8"	
- S		2D7	3/8" x 5/8"	
¹ √ Io	5.8	2D9	³ /8" X ¹¹ / ₁₆ "	
_		2D11	³ /8" x ³ /4"	Brass
	2D13	³ /8" X ¹³ / ₁₆ "	DIASS	
	2P13	¹ /2" X ¹³ / ₁₆ "		
	2P15	1/2" x 7/8"		
		2P17	¹ /2" X ¹⁵ /16"	
		2P19	½" x 1"	

		Part No.	I.D. x O.D.	Description
	W 1	4B3	1/4" x 1/2"	
		4B5	1/4" x 9/16"	
_	83	4B7	1/4" x 5/8"	
3/8" MPT Non Swivel		4D7	3/8" x 5/8"	
SE		4D9	³ /8" X ¹¹ / ₁₆ "	
"%"	1000	4D11	3/8" x 3/4"	Brass
" ž	1 1000	4D13	³ /8" X ¹³ / ₁₆ "	
		4P13	¹ /2" X ¹³ /16"	
		4P15	1/2" x ⁷ /8"	
		4P17	¹ /2" X ¹⁵ /16"	
		4P19	½" x 1"	

		Part No.	I.D. x O.D.	Description
	20.	6D7	3/8" x 5/8"	
_ le		6D9	³ /8" X ¹¹ /16"	
MPT Swivel		6D11	3/8" x 3/4"	
- S		6D13	³ /8" X ¹³ / ₁₆ "	Deece
1/2" Non S	Sua	6P13	¹ /2" X ¹³ / ₁₆ "	Brass
		6P15	1/2" x 7/8"	
		6P17	¹ /2" X ¹⁵ /16"	
		6P19	¹ / ₂ " x 1"	

Non-Standard Product Standard Product

Swivel Under Pressure Adapters

 sure	14- E - 15	Part No.	I.D. x O.D.	Description
Swive der Pres		2B3MS	¹ /4" x ¹ /2"	
1/4" MPT Swivel Free Swivel Under Pressure	PASTER	2B5MS	¹ /4" x ⁹ / ₁₆ "	Brass
1/4' Free Sv		2B7MS	¹ / ₄ " x ⁵ / ₈ "	

sure	Part No.	I.D. x O.D.	Description
Wive are Pres	4D7MS	³ /8" x ⁵ /8"	
/8" MPT Swivel Swivel Under Pressure	4D9MS	³ /8" X ¹¹ /16"	Dress
	4D11MS	³ /8" x ³ /4"	Brass
Free	4D13MS	³ /8" X ¹³ /16"	

saure	Part No.	I.D. x O.D.	Description
wive ar Pres	6P13MS	¹ /2" X ¹³ / ₁₆ "	
1/2" MPT Swivel Swivel Under Pressure	6P15MS	1/2" x 7/8"	Desce
Swivel	6P17MS	¹ /2" X ¹⁵ /16"	Brass
Free	6P19MS	½" x 1"	

Female Swivel w/Nut

		Part No.	I.D. x O.D.	Description
(0		1B3-S	1/4" x 1/2"	
vel N		1B5-S	1/4" X ⁹ /16"	
Wiv	R R	1B7-S	¹⁄₄" x ⁵⁄8"	
S &		1C5-S	⁵ /16" x ⁹ /16"	
Nut	2811	1C7-S	⁵ / ₁₆ " x ⁵ / ₈ "	Brass/Steel
Female Swivel		1D7-S	3/8" x 5/8"	
T Š	L ž	1D9-S	³ /8" x ¹¹ / ₁₆ "	
		1D11-S	3/8" x 3/4"	
		1D13-S	³ /8" x ¹³ / ₁₆ "	

		Part No.	I.D. x O.D.	Description
E G		2B3-S	1/4" x 1/2"	
wi ⁻ -18	208	2B5-S	1/4" x 9/16"	
ა - 1 ა		2B7-S	1/4" x 5/8"	
Female Swivel No. 2 Nut – 5/8-18 NF		2D7-S	3/8" x 5/8"	Brass/Steel
en o. 2	No. 2 Nut-	2D9-S	³ /8" X ¹¹ / ₁₆ "	
Шž		2D11-S	3/8" x 3/4"	
		2D13-S	³ /8" X ¹³ /16"	
			, ,	



Reusable Hose Fittings



Female Swivel w/Nut (Continued)

Part No. I.D. x O.D. **Description** 5B3-S 1/4" x 1/2" Female Swivel No. 5 Nut – 1/4-18 NPS 5B5-S 1/4" x 9/16" 5B7-S ¹⁄₄" x ⁵⁄8" 5C5-S ⁵/16" x ⁹/16" 5C7-S ⁵∕16" x ⁵∕8" Brass/Steel 5D7-S 3/8" x 5/8" 5D9-S $^{3}/_{8}$ " x $^{11}/_{16}$ " 5D11-S 3/8" x 3/4" 5D13-S $^{3}/_{8}$ " x $^{13}/_{16}$ "

Swivel	Part No.	I.D. x O.D.	Description
Swi /8-18	8D7-S	3/8" x 5/8"	
a la	8D9-S	³ /8" X ¹¹ / ₁₆ "	Brass/Steel
8 Nut –	8D11-S	³ /8" x ³ /4"	brass/Steer
Ř Ö	8D13-S	³ /8" X ¹³ / ₁₆ "	

rel NPS		Part No.	I.D. x O.D.	Description
Swivel	FINCE	10P13-S	¹ /2" X ¹³ /16"	
male S	Eld	10P15-S	½" x ½"	Drago (Charl
eme 10 N		10P17-S	¹ /2" X ¹⁵ /16"	Brass/Steel
No.		10P19-S	½" x 1"	

Male Adapter for Female Swivel

pter		Part No.	Size	Description
Swivel Adapter 1 Nut – %e-20 NS		1-2M	1/4"	Brass
Female S	Female Sw No. 1 Nut	1-3M	³ /8"	חומסס

pter	Part No.	Size	Description
Female Swivel Adapter No. 5 Nut – ¼-18 NPS	5-2M	1/4"	Brass

pter	Part No.	Size	Description
e Swivel Adapter 10 Nut – ½-14 NPS	10-3M	³ /8"	Droop
Female S No. 10 N	10-4M	1/2"	Brass



"Push On" Hose & Fittings

Features:

- "Push-On" fittings do not require hose clamps. Hose grips barb through distortion of braid. Forms leak proof grip with "Push-On" fitting. "Push-On" hose used with standard barbed fittings requires hose clamp.
- For shop air, pneumatic tools, petroleum base hydraulic oils, anti-freeze compounds, gasoline, water, lubricating oils and diesel fuels.

Construction:

Foster "Push-On" hose is constructed with a synthetic rubber tube, fiber braid reinforcement and a synthetic rubber cover, resistant to abrasion, oil

Temperature range: -40° to +212°F.

Push-On Hose

		Part No.	Size	Description
ose		PO25	¹ / ₄ " x ⁹ / ₁₆ "	Fiber Braid Reinforced Synthetic Rubber
Bulk Hose		PO38	³ /8" X ¹¹ / ₁₆ "	Fiber Braid Reinforced Synthetic Rubber
m		PO50	¹ /2" X ¹³ / ₁₆ "	Fiber Braid Reinforced Synthetic Rubber
	Note: When used with Push-	On fittings	hose clamp	s are not required

Brass Nipples

es es	Part No.	Male NPT x Male NPT
Brass Hex Nipples	1M1M	1/8" x 1/8"
	1M2M	1/8" x 1/4"
	2M2M	1/4" x 1/4"
	2M3M	1/4" x 3/8"
	3M3M	3/8" x 3/8"
as as	3M4M	3/8" x 1/2"
<u>—</u>	4M4M	1/2" x 1/2"
	6M6M	³ / ₄ " x ³ / ₄ "

Brass Splicers

		Part No.	I.D. x O.D.
e	+ 6	HS-B3	1/4" x 1/2"
<u>:</u>		HS-B5	1/4" x 9/16"
Sp	e Splicer	HS-B7	1/4" x 5/8"
a)		HS-D7	3/8" x 5/8"
Hose		HS-D9	³ /8" X ¹¹ / ₁₆ "
I	\$ 30 × 3	HS-D11	³ /8" x ³ /4"
		HS-D13	³ /8" X ¹³ /16"

	Part No.	ID x ID			
	PHS82	½" x ½"			
	PHS84	³ /8" x ³ /8"			
	PHS85	½" x ½"			
ose clamps not required when used with "Push					

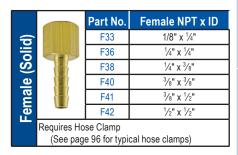
Hose clamps	not required when used with "Push
On" hose.	(shown above).

	Barbed Insert	Part No.	ID x ID
ば		BHS81	³ /16" X ³ /16"
us(BHS82	1/4" x 1/4"
-		BHS83	⁵ ∕16" x ⁵ ∕16"
pe		BHS84	3/8" x 3/8"
3ar		BHS85	1/2" x 1/2"
	Requires Hose (See page 9	Clamps 6 for typical h	nose clamps)

(1 0)1					
Push-On Swivel Fitting	Part No.	Male NPT x ID			
	18/12	PM7S	1/4" x 1/4"		
		PM13S	³ /8" x ³ /8"		
		PM17S	½" x ½"		
S		s not required " hose (show	d when used with n above)		

		Part No.	Male NPT x ID
	Male Push-On Fitting	PM3	1/8" x 1/4"
g		PM5	1/8" x 3/8"
畫		PM7	1/4" x 1/4"
Œ		PM9	1/4" x ³ /8"
Ö		PM11	1/4" x 1/2"
ځ		PM13	3/8" x 3/8"
Sn		PM14	³ /8" x ¹ /2"
<u>а</u>		PM16	1/2" x 3/8"
a		PM17	1/2" x 1/2"
Σ		PM19	1/2" x 3/4"
		not required w hose. See pa	hen used with ge 63.

		Part No.	Male NPT x ID
		M1	1/8" x 1/8"
		M2	1/8" X 3/16"
		М3	1/8" x 1/4"
		M4	¹∕8" x ⁵∕16"
ng		M5	1/8" x 3/8"
Ħ	1	M6	¹ / ₄ " x ³ / ₁₆ "
區		M7	1/4" x 1/4"
E		M8	¹⁄4" x ⁵∕16"
St	ž 📳	M9	1/4" x 3/8"
ė,		M11	1/4" x 1/2"
Male Hose Stem Fitting		M12	3/8" X 1/4"
4		M13	3/8" x 3/8"
<u>a</u>		M14	3/8" x 1/2"
≥		M16	1/2" x 3/8"
		M17	½" x ½"
		M19	1/2" x 3/4"
		M22	³ / ₄ " x ³ / ₄ "
	Requires Hos (See page		hose clamps)



(pu		Part No.	Female NPT x Hose ID		
(Ball End)		SB55	1/4" x 1/4"		
(B2		SB57	1/4" x 3/8"		
Female (SB58	³ /8" x ³ /8"		
Requires Hose Clamp (See page 96 for typical hose clamps)					

E		Part No.	Size
Male Hose Stem Swivel	1475	M7S	1⁄4" MPT x 1⁄4" ID STEM
		M13S	3/8" MPT x 3/8" ID STEM
		M17S	½" MPT x ½" ID STEM
Σ	Hose clamps not required when used with "Push On" hose. See page 63.		

Foster Engineering Catalog

M U R D O C K Sales@MurdockIndustrial.com Phone: 330-535-7105 Skype:

industrial



3-Way Sleeves



3-Way Sleeve w/optional lockout

Features:

- Provides low cost ON-OFF-EXHAUST operation
- Slide the sleeve to the ON position. Exhaust ports are closed, valve is open. Reversing the sleeve, opens exhaust ports, shuts off flow
- Ports covered for protection against exhaust flow
- · Body detent secures sleeve position
- Valve with lockout complies with OSHA Standard 29 CFR, Part 1910

Rated Pressure: to 200 PSIG Temperature: -25° to +200°F



kout	9	Part No.	NPT	Description
Air" Valve Loc	Q	LO250	1/4"	
"Fost-Air" Three Way Sleeve Valve Lockout		LO375	3/8"	Valve Lockout With Chain
Three Wa		LO500	1/2"	

FOSTER® MANUFACTURING COMPANY

Swivel Fittings

4

Foster Swivel Fittings improve maneuverability and ergonomics when using air tools and spray guns. Functioning like a universal joint, swivel fittings allow the hose to remain vertical at all times, which reduces operator fatigue, repetitive motion trauma, and fitting chafe. The non-marring series (plastic encapsulated) is ideal for applications where non-marring and scratch reduction is needed.

Features:

- Steel body (¹/₄" and ³/₈"),
 Aluminum body (¹/₂")
- High flow capacity, low pressure drop
- · More sizes for simplified plumbing
- Plastic encapsulation (non-marring Series)
- 300 PSIG inlet maximum

Benefits:

Swivels 360 degrees in two independent planes



- Allows air hose to hang straight down when used with air tools
- Reduces operator fatigue
- Reduces the possibility of carpal tunnel syndrome
- Increases air hose life.

Maximum Working Pressure:

300 PSIG

Materials of Construction:

Body: Brass and plated steel

Seals: Buna N

vel		Part No.	FPT x MPT	Description
Swivel		25US90	¹ / ₄ " x ¹ / ₄ "	Brass
90°	A	25US90-101	74 X 74	Brass, w/Viton Seal

ale		Part No.	FPT x MPT	Description
Female Se	2012	25US	1/4" x 1/4"	
le to Pig	2503	38US	3/8" x 3/8"	Brass/Steel
Male		50US	1/2" x 1/2"	

	Part No.	FPT x MPT	Description
Brass / St Dual Swiv	25US36	½" x ½"	Brass/Steel

6 —		Part No.	FPT x MPT	Description
arring wivel		190010A	³ /8" x ¹ /4"	041
Non-M Dual S	The second second	190011A	3/8" x 3/8"	Steel
ŽΩ		190012	½" x ½"	Steel/Aluminum

ng el	n-	Part No.	FPT x MPT	Description
larrin Swive	TO 102 CONTROL OF THE PROPERTY	190040	³ /8" x ¹ /4"	041
lon-M Dual S		190041	³ /8" x ³ /8"	Steel
Ž		190042	½" x ½"	Steel/Aluminum

		Part No.	FPT x MPT	Description	
vivel	Standard Swive	190026A	1/4" x 1/4"		
rd Sw		190029A	³ /8" x ¹ /4"	Steel	
anda		190027A	³ /8" x ³ /8"		
ST .	190028	½" x ½"	Steel/Aluminum		
	Without Plastic Covering				

		Part No.	Size
rass 3 Position vivel Tip Nozzle		2STF2-SWVL	3/4"
3ra Wiy	 Used on Power Washers 		
шs	 Get to those hard to reach place being a contortionist! 	es without bending or	
	Note: Foster approved compon	ents (May be imported)	

Non-Standard Product	Standard Product

industrial

CUSHIONED CLAMPING SYSTEMS





CUSHIONED CLAMPING

ZSi-Foster offers a comprehensive line of cushioning clamps – from the original Cush-A-Clamp[®] to the newer Cush-A-Nator®. There is a ZSi-Foster solution to cushion shock, vibration, noise and temperature.

CUSH-A-NATOR® (See Pages 68 - 70)

The Cush-A-Nator® is the newest breakthrough in cushioned clamping. It offers the user with an option for the highest temperature range of any cushion clamp on the market -65°F to 340°F (-53°C to 170°C), or just the advanced features of the superior new design.

The new Cush-A-Nator® features a "thumb drive" tab that simplifies installation.

It is also a perfect solution for retrofit since the clamp can be installed on a pipe that is already resting on the channel support.



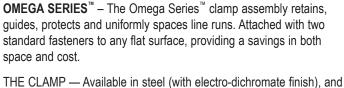
CUSH-A-CLAMP® (See Page 71)

CUSH-A-CLAMP® – channel mounted clamping systems is ideal for multiple line runs. It absorbs shock and vibration, reducing unwanted noise and it prevents galvanic corrosion.

THE CLAMP — This Controlled Squeeze™ design eliminates overtightening and rotation while a nylon-insert nut assures a positive lock. THE CUSHION — Manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. A patented "Living Hinge" allows the cushion to be spread apart for quick, easy installation. Interlock edges and channel locator legs ensure that the cushion remains in place.



OMEGA SERIES™ (See Page 77)



stainless steel.

THE CUSHION — Manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. Interlock edge ensures that the cushion remains in place.

MurdockIndustrial

CUSH-A-CLAW

(See Page 72)





www.eMurdock.com

Cush-A-Claw Grabs on to your Tube, Pipe, or Hose and holds it in place. The unique one piece patent pending design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice TPE Material of some of our other products that you've come to know and trust.

Available for surface mount, or strut mount.

CUSHIONED CLAMPING SYSTEMS



CUSH-A-CLIP

(See Page 73)



Cush-A-Clip is a simple, economical lightweight hanger for supporting tubing. The secure but non-tightening design allows for expansion, greatly reducing joint fractures

CUSH-A-GRIP

(See Page 74)



Cush-A-Grip non-metallic strut clamps allow quick and easy corrosion resitant attachment of pipe, tube, and hose to Z-Strut support channels. They offer a cost effective alternative to metallic clamps.



CUSH-A-STRIP™ is manufactured from a thermoplastic elastomer, Cush-A-Strip[™] is designed for use from -50°F to 275°F.

Cush-A-Strip[™] is designed for use with standard steel clamps ranging from 1/4" tube to 6" pipe and is packaged in 20 Ft. rolls in an E-Z dispenser box.

The special locking lip edges ensure that Cush-A-Strip™ will remain in place with a balanced grip.

 $\mathsf{AIRSTRIP}^{\scriptscriptstyle{\mathsf{T}}}$ (See Page 76)



The AIRSTRIP™ is designed to dampen the noise and vibration that can occur between piping or duct work and the supporting channel. Made from 64 durometer Santoprene, the AIRSTRIP™ is light weight, dependable, and long-lasting.





ALPHA SERIES™ - Designed for the tough jobs, the Alpha Series™ U-Bolt Assembly secures pipe runs to any flat surface. The cushion design provides total load distribution, allowing the U-Bolt to become a full contact hanger, eliminating knife-edge loading.

The U-Bolt traps and secures the cushion in place to prevent lateral movement, while nylon insert locknuts provide a positive lock. Available in electro-galvanized steel or 316 stainless steel.

The Cushion is a thermoplastic elastomer.

Porce-A-Clamp[™] Replaces Porcelain and Maple Cable Clamp. Assembly consists of thermoplastic elastomer cushion with plated or stainless steel clamp. Plated steel and stainless are both supplied with Silicon Bronze bolt and nut used to breakup the magnetic field around the cable at the clamping location.

Porce-A-Clamp[™] offers a convenient alternative to troublesome porcelain since it is made from non-breakable material.

PORCE-A-CLAMP' (See Page 79)

FLAME RETARDANT PRODUCTS

ZSi-Foster offers flame retardant options for many of the clamping products. They are available in two different types of cushion. The Flame Retardant/High Hardness cushion is designed for applications such as wire and cable insulation, electrical connectors, seals, gaskets and boots. The Halogen-Free/Flame Retardant cushions contain an optimal combination of rubbers and thermoplastics reactively combined with non halogenated flame retardant additives.

Flame retardant options are indicated by the logos shown below.





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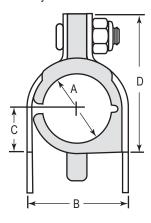




A NEW BREAKTHROUGH IN CUSHIONED CLAMPING DEVELOPED BY INDUSTRY LEADER ZSI



The Cush-A-Nator® cushion is manufactured in the United States and made from a new incredibly durable thermoplastic rubber that resists high heat and provides longer life against vibration fatigue. The Cush-A-Nator is made from a proprietary thermoplastic vulcanized material cross-linked with high performance rubber and thermoplastic elastomers, which produces the highest operating temperature range in the industry.



Patent Pending

The Cush-A-Nator[®] is designed to provide the user with a choice of the highest heat range resistance of any cushion on the market or simply the advanced features of a superior design.

The Cush-A-Nator[®] is designed and manufactured in Michigan.







A Thumb Drive

The Cush-A-Nator® has the exclusive "Thumb Drive" that provides the installer a gripping point to easily open the cushion with the help of leverage tabs and a living hinge. Easy and effortlessly to install.

B Self-Alignment

Cushion can be opened and placed over the pipe or tube and rotated into place while on the channel and automatically aligned with the channel opening ready for clamping.

Installation examples shown on page 8

C Pressure Control

The Cush-A-Nator® cushion has a built in squeeze control as part of the cushion design. The side opening and the squeeze control tab provides evenly distributed pressure around the tube or pipe.

D Complete Clamping Unit

The Cush-A-Nator® is the only strut mounted cushion that is mechanically connected to the supporting steel clamp because the bolt passes through the squeeze control tab forming the single unit connection. This design helps prevent the cushion from excess vibration by being attached directly to the clamp.

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MURDOCK

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Fax: 330-535-7105

Skype: MurdockIndustrial





Cush-A-Nator® "Cool Blue" has service temperatures of -65°F to 340°F (-53°C to 170°C).



Cush-A-Nator® standard has an operating range of -50°F to 275°F (-45°C to 135°C).

Cush-A-Nator® "Cool Blue" - Tube									
Part No.			O.D. Tube	Dimensions (inches)					
Steel	SS304	SS316	Size	Α	В	С	D		
HT04	HT04SS	HT04S6	1/4"	0.25	0.62	0.27	0.98		
HT06	HT06SS	HT06S6	3/8"	0.37	0.82	0.33	1.13		
HT08	HT08SS	HT08S6	1/2"	0.50	0.94	0.40	1.34		
HT10	HT10SS	HT10S6	⁵ /8"	0.62	1.06	0.46	1.54		
HT12	HT12SS	HT12S6	3/4"	0.75	1.20	0.52	1.68		
HT14	HT14SS	HT14S6	⁷ /8"	0.87	1.31	0.58	1.82		
HT16	HT16SS	HT16S6	1"	1.00	1.44	0.65	1.95		
HT18	HT18SS	HT18S6	1 ¹ /8"	1.12	1.57	0.70	2.08		
HT20	HT20SS	HT20S6	1 ¹ / ₄ "	1.25	1.70	0.77	2.21		
HT22	HT22SS	HT22S6	1 ³ /8"	1.37	1.82	0.83	2.34		
HT24	HT24SS	HT24S6	1 ¹ / ₂ "	1.50	1.95	0.90	2.47		
HT26	HT26SS	HT26S6	1 ⁵ /8"	1.62	2.07	0.96	2.60		
HT28	HT28SS	HT28S6	13/4"	1.75	2.20	1.02	2.73		
HT30	HT30SS	HT30S6	1 ⁷ /8"	1.87	2.32	1.09	2.86		
HT32	HT32SS	HT32S6	2"	2.00	2.45	1.15	3.04		
HT34	HT34SS	HT34S6	2 ¹ /8"	2.12	2.57	1.27	3.23		
HT36	HT36SS	HT36S6	2 ¹ / ₄ "	2.25	2.82	1.41	3.67		
HT38	HT38SS	HT38S6	2 ³ /8"	2.37	2.82	1.41	3.67		
HT40	HT40SS	HT40S6	21/2"	2.50	2.94	1.46	3.79		
HT42	HT42SS	HT42S6	2 ⁵ /8"	2.62	3.07	1.53	3.92		
HT46	HT46SS	HT46S6	2 ⁷ /8"	2.87	3.32	1.66	4.17		
HT48	HT48SS	HT48S6	3"	3.00	3.57	1.78	4.42		
HT50	HT50SS	HT50S6	31/8"	3.12	3.57	1.78	4.42		
HT56	HT56SS	HT56S6	31/2"	3.50	3.95	1.97	4.79		
HT64	HT64SS	HT64S6	4"	4.00	4.45	2.28	5.11		
HT66	HT66SS	HT66S6	4 ¹ / ₈ "	4.12	4.57	2.34	5.54		
HT72	HT72SS	HT72S6	4 ¹ / ₂ "	4.50	4.95	2.53	5.92		

Cush-A-Nator [®] Standard - Tube									
	Part No.		O.D. Tube	Din	nensior	ns (inch	es)		
Steel	SS304	SS316	Size	а в с		С	D		
CN04	CN04SS	CN04S6	1/4"	0.25	0.62	0.27	0.98		
CN06	CN06SS	CN06S6	3/8"	0.37	0.82	0.33	1.13		
CN08	CN08SS	CN08S6	1/2"	0.50	0.94	0.40	1.34		
CN10	CN10SS	CN10S6	5/8"	0.62	1.06	0.46	1.54		
CN12	CN12SS	CN12S6	3/4"	0.75	1.20	0.52	1.68		
CN14	CN14SS	CN14S6	⁷ /8"	0.87	1.31	0.58	1.82		
CN16	CN16SS	CN16S6	1"	1.00	1.44	0.65	1.95		
CN18	CN18SS	CN18S6	1 ¹ /8"	1.12	1.57	0.70	2.08		
CN20	CN20SS	CN20S6	1 ¹ / ₄ "	1.25	1.70	0.77	2.21		
CN22	CN22SS	CN22S6	1 ³ /8"	1.37	1.82	0.83	2.34		
CN24	CN24SS	CN24S6	1 ¹ / ₂ "	1.50	1.95	0.90	2.47		
CN26	CN26SS	CN26S6	1 ⁵ /8"	1.62	2.07	0.96	2.60		
CN28	CN28SS	CN28S6	1 ³ / ₄ "	1.75	2.20	1.02	2.73		
CN30	CN30SS	CN30S6	1 ⁷ /8"	1.87	2.32	1.09	2.86		
CN32	CN32SS	CN32S6	2"	2.00	2.45	1.15	3.04		
CN34	CN34SS	CN34S6	21/8"	2.12	2.57	1.27	3.23		
CN36	CN36SS	CN36S6	21/4"	2.25	2.82	1.41	3.67		
CN38	CN38SS	CN38S6	23/8"	2.37	2.82	1.41	3.67		
CN40	CN40SS	CN40S6	21/2"	2.50	2.94	1.46	3.79		
CN42	CN42SS	CN42S6	25/8"	2.62	3.07	1.53	3.92		
CN46	CN46SS	CN46S6	2 ⁷ /8"	2.87	3.32	1.66	4.17		
CN48	CN48SS	CN48S6	3"	3.00	3.57	1.78	4.42		
CN50	CN50SS	CN50S6	3 ¹ / ₈ "	3.12	3.57	1.78	4.42		
CN56	CN56SS	CN56S6	3 ¹ / ₂ "	3.50	3.95	1.97	4.79		
CN64	CN64SS	CN64S6	4"	4.00	4.45	2.28	5.11		
CN66	CN66SS	CN66S6	4 ¹ / ₈ "	4.12	4.57	2.34	5.54		
CN72	CN72SS	CN72S6	4 ¹ / ₂ "	4.50	4.95	2.53	5.92		

Cush-A-Nator® "Cool Blue" - Pipe									
Part No.		Pipe	Din	nes)					
SS304	SS316	Size	Α	В	С	D			
HT14PSS	HT14PS6	1/2"	0.840	1.29	0.58	1.82			
HT17PSS	HT17PS6	3/4"	1.050	1.57	0.70	2.08			
HT21PSS	HT21PS6	1"	1.315	1.76	0.81	2.34			
HT30PSS	HT30PS6	1 ¹ / ₂ "	1.900	2.32	1.09	2.86			
HT38PSS	HT38PS6	2"	2.375	2.82	1.41	3.67			
HT46PSS	HT46PS6	21/2"	2.875	3.32	1.66	4.17			
HT56PSS	HT56PS6	3"	3.500	3.95	1.97	4.79			
HT64PSS	HT64PS6	31/2"	4.000	4.45	2.28	5.11			
HT72PSS	HT72PS6	4"	4.500	4.95	2.53	5.92			
	Part No. SS304 HT14PSS HT17PSS HT21PSS HT30PSS HT38PSS HT46PSS HT56PSS HT64PSS	Part No. SS304 SS316 HT14PSS HT14PS6 HT17PSS HT17PS6 HT21PSS HT21PS6 HT30PSS HT30PS6 HT38PSS HT38PS6 HT46PSS HT46PS6 HT56PSS HT56PS6 HT64PSS HT64PS6	Part No. SS304 SS316 HT14PSS HT14PS6 1/2" HT17PSS HT17PS6 3/4" HT21PSS HT21PS6 1" HT30PSS HT30PS6 11/2" HT38PSS HT38PS6 2" HT46PSS HT46PS6 21/2" HT56PSS HT56PS6 3" HT64PSS HT64PS6 31/2"	Part No. Pipe Size Din A SS304 SS316 A HT14PSS HT14PS6 ½" 0.840 HT17PSS HT17PS6 ¾" 1.050 HT21PSS HT21PS6 1" 1.315 HT30PSS HT30PS6 1½" 1.900 HT38PSS HT38PS6 2" 2.375 HT46PSS HT46PS6 3" 2.875 HT56PSS HT56PS6 3" 3.500 HT64PSS HT64PS6 3½" 4.000	Part No. Pipe Size Dimension SS304 SS316 A B HT14PSS HT14PS6 1/2" 0.840 1.29 HT17PSS HT17PS6 3/4" 1.050 1.57 HT21PSS HT21PS6 1" 1.315 1.76 HT30PSS HT30PS6 1½" 1.900 2.32 HT38PSS HT38PS6 2" 2.375 2.82 HT46PSS HT46PS6 2½" 2.875 3.32 HT56PSS HT56PS6 3" 3.500 3.95 HT64PSS HT64PS6 3½" 4.000 4.45	Part No. Pipe Size Dimensions (inch A B C M B C M B M C M B M B M C M B M B M			

Contact Facto	ry for	Additional	Sizes
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	Cush-A-Nator® Standard - Pipe									
	Part No.		Pipe	Din	Dimensions (inches)					
Steel	SS304	SS316	Size	Α	В	С	D			
CN14P	CN14PSS	CN14PS6	1/2"	0.840	1.29	0.58	1.82			
CN17P	CN17PSS	CN17PS6	3/4"	1.050	1.57	0.70	2.08			
CN21P	CN21PSS	CN21PS6	1"	1.315	1.76	0.81	2.34			
CN30P	CN30PSS	CN30PS6	1 ¹ /2"	1.900	2.32	1.09	2.86			
CN38P	CN38PSS	CN38PS6	2"	2.375	2.82	1.41	3.67			
CN46P	CN46PSS	CN46PS6	21/2"	2.875	3.32	1.66	4.17			
CN56P	CN56PSS	CN56PS6	3"	3.500	3.95	1.97	4.79			
CN64P	CN64PSS	CN64PS6	31/2"	4.000	4.45	2.28	5.11			
CN72P	CN72PSS	CN72PS6	4"	4.500	4.95	2.53	5.92			

Contact Factory for Additional Sizes

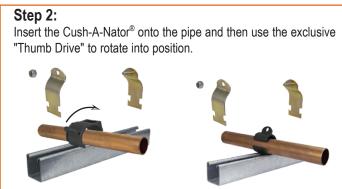
MurdockIndustrial





Cush-A-Nator® - New Installations







Cush-A-Nator® - Retrofit / Replacement Applications

A key feature of the Cush-A-Nator® is this ability to place the cushion and rotate into position. Perfect for retrofit applications!

Retrofit - The Common Problem

Replacing a cush-a-clamp within a long pipe run poses a problem. Clamps before and after the one to be replaced prohibit the pipe from being raised so that the new cushion can be installed correctly. All to often a work-around is used which compromises the connection.

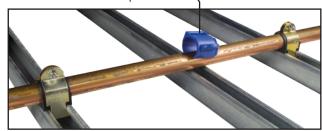
Retrofit - The Perfect Solution

Step 1: Remove Bad Cushion.

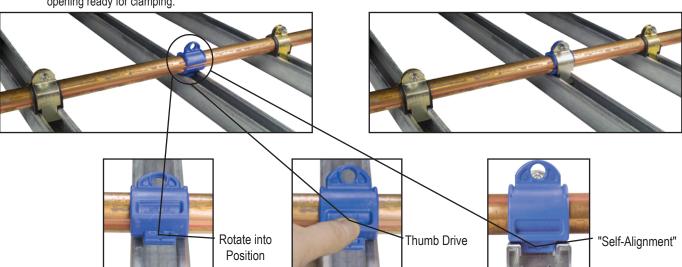


Step 3: Rotated into place while on the channel and the Self-Alignment tab automatically aligns with the channel opening ready for clamping.

Step 2: The Cush-A-Nator can be installed without raising the pipe. The unique "Thumb Drive" allows you to rotate the Cush-A-Nator into position.



Step 3: Add Pipe Clamps and tighten the assembly.









Gold Electro-Galvanized Steel

Stainless Steel

CUSH-A-CLAMP® — Channel mounted clamping systems are ideal for multiple line runs, while absorbing shock and vibration, reducing unwanted noise and preventing galvanic corrosion. Cush-A-Clamp® fits any Controlled Squeeze standard 1-5/8" wide channel. Shoulder Bolt

Assembly consisting of steel clamp with locknut and thermoplastic elastomer cushion. All parts are marked for easy identification and packaged for small lot or bulk use. When specified, Cush-A-Clamp® ↑ C assemblies up to 2", are available individually packaged.

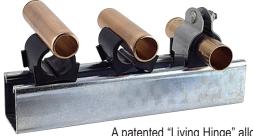
THE CLAMP — Features a unique shoulder stud which is securely fastened to one clamp half. Steel clamps for tube sizes up

to 1-3/8" have the "Controlled Squeeze™" design which eliminates over-tightening and rotation while a nylon-insert nut assures a positive lock. Clamps are available in steel (with electro-dichromate finish), and stainless steel type 304. (Contact factory for type 316).

THE CUSHION — Made from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. Interlock edges and channel locator legs ensure that the cushion remains in place.

INSTALLATION — One man, one tool time savings. Retrofits can be added without disassembly. A patented "Living Hinge" allows the cushion to be spread apart for quick, easy installation on sizes from 1/4" through 1-3/4".

Lo	Loading Values Mounted in Standard 12 Gage Channel.									
Nut	Torque	Duaduata	Pullout	Sli	p (lbs)					
Nut	(in-lbs)	Products	(lbs)	Along	Through					
1/4"	40	004T008 - 022T026	1,000	100	100					
5/16"	60	024T028 - 050N056	2,200	200	200					
3/8"	150	053N050 - 106N114	3,600	600	350					
Load	s are the sa	me for Stainless Steel Cla	amps (Exan	nple 024N	S028)					



A patented "Living Hinge" allows the cushion to be spread apart for quick, easy installation.

	Stainlean	Di	mension "A"		Dim	ensior	ıs (inch	hes)	
Steel Part No.	Stainless- Steel. Part No.	*Copper and Steel Tubing	Copper Water Pipe (Nom.)	Nom. Pipe Size	A	В	С	D	
004T008	004NS008	1/4"	-	-	0.25	0.62	0.27	0.98	
006T010	006NS010	3/8"	1/4"	-	0.37	0.82	0.33	1.13	
008T012	008NS012	1/2"	3/8"	-	0.50	0.94	0.40	1.34	
009N012	009NS012	-	-	1/4"	0.54	0.98	0.43	1.34	
010T014	010NS014	5/8"	1/2"	-	0.62	1.06	0.46	1.54	
011N014	011NS014	-	-	3/8"	0.67	1.13	0.49	1.54	
012T016	012NS016	3/4"	5/8"	-	0.75	1.20	0.52	1.68	
014N018	014NS018	-	-	1/2"	0.84	1.29	0.58	1.82	
014T018	014NS018	7/8"	3/4"	-	0.87	1.31	0.58	1.82	
016T020	016NS020	1"	-	-	1.00	1.44	0.65	1.95	
017N022	017NS022	-	-	3/4"	1.05	1.57	0.70	2.08	
018T022	018NS022	1- ¹ /8"	1"	-	1.12	1.57	0.70	2.08	
020T024	020NS024	1-1/4"	-	-	1.25	1.70	0.77	2.21	
021N026	021NS026	-	-	1"	1.31	1.76	0.81	2.34	
022T026	022NS026	1- ³ /8"	1-1/4"	-	1.37	1.82	0.83	2.34	
024N028	024NS028	1- ¹ /2"	-	-	1.50	1.95	0.90	2.47	
026N030	026NS030	1- ⁵ /8"	1- ¹ /2"	-	1.62	2.07	0.96	2.60	
027N032	027NS032	-	-	1- ¹ /4"	1.66	2.17	0.99	2.73	
028N032	028NS032	1- ³ /4"	-	-	1.75	2.2	1.02	2.73	
030N034	030NS034	1- ⁷ /8"	-	1-1/2"	1.90	2.32	1.09	2.86	
032N036	032NS036	2"	-	-	2.00	2.45	1.15	3.04	
034N040	034NS040	2-1/8"	2"	-	2.12	2.57	1.27	3.23	
038N042	038NS042	2-1/4"	-	-	2.37	2.82	1.41	3.67	
038N044	038NS044	2-3/8"	-	2"	2.37	2.82	1.41	3.67	
040N046	040NS046	2-1/2"	-	-	2.50	2.94	1.46	3.79	
042N048	042NS048	2-5/8"	2-1/2"	-	2.62	3.07	1.53	3.92	
046N052	046NS052	2- ⁷ /8"	-	2-1/2"	2.87	3.32	1.66	4.17	
050N054	050NS054	3"	-	-	3.00	3.57	1.78	4.42	
050N056	050NS056	3-1/8"	3"	-	3.12	3.57	1.78	4.42	
053N060	053NS060	3- ⁵ /16"	-	-	3.31	3.96	1.90	4.75	
056N062	056NS062	3-1/2"	-	3"	3.50	3.95	1.97	4.79	
058N064	058NS064	3-5/8"	3-1/2"	-	3.62	4.20	2.03	5.11	
064N072	064NS072	4"	-	3-1/2"	4.00	4.45	2.28	5.11	
066N074	066NS074	4-1/8"	4"	-	4.12	4.57	2.34	5.54	
069N076	069NS076	4- ⁵ /16"	-	-	4.34	4.96	2.40	5.84	
072N080	072NS080	4-1/2"	-	4"	4.50	4.95	2.53	5.92	
082N090	082NS090	5-1/8"	5"	-	5.12	5.57	2.84	6.54	
089N096	089NS096	-	-	5"	5.56	6.01	3.06	6.92	
096N106	096NS106	6"	-	-	6.00	6.57	3.34	7.54	
098N106	098NS106	6- ¹ /8"	6"	-	6.12	6.57	3.34	7.54	
106N114	106NS114	-	-	6"	6.62	7.07	3.59	8.23	
	*Tube O.D. is C	Sushion I.D.; D	esign load defle	ction data	available	on requ	ıest.		











Surface Mounted

Position	Mount w/Screw	Position Pipe	Snap In		
Side grooves provide Centering guide	Counter-sunk hole allows tightening of any type of #10 fastener				

The Cush-A-Claw Grabs on to your Tube, Pipe, or Hose and holds it in place. The unique one piece patent pending design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice TPE Material of some of our other products that you've come to know and trust.

- Easy Snap-in Installation of Tube, Pipe, or Hose
- · Sure Grip Strut Base easily rotates into strut
- Will not Rust
- Non Conducting
- Saves Time and Money
- Temp Range: -50° to 275° F
- · Works Great Indoors or Outdoors
- · Six Sizes of Tube and Three Sizes of EMT
- Designed for Light Duty Loads and Applications
- · Prevents Galvanic Corrosion of Dissimilar Metals
- · An Excellent Alternative to Steel, Stainless Steel, or Galvanized Clamps.

0	O.D. Tube Size			EMTS Conduit Sizes				
Strut	Surface	S	ize	Strut	Surface	Si	ze	
Mount Part #	Mount Part #.	O.D.	ln.	Mount Part #	Mount Part #.	O.D.	ln.	
CL-04	CLS-04	1/4"	0.250	EMT-1/2	EMTS-1/2	1/2"	0.706	
CL-06	CLS-06	3/8"	0.375	EMT-3/4	EMTS-3/4	3/4"	0.922	
CL-08	CLS-08	1/2"	0.500	EMT-1	EMTS-1	1"	1.163	
CL-10	CLS-10	5/8"	0.625			<u>a</u>		
CL-12	CLS-12	3/4"	0.750		11 770	11		
CL-14	CLS-14	⁷ /8"	0.875		Size Range) (
						z 111		

75 Lbs. Load (safety Factor 3)

CL-18 CLS-18 11/8" 1.125





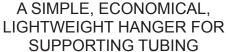
CUSH-A-CLIP



- Manufactured from polyamide alloy
- U.L. Rated

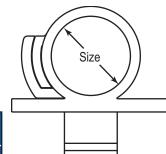
CUSH-A-CLIP, GATOR LOK

- Sizes from ³/₈" to 1½"
- · One piece design makes installation a snap.
- No nuts to tighten, no parts to lose.
- Temperatures from -40°F to 275°F
- · Secure but non-tightening design allows for expansion, greatly reducing joint fractures





Part	1.1	Tube Sizes Only					
Number	O.D.	ln.					
RPC-3/8	3/8"	0.375"					
RPC-1/2	1/2"	0.500"					
RPC-5/8	5/8"	0.625"					
RPC-3/4	3/4"	0.750"					
RPC-7/8	7/8"	0.875"					
RPC-1-1/8	1-1/8"	1.125"					



GATOR-LOK HVAC Terminal Repair Kit

Our patented design was made to be one-of-a-kind with not 1 but 2 layers of "Lok"ing technology. Constructed with 10 gauge, 30 inch copper-wire leads.

- Two layers of "Lok"ing technology
- · No need for tools
- Easily replaces damaged wire leads
- · Installs in under five minutes





Cush-A-GRIP







Multi-size adjustment capability allows four clamp sizes to fit fifteen sizes of tube and pipe. Comes complete with stainless steel bolt and captured nut hardware.

FEATURES

- · Ten sizes of tube, five sizes of pipe
- Diameters from .25" to 1.31" (6mm to 32mm)

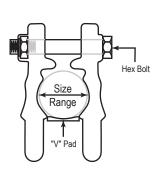
ADVANTAGES

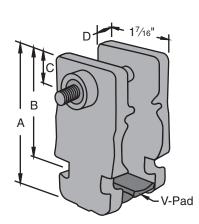
- · Reduces inventory SKU's
- · Simplifies take-offs and requirements on projects using both tube and pipe sizes
- · Easy installation, Non conducting
- · Permissible outdoors
- Temperature range: -40°F to +380°F
- · No galvanic reaction, Will not rust

BENEFITS

- · Lowers overall inventory costs
- · Works with screw or nut driver
- · Resists vibration
- Use in place of steel clamps with steel tube
- Multi-environmental
- · Covers a wide range of applications and maintains thermal barrier
- · For use on copper tube
- · Use in place of stainless, aluminum, PVC or hot dipped galvanized clamps







Part No.		O.D. Tube Sizes		Pipe Sizes	Metric Sizes	Diameters (in)
CG-10	1/4"	3/8"	1/2"	1/4"	6mm – 14mm	0.25 - 0.54
CG-20	5/8"	3/4"	7/8"	3/8" - 1/2"	15mm – 22mm	0.62 - 0.87
CG-30	7/8"	1"	1-1/8"	3/4"	22mm – 28mm	0.87 – 1.12
CG-40	1"	1-1/8"	1-1/4"	3/4" – 1"	26mm – 32mm	1.00 – 1.31

Part	Nominal		Hex Head			
No.	Pipe Size	"A"	"B"	"C"	"D"	Cap Screw & Lock Nut
CG-10	1/4"	1- ¹⁵ /16"	1-3/8"	3/8"	3/16"	1/4"-20 x 1-1/2"
CG-20	3/8"	2-3/8"	1- ⁵ /8"	⁷ /16"	1/4"	1/4"-20 x 2"
CG-30	1/2"	2-9/16"	1- ¹³ / ₁₆ "	7/16"	5/16"	1/4"-20 x 2"
CG-40	3/4"	2- ¹¹ /16"	1- ¹⁵ /16"	⁷ / ₁₆ "	⁵ /16"	¹ /4"-20 x 2"



- Manufactured from a thermoplastic elastomer, Cush-A-Strip[™] is designed for use from -50°F to 275°F.
- Easy Stocking Packaged in 20 foot rolls in an E-Z dispenser box for convenience in handling and storage. Cush-A-Strip™ roll part number is S-716
- Easy Measuring Marked in ½" increments for fast measuring and cutting, while eliminating waste.
- Lock-lip edges ensure that Cush-A-Strip[™] will remain in place with a balanced grip.
- · Clamps ordered separately. They are available with a standard bolt and nylon lock nut in steel (electro-dichromate), and stainless steel, in sizes ranging from 1/4" tube to 6" pipe.

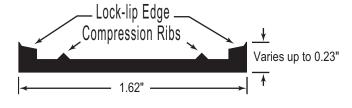




(1) Cut appropriate length strip using the cutting schedule shown on right.



- (2) Place the pipe on the Cush-A-Strip™
- (3) Insert the clamps in the strut
- (4) Tighten the clamps.



	Cus	h-A-Strip [™]	Cutting Gu	iide	
Clamp	Part No.		Dimensi	ons (Inches)	
Gold Plated Steel	Stainless Steel Type 304	Clamp Size O.D.	Size Size		Cutting Schedule
N008C	NS008	1/2"	1/4"	-	7/8
N010C	NS010	5/8"	3/8"	_	1-1/8
N012C	NS012	3/4"	1/2"	1/4"	1- ¹ /2
N014C	NS014	7/8"	5/8"	3/8"	2
N016C	NS016	1"	3/4"	-	2-1/4
N018C	NS018	1-1/8"	7/8"	1/2"	3
N020C	NS020	1- ¹ /4"	1"	3/4"	3-1/4
N022C	NS022	1-3/8"	1- ¹ /8"	-	3-5/8
N024C	NS024	1- ¹ /2"	1-3/16"	-	3-7/8
N024C	NS024	1- ¹ /2"	1-1/4"	1"	4
N026C	NS026	1- ⁵ /8"	1- ³ /8"	-	4-1/2
N028C	NS028	1-3/4"	1-1/2"	-	4-7/8
N030C	CS030	1- ⁷ /8"	1- ⁵ /8"	1-1/4"	5- ¹ /4
N032C	CS032	2"	1-3/4"		5-1/2
N034C	CS034	2-1/8"	1- ⁷ /8"	1-1/2"	6
N036C	CS036	2-1/4"	2"	-	6-3/8
N038C	CS038	2-3/8"	2-1/8"	-	6-3/4
N040C	CS040	2-1/2"	2-1/4"	-	7-1/4
N042C	CS042	2-5/8"	2-3/8"	2"	7-1/2
N044C	CS044	2-3/4"	2-1/2"	-	8
N048C	CS048	3"	2-3/4"	-	8-3/4
N050C	CS050	3-1/8"	2-7/8"	2-1/2"	9-1/4
N054C	CS054	3-1/4"	3"	-	9-1/2
N060C	CS060	3-3/4"	3-1/2"	3"	11
N068C	CS068	4-1/4"	4"	3-1/2"	12-1/4
N076C	CS076	4-3/4"	4-1/2"	4"	14
N092C	CS092	5-3/4"	-	5"	15-1/2
N110C	CS110	6- ⁷ /8"	-	6"	18- ¹ / ₂
* Gold Plated	Steel Clamps Su	pplied with Fi	xed Stud and	Nylon Lock Nu	ıt

- Gold Plated Steel Clamps Supplied with Fixed Stud and Nylon Lock Nut * Stainless Steel Clamps Supplied with fixed Stud and Nylon Lock Nut from 1/2"
- through 1-3/4" Sizes and 1-7/8" through 6-7/8" Sizes are supplied with a Loose Bolt and Hex Nut

industrial









The AIRSTRIP™ is designed to dampen the noise and vibration that can occur between piping or duct work and the supporting channel. Made from 64 Durometer Santoprene, the AIRSTRIP $^{\text{TM}}$ is light weight, dependable, and long-lasting.

Part No.		oad Lbs. neal In.	Length			
	Lbs.	(kg/25.4mm)	Ft.	(m)		
AS1	40	18.1	10	3.05		

- Temp Range: -40°F to 250°F (-40°C to 121°C)
- Available in 10' lengths
- Santoprene UL94HB rated
- · Made in USA



1.65 0.2598 0.3 - 1.085

Installs simply by pushing into place

To remove, squeeze the tabs at the end and push up









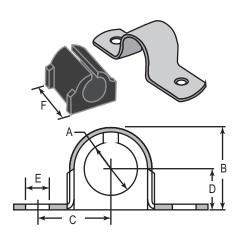
Gold Electro-Galvanized Steel



The Omega Series™ clamp assembly retains, guides, protects and uniformly spaces line runs. Attached with two standard fasteners to any flat surface, the Omega Series™ clamp eliminates the use of special channels, providing a savings in both space and cost. They go up fast, lines are rigid and look neat.

THE CLAMP — Steel with electrodichromate finish, or stainless steel type 304.

THE CUSHION — Manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. Interlock edge ensures that the cushion remains in place.



Assembly consists of clamp and thermoplastic elastomer cushion. Fasteners not included.

	Stainless	Copper	Copper	Dina		Dim	ensior	ns (inc	hes)		Honging
Steel Part No.	Steel Part No.	& Steel Tubing O.D.	Water Pipe (Nom.)	Pipe Size (Nom.)	Α	В	С	D	Е	F	Hanging Design Load
004M007	004MS007	1/4"	-	-	0.25	0.48	0.60	0.22	0.26	0.78	50
006M008	006MS008	3/8"	1/4"	-	0.37	0.62	0.66	0.31	0.26	0.81	50
008M011	008MS011	1/2"	3/8"	1/4"	0.50	0.81	0.83	0.40	0.26	0.98	50
010M013	010MS013	5/8"	1/2"	3/8"	0.62	0.93	0.85	0.46	0.26	0.98	50
012M015	012MS015	3/4"	5/8"	-	0.75	1.02	0.90	0.50	0.26	0.98	50
014M017	014MS017	7/8"	3/4"	1/2"	0.87	1.12	1.03	0.53	0.26	0.98	50
016M019	016MS019	1"	-	-	1.00	1.24	1.04	0.59	0.26	0.98	50
018M020	018MS020	-	-	3/4"	1.05	1.40	1.11	0.70	0.26	0.98	50
018M021	018MS021	1- ¹ /8"	1"	-	1.12	1.40	1.17	0.70	0.26	0.98	50
020M024	020MS024	1- ¹ /4"	-	-	1.25	1.60	1.20	0.77	0.26	1.56	50
021M026	021MS026	-	-	1"	1.31	1.71	1.28	0.81	0.26	1.56	50
022M026	022MS026	1-3/8"	1-1/4"	-	1.37	1.71	1.28	0.83	0.26	1.56	50
024M028	024MS028	1- ¹ /2"	-	-	1.50	1.85	1.36	0.90	0.26	1.56	200
026M030	026MS030	1- ⁵ /8"	1- ¹ /2"	-	1.62	1.98	1.43	0.96	0.26	1.56	200
027M032	027MS032	-	-	1-1/4"	1.66	2.12	1.55	0.99	0.34	1.56	400
028M032	028MS032	1-3/4"	-	-	1.75	2.12	1.55	1.02	0.34	1.56	400
030M034	030MS034	1- ⁷ /8"	-	1-1/2"	1.87	2.25	1.64	1.09	0.34	1.56	400
032M036	032MS036	2"	-	-	2.00	2.38	1.69	1.15	0.34	1.56	400
034M040	034MS040	2-1/8"	-	-	2.12	2.62	1.86	1.27	0.34	1.56	400
038M044	038MS044	2-3/8"	-	2"	2.37	2.88	1.94	1.41	0.34	1.56	400
040M046	040MS046	2-1/2"	-	-	2.50	3.00	2.00	1.47	0.34	1.56	400
042M048	042MS048	2-5/8"	2-1/2"	-	2.62	3.13	2.07	1.53	0.34	1.56	400
046M052	046MS052	2-7/8"	-	2-1/2"	2.87	3.38	2.19	1.65	0.34	1.56	400
050M056	050MS056	3-1/8"	3"	-	3.12	3.68	2.32	1.78	0.34	1.56	400
056M062	056MS062	3-1/2"	-	3"	3.50	4.06	2.50	1.97	0.34	1.56	400
058M064	058MS064	3-5/8"	3-1/2"	-	3.62	4.19	2.57	2.03	0.34	1.56	700
064M072	064MS072	4"	-	3-1/2"	4.00	4.68	2.82	2.28	0.34	1.56	700
066M074	066MS074	4-1/8"	4"	-	4.12	4.84	3.05	2.34	0.43	1.56	800
072M080	072MS080	4- ¹ /2"	-	4"	4.50	5.22	3.24	2.53	0.43	1.56	800
082M090	082MS090	5-1/8"	5"	-	5.12	5.82	3.55	2.84	0.43	1.56	800
089M096	089MS096	-	-	5"	5.56	6.31	4.00	3.06	0.56	1.56	1,200
098M106	098MS106	6-1/8"	6"	-	6.12	6.90	4.31	3.34	0.56	1.56	1,200
106M114	106MS114	-	-	6"	6.62	7.39	4.56	3.58	0.56	1.56	1,200
PART NO	D. SUFFIX		Cushions					Exam	ple		
NO	NE	Thermo	plastic elasto	omer	004M007 (STEEL) 004MS007 (STAINLESS STEEL))		
	N	Flai	ne Retardai	nt	004M007N (STEEL) 004MS007N (STAINLESS STEEL)				L)		
N	IH	Flar Hal	ne Retardai ogen Free	nt		004N	004N IS007N	I007NH H (STA	(STEE	L) S STEE	EL)

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Note: Fasteners not included.

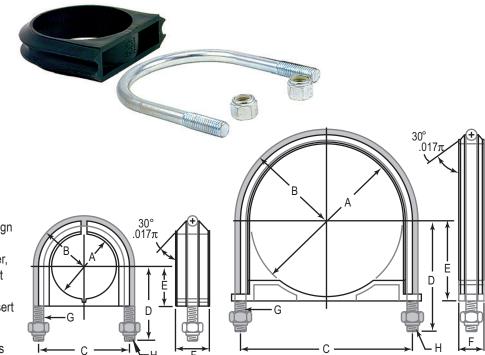






Designed for the tough jobs, the Alpha Series™ U-Bolt Assembly secures pipe runs to any flat surface. The cushion design provides total load distribution, allowing the U-Bolt to become a full contact hanger, eliminating knife-edge loading. The U-Bolt traps and secures the cushion in place to prevent lateral movement, while nylon insert locknuts provide a positive lock.

Alpha Series™ U-Bolt Assembly conforms to MIL-S-901D for shock testing.



1/2" thru 6" assembly.

8" thru 12" assembly - Two piece cushion design

Assy.	Pipe Size				Dimensi	ons (Inche	es)			T	Design	Slip
Part No.	(Nom.)	A Dia.	B Radius	С	D	Е	F	G	Н	Torque	Load	Through
UB1/2PA	1/2"	0.840	0.80	1.60	1.50	0.67	0.68	1/4	1/4-20 UNC-2B	100	485	500
UB3/4PA	3/4"	1.05	0.90	1.80	1.60	0.78	0.68	1/4	1/4-20 UNC-2B	100	485	500
UB1PA	1"	1.31	1.02	2.05	1.70	0.91	0.68	1/4	1/4-20 UNC-2B	100	485	500
UB1-1/4PA	1-1/4"	1.66	1.27	2.55	2.10	1.08	1.24	3/8	3/8-16 UNC-2B	150	1,220	500
UB1-1/2PA	1- ¹ /2"	1.90	1.40	2.80	2.20	1.19	1.24	3/8	3/8-16 UNC-2B	150	1,220	500
UB2PA	2"	2.37	1.67	3.35	2.50	1.45	1.24	3/8	3/8-16 UNC-2B	150	1,220	500
UB2-1/2PA	2-1/2"	2.87	1.95	3.90	3.00	1.69	1.24	1/2	1/2-13 UNC-2B	200	2,260	500
UB3PA	3"	3.50	2.27	4.55	3.30	2.00	1.24	1/2	1/2-13 UNC-2B	200	2,260	500
UB3-1/2PA	3-1/2"	4.00	2.52	5.05	3.70	2.25	1.24	1/2	1/2-13 UNC-2B	200	2,260	500
UB4PA	4"	4.50	2.50	5.50	3.90	2.50	1.24	1/2	1/2-13 UNC-2B	200	2,260	500
UB5PA	5"	5.56	3.25	6.56	4.50	3.03	1.24	1/2	1/2-13 UNC-2B	200	2,260	500
UB6PA	6"	6.62	3.87	7.75	5.40	3.56	1.44	5/8	5/8-11 UNC-2B	250	3,620	500
UB8PA	8"	8.62	4.85	9.82	6.40	4.56	1.44	5/8	5/8-11 UNC-2B	250	3,620	500
UB10PA	10"	10.75	6.08	12.16	7.70	5.68	1.65	3/4	3/4-10 UNC-2B	275	5,420	500
UB12PA	12"	12.75	7.13	14.25	8.70	6.68	1.65	3/4	3/4-10 UNC-2B	275	5,420	500

Assy.	Tube Size				Dimensi	ons (Inche	es)			_	Design	Slip	
Part No.	(O.D.)	A Dia.	B Radius	С	D	Е	F	G	Н	Torque	Load	Through	
UB7/8TA	7/8"	0.875	0.80	1.60	1.50	0.67	0.68	1/4	1/4-20 UNC-2B	100	485	500	
UB1TA	1"	1.00	0.90	1.80	1.60	0.78	0.68	1/4	1/4-20 UNC-2B	100	485	500	
UB11/4TA	1-1/4"	1.25	1.02	2.05	1.70	0.91	0.68	1/4	1/4-20 UNC-2B	100	485	500	
UB1 3/8TA	1- ³ /8"	1.375	1.02	2.05	1.70	0.91	0.68	1/4	1/4-20 UNC-2B	100	485	500	
SUFFIX	Clam	p		Cushion						Example			
NONE	Electro-galv	/anized	Ther	moplastic	elastom	er				UB1/2PA			
6	Stainless Steel	, Type 316	Ther	moplastic	elastom	er				UB1/2PA	6		
N6	Stainless Steel	, Type 316			Flama P	otardant				UB1/2PAN	16		
N	Electro-galv	/anized		Flame Retardant						UB1/2PA	N		
NH	Electro-galv	/anized		Flame Retardant						UB1/2PANH			
NH6	Stainless Stee	I,Type 316			Halogen					UB1/2PANH6			

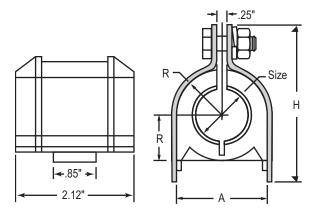






Replaces Porcelain and Maple Cable Clamp. Assembly consists of thermoplastic elastomer cushion with plated or stainless steel clamp. Plated steel and stainless are both supplied with Silicon Bronze bolt and nut.

- · Non-breakable material
- · Chemical and UV resistant
- · U.L. Listed Burning stops within 10 seconds after two applications of ten seconds each of a flame to a test bar with no flaming drips.
- · Plated Steel, or Stainless steel clamps
- Tapered flange to protect cable
- Dielectric strength 640 volts per mil
- · One piece cushion design, available with Flame retardant / Halogen Free cushions
- Silicon Bronze Hardware used to Breakup the Magnetic field around the Cable at the Clamping Location.





The hinged cushion allows easy installation of the wire, but the components will not get separated and lost or broken.

	Din	nensions (Inch	ies)	Total Assy.
Part No.	Hole Dia.	Α	R	Height - H
006CC018	3/8	1.12	0.56	1.82
008CC018	1/2	1.12	0.56	1.82
010CC018	5/8	1.12	0.56	1.82
012CC026	3/4	1.62	0.81	2.34
014CC026	7/8	1.62	0.81	2.34
016CC026	1	1.62	0.81	2.34
018CC026	1-1/8	1.62	0.81	2.34
020CC034	1-1/4	2.12	1.06	2.86
022CC034	1- ³ /8	2.12	1.06	2.86
024CC034	1- ¹ /2	2.12	1.06	2.86
026CC034	1- ⁵ /8	2.12	1.06	2.86
028CC042	1- ³ /4	2.62	1.31	3.50
030CC042	1- ⁷ /8	2.62	1.31	3.50
032CC042	2	2.62	1.31	3.50
034CC042	2- ¹ /8	2.62	1.31	3.50
036CC050	2-1/4	3.12	1.56	4.05
038CC050	2-3/8	3.12	1.56	4.05
040CC050	2-1/2	3.12	1.56	4.05
042CC050	2-5/8	3.12	1.56	4.05
044CC058	2-3/4	3.62	1.81	4.75
046CC058	2-7/8	3.62	1.81	4.75
048CC058	3	3.62	1.81	4.75
050CC058	3-1/8	3.62	1.81	4.75
052CC066	3-1/4	4.12	2.06	5.125
054CC066	3-3/8	4.12	2.06	5.125
056CC066	3-1/2	4.12	2.06	5.125
058CC066	3-5/8	4.12	2.06	5.125
060CC074	3-3/4	4.62	2.31	5.54
062CC074	3-7/8	4.62	2.31	5.54
064CC074	4	4.62	2.31	5.54
066CC074	4-1/8	4.62	2.31	5.54
068CC080	4-1/4	5.00	2.50	5.92
070CC080	4-3/8	5.00	2.50	5.92
072CC080	4-1/2	5.00	2.50	5.92
\	Note:	: All clamps have S	dware	
SUFFIX	Clamp	Cus	Example	
Z	Plated Steel	Flame R	006CC018Z	
S	Stainless Steel			006CC018S
ZH	Plated Steel	Flame R	etardant	006CC018ZH

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006CC018SH

SH

Stainless Steel





INSULATION SADDLE

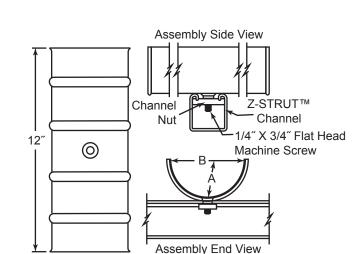
The Saddle-Up Pipe Insulation Saddle is a formed metal shield designed to allow insulated refrigeration pipe or tubing to pass through the support without need to compromise the vapor

barrier and protects from crushing or damage at hanger

and support locations. Made from 20 gage electro-galvanized steel the ribbed design along its 12 inch length offers the superior support needed to spread out loading on insulation which reduces the potential for internal cavity creation between the pipe and insulation. The Z-Strut mounting option provides a time tested secure and safe attachment method so there is no need for other tie downs to the support.

OTHER FEATURES INCLUDE:

- Shipped with all necessary hardware to attach to Z-Strut or any other industry standard 15/8" wide strut channel.
- Features flared edges to protect pipe insulation jacketing.
- Each Saddle individually marked with part number
- Counter Sunk attachment Hole and Flat Head Machine Screw prevent possible damage to insulation.
- Electro-Galvanized Steel provides excellent rust protection and has no exposed fabricated edges.



Dime	Dimensions (Inches)		½" Insulation			i" ation		" ation	1½" Insulation	
Part Number	B Width	A Radius	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation
SD150	11/2	3/4	3/8	13/8	-	-	-	-	-	-
			1/2	11/2	-	-	-	-	-	-
			5/8	15/8	3/8	17/8	-	-	-	-
SD200	2	1	3/4	13/4	1/2	2	-	-	_	-
			7/8	17/8	-	-	-	-	_	-
	-4.	41.6	11/8	21/8	5/8	21/8	3/8	23/8	-	_
SD250	2 ¹ / ₂	11/4	1 ³ / ₈	23/8	3/4	21/4	1/2	2 ¹ / ₂	-	-
			-	-	7/8	2 ³ / ₈		-	-	_
			1 ⁵ /8	2 ⁵ / ₈	1 ¹ / ₈	2 ⁵ /8	5/8	2 ⁵ / ₈	_	-
SD300	3	11/2	-	-	1 ³ / ₈	2 ⁷ /8	3/4	2 ³ / ₄	-	-
			-	-	-	-	7/8	27/8	-	-
SD350	31/2	1 ³ / ₄	21/8	31/8	1 ⁵ /8	31/8	1 ¹ / ₈	31/8	3/8	33/8
3D330	3 /2	174	23/8	33/8	-	-	1 ³ / ₈	33/8	1/2	31/2
			25/8	35/8	21/8	3 ⁵ / ₈	1 ⁵ /8	35/8	5/8	3 ⁵ /8
			-	-	2 ³ / ₈	37/8	-	-	3/4	33/4
SD450	41/2	21/4	-	-	_	-	-	-	7/8	37/8
			31/8	4 ¹ / ₈	25/8	4 ¹ / ₈	21/8	4 ¹ / ₈	1 ¹ /8	4 ¹ / ₈
			-	-	-	-	23/8	43/8	1 ³ /8	43/8
			35/8	45/8	31/8	4 ⁵ / ₈	25/8	4 ⁵ / ₈	1 ⁵ /8	45/8
SD550	5 ¹ / ₂	2 ³ / ₄	41/8	5 ¹ / ₈	35/8	5 ¹ / ₈	31/8	5 ¹ / ₈	21/8	5 ¹ / ₈
			_	-	-	_	-	-	23/8	53/8
	a1 /	01/	-	-	41/8	5 ⁵ /8	35/8	5 ⁵ /8	25/8	55/8
SD650	61/2	31/4	-	-	-	-	41/8	6 ¹ / ₈	31/8	6 ¹ / ₈

Size

12"

The SNAP-A-SADDLE™ provides an easy way to attach insulated pipes to support channel, with one step, tool-free installation.









- Temp Range: -50° to 275°F (-46° to 135° C)
- · Available in both black and white
- UL94-HB1 Rated TPV Material
- Made in USA
- Easy Installation
- · Standard 12" lengths. Special lengths available upon request



	Snap-A-Saddle Size Guide - Copper Tubing										
Tubing	Insulation Thickness										
Size	1/2"	3/4"	1"	11/2"	2"						
1/4											
3/8	Į	S*225									
1/2	S*225		S*325	S*425	S*525						
5/8	0 220		S*425	0 420	3 323						
3/4	J	S*325									
1											
1-1/4				S*525							
1-1/2	S*325				S*625						
2		S*425									
2-1/2	S*425	3 423	S*525	S*625							
3	3 423	S*525	3 323	3 023	0*005						
3-1/2	0.*505	3 323	C*C0E	C*00E	S*825						
4	S*525	S*625	S*625	S*825							
* Add "B" for	Black or "W" fo	or White									

	Snap-A-Saddle Size Guide - Schedule 40/80 Pipe										
Pipe		Insu	lation Thick	ness							
Size	1/2"	3/4"	1"	1½"	2"						
1/4	ļ	S*225									
3/8	S*225	0 220	S*325	S*425	S*525						
1/2	3 223		3 323	3 423	0 020						
3/4]	S*325									
1		8 323	S*425	S*525							
1-1/4	S*325				S*625						
1-1/2]	S*425			3 020						
2	0 * 40 5	3 423									
2-1/2	S*425	S*525	S*525	S*625							
3	S*525	0 323	S*625		S*825						
3-1/2	3 323	0*005	3 020	S*825	3 020						
4	S*625	S*625	S*825								
* Add "B" fo	or Black or "W" for	or White	•		•						

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AIRTIGHT CRUSH-RESISTANT INSULATION CLAMP

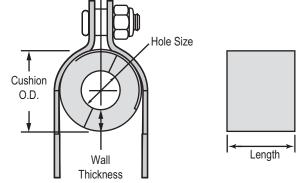


Cush-A-Therm[™] Clamp is a perfect crush-resistant airtight seal for chilled refrigeration or mechanical pipe lines that require continuous insulation.

The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipe lines.

The outer cover consists of a special rubber coating which seals the cushion after installation in order to prevent condensation.

It's strong closed-cell structure is ideal for liquid cooling lines to prevent condensation, save energy, and maintain the vapor barrier.





NOTE: Complete assembly supplied with gold electro-galvanized channel clamp and hardware

FEATURES

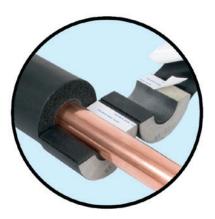
- Temperature range: -70°F to +250°F (-200°C to +125°C)
- · Flammability is Self-Extinguishing as tested under ASTM D 635
- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- · Absorbs vibration
- Polyurethane foam laminated with a rubber lining

	Dimensions (Inches)				Nominal ½" Wall Thickness		Nominal $^3\!\!4$ " Wall Thickness		Nominal 1" Wall Thickness		Nominal 1- ¹ / ₂ " Wall Thickness		Nominal 2" Wall Thickness	
Hole Size	Copper I.D.	Pipe O.D.	IPS	Len.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.
1/4	-	1/4	-	2.953"	UX1412	1 ¹ / ₄ (1.250")	UX1434	1 ³ / ₄ (1.750")	UX1410	21/4 (2.250")			-	
3/8	1/4	3/8	-	2.953"	UX3812	1 ³ /8 (1.375")	UX3834	1 ⁷ /8 (1.875")	UX3810	23/8 (2.375")	UX3815	33/8 (3.375")	-	
1/2	3/8	1/2	1/4	2.953"	UX1212	11/2 (1.500")	UX1234	2 (2.000")	UX1210	21/2 (2.500")	UX1215	31/2 (3.500")	-	
5/8	1/2	5/8	3/8	2.953"	UX5812	15/8 (1.625")	UX5834	21/8 (2.125")	UX5810	25/8 (2.625")	UX5815	35/8(3.625")	UX5820	45/8 (4.625")
3/4	5/8	3/4	-	2.953"	UX3412	1 ³ / ₄ (1.750")	UX3434	21/4 (2.250")	UX3410	23/4 (2.750")	UX3415	3 ³ / ₄ (3.750")	UX3420	4 ³ / ₄ (4.750")
7/8	3/4	7/8	1/2	2.953"	UX7812	17/8 (1.875")	UX7834	23/8 (2.375")	UX7810	27/8(2.875")	UX7815	37/8 (3.875")	UX7820	47/8 (4.875")
1-1/8	1	11/8	3/4	2.953"	UX11812	21/8 (2.125")	UX11834	25/8 (2.625")	UX11810	31/8 (3.125")	UX11815	41/8 (4.125")	UX11820	5 ¹ /8 (5.125")
1-3/8	11/4	13/8	1	2.953"	UX13812	23/8 (2.375")	UX13834	27/8 (2.875")	UX13810	33/8 (3.375")	UX13815	4 ³ / ₈ (4.375")	UX13820	5 ³ /8 (5.375")
1-5/8	1 ¹ /2	1 ⁵ /8	11/4	2.953"	UX15812	2 ⁵ /8 (2.625")	UX15834	31/8 (3.125")	UX15810	3 ⁵ /8 (3.625")	UX15815	4 ⁵ /8 (4.625")	UX15820	55/8 (5.625")
1-7/8	-	17/8		2.953"	UX17812	27/8 (2.875")	UX17834	33/8 (3.375")	UX17810	37/8 (3.875")	UX17815	47/8 (4.875")	UX17820	57/8 (5.875")
2-1/8	2	21/8	-	2.953"	UX21812	31/8 (3.125")	UX21834	35/8 (3.625")	UX21810	41/8 (4.125")	UX21815	5 ¹ /8 (5.125")	UX21820	6 ¹ /8 (6.125")
2-3/8	21/4	23/8	2	2.953"	UX23812	33/8 (3.375")	UX23834	37/8 (3.875")	UX23810	4 ³ / ₈ (4.375")	UX23815	5 ³ /8 (5.375")	UX23820	63/8 (6.375")
2-5/8	21/2	25/8	-	3.937"	UX25812	35/8 (3.625")	UX25834	41/8 (4.125")	UX25810	45/8 (4.625")	UX25815	55/8 (5.625")	UX25820	65/8 (6.625")
2-7/8	-	27/8	21/2	3.937"	UX27812	37/8 (3.875")	UX27834	43/8 (4.375")	UX27810	47/8 (4.875")	UX27815	5 ⁷ /8 (5.875")	UX27820	67/8 (6.875")
3-1/8	3	31/8	-	3.937"	UX31812	4 ¹ /8 (4.125")	UX31834	45/8 (4.625")	UX31810	5 ¹ / ₈ (5.125")	UX31815	6 ¹ /8 (6.125")	UX31820	7 ¹ /8 (7.125")
3-1/2	-	31/2	3	3.937"	UX31212	41/2 (4.500")	UX31234	5 (5.000")	UX31210	51/2 (5.500")	UX31215	61/2(6.500")	UX31220	71/2 (7.500")
3-5/8	31/2	35/8	-	3.937"	UX35812	45/8 (4.625")	UX35834	51/8 (5.125")	UX35810	55/8 (5.625")	UX35815	65/8 (6.625")	UX35820	75/8 (7.625")
4-1/8	4	4-1/8	31/2	3.937"	UX41812	5 ¹ /8 (5.125")	UX41834	5 ⁵ /8 (5.625")	UX41810	6 ¹ / ₈ (6.125")	UX41815	7 ¹ /8 (7.125")	UX41820	81/8 (8.125")

Cush-A-Therm™



INSTALLATION IS AS EASY AS 1-2-3!



1. Insulation slides over pipes. Self adhesive surfaces provide seal.

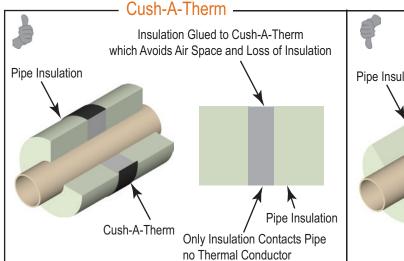


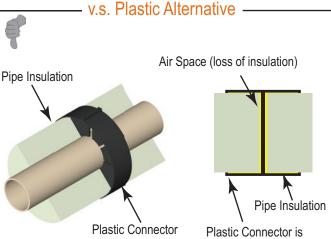
2 Put in place and glue to insulation.



3. Wrap and seal with ProTape.

Thermal Conductor





ASHRAE Insulation Recommendations

Cush-A-Therm is designed to meet the ASHRAE recommendations for insulation for mechanical systems which indicate that insulated pipe hangers should provide the following:

- 1. Complete sealing of pipe against water vapor ingress
- 2. No energy transfer of cold to supporting clamp to prevent condensation of water and possible growth of mold. If the support incasing the insulation is in contact with the pipe or tube and supported by a metallic clamp, which is not protected by insulation, below ambient temperatures will be transfer to the clamp causing energy transfer and condensation.
- 3. No interruption of the insulation envelope
- 4. Limit or avoid compression at support location

ASHRAE Section 23.13-23.14 further states "when the goal is avoiding compression of low-compressive-strength insulation products, it is recommended to use high-strength insulation inserts made of a product that offers the desired compressive strength and other necessary performance properties. Other higher-strength materials that are not thermal insulation material and interrupt the insulation envelope, or do not allow complete sealing of an insulation system against water vapor ingress are not recommended for supporting insulated piping on pipe hangers. Note that wood blocks have poor thermal conductivity and are not recommended, especially for cold pipe systems."

Insulated cold piping should receive special attention when exposed to ambient or unconditioned air. The Cush-A-Therm is a product that seals out air, and insulates the pipe/tube from the supporting clamp, and is therefore in compliance with the 2013 ASHRAE insulation recommendations.

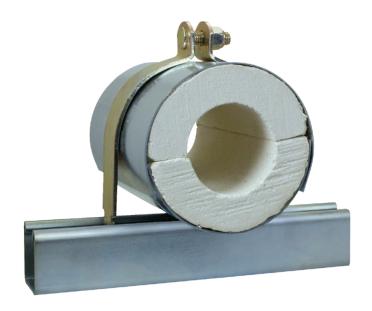
Foster Engineering Catalog MurdockIndustrial.com Phone: 330-535-7105 Skype:

industrial





CAL-CLAMP CRUSH RESISTANT INSULATION





MODEL "HW" - For Hot or Cold applications

- · Works equally well on both hot and cold lines.
- Includes the strut clamps required for installation with strut.
- · Special order insulation lengths, double sheet metal wrap, load bearing plates and alternate sheet metal gauges are available upon request.

MODEL "CWP" - For applications requiring a wet lag insulation

- · Insulations extends 1" beyond sheet metal.
- The minimum length for our "CWP" insert is 6".
- Includes the strut clamps required for installation with strut.
- Special order insulation lengths, double sheet metal wrap, load bearing plates and alternate sheet metal gauges are available upon request.

Maxir Allowable	
Pipe Size	HW/CWP
1/2"	51
3/4"	62
1"	72
1-1/4"	92
1-1/2"	123
2"	164
2-1/2"	225
3"	276
4"	388
5"	500
6"	612
8"	827
10"	1102
12"	1326

Insulation Length Specification (in.)										
I.P.S.	Insulation Thickness									
NOMINAL	1"	1½"	2"	2 ½"	3"	4"				
1/2" to 11/2"		4"* 6"								
2"			6'							
2-1/2"' to 6"		6	9"							
8" to 10"	9"									
12" to 18"			12	"						

|--|

^{**}Larger Sizes Available Upon Requestt

Sheet Metal Gauge ¹									
I.P.S.	Insulation Thickness								
NOMINAL	1"	1½"	2"	2 ½"	3"	4"			
1/2" to 1-1/2"		24							
2" to 5"									
6"	20 16								
8" to 24"	16								

¹A double thickness of sheet metal is recommended on the lower half when used with rollers or when hanger span exceeds ten feet.

Material:

- Asbestos Free Calcium Silicate (Cellular Glass and Polyurethane also available upon request), treated for water resistance, encased in a 360 degree A-653 Galvanized Sheet Metal jacket (304SS and 316SS available upon request).
- Minimum 140PSI compressive strength. Working Temperature is 42°F to 1200°F. (5.6°C to 649°C) Lower temps upon request.

MODEL "HW"

For Hot or Cold applications

Strut Clamp included



	Model HWP, Insulation and Strut Clamps												
		1/2	? "	1"		1½"		2"		2 ½"		3"	
IPS	Pipe OD	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.
3/4"	1.05	HWP3412	2.16	HWP3410	2.82	HWP3415	3.95	HWP3420	4.95	HWP3425	-	HWP3430	-
1"	1.315	HWP112	2.41	HWP110	3.45	HWP115	4.45	HWP120	5.51	HWP125	-	HWP130	-
11/4"	1.66	HWP11412	2.72	HWP11410	3.45	HWP11415	4.95	HWP11420	5.51	HWP11425	-	HWP11430	-
11/2"	1.99	HWP11212	2.99	HWP11210	3.95	HWP11215	4.95	HWP11220	6.57	HWP11225	7.57	HWP11230	8.57
2"	2.375	HWP212	3.42	HWP210	4.45	HWP215	5.51	HWP220	6.57	HWP225	7.57	HWP230	8.57
21/2"	2.875	HWP21212	3.93	HWP21210	4.95	HWP21215	6.57	HWP21220	7.57	HWP21225	8.57	HWP21230	9.57
3"	3.5	HWP312	4.56	HWP310	5.51	HWP315	6.57	HWP320	7.57	HWP325	8.57	HWP330	9.57
31/2"	4	HWP31212	5.07	HWP31210	6.57	HWP31215	7.57	HWP31220	8.57	HWP31225	9.57	HWP31230	10.7
4"	4.5	HWP412	5.57	HWP410	6.57	HWP415	7.57	HWP420	8.57	HWP425	9.57	HWP430	10.7
5"	5.563	HWP512	6.64	HWP510	7.57	HWP515	8.57	HWP520	9.57	HWP525	10.7	HWP530	11.7
6"	6.625	HWP612	7.71	HWP610	8.57	HWP615	9.57	HWP620	10.7	HWP625	11.7	HWP630	12.7
8"	8.625	HWP812	9.74	HWP810	10.7	HWP815	11.7	HWP820	12.7	HWP825	13.95	HWP830	14.95
10"	10.75	HWP1012	11.87	HWP1010	12.7	HWP1015	13.95	HWP1020	14.95	HWP1025	15.95	HWP1030	16.95
12"	12.75	HWP1212	13.88	HWP1210	14.95	HWP1215	15.95	HWP1220	16.95	HWP1225	17.95	HWP1230	18.95

	Model HWT, Copper Tube Sizes, Insulation and Strut Clamps												
		1/2		1"		1½"		2"		2 ½"		3"	
Copper Tube	Tube OD	Part No.	Insulation O.D.										
1/2"	5/8"	HWT5812	1.66	HWT5810	2.82	HWT5815	3.45	-	-	-	-	-	-
3/4"	⁷ /8"	HWT7812	1.92	HWT7810	2.82	HWT7815	3.95	HWT7820	4.95	-	-	-	-
1"	1-1/8"	HWT11812	2.16	HWT11810	2.82	HWT11815	3.95	HWT11820	4.95	-	-	-	-
11/4"	1-3/8"	HWT13812	2.41	HWT13810	3.45	HWT13815	4.45	HWT13820	5.51	-	-	-	-
11/2"	1-5/8"	HWT15812	2.72	HWT15810	3.45	HWT15815	4.95	HWT15820	5.51	-	-	-	-
2"	2-1/8"	HWT21812	3.16	HWT21810	3.95	HWT21815	4.95	HWT21820	6.57	HWT21825	7.57	HWT21830	8.57
21/2"	2-5/8"	HWT25812	3.66	HWT25810	4.45	HWT25815	5.51	HWT25820	6.57	HWT25825	7.57	HWT25830	8.57
3"	3-1/8"	HWT31812	4.16	HWT31810	4.95	HWT31815	6.57	HWT31820	7.57	HWT31825	8.57	HWT31830	9.57
4"	4-1/8"	HWT41812	5.16	HWT41810	6.57	HWT41815	7.57	HWT41820	8.57	HWT41825	9.57	HWT41830	10.7
5"	5-1/8"	HWT51812	6.16	HWT51810	7.57	HWT51815	8.57	HWT51820	9.57	HWT51825	10.7	HWT51830	11.7
6"	6-1/8"	HWT61812	7.16	HWT61810	8.57	HWT61815	9.57	HWT61820	10.7	HWT61825	11.7	HWT61830	12.7

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Fax: 330-535-1125

MurdockIndustrial

Insulating Clamping

- 85 -

CAL-CLAMP INSULATION





MODEL "CW"

For applications requiring a wet lag insulation. Insulations extends 1" beyond metal.

Strut Clamp included



	Model CWP, Insulation and Strut Clamps													
		1/	2"	1	"	13	1½"		2"		2 ½"		3"	
IPS	Pipe OD	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	
3/4"	1.05	CWP3412	2.16	CWP3410	2.82	CWP3415	3.95	CWP3420	4.95	-	-	-	-	
1"	1.315	CWP112	2.41	CWP110	3.45	CWP115	4.45	CWP120	5.51	-	-	-	-	
1 ¹ / ₄ "	1.66	CWP11412	2.72	CWP11410	3.45	CWP11415	4.95	CWP11420	5.51	-	-	-	-	
11/2"	1.99	CWP11212	2.99	CWP11210	3.95	CWP11215	4.95	CWP11220	6.57	CWP11225	7.57	CWP11230	8.57	
2"	2.375	CWP212	3.42	CWP210	4.45	CWP215	5.51	CWP220	6.57	CWP225	7.57	CWP230	8.57	
21/2"	2.875	CWP21212	3.93	CWP21210	4.95	CWP21215	6.57	CWP21220	7.57	CWP21225	8.57	CWP21230	9.57	
3"	3.5	CWP312	4.56	CWP310	5.51	CWP315	6.57	CWP320	7.57	CWP325	8.57	CWP330	9.57	
31/2"	4	CWP31212	5.07	CWP31210	6.57	CWP31215	7.57	CWP31220	8.57	CWP31225	9.57	CWP31230	10.7	
4"	4.5	CWP412	5.57	CWP410	6.57	CWP415	7.57	CWP420	8.57	CWP425	9.57	CWP430	10.7	
5"	5.563	CWP512	6.64	CWP510	7.57	CWP515	8.57	CWP520	9.57	CWP525	10.7	CWP530	11.7	
6"	6.625	CWP612	7.71	CWP610	8.57	CWP615	9.57	CWP620	10.7	CWP625	11.7	CWP630	12.7	
8"	8.625	CWP812	9.74	CWP810	10.7	CWP815	11.7	CWP820	12.7	CWP825	13.95	CWP830	14.95	
10"	10.75	CWP1012	11.87	CWP1010	12.7	CWP1015	13.95	CWP1020	14.95	CWP1025	15.95	CWP1030	16.95	
12"	12.75	CWP1212	13.88	CWP1210	14.95	CWP1215	15.95	CWP1220	16.95	CWP1225	17.95	CWP1230	18.95	

	Model CWT, Copper Tube Sizes, Insulation and Strut Clamps												
		1/2	"	1'	•	1½"		2"		2 ½"		3"	
Copper Tube	Tube OD	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.	Part No.	Insulation O.D.
1/2"	5/8"	CWT5812	1.66	CWT5810	2.82	CWT5815	3.45	-		-	-	-	-
3/4"	7/8"	CWT7812	1.92	CWT7810	2.82	CWT7815	3.95	CWT7820	4.95	-	-	-	-
1"	11/8"	CWT11812	2.16	CWT11810	2.82	CWT11815	3.95	CWT11820	4.95	-	-	-	-
1 ¹ / ₄ "	1 ³ / ₈ "	CWT13812	2.41	CWT13810	3.45	CWT13815	4.45	CWT13820	5.51	-	-	-	-
11/2"	1 ⁵ /8"	CWT15812	2.72	CWT15810	3.45	CWT15815	4.95	CWT15820	5.51	-	-	-	-
2"	21/8"	CWT21812	3.16	CWT21810	3.95	CWT21815	4.95	CWT21820	6.57	CWT21825	7.57	CWT21830	8.57
21/2"	25/8"	CWT25812	3.66	CWT25810	4.45	CWT25815	5.51	CWT25820	6.57	CWT25825	7.57	CWT25830	8.57
3"	31/8"	CWT31812	4.16	CWT31810	4.95	CWT31815	6.57	CWT31820	7.57	CWT31825	8.57	CWT31830	9.57
4"	41/8"	CWT41812	5.16	CWT41810	6.57	CWT41815	7.57	CWT41820	8.57	CWT41825	9.57	CWT41830	10.7
5"	51/8"	CWT51812	6.16	CWT51810	7.57	CWT51815	8.57	CWT51820	9.57	CWT51825	10.7	CWT51830	11.7
6"	61/8""	CWT61812	7.16	CWT61810	8.57	CWT61815	9.57	CWT61820	10.7	CWT61825	11.7	CWT61830	12.7

QUICK-CLIP



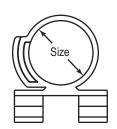
Quick-Clip's unique one-piece composite polyamide alloy design combines strength with light weight. It will overcome the problems of using cable ties for piping, electrical, optical and network cabling

- Quick Clip locates easily on 3/8" rod
- No breaks in insulation material
- Fast and easy installation, saves time and money
- Single handed installation
- · Manufactured from a composite polyamide, tested from -40° F to + 275°F, (-40°C to +135°C) makes it ideal for network cables
- Studding panel inserts.

	CLAMPING RANGE											
Part	Standard Copper	Metric Copper	Сорре	Condensate								
No.	(no insu	lation)	with 3/8" Insulation	with ½" Insulation	Drain							
QC12	3/4"	-	-	-	-							
QC14	QC14 7/8" 22		-	-	yes							
QC16	1"	-	1/4" tube	-	-							
QC18	1 ¹ /8"	28mm	3/8" tube	-	-							
QC20	11/4"	-	1/2" tube	1/4" tube	-							
QC22	1 ³ /8"	-	5/8" tube 3/8" tube		yes							
QC24	11/2"	-	7/8" tube	5/8" tube	-							
QC26	QC26 15/8" 42mm 11/8		11/8" tube	3/4" tube	yes							
QC32	2"	-	-	7/8" tube	-							
QC34	21/8"	54mm	1 ³ /8" tube	1 ¹ /8" tube	yes							
المصلمة ما	Inside diameter. Contain aline have two as more positions to accommodate both											

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes







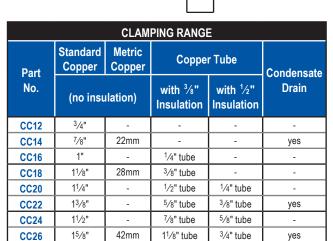
Slide onto threaded rod, twist to engage. Insert pipe and clip to lock.

CUSH-A-CLICK

The great advantage with the Cush-A-Click is it retains an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings. The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation.

- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- No break insulation material
- Corrosion resistance
- Light weight





Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes

13/8" tube

Foster Engineering Catalog

MURDOCK

industrial

54mm

2"

21/8"

CC32

7/8" tube

11/8" tube





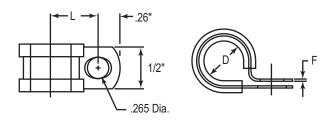


SPN LOOP CLAMPS

PLATED STEEL LOOP CLAMPS, 1/2" WIDE

FEATURES:

- · Light to medium duty steel clamp
- . E.P.D.M. cushion for electrical insulation and vibration absorption
- Steel clamps are zinc electroplated for corrosion resistance
- · Some sizes available in aluminum. Contact factory for details.
- Temperature range -50°F to +275°F (-45°C to 135°C)





SPN										
Plated Steel	Stainless Steel	0: 1	Dir	mensions	(in)					
Part No.	Part No.	Size In.	D	L	F					
SPN-03	SPN-03SS	3/16"	0.188	0.499						
SPN-04	SPN-04SS	1/4"	0.250	0.530						
SPN-05	SPN-05SS	⁵ / ₁₆ "	0.312	0.561						
SPN-06	SPN-06SS	3/8"	0.375	0.592						
SPN-07	SPN-07SS	⁷ /16"	0.438	0.623						
SPN-08	SPN-08SS	1/2"	0.500	0.655						
SPN-09	SPN-09SS	9/16"	0.562	0.749						
SPN-10	SPN-10SS	5/8"	0.625	0.780						
SPN-11	SPN-11SS	¹¹ / ₁₆ "	0.688	0.811						
SPN-12	SPN-12SS	3/4"	0.750	0.840	0.032					
SPN-14	SPN-14SS	7/8"	0.875	0.889						
SPN-16	SPN-16SS	1"	1.000	0.952						
SPN-18	SPN-18SS	11/8"	1.125	1.030						
SPN-20	SPN-20SS	1 ¹ / ₄ "	1.250	1.093						
SPN-22	SPN-22SS	1 ³ /8"	1.375	1.155						
SPN-24	SPN-24SS	11/2"	1.500	1.218						
SPN-26	SPN-26SS	1 ⁵ /8"	1.625	1.280						
SPN-28	SPN-28SS	1 ³ / ₄ "	1.750	1.343						
SPN-30	SPN-30SS	17/8"	1.875	1.405						
SPN-32	SPN-32SS	2"	2.000	1.476						
SPN-34	SPN-34SS	21/8"	2.125	1.538						
SPN-36	SPN-36SS	21/4"	2.250	1.661						
SPN-38	SPN-38SS	23/8"	2.375	1.663						
SPN-40	SPN-40SS	21/2"	2.500	1.728	0.040					
SPN-42	SPN-42SS	25/8"	2.625	1.788	0.040					
SPN-48	SPN-48SS	3"	3.000	1.976						
SPN-52	SPN-52SS	31/4"	3.250	2.100						
SPN-56	SPN-56SS	31/2"	3.500	2.226						
SPN-64	SPN-64SS	4"	4.000	2.476						

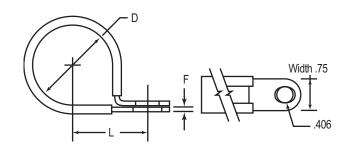
SPW LOOP CLAMPS

PLATED STEEL 3/4" WIDE

FEATURES:

- · Light to medium duty steel clamp
- . E.P.D.M. cushion for electrical insulation and vibration absorption
- · Steel clamps are zinc electroplate for corrosion resistance
- · Color Silver with black durable cushion.
- Temperature range -50°F to +275°F (-45°C to 135°C)

Available in stainless steel. Some sizes available in aluminum. Contact factory for details.



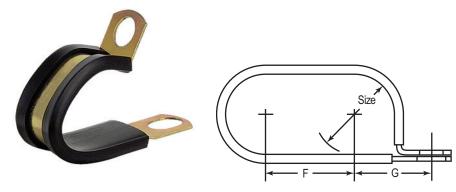
<u> </u>											
Part	Size	(in)									
No.	in	D	L	F							
SPW-04	1/4"	0.250	0.639								
SPW-06	3/8"	0.375	0.702								
SPW-07	⁷ / ₁₆ "	0.438	0.732								
SPW-08	1/2"	0.500	0.764								
SPW-09	9/16"	0.563	0.795	0.031							
SPW-10	5/8"	0.625	0.827								
SPW-12	3/4"	0.750	0.889								
SPW-14	⁷ /8"	0.875	0.952								
SPW-16	1"	1.000	1.014								
SPW-18	11/8"	1.125	1.090								
SPW-20	11/4"	1.250	1.159								
SPW-24	11/2"	1.500	1.284								
SPW-26	1 ⁵ /8"	1.625	1.346								
SPW-28	1 ³ / ₄ "	1.750	1.409	0.050							
SPW-30	17/8"	1.875	1.471	0.050							
SPW-32	2"	2.000	1.534								
SPW-36	21/4"	2.250	1.659								
SPW-40	21/2"	2.500	1.784								
SPW-48	3"	3.000	2.034								

SPD LOOP CLAMPS

2-TUBE CUSHIONED CABLE CLAMPS, PLATED STEEL 3/4" WIDE

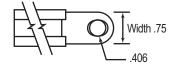
FEATURES:

- Medium duty steel clamp that can be slipped over two tubes or multiple wires and closed with a bolt at assembly.
- Steel clamps are zinc electroplate for corrosion resistance
- E.P.D.M. cushion for electrical insulation and vibration absorption
- Temperature range -50°F to +275°F (-45°C to 135°C)



SPD						
Part	Circa In	. Dimensions				
No.	Size In.	F	G			
SPD-08	1/2"	0.50	0.764			
SPD-12	3/4"	0.75	0.889			
SPD-16	1"	1.00	1.014			
SPD-20	1 ¹ /4"	1.125	1.159			

Available in stainless steel. Some sizes available in aluminum. Contact factory for details.



industrial

SPH LOOP CLAMPS

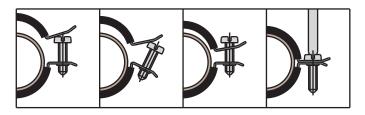


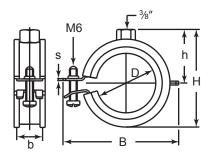


CUSH-A-RING

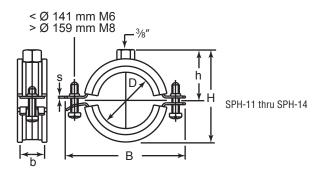


The Cush-A-Ring is a unique rubber lined hanger for copper and steel tube or pipe. The SPH-1 thru SPH-10 is a two-part clamp that has a hinged side with a single screw patented locking system. The quick locking system is easy to close with one hand which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.





SPH-1 thru SPH-10





FEATURES:

- · Rubber lined, noise insulated
- · With quick locking system
- · Clamp easy to close with one hand
- UV-resistant black EPDM rubber lining
- · Zinc plated
- ASTM E-84
- · Meets Buy America Act

SPH									
Part	Dimensions (in)								
No.	D	IP	СТ	В	Н	h	bxs		
SPH-1	11 – 14	1/4"	3/8"	1.9	1.4	0.87			
SPH-2	15 – 18	3/8"	1/2"	1.9	1.4	0.87			
SPH-3	20 – 23	1/2"	3/4"	2.2	1.6	0.94			
SPH-4	25 – 28	3/4"	1	2.4	1.8	1.10			
SPH-5	31 – 35	1	1 ¹ / ₄ "	2.6	2.0	1.20	20 x 1.25		
SPH-6	40 – 43	1 ¹ / ₄ "	1 ¹ / ₂ "	3.0	2.4	1.30			
SPH-7	48 – 53	1 ¹ / ₂ "	-	3.3	2.6	1.50			
SPH-8	54 – 56	-	2	3.5	2.8	1.60			
SPH-9	57 – 63	2	-	3.7	3.1	1.70			
SPH-10	64-70	-	21/2"	4.5	3.9	2.20	23 x 2.00		
	Below parts have 2 bolt configurations								
SPH-11	73-80	2 ¹ / ₂ "	3	5.0	4.3	2.40	23 x 2.00		
SPH-12	83-91	3	-	5.4	4.8	2.60			
SPH-13	100- 105	-	4	6.0	5.3	2.90	25 x 2.50		
SPH-14	108-114	4	-	6.3	5.7	3.10			

- 90 -

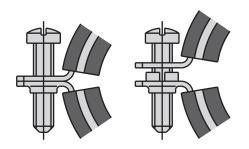


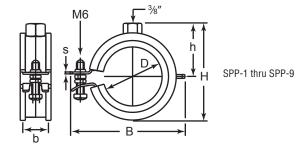
SPP CLAMPS

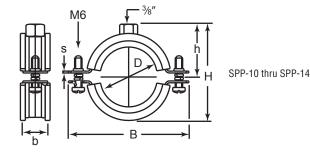
CUSH-A-RING



The Cush-A-Ring is a unique rubber lined hanger for PEX, CPVC, and PVC pipe. The SPP-1 thru SPP-10 has a two-part clamp with a hinged side and a single screw patented locking system. The quick locking system is easy to close with one hand which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.









FEATURES:

- · With quick locking system
- · Clamp easy to close with one hand
- Specially formulated, green, UV and age resistant EPDM rubber lining
- · Perfect for PEX, Fusion, CPVC and PVC pipe
- ASTM E-84
- · Complies with MSS SP-58 and SP-69
- · Material steel, zinc plated

SPP							
Part			Dime	nsions (i	in)		
No.	D (mm)	IP	СТ	В	Н	h	Rod Size
SPP-2	15 – 18	3/8"	1/2"	1.9	1.4	0.87	
SPP-3	20 – 23	1/2"	3/4"	2.2	1.7	0.94	
SPP-4	25 – 28	3/4"	1"	2.4	1.9	1.0	
SPP-5	31 – 35	1"	1 ¹ / ₄ "	2.6	2.2	1.2	
SPP-6	40 – 43	1 ¹ / ₄ "	11/2"	3.0	2.6	1.3	
SPP-7	48 – 53	11/2"	-	3.3	3.0	1.5	3/8"
SPP-8	54 – 56	-	2"	3.5	3.0	1.6	
SPP-9	60 – 65	2"	-	4.3	3.4	1.7	
SPP-10	70 – 76	21/2"	-	4.9	4.1	2.2	
SPP-11	86 – 91	3"	-	5.4	4.6	2.4	
SPP-12	110 – 114	4"	-	6.3	5.8	2.9	
SPP-13	124 – 132	-	-	6.8	5.9	3.1	17"
SPP-14	155 – 160	-	-	8.0	7.4	3.9	1/2"

industrial







SVN LOOP CLAMPS

VINYL DIPPED - GALVANIZED STEEL 1/2" WIDE



.312" <u>↓</u>		
*		
I L		281
<u>*</u>		
PVC COATED	.5"→	V
		F
s		7

SVN								
Part	Cina in	Dir	nensions ((in)				
No.	Size in.	D	L	F				
SVN-03	³ / ₁₆ "	0.187	0.500					
SVN-04	1/4"	0.250	0.531	0.032				
SVN-05	⁵ / ₁₆ "	0.312	0.562	0.032				
SVN-06	3/8"	0.375	0.593					
SVN-08	1/2"	0.500	0.656					
SVN-09	9/16"	0.562	0.687					
SVN-10	5/8"	0.625	0.718					
SVN-12	3/4"	0.750	0.781	0.048				
SVN-14	⁷ /8"	0.875	0.843					
SVN-16	1"	1.000	0.906					
SVN-18	1 ¹ /8"	1.125	0.968					

FEATURES:

- · Medium duty steel clamp that can be slipped over a tube or wire and closed with a bolt at assembly. Holes provide easy alignment. Its pre developed shape allows for proper closing and excellent fit of the clamp.
- · Galvanized Steel
- PVC coated, black color
- Temperature range -25°F to +160°F

SVW LOOP CLAMPS

VINYL DIPPED GALVANIZED STEEL 3/4" WIDE



.312" 406" PVC COATED

FEATURES:

- · Medium duty steel clamp that can be slipped over a tube or wire and closed with a bolt at assembly. Holes provide easy alignment. Its pre developed shape allows for proper closing and excellent fit of the clamp..
- Galvanized Steel
- · PVC coated, black color
- Temperature range -25°F to +160°F

SVW							
Part	01 1	Dimensions (in)					
No.	Size in.	D	L	F			
SVW-04	1/4"	0.250	0.656				
SVW-05	⁵ / ₁₆ "	0.312	0.562	0.032			
SVW-06	3/8"	0.375	0.0718				
SVW-08	1/2"	0.500	0.781				
SVW-09	9/16"	0.562	0.812				
SVW-10	5/8"	0.625	0.843				
SVW-12	3/4"	0.750	0.906				
SVW-13	¹³ / ₁₆ "	0.812	0.937				
SVW-14	⁷ /8"	0.875	0.968	0.048			
SVW-15	¹⁵ / ₁₆ "	0.937	1.000				
SVW-16	1"	1.000	1.031				
SVW-18	11/8"	1.125	1.092				
SVW-20	11/4"	1.125	1.156				
SVW-22	1 ³ /8"	1.375	1.218				

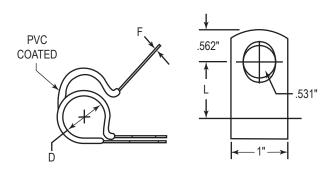
LVZ LOOP CLAMPS

VINYL DIPPED GALVANIZED STEEL 1" WIDE



FEATURES:

- · Heavy duty steel clamp
- · Galvanized Steel
- · PVC coated, black color
- Temperature range -25°F to +160°F



LVZ							
Part	Cina in		Dimensions (in)			
No.	Size in.	D	L	F			
LVZ-18	1 ¹ /8"	1.13	1.218				
LVZ-19	1 ³ /16"	1.19	1.250				
LVZ-20	1 ¹ /4"	1.25	1.281				
LVZ-21	1 ⁵ /16"	1.31	1.312				
LVZ-24	1 ¹ /2"	1.50	1.406				
LVZ-25	1 ⁹ /16"	1.56	1.437				
LVZ-28	1 ³ /4"	1.75	1.531				
LVZ-29	1 ¹³ /16"	1.81	1.562	0.048			
LVZ-32	2"	2.00	1.687	0.040			
LVZ-33	2- ¹ /16"	2.06	1.718				
LVZ-36	2-1/4"	2.25	1.812				
LVZ-40	2-1/2"	2.50	1.937				
LVZ-42	2-5/8"	2.63	2.000				
LVZ-44	2-3/4"	2.75	2.062				
LVZ-46	2-7/8"	2.88	2.125				
LVZ-57	3-9/16"	3.56	2.437				

🚂 industrial



SSN, CABLE LOOP CLAMPS



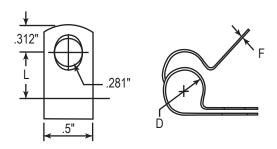
SSN LOOP CLAMPS

STAINLESS STEEL ½" WIDE



FEATURES:

- · Medium duty steel clamp that can be slipped over a tube or wire and closed with a bolt at assembly. Holes provide easy alignment. Its pre-developed shape allows for proper closing and excellent fit.
- Stainless steel, type 301 or 304

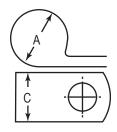


SSN stainless steel							
Part	Size	I	Dimensions (in)			
No.	in.	D	L	F			
SSN-03	³ / ₁₆ "	0.187	0.500				
SSN-04	1/4"	0.250	0.531	0.032			
SSN-05	5/16"	0.312	0.562	0.032			
SSN-06	3/8"	0.375	0.593				
SSN-08	1/2"	0.500	0.656				
SSN-09	⁹ / ₁₆ "	0.562	0.687				
SSN-10	5/8"	0.625	0.718				
SSN-12	3/4"	0.750	0.781	0.048			
SSN-14	⁷ /8"	0.875	0.843				
SSN-16	1"	1.000	0.906				
SSN-18	11/8"	1.125	0.968				

CABLE CLAMPS



Cable Clamps are perfect for securing wires and cables in the electric, automotive and aircraft industries.



CC UV Black also available upon request Closed Bottom								
Part No.	A (in.)	C (in.).	Screw Dia. (in.)					
CC3-1/8	0.130							
CC3-3/16	0.189	0.358						
CC3-1/4	0.260	0.550						
CC3-5/16	0.307							
CC3-3/8	0.382	0.362						
CC5-1/8	0.114							
CC5-1/4	0.232		0.21					
CC5-3/8	0.358							
CC5-1/2	0.480	0.500						
CC5-9/16	0.543	0.500						
CC5-3/4	0.732							
CC5-7/8	0.858							
CC5-1-1/8	1.100							



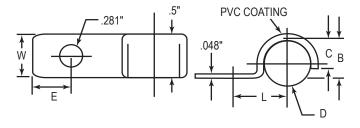
HVN LOOP CLAMPS

VINYL DIPPED GALVANIZED STEEL 1/2" WIDE



FEATURES:

- Black vinyl plastic coated (PVC)
- · Galvanized Steel for corrosion resistance
- Temperature range -25°F to +160°F



	HVN							
Part	Size		Dimensions (in)					
No.	in.	D	L	Е	В	С	W	
HVN-04	1/4"	0.250	0.500	0.250	0.250	0.188	1/2"	
HVN-05	5/16"	0.312	0.531	0.312	0.312	0.218		
HVN-06	3/8"	0.375	0.562	0.312	0.375	0.281		
HVN-08	1/2"	0.500	0.687	0.312	0.500	0.343	5/8"	
HVN-09	9/16"	0.562	0.750	0.312	0.562	0.437	^{-7/8}	
HVN-10	5/8"	0.625	0.812	0.312	0.625	0.406		
HVN-12	3/4"	0.750	0.875	0.312	0.750	0.468		

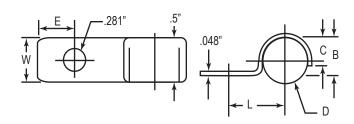
HSN LOOP CLAMPS

STAINLESS STEEL ½" WIDE



FEATURES:

• Stainless steel, Type 301 or 304



HSN Stainless Steel							
Part	Size			Dimens	ions (in)		
Number	in.	D	L	Е	В	С	W
HSN-04	1/4"	0.250	0.500	0.250	0.250	0.188	1/2"
HSN-05	⁵ /16"	0.312	0.531	0.312	0.312	0.218	
HSN-06	3/8"	0.375	0.562	0.312	0.375	0.281	
HSN-08	1/2"	0.500	0.687	0.312	0.500	0.343	5/8"
HSN-09	9/16"	0.562	0.750	0.312	0.562	0.437	7/8"
HSN-10	5/8"	0.625	0.812	0.312	0.625	0.406	
HSN-12	3/4"	0.750	0.875	0.312	0.750	0.468	

PYTHON CABLE CLAMPS





PYTHON SERIES

STRONG: Load is applied at right angles to ensure tight fit. Python hose clamps keep their grip on the hose and can be reused. Rolled up band edges ensure a smooth transition between band and hose. Hexagonal screw head with drive slot makes for easy accessibility.



The Python II provides greater clamping force with less trouble than heavy-duty T-Bolt type clamps.

- · Lower cost than T-Bolts with superb performance.
- Thicker band for greater tensile strength.
- Greater clamping range than T-Bolt 1½" clamping range over 2" diameter
- Zinc plated or 304, 316, or 430 stainless steel
- Non perforated band with embossed threads safely seals without cutting the hose.



Pyth	Python – Zinc Plated, or Stainless Steel Type 304							
Zinc	Stainless	SAE	Clampin	g Range				
Plated Part No.	Steel Part No.	Size	in.	mm				
PY-3	PY-30	3	⁵ /16 - ⁹ /16	8 – 14				
PY-4	PY-40S	4	⁷ /16 - ¹¹ /16	11 – 17				
PY-6	PY-60	6	¹ / ₂ - ¹³ / ₁₆	13 – 20				
PY-8	PY-80S	8	⁵ /8 - ¹⁵ / ₁₆	15 – 24				
PY-10	PY-100	10	³ / ₄ - 1 ¹ / ₈	19 – 28				
PY-12	PY-120	12	⁷ /8 – 1 ¹ /4	22 – 32				
PY-16	PY-160	16	11/16 - 11/2	26 – 38				
PY-20	PY-200	20	11/4 - 13/4	32 – 44				
PY-24	PY-240	24	11/2 - 2	38 – 50				
PY-28	PY-280	28	13/4 - 21/4	44 – 56				
PY-32	PY-320	32	2 – 29/16	50 – 65				
PY-40	PY-400	40	25/16 - 3	58 – 75				
PY-44	PY-440	44	211/16 - 33/8	68 – 85				
PY-52	PY-520	52	$3 - 3^{3}/4$	77 – 95				
PY-64	PY-640	64	37/16 - 47/16	87 – 112				
PY-80	PY-800	80	4 ¹ /8 - 5 ⁷ /16	104 – 138				
PY-96	PY-960	96	51/8 - 61/2	130 – 165				
PY-104	PY-1040	104	57/8 - 71/8	150 – 180				
PY-122	PY-1220	122	67/8 - 81/8	175 – 205				
PY-138	PY-1380	138	77/8 - 91/8	200 – 231				
PY-154	PY-1540	154	87/8 - 101/16	226 – 256				
PY-170	PY-1700	170	97/8 - 111/8	251 – 282				
PY-186	PY-1860	186	107/8 - 121/8	277 – 307				

Clamping Range in. mn PY-331 5/16 - 9/16 8 - 7 PY-431 7/16 - 11/16 11 - PY-631 1/2 - 13/16 13 - PY-831 5/8 - 15/16 15 - PY-1031 3/4 - 11/8 19 - PY-1231 7/8 - 11/4 22 - PY-1631 11/16 - 11/2 26 - PY-2031 11/4 - 13/4 32 -	14 17 20 24 28 32
in. mn PY-331	14 17 20 24 28 32
PY-431	17 20 24 28 32
PY-631	20 24 28 32
PY-831 5/8 - 15/16 15 - PY-1031 3/4 - 11/8 19 - PY-1231 7/8 - 11/4 22 - PY-1631 11/16 - 11/2 26 -	24 28 32
PY-1031 3/4 - 11/8 19 - PY-1231 7/8 - 11/4 22 - PY-1631 11/16 - 11/2 26 -	28
PY-1231	32
PY-1631 1½6 – 1½ 26 –	
41 00	
PY-2031 1½ – 1¾ 32 –	38
	44
PY-2431 1½-2 38-	50
PY-2831 1½ – 2½ 32 –	57
PY-3231 1½ – 2½ 38 –	64
PY-3631 1 ³ / ₄ - 2 ³ / ₄ 44 -	70
PY-4031 2 – 3 51 –	76
PY-4431 2 ¹ / ₄ - 3 ¹ / ₄ 57 -	83
PY-4831 2½ – 3½ 64 –	89
PY-5231 2 ³ / ₄ - 3 ³ / ₄ 70 -	95
PY-5631 3 – 4 76 – 7	102
PY-6031 3 ¹ / ₄ - 4 ¹ / ₄ 83 - ²	108
PY-6431 3½ – 4½ 89 – 3	114
PY-7231 3½ – 5 89 – 7	127
PY-8031 4 – 5½ 102 –	140
PY-8831 4½-6 114-	152
PY-9631 5 – 6½ 127 –	165
PY-10431 5½ – 7 140 –	178
PY-11231 6 – 7½ 152 –	191
PY-12031 6½ – 8 165 –	203
PY-12831 7 – 8½ 178 –	216
PY-13831 7 ⁵ / ₈ – 9 ¹ / ₈ 194 –	232
PY-15431 85% – 101/8 219 –	257
PY-17031 95% – 111/8 244 –	283
PY-18631 10 ⁵ % – 12 ¹ / ₈ 270 –	308

CUSH-A-BLOCK - ROOFTOP SUPPORTS

CUSH-A-BLOCK SUPPORTS



Cush-A-Block features:

Patent Pending

- 100% Recycled Rubber
- LEED Certifiable
- · Meets the Buy America Act and American Reinvestment Recovery Act (A.R.R.A.)
- · Independent Laboratory Tested to the following
- ASTM D575 Method B Modified, Compression/Deflection
- ASTM D1171 Modified Ozone Resistance
- Freeze/Thaw Environmental Simulation
- Resistance to Freeze and Thaw
- All 4 Corners coated with reflective safety orange for visibility
- Dampens Vibrations
- · Compatible with most rooftop materials



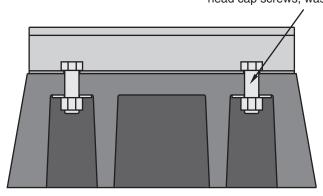
Cush-A-Block support applications:

- Solar Racking
- · Pipe & Conduit supports
- · HVAC, Duct, Cable Tray supports
- · Air Conditioning supports
- · Roof Walkway supports

The channel for Cush-A-Block support assemblies includes a variety of options. The strut can be made in special lengths, finishes, and alloys including Aluminum, Stainless Steel both 304 & 316, PVC coated, Powder coated, Zinc Trivalent Chromium, Pre-Galvanized and Hot Dipped Galvanized.



All Cush-A-Block products made with 1-5/8" and higher channel is equipped with (2) $\frac{1}{2}$ " x 1- $\frac{1}{2}$ " hex head cap screws, washers and nuts.



industrial



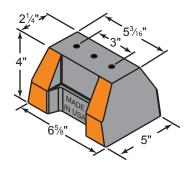
Cush-A-Block - Rooftop Supports



CUSH-A-BLOCK SUPPORTS

CBS-MINI SERIES





CBS-Mini Series					
Part No. Uniform Load Capacity (Lbs) *					
CBS-MINI	400 *				

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

CUSH-A-BLOCK SUPPORTS

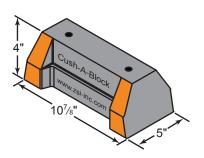
CBS BASE SERIES





CBS-Base Series				
Part No. Uniform Load Capacity (Lbs) *				
CBS	2,500 *			

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity





CUSH-A-BLOCK - ROOFTOP SUPPORTS

CUSH-A-BLOCK SUPPORTS

CBS SERIES W/METAL CHANNEL

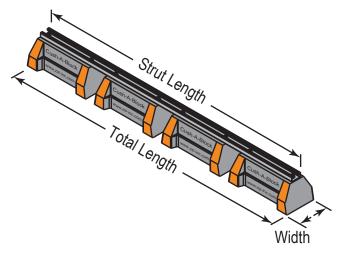




Standard strut mount pipe clamps are used to secure the pipes.

Note: Roof supports come pre-assembled

The CBS Series provides a longer mounting surface with strut lengths up to 46%"



CBS-Support With ¹³ / ₁₆ " Pre-Galv. Steel Channel								
	Part No.	No. of Bases	Strut Length	Total Length	Uniform Load Capacity (Lbs) *			
95/16"	CBS1S	1	9.312"	10-7/8"	2,500 *			
4 ⁷ /8" Cush.A.	CBS2S	2	22.375"	24"	5,000 *			
10 ⁷ / ₈ "	CBS3S	3	34.375"	36"	7,500 *			
5"	CBS4S	4	46.375"	48"	10,000 *			
	CBS-Support \	With 1%" Pre-Galv. St	teel Channel					
95/16"	CBS1D	1	9.312"	10-7/8"	2,500 *			
5 ⁵ / ₈ "	CBS2D	2	22.375"	24"	5,000 *			
Vorgi de Marcon	CBS3D	3	34.375"	36"	7,500 *			
107//8"	CBS4D	4	46.375"	48"	10,000 *			
	CBS Support V	Vith 2 ⁷ / ₁₆ " Pre-Galv. S	teel Channel					
95/16"	CBS1RD	1	9.312"	10-7/8"	2,500 *			
6 ⁷ / ₁₆ " Cu _{sh-A-Block}	CBS2RD	2	22.375"	24"	5,000 *			
	CBS3RD	3	34.375"	36"	7,500 *			
107/8"	CBS4RD	4	46.375"	48"	10,000 *			

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

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CUSH-A-BLOCK - ROOFTOP SUPPORTS



CUSH-A-BLOCK SUPPORTS

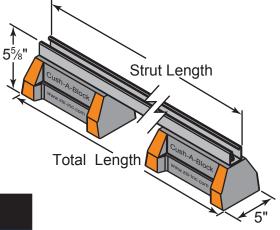
CBS-BR BRIDGE SERIES WITH CHANNEL



Standard strut mount pipe clamps are used to secure the pipes.

Note: Roof supports come pre-assembled





CBS-CB-Bridge Series - Bridge Length Supports With 2 CBS Bases and Channel								
Part No. Strut Total Uniform Load Length Capacity (Lbs) *								
CBS28BR	28"	29-3/4"	1,491*					
CBS36BR	36"	37-3/4"	1,160*					
CBS42BR	42"	43-3/4"	994*					
CBS50BR	50"	51- ³ ⁄4"	835*					
CBS60BR	60"	61-3/4"	696*					

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

CUSH-A-BLOCK SUPPORTS

CBS-PRB SERIES, WITH PIPE ROLLER

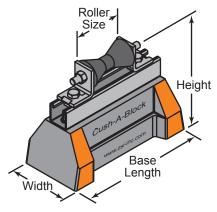




Note: Roof supports come pre-assembled

CBS-R-Roller-Series With 1-5/8" Pre-Galv. Steel Channel With Rollers							
Part No.	Pipe Size (O.D.)	Height	Overall Height to Roller Center	Base Length	No. of Bases	Uniform Load Capacity (Lbs) *	
CBS1PRB	1" to 2"	8"			1	2,500 *	
CBS2PRB	2" to 3-½"		7"	10-7/8"	1	2,500 *	
CBS3PRB	4" to 6"	8-1/8"			1	2,500 *	
CBS4PRB	8" to 10"	10-5/16"	8-1/4"	24"	2	2,500 *	

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

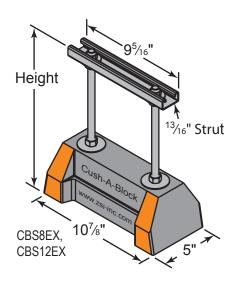


Cush-A-Block - Rooftop Supports

CUSH-A-BLOCK SUPPORTS

CBS-CE SERIES WITH RAISED CHANNEL





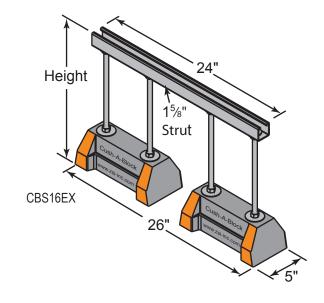
CBS-EX-Extension Series Support With Threaded Rod Extension and Channel							
Part No. Height Uniform Load Capacity (Lbs) *							
CBS8EX	8"	1,000 *					
CBS12EX	12"	1,000 *					
CBS16EX 16" 2,000 *							

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



Standard strut mount pipe clamps are used to secure the pipes. Note: Roof supports come pre-assembled





industrial



CUSH-A-BLOCK - ROOFTOP SUPPORTS



CUSH-A-BLOCK SUPPORTS

CBS-RB SERIES WITH RAISED BRIDGE **MEDIUM SUPPORT**



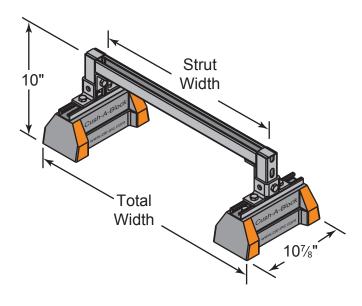
Raised Bridge Length With 2 CBS Bases 1-%" Pre-Galv Steel Channel							
Part No.	Base Length	Uniform Load Capacity (Lbs) *					
CBS1RB	18-5/8"	12"	10- ⁷ /8"	3,000 *			
CBS2RB	30-5/8"	24"	10-78	1,500 *			

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



Standard strut mount pipe clamps are used to secure the pipes.

Note: Roof supports come pre-assembled



CUSH-A-BLOCK SUPPORTS

CBS-RB SERIES WITH RAISED CHANNEL **HEAVY SUPPORT**



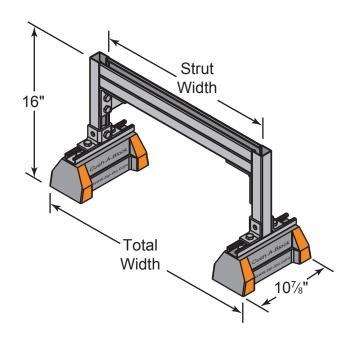
Raised Bridge Length With 2 CBS Bases 3-1/4" Back-to-Back Pre-Galv Steel Channel								
Part No.	Part No. Base Strut Uniform Load Width Width Capacity (Lbs) *							
CBS3RB	30-5/8"	24"	3,500 *					
CBS4RB	42-5/8"	36"	3,250 *					

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



Standard strut mount pipe clamps are used to secure the pipes.

Note: Roof supports come pre-assembled

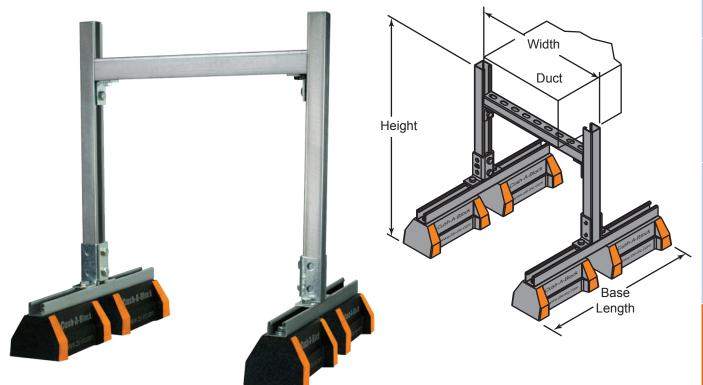




CUSH-A-BLOCK SUPPORTS

CBS-DSFW SERIES, FIXED WIDTH **DUCT SUPPORT**





CUSH-A-BLOCK - ROOFTOP SUPPORTS

CBS-DSF Duct Support Series With Fixed Width						
Model No.	Height	Width	Base Length	No. of Bases	Uniform Load Capacity (Lbs)	
CBS1-DSFW		18"			2042 *	
CBS2-DSFW	23"	24"	24"	4	1531 *	
CBS3-DSFW	23	36"	24	4	1021 *	
CBS4-DSFW]	48"]		766 *	
CBS5-DSFW		18"			2042 *	
CBS6-DSFW	20"	24"	04"	4	1531 *	
CBS7-DSFW	29"	36"	24"		1021 *	
CBS8-DSFW	1	48"]		766 *	
CBS9-DSFW		18"			2042 *	
CBS10-DSFW	1 44"	24"	04"	4	1531 *	
CBS11-DSFW	41"	36"	24"	4	1021 *	
CBS12-DSFW]	48"]		766 *	
CBS13-DSFW		18"			2042 *	
CBS14-DSFW	F2"	24"	26"	6	1531 *	
CBS15-DSFW	53"	36"	36"	6	1021 *	
CBS16-DSFW	1	48"]		766 *	

^{*} This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

Foster Engineering Catalog

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www.eMurdock.com Fax: 330-535-1125 Murdock



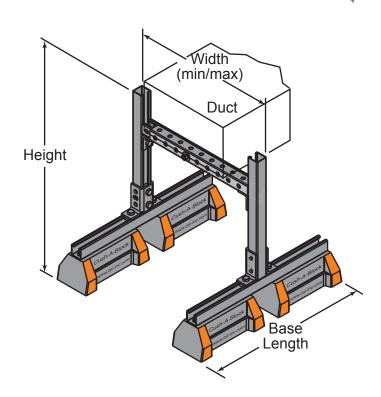
CUSH-A-BLOCK - ROOFTOP SUPPORTS



CUSH-A-BLOCK SUPPORTS

CBS-DS SERIES, ADJUSTABLE WIDTH **DUCT SUPPORT**





The CBS-DS Series is designed specifically for ductwork support. The telescopic cross beam provides easy size adjustments.

Standard strut mount pipe clamps are used to secure the pipes.

Note: Roof supports come pre-assembled

CBS-DS-Duct Support Series With Adjustable Width and Height							
Part	Width		Height	Base	Total	Uniform Load	
No.	Min.	Max.		Length	Bases	at Min. Width(Lbs) *	
CBS1DS	19-1/4"	26-3/4"		10-7/8"	2	1,909 *	
CBS2DS	24-7/8"	39-7/8"		(276mm)	2	1,477 *	
CBS3DS	38"	62-3/8"	28.813"	24" (610mm)	4	967 *	
CBS4DS	62-3/8"	103-5/8"		36" (914mm)	6	589 *	
CBS5DS	19-1/4"	26-3/4"		10-7/8"	2	1,909 *	
CBS6DS	24-7/8"	39-7/8"		(276mm)	2	1,477 *	
CBS7DS	38"	62-3/8"	36"	24" (610mm)	4	967 *	
CBS8DS	62-3/8"	103-5/8"		36" (914mm)	6	589 *	

^{*} This load is only for the capacity of the components in this assembly.

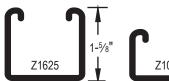
Please consult roofing manufacturer or engineer for roof load capacity



Z-STRUT AND Z-STRUT CLAMPS













All Z-Strut is 1-5/8" Wide, With 7/8" opening

STRUT PRODUCTS

ZSi-Foster offers a line of standard strut channel and a variety of clamps tailored for use with strut. Cush-A-Clamp[®], Cush-A-Therm[™], and Porce-A-Clamp[™] provide cushioned clamping solutions.

Complementing products are offered for quick connection of pipe, tube and hose to strut.

ZSi-Fosters's family of cushioned clamps presented earlier in the catalog offer solutions for isolation of the pipes from vibration or thermal transfers. And, "fire retardant" and "fire retardant, halogen free" options are available.



CUSH-A-THERM™ (See Page 82 - 83)

PORCE-A-CLAMP™ (See Page 79)



SADDLE-UP (See Page 80)



ZSi-Fosters's family of non-metallic strut clamps allow quick and easy attachment of pipe, tube, and hose to Z-Strut support channels and are corrosion resistant. They are all a great and cost effective alternative to metallic clamps.

CUSH-A-CLIP (See Page 73)

CUSH-A-CLAMP®

(See Page 71)



CUSH-A-CLICK (See Page 87)



QUICK-CLIP (See Page 87)



CUSH-A-CLAW (See Page 72)



CUSH-A-GRIP (See Page 74)



Foster Engineering Catalog MurdockIndustrial.com Phone: 330-535-7105 Skype: industrial

Fax: 330-535-1125

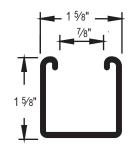
MurdockIndustrial

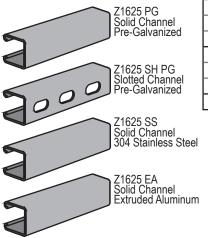






Z1625 SERIES



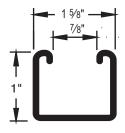


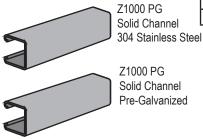
Z1625 - 1 ⁵ / ₈ " x 1 ⁵ / ₈ " Channel, 12 Ga.						
	Solid Channel		Slotted Channel			
Pre-galvanized Part No.	Stainless Steel Type 304 Part No.	Extruded Aluminum Part No.	Pre-galvanized Part No.	Length		
Z1625-06PG	Z1625-06SS	Z1625-06EA	Z1625SH-06PG	0'-6"		
Z1625-12PG	Z1625-12SS	Z1625-12EA	Z1625SH-12PG	1' – 0"		
Z1625-18PG	Z1625-18SS	Z1625-18EA	Z1625SH-18PG	1' – 6"		
Z1625-24PG	Z1625-24SS	Z1625-24EA	Z1625SH-24PG	2' – 0"		
Z1625-30PG	Z1625-30SS	Z1625-30EA	Z1625SH-30PG	2' – 6"		
Z1625-36PG	Z1625-36SS	Z1625-36EA	Z1625SH-36PG	3' – 0"		
Z1625-42PG	Z1625-42SS	Z1625-42EA	Z1625SH-42PG	3' - 6"		
Z1625-48PG	Z1625-48SS	Z1625-48EA	Z1625SH-48PG	4' – 0"		
Z1625-54PG	Z1625-54SS	Z1625-54EA	Z1625SH-54PG	4' - 6"		
Z1625-60PG	Z1625-60SS	Z1625-60EA	Z1625SH-60PG	5' – 0"		

MATERIAL/FINISH

- Pre-galvanized Steel conforming to ASTM A653 GR 33.
- Stainless Steel Type 304 Stainless Steel conforming to ASTM A 240 (Type 304)
- Aluminum Extruded Aluminum conforming to ASTM B221 (Type 6063-T6)

Z1000 SERIES





- 106

Z1000 - 1 ⁵ /8" x 1" Channel, 12 Ga. Solid Channel				
Pre-galvanized Part No.	Stainless Steel Type 304 Part No.	Length		
Z1000-06PG	Z1000-06SS	0'-6"		
Z1000-12PG	Z1000-12SS	1' – 0"		
Z1000-18PG	Z1000-18SS	1' - 6"		
Z1000-24PG	Z1000-24SS	2' – 0"		
Z1000-30PG	Z1000-30SS	2' – 6"		
Z1000-36PG	Z1000-36SS	3' – 0"		
Z1000-42PG	Z1000-42SS	3' - 6"		
Z1000-48PG	Z1000-48SS 4' – 0"			
Z1000-54PG	Z1000-54SS 4' - 6"			
Z1000-60PG	Z1000-60SS	5' – 0"		

MATERIAL/FINISH

www.eMurdock.com

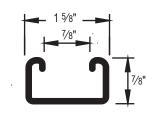
- Pre-galvanized Steel conforming to ASTM A653 GR 33.
- Stainless Steel Type 304 Stainless Steel conforming to ASTM A 240 (Type 304)

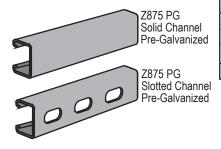
Fax: 330-535-1125

MurdockIndustrial



Z875 SERIES





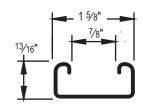
Z875 - $1^{5}/8$ " x $^{7}/8$ " Channel, 12 Ga.

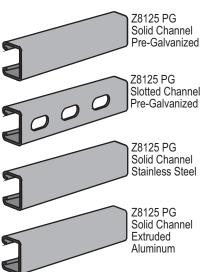
·					
Solid Channel	Slotted Channel				
Pre-galvanized Part No.	Pre-galvanized Part No.	Length			
Z875-06PG	Z875SH-06PG	0' – 6"			
Z875-12PG	Z875SH-12PG	1' – 0"			
Z875-18PG	Z875SH-18PG	1' – 6"			
Z875-24PG	Z875SH-24PG	2'-0"			
Z875-30PG	Z875SH-30PG	SH-30PG 2' – 6"			
Z875-36PG	Z875SH-36PG	3'-0"			
Z875-42PG	Z875SH-42PG	3' — 6"			
Z875-48PG	Z875SH-48PG 4' – 0"				
Z875-54PG	Z875SH-54PG	4' — 6"			
Z875-60PG	Z875SH-60PG	5' – 0"			

MATERIAL/FINISH

- Pre-galvanized Steel conforming to ASTM A653 GR 33.
- Stainless Steel Type 304 Stainless Steel conforming to ASTM A 240 (Type 304)
- Aluminum Extruded Aluminum conforming to ASTM B221 (Type 6063-T6)

Z8125 SERIES





Z8125 - 1⁵/₈" x ¹³/₁₆" Channel, 14 Ga.

Solid Channel			Slotted Channel	
Pre-galvanized Part No.	Stainless Steel Type 304 Part No.	Extruded Aluminum Part No.	Pre-galvanized Part No.	Length
Z8125-06PG	Z8125-06SS	Z8125-06EA	Z8125SH-06PG	0' – 6"
Z8125-12PG	Z8125-12SS	Z8125-12EA	Z8125SH-12PG	1' – 0"
Z8125-18PG	Z8125-18SS	Z8125-18EA	Z8125SH-18PG	1' – 6"
Z8125-24PG	Z8125-24SS	Z8125-24EA	Z8125SH-24PG	2' – 0"
Z8125-30PG	Z8125-30SS	Z8125-30EA	Z8125SH-30PG	2' – 6"
Z8125-36PG	Z8125-36SS	Z8125-36EA	Z8125SH-36PG	3' – 0"
Z8125-42PG	Z8125-42SS	Z8125-42EA	Z8125SH-42PG	3' — 6"
Z8125-48PG	Z8125-48SS	Z8125-48EA	Z8125SH-48PG	4' – 0"
Z8125-54PG	Z8125-54SS	Z8125-54EA	Z8125SH-54PG	4' — 6"
Z8125-60PG	Z8125-60SS	Z8125-60EA	Z8125SH-60PG	5' – 0"

MATERIAL/FINISH

- Pre-galvanized Steel conforming to ASTM A653 GR 33.
- Stainless Steel Type 304 Stainless Steel conforming to ASTM A 240 (Type 304)
- Aluminum Extruded Aluminum conforming to ASTM B221 (Type 6063-T6)

BETA CLAMPS - OVERVIEW







Beta Clamps are ideal for clamping pipe, tube, hose, and electric cables. They are an economical and easy way of securing them in all types of terrestrial, marine, O.E.M. and Industrial applications. Thanks to the advanced features and the breadth and depth of our product offering, Beta Clamps are used in all areas of industrial, mobile and marine hydraulics, general industrial pipe construction, the field of press technology, instrumentation and control technology and many more.

- Beta Clamps offer shock-absorption, vibration dampening and noise reducing properties.
- Beta Clamps feature a practical and economical design which make for quick, easy pipe installation and layout.
- Using weldable plates, it's easy to anchor the clamps to machinery and steel work.
- Fast, safe, economic installation and service in piping system.
- Upper and lower clamp half are identical.
- Ribs in clamp bore are designed to absorb shock and vibration in the direction of the tube axis.
- Due to their design the clamps can be easily cleaned.

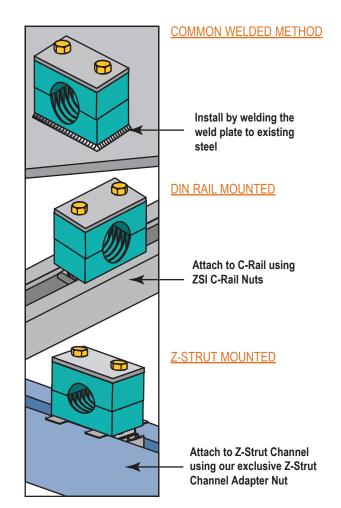
CLAMP BODY

- Standard Polypropylene (Green Color) -22°F to 194°F (-30°C to +90°C)
- Aluminum is available for use in high heat applications

CLAMP COMPONENTS – The other metallic components of the clamps are manufactured in:

- Lower and upper plates: steel, stainless steel type 304
- Screw bolts: steel, S40C, stainless steel type 304
- · Other metallic on request.

ZSi-Foster offers an installation option for all of your application needs.



BETA CLAMPS - OVERVIEW



BETA STANDARD (Pages 110 - 111)



· For standard hydraulics and systems with less than 1500

PSI without dynamic loads

- Polypropylene cushion
- Steel components

BETA HEAVY (Pages 112 - 113)



- For systems with greater than 1500 PSI operating pressure, operations with pressure surges, and applications with wide temperature fluctuations.
- Absorbs high levels of shock, noise, and vibration
- Polypropylene cushion & steel components

BETA TWIN (Pages 114 - 115)



- For standard hydraulics, general pipe construction and electrical cables
- Polypropylene cushion
- · Steel components

BETA SMOOTHIE (Page 116)



- · Reduces wear on hose connection caused by vibration and surge.
- · Chamfered and smooth core protects hose cover and extends hose life.
- Uses Beta Standard hardware
- Polypropylene cushion
- Steel components

BETA SMOOTHIE TWIN (Page 117)



- · Reduces wear on hose connection caused by vibration and surge.
- Chamfered and smooth core protects hose cover and extends hose life.
- Uses Beta Twin hardware
- · Polypropylene cushion
- Steel components

BETA SPECIAL METALS (Pages 110, 112, 114)



- · Aluminum cushions with steel components are used in high heat applications up to 500°F
 - Stainless steel clamp hardware with polypropylene cushion are used in applications where external corrosion is a concern.

BETA RUBBER INSERTS (Pages 118 - 119)



- · Available in standard and
- · One cushion block provides flexible size range of cushioning.
- Smooth bore core can be used on hose, or for vibration reduction

BETA ADAPTER (Page 120)



- Allows a clamping junction to be inserted into hydraulic lines.
- The adapter body is offered in two sizes for use with the Z-Clamp adapter inserts.

🕶 industrial

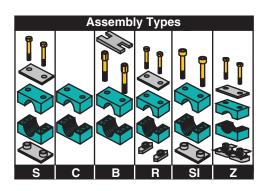
BETA CLAMPS - STANDARD





BETA CLAMPS

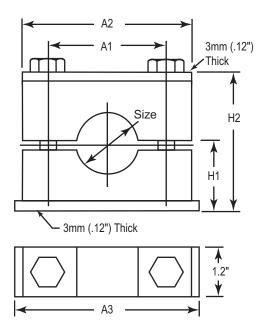
STANDARD SERIES





- Cushions are Polypropylene (Green Color)
- Recommended for systems with less than 1500 PSI without dynamic loads.
- Use for standard hydraulics, general pipe construction, electrical cables, and general duty piping applications subject to moderate levels of shock and vibration.
- · Aluminum cushions and are used in higher heat applications up to 500 Degrees.

INSTALLATION - Refer to pages 147-148 for complete installation guide.





Steel w/ Polypropylene Cushion



Steel w/ Aluminum Cushion

	No. * \$1004	Size	Pipe							Dol4
	S1004		Size	Size	A1	A2	A 3	H1	H2	Bolt
		1/4" (0.250)	-	-		1.34 (34)				
_	S1006	³ /8"(0.375)	-	-						l . I
S1 S	SM1006	-	-	6mm	0.78		1.41	0.62	1.25	¹ / ₄ "- 20 x
31	S1007	-	1/8" (0.405)	-	(20)		(36)	(16)	(32)	1 ¹ / ₄ "
S	SM1008	-	-	8mm						
S	SM1012	-	-	12mm						
	S2008	¹ /2" (0.500)	-	-	1.02					
	S2009	-	¹ /4" (0.540)	-						
	S2010	5/8" (0.625)	-	-		1.57	1.65	0.76	1.54	1/4"-
S2	S2011	-	3/8" (0.675)	-		(40)	(42)	(19.5)	(39)	20 x
S	SM2014	-	-	14mm	(20)	(10)	(12)	(10.0)	(00)	13/8"
S	SM2015	-	-	15mm						
S	SM2018	-	-	18mm						
	S3012	3/4" (0.750)	-	-						
	S3014	-	1/2" (0.840)	-						1/4"- 20 x 11/2"
S3	S3015	⁷ /8" (0.875)	-	-	1.29	1.96 (50)	2.04 (52)	0.80 (20.5)	1.61 (41)	
33	S3016	1" (1.000)	-	-	(33)					
S	SM3020	-	-	20mm						
S	SM3025	-	-	25mm						
	S4017	-	3/4" (1.050)	-	1.57	2.28 (58)	2.36 (60)	0.94 (24)	1.88 (48)	1/4"- 20 x 1 ³ /4"
S4	S4018	1 ¹ /8" (1.125)	-	-						
S	SM4030	-	-	30mm	(10)					
	S5020	1 ¹ /4" (1.250)	-	-		2.75 (70)	2.83 (72)	1.25 (32)	2.52 (64)	1/4"- 20 x 21/2"
	S5021	-	1" (1.315)	-	2.04 (52)					
S5	S5024	11/2" (1.500)	-	-						
	S5027	-	11/4" (1.660)	-						
S	SM5035	-	-	35mm						
	S6028	1 ³ /4" (1.750)	-	-	2.59	3.38 (86)	3.46 (88)	1.41 (36)	2.83 (72)	1/4"- 20 x 2 ³ /4"
S6	S6030	-	11/2" (1.900)	-	(66)					
	S6032	2" (2.000)	-	-	(00) (00)		(00)	(00)	(12)	Zº/4"
_	S7038	-	2" (2.375)	-		4.75	4.81	2.00 (51)	4.05	¹ /4"- 20 x 4"
	S7036	21/4" (2.250)	-	-	3.70					
S7	S7040	21/2" (2.500)	-	-	(94)	(121)			(103)	
_	S7044	23/4" (2.750)	-	-	(0.)	(.2.)	(122)	(0.)	(.00)	
	S7048	3" (3.000)	-	-						
S	SUFFIX	Note: Add assi complete asse	mbly as shown	factory. Part number. Example: S-1004<u>S</u> I with stainless steel component able in Steel with Polypropylene				ts.		
l L		Compo	onents	Cushion				E	xample	
	none	Ste	eel	Polypropylene (green)					-10045	
	-AL Steel				Aluminum				1004S- <i>i</i>	AL
	-SS	Stainles	ss Steel	Polypropylene (green)				S-	1004S-S	SS



BETA CLAMPS - STANDARD



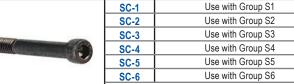
HEX BOLT

(Two required per assembly)



SHB1	Use with Group S1
SHB2	Use with Group S2
SHB3	Use with Group S3
SHB4	Use with Group S4
SHB5	Use with Group S5
SHB6	Use with Group S6
SHB7	Use with Group S7

STANDARD SERIES CAP SCREW (Two required per assembly)



STACKING BOLTS

(Two required per assembly)



SB1	Use with Group S1
SB2	Use with Group S2
SB3	Use with Group S3
SB4	Use with Group S4
SB5	Use with Group S5
SB6	Use with Group S6

C-RAIL NUT (Two required per assembly)



SRN1-6	1/4" nut, Use with SCR Rail

STANDARD SERIES WELD PLATE



SWP1	Use with Group S1
SWP2	Use with Group S2
SWP3	Use with Group S3
SWP4	Use with Group S4
SWP5	Use with Group S5
SWP6	Use with Group S6
SWP7	Use with Group S7



C-IXAI	
SCR1	39" (1 meter)
SCR2	78" (2 meter)
	28 mm - 2 mm - 11 mm

STRUT NUT - For connection to Z-Strut Channel (Two required per assembly)

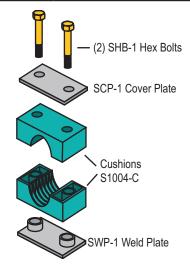


ZSA1-8	Use with Groups S1-S8



	Z-Stru	ıt
	Z1625	1 ⁵ /8" x 1 ⁵ /8"
	Z8125	1 ⁵ /8" x ¹³ / ₁₆ "
	Z1000	1 ⁵ /8" x 1"
	Z875	1 ⁵ /8" x ⁷ /8"

ORDERING EXAMPLE							
S1004S							
Assembly Includes							
Quantity	Part No.	Description					
1 Each	SWP1	Weld Plate					
1 Each	SCP1	Cover Plate					
2 Each	SHB1	Hex Bolts					
1 set	S1004C	Cushions					



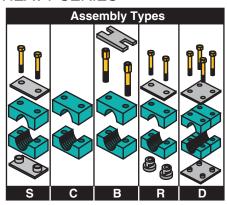
BETA CLAMPS - HEAVY





BETA CLAMPS

HEAVY SERIES



BETA HEAVY SERIES

- · Recommended systems with greater than 1500 PSI operating pressure, operations with pressure surges, and applications with wide temperature fluctuations.
- · Absorbs high levels of shock, noise, and vibration
- Cushions are polypropylene (Green color) or Aluminum.
- · Aluminum cushions and are used in higher heat applications up to 500 Degrees.

INSTALLATION - Refer to pages 147-148 for complete installation guide.

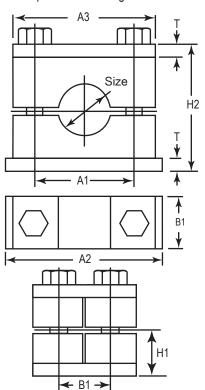


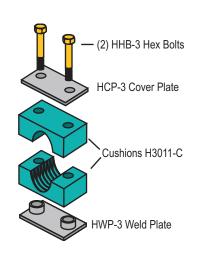




Figure F
H3006 3/6" (0.375) — H3007 — 1/6" (0.405) H3008 1/2" (0.500) — H3009 — 1/4" (0.540) H3011 — 3/6" (0.625) — H3011 — 3/6" (0.675) H4012 3/4" (0.750) — H4015 7/6" (0.875) — H4016 1" (1.000) — H4017 — 3/4" (1.050) — H4017 — 3/4" (1.050) — H5020 11/4" (1.250) — H5021 — 1" (1.315) H5024 11/2" (1.500) — H5022 1" — 11/4" (1.660) H5032 2" (2.000) — H6033 — 11/2" (1.900) H6034 21/4" (2.250) — H6034 21/4" (2.250) — H6035 23/6" (2.375) H6040 21/2 (2.500) — H7046 — 21/2" (2.870) H7056 — 3"(3.500) H7057 31/2" (3.500) — H7056 — 3"(3.500) H7057 31/2" (3.500) — H7057 31/2" (3.500)
H3007
H3 H3008 1/2" (0.500) -
H3008
H3009 — 1/4" (0.540) H3010 5/6" (0.625) — H3011 — 3/6" (0.675) H4012 3/4" (0.750) — H4014 — 1/2 (0.840) H4015 7/6" (0.875) — (45) H4016 1" (1.000) — H4017 — 3/4" (1.050) H5020 11/4" (1.250) — H5021 — 1" (1.315) H5024 11/2" (1.500) — (60) H5027 — 11/4" (1.660) H6038 13/4" (1.750) — H6030 — 11/2" (1.900) H6032 2" (2.000) — (90) H6032 2" (2.000) — (90) H6034 21/4" (2.250) — (90) H6036 — 21/2" (2.375) H6040 21/2 (2.500) — (100) H7056 — 3"(3.500) — (122) H7056 — 3"(3.500) — (122) H8 H8072 — 4" (4.500) 6.61 (168) (225) (205) (80) (100) (200) (15) 7/2" H8 H8072 — 4" (4.500) 6.61 (168) (225) (205) (80) (100) (200) (15) 7/2"
H3011
H4012 3/4" (0.750)
H4014
H4015 7/8" (0.875) — 1.77 (45) (85) (70) (30) (32) (64) (8) 2-1/4" (45) (85) (70) (30) (32) (64) (8) 2-1/4" (10) 2-1/4"
H4016 1" (1.000) - (45) (85) (70) (30) (32) (64) (8) 2-1/4" H4017 - 3/4" (1.050) - (45) (85) (70) (30) (32) (64) (8) 2-1/4" H5020 11/4" (1.250) - (50) (100) (84) (30) (38) (76) (8) 2-3/4" H5021 - 1" (1.315) 2.36 3.93 3.30 1.18 1.49 2.99 0.31 3/6"-16 x 2-3/4" H5024 11/2" (1.500) - (60) (100) (84) (30) (38) (76) (8) 2-3/4" H6028 13/4" (1.750) - (60) (100) (84) (30) (38) (76) (8) 2-3/4" H6030 - 11/2" (1.900) - (90) (115) (115) (45) (55) (110) (10) 4" H6034 21/4" (2.250) - (90) (115) (115) (45) (55) (110) (10) 4" H6040 21/2 (2.500) - (90) (115) (115) (45) (55) (110) (10) 4" H7044 23/4" (2.750) - (48) 7.08 (152) (60) (70) (140) (10) 5-1/4" H7056 - 3"(3.500) - (120) (120) (120) (120) (120) (120) (15) (150) (1
H4016 1" (1.000) -
H5020 11/4" (1.250) — H5021 — 1" (1.315) 2.36 (60) (100) (84) (30) (38) (76) (8) 2.99 0.31 3/8".16 x 2.3/4" H5027 — 11/4" (1.660) — H6038 13/4" (1.750) — H6030 — 11/2" (1.900) — H6034 21/4" (2.250) — H6038 23/8" (2.375) 2" (2.375) — H6040 21/2 (2.500) — H7044 23/4" (2.750) — H7056 — 21/2"(2.870) — H7056 — 3"(3.500) — H7057 31/2"(3.500) — H7057 31/2"(3.500) — H8 H8072 — 4" (4.500) (6.61) 8.86 8.07 (225) (80) (100) (200) (15) 71/2"
H5021 — 1" (1.315) 2.36 (60) (100) (84) (30) (38) (76) (8) 2.99 0.31 3/6"-16 x 2-3/4" H5027 — 11/4" (1.660) — H6038 13/4" (1.750) — H6032 2" (2.000) — 3.54 5.90 (115) (45) (55) (110) (10) 4" H6038 23/6" (2.375) 2" (2.375) — H6040 21/2 (2.500) — H7044 23/4" (2.750) — H7046 — 21/2"(2.870) — H7056 — 3"(3.500) — H7057 31/2"(3.500) — H7057 31/2"(
H5024 1½" (1.500) — (60) (100) (84) (30) (38) (76) (8) 2-3¼" H6028 1¾" (1.750) — H6030 — 1½" (1.900) — (90) (15) (15) (45) (55) (110) (10) (10) (10) (10) (10) (10) (1
H6028 13/4" (1.750)
H6038 13/4" (1.750)
H6030 — 11/2" (1.900) H6032 2" (2.000) — 3.54 (90) (115) (15) (15) (15) (15) (10) (10) (10) 4" H6038 2 ³ / ₈ " (2.375) 2" (2.375) H6040 2 ¹ / ₂ (2.500) — 47046 — 2 ¹ / ₂ (2.870) H7056 — 3"(3.500) — 47057 3 ¹ / ₂ "(3.500) — 480 (122) (180) (152) (60) (70) (140) (10) (10) 4" H8 H8072 — 4" (4.500) 6.61 (168) (225) (205) (80) (100) (200) (15) 7 ¹ / ₂ "
H6032 2" (2.000)
H6034 2½"(2.250) — (90) ()150 (115) (45) (55) (110) (10) 4" H6038 2¾" (2.375) 2" (2.375) H6040 2½(2.500) — H7044 2¾" (2.750) — H7046 — 2½"(2.870) H7050 3"(3.000) — H7056 — 3"(3.500) H7057 3½"(3.500) — H8 H8072 — 4" (4.500) 6.61 8.86 8.07 (225) (80) (100) (200) (15) 7½"
H6038 23/8" (2.375) 2" (2.375) -
H7044 2 ³ / ₄ " (2.750)
H7044 2 ³ / ₄ " (2.750)
H7046 - 21/2"(2.870) H7050 3"(3.000) - H7056 - 3"(3.500) H7057 31/2"(3.500) - H8 H8072 - 4" (4.500) 6.61 (168) (225) (205) (80) (100) (200) (15) 71/2"
H7 H7050 3"(3.000) - 4.80 (122) (180) (152) (60) (70) (140) (10) (10) (10) (10) (10) (10) (10) (1
H7050 3"(3.000) - (122) (180) (152) (60) (70) (140) (10) 5-1/4" H7056 - 3"(3.500) - (122) (180) (152) (60) (70) (140) (10) 5-1/4" H8072 - 4" (4.500) 6.61 8.86 8.07 (225) (205) (80) (100) (200) (15) 71/2"
H7057 3½"(3.500) —
H8 H8072 - 4" (4.500) 6.61 (168) 8.86 (225) 8.07 (205) 3.15 (80) 3.94 (7.87 (200)) 7.87 (200) 0.59 (15) 3/4"-10 x (7½")
H8 H8072 - 4* (4.500) (168) (225) (205) (80) (100) (200) (15) 7 ¹ / ₂ "
H9089 - 5" (5.563) 8.07 (40.62 0.02 2.54 4.52 0.06 0.50 7/4" 0.11
H9089 - 5" (5.563) 8.07 10.63 9.92 3.54 4.53 9.06 0.59 7/8"-9 x
H9 H9106 - 6" (6.625) (221) (270) (252) (90) (115) (230) (15) 8-1/4"
H10 H10137 - 8" (8.625) 10.43 13.39 12.60 4.72 6.30 12.60 0.98 M30 (265) (340) (320) (120) (160) (320) (25) x300mm
H11 H11170 - 10" (10.750) 15.55 20.47 18.35 6.30 9.25 18.50 1.18 M30 (395) (520) (466) (160) (235) (470) (30) x450mm
*For additional sizes contact factory. Note: Add assembly type to part number. Example: H-3004S-SS provides the complete assembly as shown with stainless steel components.
SUFFIX Components Cushion Example (complete assembly):
NONE Steel Polypropylene (green) H-3004S
-AL Steel Aluminum H-3004S-AL
-SS Stainless Steel Polypropylene(green) H-3004S-SS

C-RAIL NUTS HEAVY SERIES COVER PLATE HEAVY SERIES SAFETY PLATE (Two required per single assembly) Use w/Group H3 Use w/Group H3 HCP3 HSP3 3/8" nut, Use w/ HRN-3-5 Groups H3-H5 HCP4 Use w/Group H4 HSP4 Use w/Group H4 Use w/Group H5 Use w/Group H5 HCP5 HSP₅ 7/1" nut, Use w/ HRN6 Group H6 HCP6 Use w/Group H6 HSP6 Use w/Group H6 Use w/Group H7 Use w/Group H7 HCP7 HSP7 Note: Rail mounted stacking kit HCP8 Use w/Group H8 HSP8 Use w/Group H8 is only available on groups H3, H4, and H5 Use w/Group H9 Use w/Group H9 HCP9 HSP9 **HEAVY SERIES HEX BOLTS HEAVY SERIES STACKING BOLTS** C-RAIL (Two required per single assembly) (Two required per single assembly) Use w/Group H3 HHB3 HSB₃ Use w/Group H3 HCR-1 39" (1 meter) Use w/Group H4 Use w/Group H4 78" (2 meter) HHB4 HSB4 HCR-2 Use w/Group H5 Use w/Group H5 HHB5 HSB₅ 40 mm Use w/Group H6 Use w/Group H6 HHB6 HSB6 13 mm HHB7 Use w/Group H7 HSB7 Use w/Group H7 Use w/Group H8 Use w/Group H8 HHB8 HSB8 Use w/Group H9 Use w/Group H9 HHB9 HSB9 **HEAVY SERIES WELD PLATE HEAVY SERIES DOUBLE WELD PLATE HEAVY SERIES DOUBLE COVER PLATE** Use w/Group H3 Use w/Group H3 Use w/Group H3 HWP3 HDP3 DCP3 Use w/Group H4 Use w/Group H4 HWP4 Use w/Group H4 HDP4 DCP4 Use w/Group H5 Use w/Group H5 Use w/Group H5 HWP5 HDP5 DCP5 HWP6 Use w/Group H6 HDP6 Use w/Group H6 DCP6 Use w/Group H6 Use w/Group H7 Use w/Group H7 Use w/Group H7 HWP7 HDP7 DCP7 HWP8 Use w/Group H8 HWP9 Use w/Group H9

ORDERING EXAMPLE					
H3004S					
Assembly Includes					
Quantity	Part No.	Description			
1 Each	HWP-3	Weld Plate			
1 Each	HCP-3	Cover Plate			
2 Each	HHB-3	Hex Bolts			
1 set	H3011C	Cushions			



🚂 industrial

BETA CLAMPS - TWIN

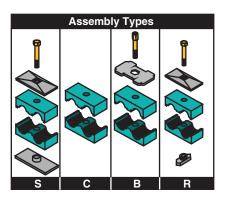




BETA CLAMPS

TWIN SERIES





Size Size Н3 H2 ∱ 5mm A1 A3 A2 (.2")30mm (1.2")

BETA CLAMPS TWIN SERIES are ideal for general-duty applications subject to moderate levels of shock and vibration. Cushions in this series are Polypropylene (Green Color).

Call factory for additional sizes and cushion materials

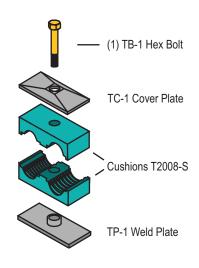
INSTALLATION - Refer to pages 147-148 for complete installation quide

Cuann	Steel	Tube	Pipe		Dimensions - inch (mm)						Hex
Group	Part No.	Size	Size	A1	A2	A3	H1	H2	Н3	WT∕ 100	Bolt
	T1004	1/4"								21	
T1	T1006	3/8"		0.78 (20)	1.45 (37)	1.41 (36)	0.72 (18.5)	1.06 (27)	1.69 (43)	21	¹ /4"-20 x 1 ³ /8"
	T1007		1/8"			, ,			, ,	21	
	T2008	1/2"				2.08 (53)	0.70 (18)			31	
T2	T2009		1/4"	1.14	2.16			1.02 (26)	1.71	31	5 / 10 11 10 11 13 / 11
12	T2010	5/8"		(29)	(55)				(43.5)	31	5/16"-18 x 1 ³ /8"
	T2011		3/8"							31	
	T3012	3/4"			2.75 (70)	2.63 (67)	0.92 (23.5)	1.45 (37)	2.14 (54.5)	40	⁵ /16"-18 x 1 ³ /4"
Т3	T3014		1/2"	1.41 (36)						39	
10	T3015	7/8"								39	
	T3016	1"								38	
T4	T4017		3/4"	1.77 3.34	3.22	1.02	1.65	2.34	49	5/16"-18 x 2"	
14	T4018	11/8"		(45)	(85)	(82)	(26)	(42)	(59.5)	49	9/16"-18 X Z"
	T5020	11/4"								65	
T5	T5021		1"	2.20	4.33 (110)	4.17 (106)	1.25 (32)	2.12 (54)	2.81 (71.5)	65	⁵ / ₁₆ -18 x 2- ³ / ₈
10	T5024	11/2"		(56)						64	
	T5027		11/4"							62	
* For additional sizes contact factory. Note: Add assembly type to part number. Example: T1004S-SS provides the complete assembly as shown with stainless steel components.											
	SUFFIX	Components		Cushion Example							
İ	none	Steel		Polypropylene (green) T1004S							
ľ	SS	Stainless Steel		Polypropylene (green) T1004S-SS							



TWIN SERIE	S COVER	RPLATE	TWIN S	ERIES SAFETY	PLATE			
	TC1	Use with Group T1		TSP1	Use with Group T1			
	TC2	Use with Group T2		TSP2	Use with Group T2			
	TC3	Use with Group T3		TSP3	Use with Group T3			
	TC4	Use with Group T4		TSP4	Use with Group T4			
	TC5	Use with Group T5		TSP5	Use with Group T5			
TWIN	HEX BOL	.т	C-RAIL NUT					
	TB1	Use with Group T1		SRN1-6	1/4" Nut,			
	TB2	Use with Group T2		OKIVI-0	Use with Group T1			
THE STATE OF THE S	TB3	Use with Group T3		TRN2-5	⁵ /16" Nut,			
	TB4	Use with Group T4		TRICE	Use with Group T2 to T5			
	TB5	Use with Group T5						
TWIN ST	ACKING I	BOLT	C-RAIL C-RAIL					
	TSB1	Use with Group T1		SCR1	39" (1 meter)			
	TSB2	Use with Group T2	22	SCR2	78" (2 meter)			
	TSB3	Use with Group T3						
	TSB4	Use with Group T4		28 mm				
	TSB5	Use with Group T5						
					11 mm			
TWIN SERI	ES WELD	PLATE		•				
	TP1	Use with Group T1						
	TP2	Use with Group T2						
2 9 5	TP3	Use with Group T3						
	TP4	Use with Group T4						
	TP5	Use with Group T5						

OF	DERING EX	AMPLE						
T2008S								
F	Assembly Includes							
Quantity Part No. Description								
1 Each	TP1	Weld Plate						
1 Each	TC1	Cover Plate						
1 Each	TB1	Hex Bolts						
1 set	T2008S	Cushions						





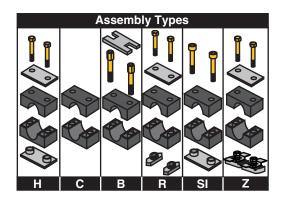




BETA "SMOOTHIE"

STANDARD SERIES

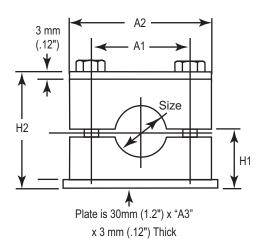




Beta "Smoothie" is ideal for general-duty applications where there is a need to reduce wear on hose connection caused by vibration and surge.

- Chamfered and smooth core protects hose cover and extends the life of the hose
- Uses Standard Beta hardware
- · Reduces wear on hose connection caused by vibration and surge

INSTALLATION - Refer to pages 147-148 for complete installation guide.



	Part SAE 100R1			Dir		MT/			
Group	No.	SAE 100R1 Hose Size	A 1	A2	А3	H1	H2	WT∕ 100	Bolt
00	S2004H	1/4" (0.53)	1.02	1.57	1.65	0.76	1.535	20	1/4 – 20 x 1 ³ /8
S2	S2006H	3/8" (0.69)	1.02	1.57	1.65	0.76	1.535	20	1/4 – 20 X 19/8
00	S3008H	1/2" (0.81)	1.29	1.96	2.04	0.80	1.61	25	¹ / ₄ – 20 x 1 ¹ / ₂
S 3	S3010H	5/8" (0.93)	1.29	1.96	2.04	0.80	1.61	25	74 – 20 X 172
S4	S4012H	3/4" (1.10)	1.57	2.28	2.36	0.94	1.88	29	1/4 – 20 x 1 ³ /4
S 5	S5016H	1" (1.42)	2.05	2.75	2.83	1.25	2.52	39	1/4 – 20 x 21/2

*For additional sizes and stainless steel contact factory. Note: For configurations other than "H", Add Assembly type to Part No.

Example: \$2004H provides the complete assembly as shown and \$2004H-Z provides the "Z" assembly as shown

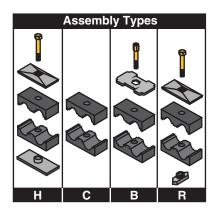


BETA CLAMPS - "SMOOTHIE"

BETA "SMOOTHIE"

TWIN SERIES

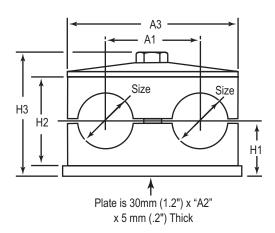




Beta "Smoothie" is ideal for general-duty applications where there is a need to reduce wear on hose connection caused by vibration and surge.

- · Chamfered and smooth core protects hose cover and extends the life of the hose
- Uses Standard Beta Twin hardware
- Reduces wear on hose connection caused by vibration and surge

INSTALLATION - Refer to pages 147-148 for complete installation guide.



Cuarra	Part	SAE 100R1							WT⁄	Bolt
Group No.	Hose Size	A1	A2	A 3	H1	H2	Н3	100	Buit	
To	T2004H	1/4" (0.53)	1.14	2.16	2.08	0.70	1.02	1.71	31	5/16 – 18 x 1 ³ /8
T2	T2006H	3/8" (0.69)	1.14	2.16	2.08	0.70	1.02	1.71	31	9/16 - 10 X 19/8
T3	T3008H	¹ /2" (0.81)	1.41	2.75	2.63	0.92	1.45	2.14	39	⁵ / ₁₆ – 18 x 1 ³ / ₄
Τ.	T4010H	5/8" (0.93)	1.77	3.34	3.22	1.02	1.65	2.34	49	5/10 10 11 0
T4	T4012H	3/4" (1.10)	1.77	3.34	3.22	1.02	1.65	2.34	49	⁵ / ₁₆ – 18 x 2
T5	T5016H	1" (1.42)	2.2	4.33	4.17	1.25	2.12	2.81	65	⁵ / ₁₆ – 18 x 2 ³ / ₈

*For additional sizes and stainless steel contact factory.

Note: For configurations other than "H", Add Assembly type to Part No.

Example: T2004H provides the complete assembly as shown and T2004H-B provides the "B" assembly as shown

industrial







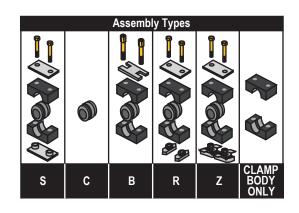
BETA CLAMPS

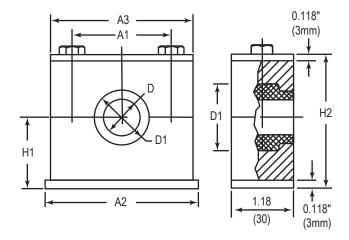
STANDARD RUBBER INSERT



- · One cushion block provides flexible size range of cushioning.
- Smooth bore core can be used on hose, or for vibration reduction
- Broad range of metric sizes.
- Maintains center line when used in groups.

INSTALLATION - Refer to pages 147-148 for complete installation guide.





Group	Part	Bore Si	ze Ø D	Tube	Pipe	Nom. Size Hose O.D.			Dimensi	ons – incl	nes (mm)			Bolt	
	No.	in	(mm)	O.D.	Size	Min - Max	D	D1	H1	H2	A1	A2	A3	Size	
	SM4006RI	0.24	6	-	-	0.22 - 0.24									
	SM4008RI	0.32	8	1/16"	-	0.30 - 0.32									
	S4007RI	0.39	10	-	1/8"	0.37 - 0.39									
	SM4012RI	0.47	12	-	-	0.45 - 0.47									
	S4008RI	0.50	12.7	1/2"	-	0.48 - 0.50						l		1/4-20	
S4	SM4014RI	0.55	14	-	-	0.53 - 0.55	1.00 (25.5)	1.22 (31)	0.925 (23.5)	1.85 (47)	1.57 (40)	2.32 (59)	2.24 (57)	х	
	SM4015RI	0.59	15	-	-	0.57 - 0.59	(20.0)	(0.)	(20.0)	(,	(10)	(00)	(3.7)	1 ³ / ₄	
	S4010RI	0.63	16	5/8"	-	0.61 - 0.63									
	S4011RI	0.68	17.2	-	3/8"	0.66 -0.68									
	S4012RI	0.75	19	3/4"	-	0.73 - 0.75									
	S4C		Clamp B	ody Only	/ (Grou	p S4)									
	S6014RI	0.79	20	-	1/2"	0.77 - 0.79									
	S6015RI	0.87	22	7/8"	-	0.85 - 0.87									
	S6016RI	0.98	25	1"	-	0.96 - 0.98									
S6	S6017RI	1.06	26.9	-	3/4"	1.04 - 1.06	1.54	1.81	1.40	2.80	2.60	3.46	3.39	¹ /4-20 x	
30	SM6028RI	1.10	28	-	-	1.08 - 1.10	(39)	(46)	(35.5)	(71)	(66)	(88)	(86)	2-3/4	
	SM6030RI	1.18	30	-	-	1.16 - 1.18	⊣ ।								
	S6020RI	1.26	32	11/4"	-	1.24 - 1.26]							
	S6C		Clamp B	ody Only	/ (Grou	p S5)									

*For additional sizes and stainless steel contact factory.

Note: Add Assembly type to Part No.- Example: SM4006RIS provides the complete assembly as shown

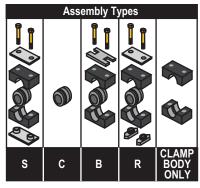


BETA CLAMPS - HEAVY RUBBER INSERT

BETA CLAMPS

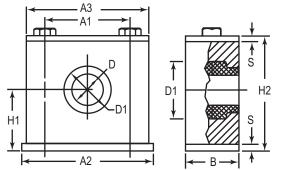
HEAVY RUBBER INSERT





INSTALLATION - Refer to pages 147-148 for installation guide.

- · One block provides flexible size range of cushioning.
- Smooth bore core for hose, or vibration reduction
- · Broad range of metric sizes.
- Maintains center line when used in groups.
- For high pressure hydraulics and heavy duty operations.
- · Used for intermittent load and high oil speeds.
- Increase size range over standard series.



C	Part	Bore Ø D	Tube	Pipe	Nom. Size			D	imensic	ns –inc	hes (mr	n)			Bolt			
Group	No.	in. (mm)	O.D.	Size	Hose O.D	D	D1	В	H1	H2	A1	A2	A3	S	Size			
	HM4006RI	0.24 (6)	i -	-	0.22 - 0.24													
-	HM4008RI	0.32 (8)	1/16"	-	0.30 - 0.32	1												
-	H4007RI	0.39 (10)	-	1/8"	0.37 - 0.39	1												
	HM4012RI	0.47 (12)	-	-	0.45 - 0.47	1												
-	H4008RI	0.50 (12.7)	1/2"	-	0.48 - 0.50	1			1.22 (31)	2.44 (62)			0.70					
H4	HM4014RI	0.55 (14)	-	-	0.53 - 0.55	1.00 (25.5)	1.24 (31.5)	1.18 (30)			1.77	3.35 (85)	2.76 (70)	0.32 (8)	³ /8 -16 2- ¹ /4			
	HM4015RI	0.59 (15)	-	-	0.57 - 0.59	(23.3)	(31.3)	(30)			(45)	(00)	(70)	(0)	Z-1/4			
Î	H4010RI	0.63 (16)	5/8"	-	0.61 - 0.63	1	İ	İ	İ	İ	İ				İ			
Ĩ	H4011RI	0.68 (17.2)	-	3/8"	0.66 -0.68	1		İ		İ								
	H4012RI	0.75 (19)	3/4"	-	0.73 - 0.75	1				İ	l							
	H4C	Clar	mp Body C	nly (Grou	p H4)	1	İ	ĺ		ĺ					İ			
	H5014RI	0.79 (20)	-	1/2"	0.77 - 0.79		İ											
Ĩ	H5015RI	0.87 (22)	7/8"	-	0.85 - 0.87	1												
	H5016RI	0.98 (25)	1"	-	0.96 - 0.98	1	1.83 (46.5)	1.18 (30)		2.91 (74)	2.36 (60)	3.94 (100)	3.35 (85)	0.32 (8)	İ			
ue	H5017RI	1.06 (26.9)	-	3/4"	1.04 - 1.06	1.54			1.46						3/8-16x			
H5	HM5028RI	1.10 (28)	-	-	1.08 - 1.10	(39)			(37)						2-3/4			
	HM5030RI	1.18 (30)	-	-	1.16 - 1.18	1		ĺ		ĺ								
	H5020RI	1.26 (32)	11/4"	-	1.24 - 1.26	1												
Ī	H5C	Clar	np Body C	nly (Grou	p H5)	1	İ	ĺ		ĺ					İ			
	H6021RI	1.33 (33.7)	-	1"	1.31 - 1.33													
	HM6035RI	1.38 (35)	-	-	1.36 - 1.38	1	İ							İ		İ		
Ĩ	H6024RI	1.50 (38)	11/2"	-	1.48 - 1.50	1	İ											
ľ	HM6040RI	1.58 (40)	-	-	1.56 - 1.58			1		İ	İ		İ	l				
Ĩ	H6027RI	1.65 (42)	-	1½"	1.63 - 1.65	1		l		۱								
Н6	HM6045RI	1.79 (45.5)	-	-	1.77 - 1.79	2.56 (65)	2.91	1.77 (45)	2.11 (53.5)	4.21 (107)	3.56 (90.5)	5.51 (140)	4.53 (115)	0.39 (10)	1/2-13 4			
Ĩ	H6030RI	1.89 (48)	-	11/2"	1.87 - 1.89	(65)	(74)	(45)	(55.5)	(107)	(90.5)	(140)	(115)	(10)	4			
Ĩ	H6032RI	2.01 (51)	2"	-	1.99 - 2.01	1	İ	İ	İ	İ	İ				İ			
Ĩ	H6034RI	2.10 (53.4)	21/8"	-	2.08 - 2.10	1		İ		İ	l				İ			
	HM6056RI	2.22 (56.4)	-	-	2.2 - 2.22													
ľ	H6C	Clar	mp Body C	nly (Grou	p H6)	1		İ		İ	l				İ			
	H7038RI	2.36 (60)	-	2"	2.34 - 2.36		İ	ĺ	İ	ĺ								
Ĩ	HM7065RI	2.56 (65)	-	-	2.54 - 2.56	1		İ		İ								
	HM7070RI	2.76 (70)	-	-	2.74 - 2.76	3.50	3.86	2.36	2.70	5.39	4.80	7.09	5.98	0.39	5/8-11			
H7	H7046RI	2.87 (73)	-	21/2"	2.85 - 2.87	(89)	(98)	(60)	(68.5)	(137)	(122)	(180)	(152)	(10)	5-1/2			
-	H7050RI	2.99 (76)	3"	-	2.97 - 2.99	1 ` ′	` ′		` ′	` ′	, <i>,</i>	, ,	, ,	, ,				
-	H7C		np Body C	nlv (Grou		1									l			
	HM8083RI	3.27 (83)	-	-	3.19 - 3.27			<u> </u>		 					 			
Н8	H8056RI	3.50 (89)	31/2"	3"	3.43 - 3.50	4.57	5.20	3.15	3.88	7.76	6.61	8.86	8.07	0.59	3/4-10			
-110	H8C		np Body C			(116)		(80)			(168)	(225)	(205)	(15)	7-1/2			
For ad	Iditional sizes																	

Note: Add Assembly type to Part No.- Example: HM4006RIS provides the complete assembly as shown

industrial







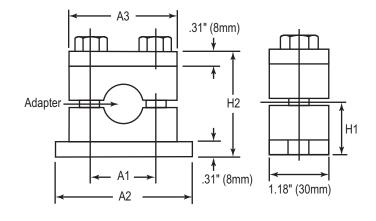
BETA ADAPTER



The **BETA-ADAPTER** allows a clamping junction to be inserted into virtually any hydraulic line. The exclusive square bodied junction adapter design can be used with metallic tubing or hydraulic hose ends. It provides a point of union for hydraulic runs which transition from one form of conveyance to another (i.e. hose to tubing). Once inserted into the customized Beta-Adapter clamp body, the junction point is securely clamped fighting the effects of vibration, insuring a leak-free system.

- Beta-Adapter cushions can also be used with rubber inserts.
- Z-Clamp split bushings from Group 1 can be utilized with the basic Beta-Adapter Group 4 cushion.
- Z-Clamp bushings from Group 2 coincide with Group 5 Beta-Adapter assemblies.
- The split bushings provide extra vibration absorption for delicate clamping surfaces.

INSTALLATION - Refer to page 149 for complete installation guide.



Group	A1	A2	А3	H1	H2	Hex Bolt
Group 1	45mm	85mm	70mm	32mm	64mm	³ /8"-16
H4 BETA	1.77	3.34	2.75	1.25	2.51	x 2- ¹ /4"
Group 2	60mm	100mm	84mm	38mm	76mm	³ /8"-16
H5 BETA	2.36	3.93	3.30	1.49	2.99	x 2- ³ /4"

Tube

Group 1 (H4)

Group 2 (H5)

		Size	Part No.	Part No.	
		1/4"	H4MJA1-4-S	H5MJA2-4-S	
		3/8"	H4MJA1-6-S	H5MJA2-6-S	
		1/2"	H4MJA1-8-S	H5MJA2-8-S	
	37° JIC	5/8"	H4MJA1-10S	H5MJA2-10S	
THE PARTY OF THE P		3/4"	-	H5MJA2-12S	
		5/8"	-	H5MJA2-14S	
		1"	-	H5MJA2-16S	
		3/8"	H4MJO1-6-S	H5MJO2-6-S	
		1/2"	H4MJO1-8-S	H5MJO2-8-S	
	O-Ring	5/8"	H4MJO1-10S	H5MJO2-10S	
	Face Seal	3/4"	-	H5MJO2-12S	
		1"	-	H5MJO2-16S	
	Female	1/2"	H4FJA1-8-S	_	
The state of	Junction	3/4"	_	H5FJA2-12S	
	Female Pipe	3/8" NPT	H4FJA1-6P-S	H5FJA2-12P-S	
	Beta Cushions Only (Set of Two)	-	H4JCN-C	H5JCN-C	
	Z-Clamp Split Bushing	-	HAC-1 (1-1/2" SERIES) CAN BE USED	HAC-2 (2" SERIES) CAN BE USED	

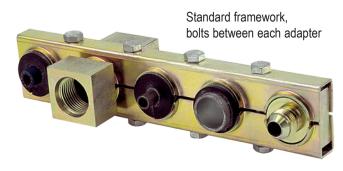




Z-CLAMP UNITS

The **Z-Clamp** is designed to maintain a consistent center line dimension for horizontal clamping or vertical stackable clamping applications. Z-Clamp maintains that center line while accommodating the same, or different diameter tubing, hose or pipe. Suited for all types of hydraulic hose, tubing, and pipe clamping applications, the Z-Clamp provides yet another alternative to the broadest cushion clamping product line in the world.

A Z-Clamp consists of an adapter framework which is offered in two versions. One has mounting bolts between each adapter insert and the other has two additional mounting bolts at each end of the frame.





Z-Clamps can be stacked for even more line clamping ability.



Outside hole framework, bolts between each adapter and two additional bolts at each end

Z-CLAMP & BETA ADAPTER

OPTIONAL ADAPTERS



O-RING FACE SEAL

FEMALE JUNCTION ADAPTER







The Z-Clamp inserts are also used with the Beta Adapter.



RUBBER SPLIT BUSHINGS



37° FLARE MALE **JUNCTION ADAPTER**

industrial







Z-CLAMP - MULTIPLE LINE CLAMPING SYSTEM

STANDARD CLAMP UNITS

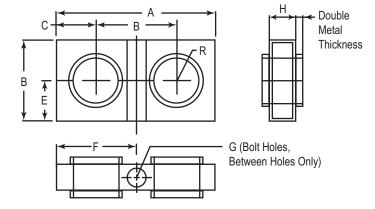


The standard Z-Clamp unit features an anchor bolt between each of the adapter inserts.

The junction adapter provides break points in lines allowing for shorter hose and tubing runs reducing leaks at connection points by securing the adapter against vibration within the Z-Clamp units. These break points may also serve as securely clamped changeover points between hose and tube, and vice versa.

- · Stackable for space conservation
- Maintains consistent center line dimensions between lines both horizontally and vertically (in a stacking application)
- · Mix and match pipe, tube, hose and junction adapters
- Suited for all types of hydraulic applications
- · Available in standard and outside hole mounting configurations

INSTALLATION - Refer to page 149 for complete installation guide.



Note: Adapters and Hardware are ordered separately. Please see pages 124 - 126 for selection of these items.



Part No.	# Adapter Holes	# Bolts	A	В	С	E	F	G	н	R		
			HAG	C1 Serie	s 1½" 1	4 Gauge						
HAC1-2	2	1	2.938"	1.5"	0.719"	0.75"	1.469"	0.344"	0.550"	0.422"		
HAC1-3	3	2	4.406"	1.5"	0.719"	0.75"	1.469"	0.344"	0.550"	0.422"		
HAC1-4	4	3	5.940"	1.5"	0.719"	0.75"	1.469"	0.344"	0.550"	0.422"		
HAC1-5	5	4	7.140"	1.5"	0.594"	0.75"	1.343"	0.344"	0.550"	0.422"		
HAC1-6	6	5	8.938"	1.5"	0.719"	0.75"	1.469"	0.344"	0.550"	0.422"		
HAC1-7	7	6	10.188"	1.5"	0.594"	0.75"	1.343"	0.344"	0.550"	0.422"		
HAC1-32	32	31	48.000"	1.5"	-	0.75"	-	0.344"	0.550"	0.422"		
	HAC2 Series 2" 14 Gauge											
HAC2-2	2	1	3.875"	2"	0.938"	1"	1.938"	0.344"	0.550"	0.594"		
HAC2-3	3	2	5.641"	2"	0.844"	1"	1.844"	0.344"	0.550"	0.594"		
HAC2-4	4	3	7.891"	2"	0.938"	1"	1.938"	0.344"	0.550"	0.594"		
HAC2-5	5	4	9.672"	2"	0.844"	1"	1.844"	0.344"	0.550"	0.594"		
HAC2-6	6	5	11.672"	2"	0.813"	1"	1.813"	0.344"	0.550"	0.594"		
HAC2-7	7	6	13.625"	2"	0.813"	1"	1.813"	0.344"	0.550"	0.594"		
HAC2-24	24	23	48.000"	2"	-	1"	-	0.344"	0.550"	0.594"		
			H/	AC3 Seri	es 3" 11	Gauge						
HAC3-2	2	1	6.766"	3"	1.875"	1.5"	3.375"	0.406"	0.750"	1.063"		
HAC3-3	3	2	8.703"	3"	1.406"	1.5"	2.984"	0.406"	0.750"	1.063"		
HAC3-4	4	3	11.703"	3"	1.406"	1.5"	2.797"	0.406"	0.750"	1.063"		
HAC3-5	5	4	14.703"	3"	1.406"	1.5"	2.859"	0.406"	0.750"	1.063"		
HAC3-6	6	5	17.703"	3"	1.406"	1.5"	2.859"	0.406"	0.750"	1.063"		
HAC3-16	16	15	48.000"	3"	-	1.5"	-	0.406"	0.750"	1.063"		
			NOTE: H	Hardware 8	& Adapters	not includ	led.					

Z-CLAMP - OUTSIDE HOLES



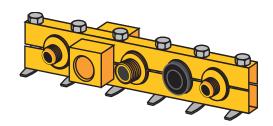
Z-CLAMP

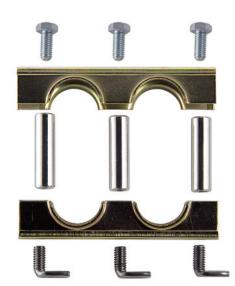
OUTSIDE HOLE CLAMP UNITS

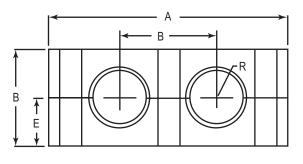


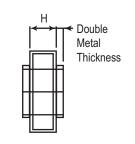
- Stackable for space conservation
- · Maintains consistent center line dimensions between lines both horizontally and vertically (in a stacking application)
- · Mix and match pipe, tube, hose and junction adapters
- Suited for all types of hydraulic applications
- · Available in standard and outside hole mounting configurations

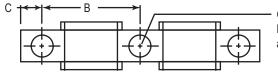
INSTALLATION - Refer to page 149 for complete installation guide.











G (Bolt Holes, Between Holes and at Each End)

Note: Adapters and Hardware are ordered separately. Please see pages 124 - 126 for selection of these items.



Part No.	# Adapter Holes	# Bolts	A	В	С	E	G	н	R			
			HA	C1 Serie	s 1½"							
HAC1-1-2	1	2	2.188"	1.5"	0.344"	0.75"	0.344"	0.550"	0.422"			
HAC1-2-3	2	3	3.797"	1.5"	0.391"	0.75"	0.344"	0.550"	0.422"			
HAC1-3-4	3	4	5.297"	1.5"	0.391"	0.75"	0.344"	0.550"	0.422"			
HAC1-4-5	4	5	6.797"	1.5"	0.391"	0.75"	0.344"	0.550"	0.422"			
HAC1-5-6	5	6	8.297"	1.5"	0.391"	0.75"	0.344"	0.550"	0.422"			
			Н	AC2 Seri	es 2"							
HAC2-1-2	1	2	2.656"	2"	0.328"	1"	0.344"	0.550"	0.594"			
HAC2-2-3	2	3	4.766"	2"	0.391"	1"	0.344"	0.550"	0.594"			
HAC2-3-4	3	4	6.797"	2"	0.391"	1"	0.344"	0.550"	0.594"			
HAC2-4-5	4	5	8.297"	2"	0.391"	1"	0.344"	0.550"	0.594"			
	HAC3 Series 3"											
HAC3-1-2	1	2	4.000"	3"	0.500"	1.5"	0.406"	0.750"	1.063"			
HAC3-2-3	2	3	6.859"	3"	0.422"	1.5"	0.406"	0.750"	1.063"			
HAC3-3-4	3	4	9.859"	3"	0.422"	1.5"	0.406"	0.750"	1.063"			
HAC3-4-5	4	5	12.859"	3"	0.422"	1.5"	0.406"	0.750"	1.063"			

industrial





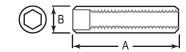


Z-CLAMP

HARDWARE

SOCKET HEAD STACKING NUT



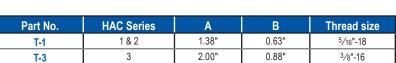


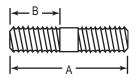
Part No.	HAC Series	Α	B Dia.	Thread size
S-1	1	1.335"	1/2"	⁵ /16"-18
S-2	2	1.800"	1/2"	⁵ /16"-18
S-3	3	2.780"	11/16"	3/8"

THREAD ADAPTER

(Install or Stack)



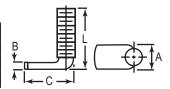




WELD NUT



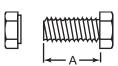
Part No.	HAC Series	Thread Size	Α	В	С	L
W-1/W-2	HAC 1	⁵ /16-18	0.437"	0.12"	0.875"	3/4"
W-1/W-2	HAC 2	⁵ /16-18	0.437"	0.12"	0.875"	3/4"
W-3	HAC 3	³ /8-16	0.531"	0.151"	1.00"	1.00"



HEX BOLT and HEX NUT



Part No.	HAC Series	Thread Size	Α
HB-1	HAC 1 & 2	⁵ /16"-18	3/4"
HB-3	HAC 3	³ /8"-16	1"



LOCK WASHER



Part No.	HAC Series	Size
HW-1	HAC 1 & 2	⁵ /16"
HW-3	HAC 3	3/8"

www.eMurdock.com





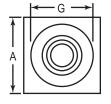
O-RING FACE SEAL

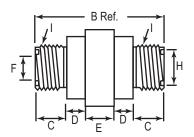


FOR USE with BETA ADAPTERS & Z-CLAMPS

Part	Tube		Dimensions – inches							
No.	Size	Α	B.	С	D	E	F.	G	I (Thread)	Н
MJO-1-6	3/8"	1.00"	1.96"	0.43"	0.28"	0.54"	0.26"	0.84"	¹¹ /16"-16	0.496"
MJO-1-8	1/2"	1.00"	2.10"	0.50"	0.28"	0.54"	0.38"	0.84"	¹³ / ₁₆ "-16	0.621"
MJO-1-10	5/8"	1.00"	2.30"	0.60"	0.28"	0.54"	0.48"	0.84"	1"-14	0.748"
MJO-2-6	3/8"	1.50"	2.08"	0.43"	0.34"	0.54"	0.26"	1.20"	¹¹ /16"-16	0.496"
MJO-2-8	1/2"	1.50"	2.22"	0.50"	0.34"	0.54"	0.38"	1.20"	¹³ /16"-16	0.621"
MJO-2-10	5/8"	1.50"	2.42"	0.60"	0.34"	0.54"	0.48"	1.20"	1"-14	0.748"
MJO-2-12	3/4"	1.50"	2.52"	0.65"	0.34"	0.54"	0.61"	1.20"	1 ³ / ₁₆ "-12	0.873"
MJO-2-16	1"	1.50"	2.58"	0.68"	0.34"	0.54"	0.81"	1.20"	1 ⁷ /16"-12	1.058"
MJO-3-20	11/4"	2.25"	2.98"	0.68"	0.437"	0.75"	1.02"	2.12"	1 ¹¹ /16"-12	1.309"
MJO-3-24	1 ¹ /2"	2.25"	2.98"	0.68"	0.437"	0.75"	1.26"	2.12"	2"-12	1.621"

- Offered in a wide range of sizes in JIC, NPT, SAE, and ORFS thread configurations.
- · Zinc plated to prevent corrosion
- Clamping at the fitting prevents loosening and other vibration related leaks





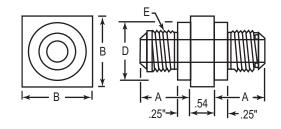
37° FLARE MALE JUNCTION ADAPTER



FOR USE with BETA ADAPTERS & Z-CLAMPS

- · Offered in a wide range of sizes in JIC, NPT, SAE, and ORFS thread configurations.
- · Zinc plated to prevent corrosion
- · Clamping at the fitting prevents loosening and other vibration related leaks

Part	Tuba Cina	Dim	Ε						
No.	Tube Size	Α	В	D	(Thread)				
	1½" Series								
MJA-1-4	1/4"	0.76"	1"	0.84"	⁷ /16"-20				
MJA-1-6	3/8"	0.76"	1"	0.84"	9/16"-18				
MJA-1-8	1/2"	0.87"	1"	0.84"	³ /4"-16				
MJA-1-10	5/8"	0.96"	1"	0.84"	⁷ /8"-14				
		2" Seri	es						
MJA-2-4	1/4"	0.76"	1 ¹ /2"	1.20"	⁷ /16"-20				
MJA-2-6	3/8"	0.76"	11/2"	1.20"	9/16"-18				
MJA-2-8	1/2"	0.87"	11/2"	1.20"	3/4"-16				
MJA-2-10	5/8"	0.96"	11/2"	1.20"	⁷ /8"-14				
MJA-2-12	3/4"	1.07"	11/2"	1.20"	1 ¹ / ₁₆ "-12				
MJA-2-14	7/8"	1.10"	11/2"	1.20"	1 ³ / ₁₆ "-12				
MJA-2-16	1"	1.10"	11/2"	1.20"	1 ⁵ /16"-12				



industrial

Z-CLAMP - ADAPTERS





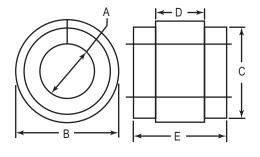
SPLIT RUBBER BUSHINGS



FOR USE with BETA ADAPTERS & Z-CLAMPS

ANTI-VIBRATION SPLIT RUBBER BUSHING

- Unique "grip" design secures cushion in place
- High quality EPDM rubber provides superior vibration damping with excellent oil resistance.



Part No.	Tube Size	Pipe Size	Α	В	С	D	Е	
	HAC-1 Series 1½"							
G-1-4	1/4"	-	0.235"					
G-1-6	3/8"	-	0.360"	1	İ			
G-1-8	1/2"	-	0.485"	0.975"	0.875"	0.50"	1.312"	
G-1-10	5/8"	-	0.610"	1				
G-1-12	3/4"	-	0.735"]				
		н	AC-2 Serie	es 2"				
G-2-4	1/4"	-	0.235"					
G-2-6	3/8"	-	0.360"	1				
G-2-8	1/2"	-	0.485"	1				
G-2-4P	-	1/4"	0.525"	1				
G-2-10	5/8"	-	0.610"]				
G-2-6P		3/8"	0.660"	1.350"	1.250"	0.50"	1.312"	
G-2-12	3/4"		0.735"]				
G-2-8P	-	1/2"	0.825"]				
G-2-14	7/8"	-	0.860"					
G-2-16	1"	-	0.985"]				
G-2-12P		3/4"	1.035"					
		H	IAC-3 Serie	es 3"				
G-3-4	1/4"	-	0.234"					
G-3-6	3/8"	-	0.360"	1	İ			
G-3-8	1/2"	-	0.485"	1	İ			
G-3-4P	-	1/4"	0.525"	1				
G-3-10	5/8"	-	0.610"	1				
G-3-6P	-	3/8"	0.660"]				
G-3-12	3/4"	-	0.735"]				
G-3-8P	-	1/2"	0.825"]				
G-3-14	7/8"	-	0.860"	2.287"	2.187"	0.750"	1.750"	
G-3-16	1"	-	0.985"]				
G-3-12P	-	3/4"	1.035"]				
G-3-20	11/4"		1.235"]				
G-3-16P	-	1"	1.300"]				
G-3-24	11/2"	-	1.485"]				
G-3-20P	-	11/4"	1.645"]				
G-3-24P	-	11/2"	1.885"					
G-3-32	2"	-	1.985"					

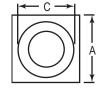
FEMALE JUNCTION ADAPTER

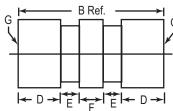


For Use With Beta Adapters & **Z-CLAMPS**

Part		G					
No.	Α	В	С	D	E.	F	(Thread)
FJA-1-6-P	1"	2- ¹³ / ₁₆ "	0.84"	0.84"	0.30"	0.54"	³ /8" N.P.T.
FJA-2-12-P	11/2"	3-1/8"	1.20"	0.97"	0.32"	0.54"	3/4" N.P.T.
FJA-3-20-P	2-1/4"	2-5/8"	2.12"	0.49"	0.45"	0.74"	1 ¹ / ₄ " N.P.T.
FJA-1-8	1"	2- ¹³ / ₁₆ "	0.84"	0.84"	0.30"	0.54"	³ / ₄ "-16 SAE
FJA-2-12	1 ¹ /2"	3-1/8"	1.20"	0.97"	0.32"	0.54"	1 ¹ / ₁₆ "-12 SAE
FJA-3-20	2-1/4"	2-5/8"	2.12"	0.49"	0.45"	0.74"	15/8"-12 SAE

- · Offered in a wide range of sizes in JIC, NPT, SAE, and ORFS thread configurations.
- · Zinc plated to prevent corrosion
- Clamping at the fitting prevents loosening and other vibration related leaks





www.zci foctor.com

GAMMA PADS

When installing pipe, tube, hose, or equipment the effects of vibration, shock, surge, galvanic corrosion and unwanted noise are a major concern. Improperly cushioned equipment, pipe, tube, or hose invites failure and potential problems. New developments in cushioned clamping and vibration isolation products from ZSi provide the proper solutions to combat these effects.

ZSi's products have earned a well-deserved reputation for unparalleled quality and effectiveness. As industry develops new needs, ZSi can and will respond with superior quality products and innovative solutions.





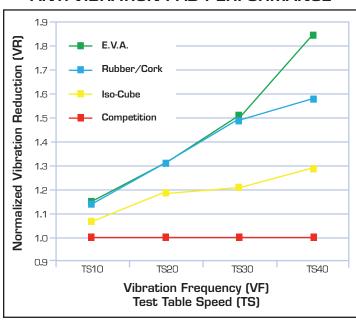








ANTI-VIBRATION PAD PERFORMANCE



4

GAMMA ANTI-VIBRATION PADS



GAMMA SHIELD

RUBBER MAT

Shields equipment from vibration and movement when lesser amounts of vibration absorption is needed.



gated on both sides and laminated to the cork center
1

The Industry Standard Highest quality elastomeric oil resistant

padding. Designed to withstand 50 psi. The rubber pads are

GAMMA STANDARD PAD

Part No.	Description
AR-2	2" x 2" x 3/8" All Rubber AV Pad
AR-3	3" x 3" x 3%" All Rubber AV Pad
AR-4	4" x 4" x 3/8" All Rubber AV Pad
AR-6	6" x 6" x 3/8" All Rubber AV Pad
AR-18	18" x 18" x 3/8" All Rubber AV Pad

Part No.	Description		
AC-2	2" x 2" x ⁷ / ₈ " Cork / Rubber AV Pad		
AC-3	3" x 3" x 7/8" Cork / Rubber AV Pad		
AC-4	4" x 4" x 7/8" Cork / Rubber AV Pad		
AC-6	6" x 6" x 7/8" Cork / Rubber AV Pad		
AC-18	18" x 18" x 7/8" Cork / Rubber AV Pad		

ISO - CUBE

SOLID RUBBER TOUGH

Natural rubber pads designed to reduce vibration and noise emanating from refrigeration or AC equipment. Circular design offers a suction cup effect eliminating the need to bolt the pads down. A standard 18" pad divides into eighty-one 2" segments which may be cut or torn into smaller pads. The 50 durometer pads will withstand a load of 180 psi with great resiliency.



Part No.	Description		
AS-2	2" x 2" x 3/4" Iso-Cube		
AS-18	18" x 18" x ³ / ₄ " Iso-Cube		

GAMMA EXTREME PAD

The **BEST** Performer E.V.A. (Extreme Vibration Attenuation) is the latest generation in vibration dampening technology. In the most severe vibration extremes, testing shows the E.V.A. pad outperforms cork and rubber by greater than 3:1 and outperforms our competitor's "waffle" pad by greater than 8:1! The enhanced performance comes from the special composite foam center

which is structurally more sound than cork. E.V.A. is not affected by oils or chemicals that can break down cork and is much more effective at vibration dampening than solid rubber. Designed to withstand 50 psi. Choose E.V.A. to get the best of both worlds!

Part No.	Description			
AV-2	2" x 2" x ⁷ / ₈ " EVA Pad			
AV-3	3" x 3" x ⁷ / ₈ " EVA Pad			
AV-4	4" x 4" x ⁷ ⁄ε" EVA Pad			
AV-6	6" x 6" x ⁷ ⁄ε" EVA Pad			
AV-18	18" x 18" x ⁷ ⁄8" EVA Pad			





Be Safe When Selecting Quick Couplings!

Quick disconnect couplings can fail without warning! Prior to the operation of quick coupling products, be sure to inspect and replace worn out fittings and safety devices. If a leak is detected during operation, release the pressure from the circuit before investigating the cause of the fluid leak. Do not use your fingers or skin to check for leaks, high pressure leaks of fluids can easily penetrate the skin and can cause serious injury or death.

Safe Quick Coupling Practices

Always wipe the coupling cavities and faces clean before connecting a coupling.

Connect coupling before installation to ensure that it works properly.

- 3. Always check the body seals before connecting a coupling.
- 4. Shut-off power source before connecting a coupling.
- 5. Always install a safety check valve on a pneumatic line and/or compressor.
- 6. Always use a safety cable on large air lines (1/2" lines and larger).
- Always use a whip hose on hydraulic or air tools.
- Use dust caps or plugs when couplings are not in use.
- 9. If the locking sleeve is inoperable, check the safety lock.
- 10. Wear eye protection while connecting or disconnecting a coupling.

Unsafe Quick Coupling Practices

- 1. Never hit coupling valves to release trapped pressure.
- 2. Never leave couplings in the path of moving equipment.
- 3. Never use couplings near a welder, flash heat, or fire / flame sources.
- 4. Never use API modified sealants or over apply PTFE tape during installation.
- 5. Use care if you must install quick couplings onto black iron pipe.
- Never hit a coupling sleeve with a hammer or blunt object.
- Never overtighten a coupling connection.
- 8. Never rotate a quick disconnect coupling under pressure.
- 9. Do not overpressurize quick disconnect couplings.
- 10. Never use a hose with a quick disconnect coupling to lift a tool.

OSHA Regulations Ensure Operator Safety



Safety Cables



Safety Check Valves

Standard - 29 CFR, 1926.302 (partial):

(b)(1) Pneumatic power tools shall be secured to the hose or whip by some positive means to prevent the tool from becoming accidentally disconnected.

(b)(2) Safety Clips or retainers shall be securely installed and maintained on pneumatic impact (percussion) tools to prevent attachments from being accidentally expelled.

(b)(4) Compressed air shall not be used for cleaning purposes except where reduced to 30 PSI and then only with effective chip guarding and personal protective equipment which meets the requirements of Subpart E of this part. The 30 PSI requirement does not apply for concrete form, mill scale and similar cleaning purposes.

(b)(5) The manufacturer's safe operating pressure for hoses, pipes, valves, filters and other fittings shall not be exceeded.

(b)(6) The use of hoses for hoisting or lowering tools shall not be permitted.

(b)(7) All hoses exceeding ½" inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure.

Standard - 29 CFR, 1926.603 (partial):

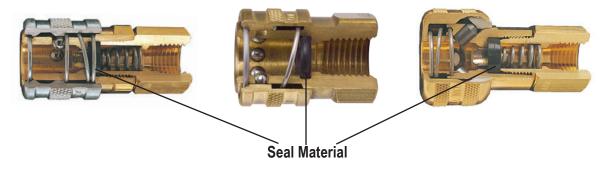
(a)(9) Steam hose leading to a steam hammer or jet pipe shall be securely attached to the hammer with an adequate length of at least ¼" diameter chain or cable to prevent whipping in the event the joint at the hammer is broken. Air hammer hoses shall be provided with the same protection as required for steam lines.

(a)(10) Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected.



Seal & Fluid Compatibility Guide





Seal Compound Data						
Seal Material	Part No. Suffix	Coupler Color Code				
Nitrile (Buna-N)	Std.	None				
Viton (product of DuPont)	-101	Blue				
Neoprene	-102	Red				
Ethylene Propylene	-103	Black				
Silicone	-104	White				

To Order: Add seal compound part number to the end of coupling part number. Example: H4S-103, 1/2" NPT, FHK Series, steel socket with ethylene

propylene seals (-103).

Note: Please consult with your Foster representative or the factory for

any media not listed.

Optional Seal [Ordering]:

Buna-N seal is standard. Alternate seals are specified by adding the appropriate suffix to the catalog number. For example, 1502 socket with Heat Adder is 1502H

Service	Construction	Seal	Temperature	Suffix
Air, Vacuum, Grease & Oil	Brass & Steel	Buna-N	-40° to +225°F	none
Water	Brass & S/S	Buna-N	+32° to +100°F	W
Hot Water	Brass & S/S	Viton	-40° to +400°F	HW
Steam	Brass & S/S	Ethylene Propylene	-40° to +325°F	S
Heat	Brass & Steel	Viton	-40° to +400°F	Н
Less Valve	Brass & Steel	Buna-N	-40° to +225°F	LV
Dill Valve Series 3 Only	Brass & Steel	Buna-N	-40° to +225°F	D

Seal & Fluid Compatibility Guide

Media	Body	Seal
Acetic Acid (5%)	SS S	Viton
Acetone	B, SS	EPDM
Acetophenone	SS SS	EPDM
Acetylene	SS	Standard
Air (up tp 200°F)	B, SS	Standard
Air (up to 400°F)	B, SS	Viton, Silicone
Ammonia (Anhydrous)	SS	Neoprene
Ammonia (Cold, Gas)	SS	EPDM
Ammonium Nitrite	SS	Standard
Amyl Chloride	SS	Viton
Arsenic Acid	SS	Standard
Asphalt	SS	Viton
Brine (Sodium Chloride)	SS	Standard
Butane	SS	Standard
Butanol (Butyl Alcohol)	SS	Standard
Calcium Acetate	B, STD	EPDM
Carbon Dioxide	B, SS	Standard
Carbon Tetrachloride	В	Viton
Castor Oil	B, STD, SS	Standard
China Wood Oil (Tung Oil)	SS	Standard
Chloroform	SS	Viton
Corn Oil	B, STD, SS	Standard
Creosote	SS SS	Standard
Crude Oil Cutting Oil	STD, SS	Viton Standard
Detergent, Water Solution	\$1D, \$5 \$\$	Standard
Diesel Fuel	B,SS	Standard
Diethylene Glycol	STD, SS	Standard
Dimethyl Formamide	SS	EPDM
Ethanol	В	EPDM
Freon 11	В	Viton
Freon 12	B, STD, SS	Neoprene
Freon 22	B,SS	Neoprene
Freon R134a	B, STD, SS	Neoprene
Fuel Oil	SS	Standard
Gas, Liquid Propane (LPG)	B, SS	Standard
Gas, Natural	B, SS	Standard
Gasoline (unleaded)	B, SS	Viton
Glucose (Chapter (Chapter)	B, STD, SS	Standard
Glycerine (Glycercol) Glycols	STD, SS STD, SS	Standard Standard
Helium	B, STD, SS	Standard
Heptane	B, STD, SS	Standard
Hydraulic Oil (Petroleum Base)	B, STD, SS	Standard
Hydraulic Oil (Water Base)	STD, SS	EPDM
Hydrazine	SS	EPDM
Hydrogen Gas	B, STD, SS	Standard
Isobutyl Alcohol	SS	Viton
Isopropyl Alcohol	B, STD, SS	Viton
Isopropyl Ether	B, STD, SS	Standard
Isocyanate	STD	Viton
Kerosene	B, SS	Standard
Linseed Oil	STD, SS	Standard
Lubricating Oil (SAE 10 thru 50)	B, STD, SS	Standard
Mercury	SS	Standard
Methane	B, SS	Standard
Methanol	B, SS	Standard
Methyl Bromide	STD, SS	Viton
Methyl Chloride (wet)	В	Viton
Methyl Ethyl Ketone (MEK)	B, STD, SS	EPDM Standard
Mineral Oils	B, STD, SS	Standard
Potassium Acetate Potassium Dichromate	STD STD	EPDM Standard
Potassium Nitrate	STD, SS	Standard
Potassium Sulfate	SS SS	Standard
. Gladdiani Galiate		Standard

Media	Body	Seal		
Propane	B, SS	Standard		
Propyl Alcohol	B, STD, SS	Standard		
Propylene	B, STD, SS	Viton		
Pydraul 10E	STD, SS	EPDM		
Pydraul A-200, C-Series	STD, SS	Viton		
Pydraul, 3 Series	STD, SS	Viton		
Sea Water / Salt Water	SS	Standard		
Silicone Greases	B, STD, SS	Standard		
Skydrol 500, Type 2	STD, SS	EPDM		
Skydrol 7000, type 2	STD, SS	EPDM		
Soap Solutions	SS	Standard		
Sodium Acetate	B, STD, SS	EPDM		
Sodium Carbonate (Soda Ash)	STD, SS	Standard		
Sodium Cyanide	STD, SS	Standard		
Sodium Metaphosphate	STD	Standard		
Sodium Nitrate	SS	EPDM		
Sodium Perborate	SS	Viton		
Sodium Peroxide	STD	Viton		
Sodium Phosphates	B, SS	Standard		
Sodium Sulfate	SS	Standard		
Soybean Oil	STD, SS	Standard		
Steam (below 400°F)	B, SS	EPDM		
Sucrose Solutions	B, STD, SS	Standard		
Tannic Acid (10%)	В В	Standard		
Tertiary Butyl Alcohol	B, STD, SS	Viton		
Tetraethyl Lead	B, STD, SS	Viton		
Tetraethyl Lead (blend)	B, STD, SS	Viton		
Titanium Tetrachloride	STD	Viton		
Toluene	B, STD, SS	Viton		
Transmission Fluid (Type A)	B, STD, SS	Standard		
Turbine Oil #15	SS SS	Viton		
Turpentine	SS	Standard		
Varnish		Viton		
Water (below 100°F)	B, STD, SS B, SS			
` '		Standard		
Water (above 100°F)	B, SS	EPDM		
Xylene	B, SS	Viton		
Naphtha	STD	Viton		
Napthalene	STD	Viton		
Napthenic Acid	STD	Viton		
Nickel, Acetate	SS	EPDM		
Nickel Sulfate	SS	Standard		
Nitrogen	B, STD, SS	Standard		
Nitrous Oxide	SS	Standard		
Octyl Alcohol	B, STD, SS	Viton		
Oxalic Acid	SS	Viton		
Oxygen (200-400°F)	B, SS	Viton		
Oxygen (below 200°F)	B, SS	Standard		
Ozone	SS	Viton		
Palmitic Acid	B, SS	Standard		
Para-Dichlorobenzene	STD	Viton		
Peanut Oil	STD, SS	Standard		
Petrolatum	B, STD, SS	Standard		
Petroleum Oil (below 200°F)	B, STD, SS	Standard		
Phenol	B, STD, SS	Viton		
Phosphorous Trichloride	SS	Viton		
Plating Solutions (Chrome)	B, SS	Viton		
Plating Solutions (other) SS Viton				
	only to be used as a gui			
please test individual parts thoroughly for each application.				

Body Material Data				
Brass	В			
Steel	S			
303 / Stainless Steel	SS			







Be Safe When Installing Quick Couplings **Installation Of Reusable Hose Couplings**



Trim the end of the hose as square as possible.



Mark the point of full hose insertion depth with a piece of tape.



Add a bit of lubricant to the reusable hose barb before inserting into the ferrule.



Tighten reusable hose barb into ferrule ensuring hose stays completely inserted.



Insert Hose completely into ferrule and make note of how deep the hose goes.



Verify tape line is correct for full insertion.



Turn reusable hose barb into ferrule ensuring hose stays completely inserted.



Completed connection, Use marker applied in step [3] to ensure hose is completely inserted.



Be Safe When Installing Quick Couplings Installation "Push-On" Hose



Trim the end of the hose as square as possible.



2 Grip the Plug or socket firmly and Push On hose.



3 Completed connection, ensure that the hose is completely inserted.

Quick Coupling Installation



Be Safe When Installing Quick Couplings **Inspection and Maintenance**





Plugs:

- Inspect for cracks, chips, dings or other damage.
- Clean as necessary using water and a mild detergent. External buildup may be removed using a wire brush, taking care not to mar the surface of the plug.
- · Replace any damaged plug.

Sockets:

- Inspect overall for cracks, dents or other damage.
- Inspect inside socket for damage or debris.
- Actuate all moving parts to ensure they operate freely with no scraping or binding.
- · Clean as necessary using water and a mild detergent.
- Replace any damaged socket.

Assemblies:

- Install the plug into the socket, making sure the parts connect easily and hold firmly.
- Disconnect coupler, check that the plug and socket release easily and smoothly, with no scraping or binding.
- On BL (ball lock) and SL Series (with locking sleeve), rotate sleeve to the locked position and attempt to disconnect, pulling firmly to ensure the coupler stays connected.
- Rotate sleeve to the unlocked position, and ensure the coupler disconnects easily.
- If any damage, binding or unintended disconnecting is found, both the coupler and plug should be replaced.





Quick Coupling Installation

Be Safe When Installing Quick Couplings **Installation of Tapered Thread Connections**



Apply 1½ to 2 wraps of PTFE tape, starting one or two threads from the lead edge, in a clockwise direction. For type 316 stainless steel, be sure to use stainless grade tape.



Finger tighten the connection.



Coupling is ready for use.



Check threads to make sure there is no damage and that tape is properly installed. Align threaded connections and carefully begin threading the two halves together.



With even and smooth force applied, wrench tighten according to the "Turns From Finger Tight" values listed in the table below.

DO NOT OVERTIGHTEN!

SAE Size	NPFE Thread Size	Turns from Finger Tight		
-4	¹⁄₄" - 18	2		
-6	³/8" - 18	2		
-8	¹/₂" - 14	2		
-12	³ ⁄4" - 14	1.5		
-16	1" - 11 ¹ / ₂	1.5		
Do Not Overtighten!				







Be Safe When Installing Quick Couplings **Automatic Safety Exhausting Coupler Operation**



To Disconnect; Begin by holding the hose with three of your fingers leaving your thumb and index finger free.



Grab the sleeve with your thumb and index finger and begin to pull the sleeve towards the palm of your hand.

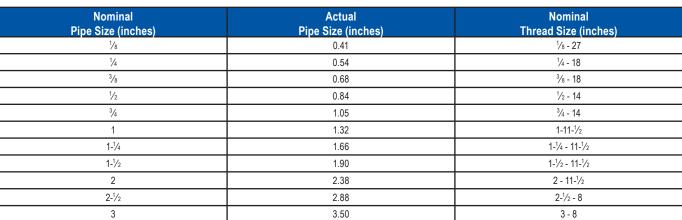


After pulling the sleeve, the plug will move out of the couple slightly. Continue to hold the hose and coupling sleeve until all air is fully exhausted.

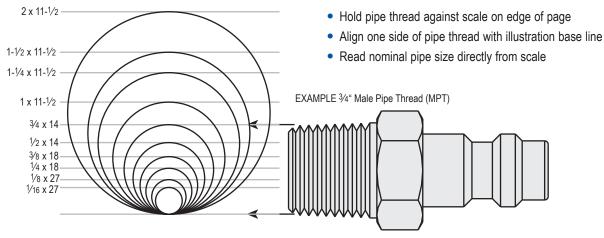


After the line is fully exhausted, you are able to safely separate the plug from the coupler.

Pipe Thread Identification



Female Pipe Thread Gauge



Male Pipe Thread Gauge

- Stand pipe thread vertically on diagram
- · Align outside diameter of pipe thread with matching circle
- · Read nominal pipe size directly above circle

1-1/2 x 11-1/2 — 1-1/4 x 11-1/2 — 1 x 11-1/2 -3/4 x 14-1/2 x 14 3/8 x 18 1/4 x 18 1/8 x 27-1/16 x 27 EXAMPLE 3/4" Female Pipe Thread (FPT)

industrial

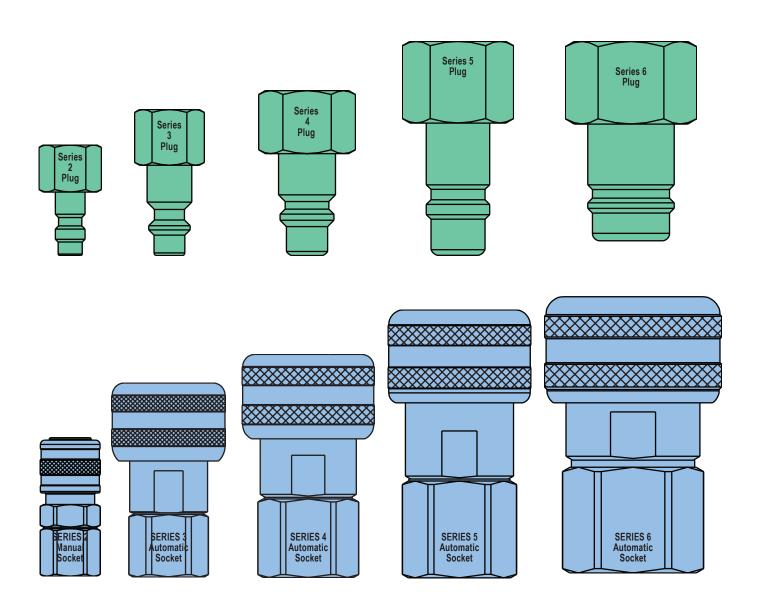
2 x 11-1/2 -





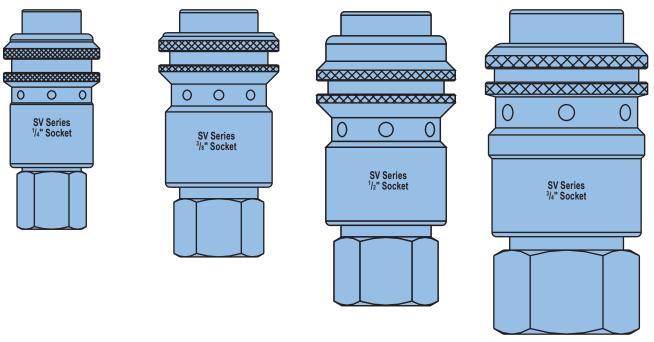


Series 2 thru 6 Industrial Interchange

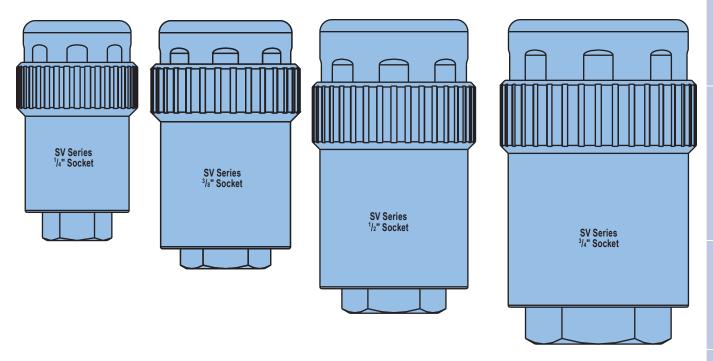




SV Series



SVPC Series

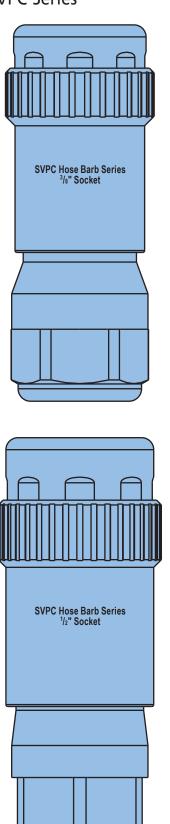


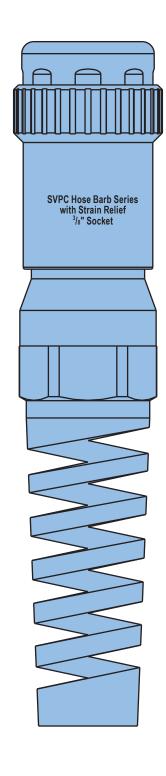


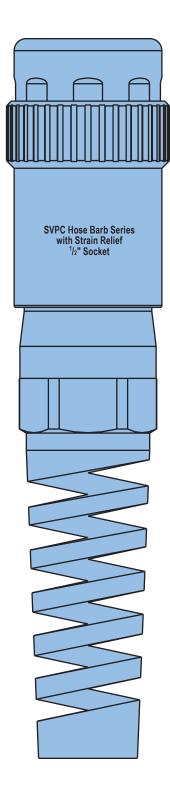




SVPC Series

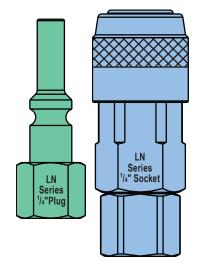




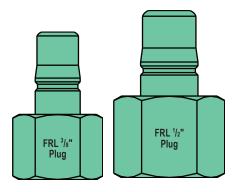




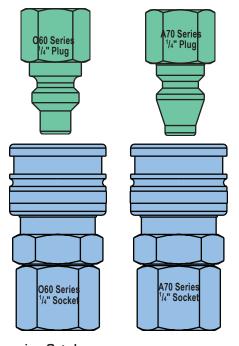




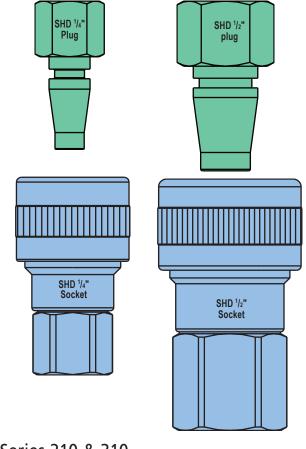
FRL Series



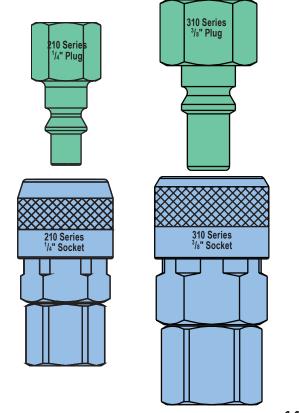
O60 & A70 Series



SHD Series



Series 210 & 310









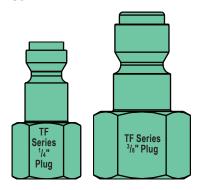
ISO A 1/2" Plug ISO A 1" Plug ISO A 3/4" Plug ISO A 1/4" Plug ISO A 3/8" Plug



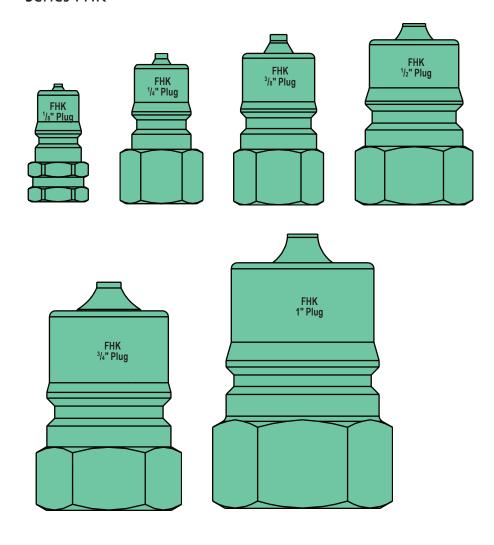








Series FHK



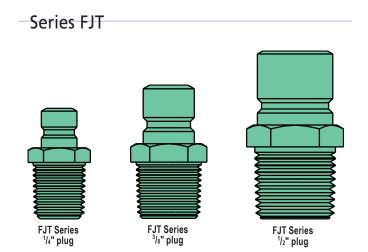




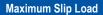


Series FH & FIH





BETA CLAMP TECHNICAL DATA





Max. Pipe Slip indicates that Sliding starts when the specified values (A) are reached.

	Hen Head Delt	Polypr	opylene	Polyamide		Aluminium	
ZSI UNC	Hex Head Bolt UNC Thread (Metric ISO)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)
S1 (1)			247 (11)	7 (10)	157 (7)	9 (12)	944 (42)
S2 (2)	7 1		292 (13)		180 (8)		967 (43)
S3 (3)	7		315 (14)		360 (16)		1,101 (49)
S4 (4)	1/4–20 UNC		337 (15)		382 (17)		1,124 (50)
S5 (5)	(M6)		427 (19)		450 (20)		1,641 (73)
S6 (6)	7		450 (20)]	562 (25)		2,000 (89)
S7 (7)			517 (23)]	719 (32)		
S8 (8)	7		585 (26)	1	787 (35)	1	•

	Beta Heavy Series								
	Hen Head Delt	Polypr	opylene	Polyamide		Aluminium			
ZSI (DIN)	Hex Head Bolt UNC Thread (Metric ISO)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)		
H3 (1)		9 (12)	360 (16)	15 (20)	944 (42)	22 (30)	2,720 (121)		
H4 (2)	3/8-16 (M10)	9 (12)	652 (29)	15 (20)	1044 (45)	22 (30)	3,395 (151)		
H5 (3))] [11 (15)	742 (33)	18 (25)	1146 (51)	26 (35)	3,485 (155)		
H6 (4)	7/16-14 (M12)	22 (30)	1843 (82)	30 (40)	2090 (93)	41 (55)	6,609 (295)		
H7 (5)	5/8-11 (M16)	33 (45)	2472 (110)	41 (55)	3551 (158)	86 (120)	7,845 (349)		
H8 (6)	3/4-10 (M20)	59 (80)	3147 (140)	111 (150)	4720 (210)	162 (220)	11,240 (500)		
H9 (7)	7/8-9 (M24)	81 (110)	6300 (280)	148 (200)	7193 (320)	184 (250)	15,871 (706)		
H10 (8)		133 (180)	8992 (400)	258 (350)	10790 (480)	369 (500)	18,996 (845)		
H11 (9)	1-1/8–7 (M30)	148 (200)	26752 (1,190)	273 (370)	27650 (1,250)	369 (500)	40,802 (1,815)		
H12 (10)]	199 (270)	37767 (1,680)	332 (450)	40465 (1,800)	443 (600)	54,965 (2,445)		

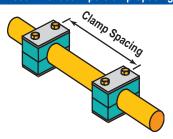
Beta Twin Series								
	Hex Head Bolt	Polypr	opylene	Polyamide				
ZSI (DIN)	UNC Thread (Metric ISO)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip Ibf (kN)			
T1 (1)	1/4-20 (M6)	4 (5)	202 (09)	4 (5)	202 (09)			
T2 (2)	5/16-18 (M8)	9 (12)	472 (21)	9 (12)	495 (22)			
T3 (3)	5/16-18 (M10)	9 (12)	427 (19)	9 (12)	450 (20)			
T4 (4)	5/16-18 (M12)	9 (12)	607 (27)	9 (12)	652 (29)			
T5 (5)	5/16-18 (M16)	6 (8)	382 (17)	6 (8)	562 (25)			



BETA CLAMP TECHNICAL DATA



Recommended Pipe Clamp Spacing



Pipe OD in (mm)	Spacing ft - in. (m)
0.24" - 0.5" (6 - 12.7)	3' - 3" (1)
0.5" – 0.87" (12.7 – 22)	3' - 11" (1.2)
0.87" – 1.26" (22 – 32)	4' - 11" (1.5)
1.26" – 1.5" (32 – 38)	6' - 7" (2)
1.5" – 2.24" (38 – 57)	8' - 10" (2.7)
2.24" – 2.95" (57 – 75)	9' - 10" (3)
2.95" – 3" (75 – 76.1)	11' - 6" (3.5)
3" – 3.5" (76.1 – 88.9)	12' - 2" (3.7)
3.5" – 4" (88.9 – 102)	13' - 1" (4)
4" – 4.5" (102 – 114)	14' - 9" (4.5)
4.5" – 6.6" (114 – 168)	16' - 5" (5)
6.6" – 8.6" (168 – 219)	19' - 8" (6)
8.6" – 12.8" (219 – 324)	21' - 12" (6.7)
12.8" – 14" (324 – 356)	22' - 12" (7)
14" – 16" (356 – 406)	24' - 7" (7.5)
16" – 16.5" (406 – 419)	26' - 11" (8.2)
16.5" – 20" (419 – 508)	27' - 11" (8.5)
20" – 20.5" (508 – 521)	29' - 6" (9)
20.5" – 22" (521 – 558)	32' - 10" (10)
22" – 31.5" (558 – 800)	41' - 0" (12.5)

Recommended Clamping for Bends Bends in the line should be clamped on BOTH sides of the bend as shown.

BETA CLAMP MATERIAL PROPERTIES Polypropylene (PP) Cushion						
Material Propert	ies					
Density	-	0.906 g/cm3				
Tensile strength	DIN 53454	25-35 N/mm2				
Flexure stress limit	DIN 53452	36N N/mm2				
Compressive strength	DIN 53454	90 N/mm2				
Impact strength	DIN 53453	No break				
Thermo Propert	ies					
Max. temp. resistar	nce	-30 to 90°C				
Thermal conductiv	ity	15 x 10-5 /°C				
Linear expansion co	oeff.	0.22 W/[mk]				
Electrical Proper	ties					
Specific volume	DIN 53482	1016 ohm x cm				
Chemical Proper	Chemical Properties					
Consistent for weak acids, solvents, mineral oils and seawater.						

Beta Bolt Tightening Torque									
			Aluminum Cushion		Polypropylene Cushion		Polyamide Cushion		
Clamp	Group	Bolt Size	Lbf	Nm	Lbf	Nm	Lbf	Nm	
Beta Standard	S1 - S7	1/4"-20	7	10	6	8	6	8	
	H3, H4	3/8"-16	22	30	9	12	15	20	
Beta	H5	³ /8"-16	26	35	11	15	18	25	
Heavy	H6	1/2"-13	41	55	29	30	30	40	
	H7	5/8"-11	89	120	33	45	41	55	
Beta	T1	1/4"-20	-	-	4	6	4	6	
Twin	T2 - T5	5/16"-18	-	-	9	12	9	12	

The outlined particulars are approximate values and are only valid as references, which are not binding, also with regard to possible protection of third parties, and they do not exempt you from your own examination of suitability of the products delivered by us. Therefore, these values can only be used in a limited sense for construction purposes. The application of the products is carried out outside our control possibilities and, therefore, is exclusively subject to your own area of responsibility. If, however, liability should be possible, it would be limited for all damages to the value of the goods supplied by us and in use by you. It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

BETA CLAMP INSTALLATION

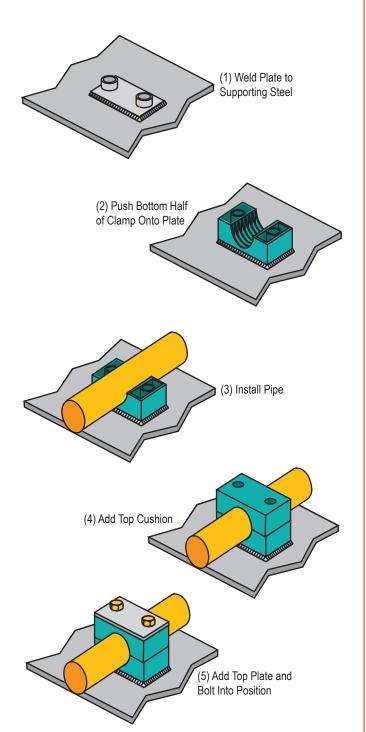


INSTALLATION ON WELD PLATES

ZSi weld plates are available for the following Series:

- Standard-Series
- Heavy-Series
- Twin-Series
- · Beta Adapters

For best alignment of ZSi clamps we recommend that you mark their location before welding.



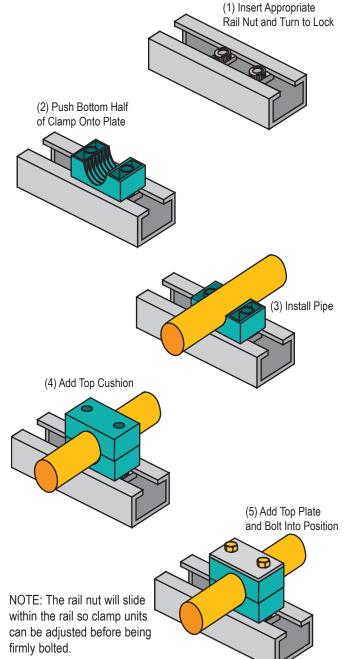
INSTALLATION ON MOUNTING RAILS

ZSi mounting rails can be used with the following Series:

- Standard-Series
- Heavy-Series (Group H3 to H6)
- Twin-Series
- · Beta Adapters

ZSi mounting rails are available in two different height sizes and are either welded or bolted to the supporting construction.

For Standard-Series and Twin-Series insert hexagon rail nut and turn to lock. For Heavy-Series slide in rail nut.



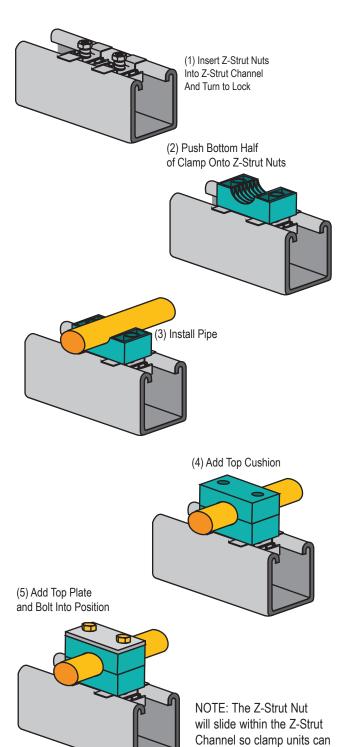
BETA CLAMP INSTALLATION



INSTALLATION ON Z-STRUT CHANNEL

The Z-Strut Nuts can be used with any clamp using a 1/4-20 mounting bolt. This includes:

- · Standard-Series
- Twin-Series (T1 Only)
- Beta Rubber Inserts

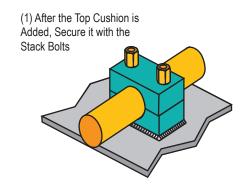


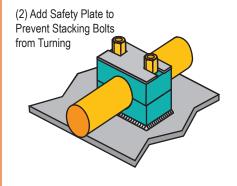
MULTI-LEVEL ASSEMBLY

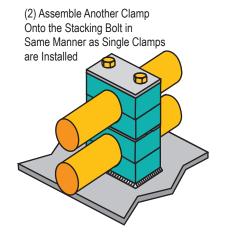
ZSi multi-level pipe clamps permit easy stacking of several tubes or pipes of the same group. The clamps are connected by stacking bolts.

Safety plates are inserted between the clamps to prevent the stacking bolts from turning.

The example below shows a stacking clamp added to a welded clamp, however, ZSi stacking assemblies can be fitted to weld plates, rails, or strut in the same manner.







www.zei foetor.com

be adjusted before being firmly

www.eMurdock.com

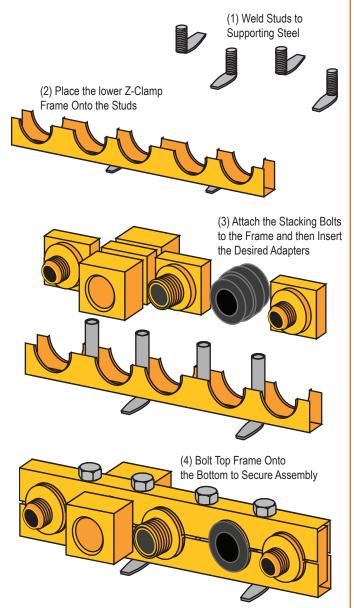
bolted.



Z-CLAMP & BETA ADAPTER INSTALLATION

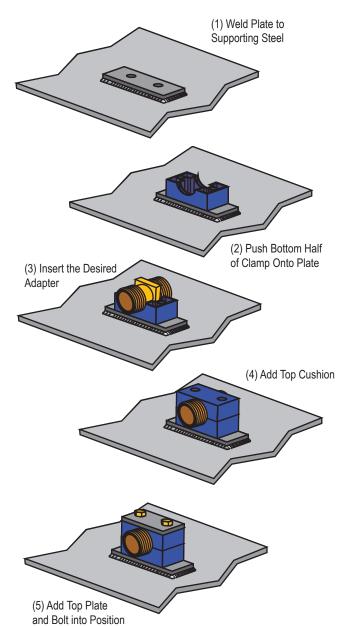
Installation of Z-Clamps

Z-Clamps are installed in much the same manner as Beta Clamps. The weld studs are welded onto exiting structure and the clamp assembled onto them.



Installation of Beta Adapter

Beta Adapters are installed in much the same manner as Beta Clamps. The weld plate is welded onto existing structure and the Beta cushion and adapter is assembled onto it.



Z-CLAMP & BETA ADAPTER OPTIONAL ADAPTERS



FEMALE JUNCTION ADAPTER

industrial



O-RING FACE SEAL



JUNCTION ADAPTER



RUBBER SPLIT BUSHINGS







Drill Sizes for NPT Pipe Taps						
Tap Size (In.)	Threads/ Inch	Drill Dia. (ln.)				
1/8	27	R				
1/4	18	7/16				
3/8	18	37/64				
1/2	14	²³ / ₃₂				
3/4	14	⁵⁹ / ₆₄				
1	11 ¹ / ₂	1 ⁵ / ₃₂				
11/4	11 ¹ / ₂	11/2				
11/2	11 ¹ / ₂	1 ⁴⁷ / ₆₄				
2	11 ¹ / ₂	27/32				
21/2	8	25/8				
3	8	31/4				
31/2	8	33/4				
4	8	41/4				

Tap & Drill Sizes (Unified National Coarse)							
Tap Size (In.)	Threads/ Inch	Drill Size (ln.)					
1/4	20	7					
⁵ ⁄ ₁₆	18	F					
3/8	16	⁵ / ₁₆					
7/16	14	U					
1/2	13	²⁷ / ₆₄					
9/16	12	³¹ / ₆₄					
5/8	11	17/32					
3/4	10	21/32					
7/8	9	⁴⁹ / ₆₄					
1	8	7/8					
11//8	7	⁶³ / ₆₄					
11/4	7	1 ⁷ / ₆₄					
1%	6	1 ⁷ / ₃₂					
11/2	6	1 ¹¹ /32					
13/4	5	1 %16					
2	41/2	1 ²⁵ / ₃₂					

Nor	n. Diamete	r (ln.)	Nom.	Length	Gallons
Pipe	Inside	Outside	Wt./Ft. (lbs.)	Containing One Cu. Ft.	/ Linear F (Gallons)
1/8	0.269	0.405	0.245	2,526.000	0.0030
1/4	0.364	0.540	0.425	1,383.800	0.0054
3/8	0.493	0.675	0.568	754.360	0.0099
1/2	0.622	0.840	0.851	473.910	0.0158
3/4	0.824	1.050	1.131	270.030	0.0277
1	1.049	1.315	1.679	166.620	0.0449
1 ¹ / ₄	1.380	1.660	2.273	96.275	0.0777
1 ¹ / ₂	1.610	1.900	2.718	70.733	0.1058
2	2.067	2.375	3.653	49.913	0.1743
21/2	2.469	2.875	5.793	30.077	0.2487
3	3.068	3.500	7.580	19.479	0.3840
31/2	3.548	4.000	9.110	14.565	0.5136
4	4.026	4.500	10.790	11.312	0.6613
5	5.047	5.563	14.620	7.198	1.0393
6	6.065	6.625	18.970	4.984	1.5008
8	7.981	8.625	28.550	2.878	2.5988
10	10.020	10.750	40.480	1.826	4.0963

	Copper Tube Data - Type L								
Size (In.)	O.D. (ln.)	O.D. (ln.)	Wall Thick. (ln.)	Weight per Foot (lbs)	Weight of Water / Ft. (lbs)				
1/4	3/8	0.375	0.030	0.126	0.034				
3/8	1/2	0.500	0.035	0.198	0.062				
1/2	5/8	0.625	0.040	0.285	0.100				
5/8	3/4	0.750	0.042	0.362	0.151				
3/4	7/8	0.875	0.045	0.455	0.209				
1	1 ¹ / ₈	1.125	0.050	0.655	0.357				
11/4	1 ³ / ₈	1.375	0.055	0.884	0.546				
11/2	1 ⁵ /8	1.625	0.060	1.140	0.767				
2	21/8	2.125	0.070	1.750	1.341				
2 ¹ / ₂	25/8	2.625	0.080	2.480	2.064				
3	31/8	3.125	0.090	3.330	2.949				
31/2	35/8	3.625	0.100	4.290	3.989				
4	4 ¹ / ₈	4.125	0.110	5.380	5.188				
5	5 ¹ /8	5.125	0.125	7.610	8.081				
6	61/8	6.125	0.140	10.200	11.616				
8	8 ¹ / ₈	8.125	0.200	19.290	20.289				
10	10 ¹ / ₈	10.125	0.250	30.100	31.590				
12	12 ¹ / ₈	12.125	0.280	40.400	45.426				

12	12 ¹ /8	12.125	0.280	40.400	45.426				
	Copper Tube Data - Type K								
Size	O.D.	O.D.	Wall Thick.	Weight per	Weight of Water /				
(ln.)	(ln.)	(ln.)	(ln.)	Foot (lbs)	Ft. (lbs)				
1/4	3/8	0.375	0.035	0.145	0.032				
3/8	1/2	0.500	0.049	0.269	0.055				
1/2	5/8	0.625	0.049	0.344	0.094				
5/8	3/4	0.750	0.049	0.418	0.144				
3/4	7/8	0.875	0.065	0.641	0.188				
1	1 ¹ /8	1.125	0.065	0.839	0.337				
1 ¹ / ₄	1 ³ /8	1.375	0.065	1.040	0.527				
11/2	1 ⁵ /8	1.625	0.072	1.360	0.743				
2	21/8	2.125	0.083	2.060	1.310				
21/2	25/8	2.625	0.095	2.920	2.000				
3	31/8	3.125	0.109	4.000	2.960				
31/2	35/8	3.625	0.120	5.120	3.900				
4	4 ¹ / ₈	4.125	0.134	6.510	5.060				
5	51/8	5.125	0.160	9.670	8.000				
6	6 ¹ / ₈	6.125	0.192	13.870	11.200				
8	81/8	8.125	0.271	25.900	19.500				
10	10 ¹ / ₈	10.125	0.338	40.300	30.423				
12	12 ¹ / ₈	12.125	0.405	57.800	43.675				

	Steel Pipe Data — Schedule No 40 & 80								
Nominal Size (In.)	O.D. (ln.)	Schedule No.	Wall Thick. (In.)	Weight. per Foot (lbs)	Weight of Water per Foot (lbs)				
3./	0.675	40	0.091	0.567	0.083				
3/8	0.675	80	0.126	0.738	0.061				
1/2	0.840	40	0.109	0.850	0.132				
1/2	0.040	80	0.147	1.087	0.101				
3/4	1.050	40	0.113	1.130	0.230				
-/4	1.050	80	0.154	1.473	0.186				
1	1.315	40	0.133	1.678	0.374				
ı ı	1.313	80	0.179	2.171	0.311				
1 ¹ / ₄	1.660	40	0.140	2.272	0.647				
1 /4	1.000	80	0.191	2.996	0.555				
1 ¹ / ₂	1.900	40	0.145	2.717	0.882				
172	1.900	80	0.200	3.631	0.765				
2	2.375	40	0.154	3.652	1.452				
4	2.375	80	0.218	5.022	1.279				
21/2	2 075	40	0.203	5.790	2.072				
2./2	2.875	80	0.276	7.660	1.834				
3	3.500	40	0.216	7.570	3.200				
3		80	0.300	10.250	2.860				
31/2	4.000	40	0.226	9.110	4.280				
372	4.000	80	0.318	12.510	3.850				
4	4.500	40	0.237	10.790	5.510				
4	4.500	80	0.337	14.980	4.980				
5	5.563	40	0.258	14.620	8.660				
5	5.503	80	0.375	20.780	7.870				
6	6.625	40	0.280	18.970	12.510				
0	0.020	80	0.432	28.570	11.290				
8	8.625	40	0.322	28.550	21.600				
٥	0.023	80	0.500	43.390	19.800				
10	10.750	40	0.365	40.480	34.100				
10	10.750	80	0.593	64.400	31.100				
12	12.75	40	0.406	53.600	48.500				
12	12.75	80	0.687	88.600	44.000				
14	14.000	40	0.437	63.000	58.500				
14	14.000	80	0.750	107.000	51.200				
16	16.000	40	0.500	83.000	76.500				
10	10.000	80	0.843	137.000	69.700				
18	18.000	40	0.563	105.000	97.200				
10	10.000	80	0.937	171.000	88.500				
20	20.000	40	0.593	123.000	120.400				
20	20.000	80	1.031	209.000	109.400				

PVC and CPVC Pipes - Schedule 40 (inches)					
Nominal Pipe	Outside	Minimum Wall	Nominal Inside	Weight (lb/100 ft)	
Size	Diameter	Thickness	Diameter	PVC	CPVC
1/2	0.840	0.109	0.622	16	17
3/4	1.050	0.113	0.824	21	23
1	1.315	0.133	1.049	32	34
1 ¹ / ₄	1.660	0.140	1.380	43	46
1 ¹ / ₂	1.900	0.145	1.610	51	55
2	2.375	0.154	2.067	68	74
21/2	2.875	0.203	2.469	107	118
3	3.500	0.216	3.068	141	154
4	4.500	0.237	4.026	201	220
5	5.563	0.258	5.047	273	_
6	6.625	0.280	6.065	353	386
8	8.625	0.322	7.981	539	581
10	10.750	0.365	10.020	755	824
12	12.750	0.406	11.938	1001	1089
14	14.000	0.438	13.124	1180	_
16	16.000	0.500	15.000	1543	_

PVC and CPVC Pipes - Schedule 80 (inches)					
Nominal	Outside	Wall I	Nominal Inside	Weight (lb/100 ft)	
Pipe Size	Diameter	Thickness	Diameter	PVC	CPVC
1/2	0.840	0.147	0.546	20	22
3/4	1.050	0.154	0.742	27	30
1	1.315	0.179	0.957	41	44
1 ¹ / ₄	1.660	0.191	1.278	52	61
11/2	1.900	0.200	1.500	67	74
2	2.375	0.218	1.939	95	102
21/2	2.875	0.276	2.323	145	156
3	3.500	0.300	2.900	194	209
4	4.500	0.337	3.826	275	305
5	5.563	0.375	4.813	387	_
6	6.625	0.432	5.761	542	582
8	8.625	0.500	7.625	805	883
10	10.750	0.593	9.564	1200	1309
12	12.750	0.687	11376	1650	180
14	14.000	0.750	12.500	1930	_
16	16.000	0.843	14.314	2544	-

PVC - V	PVC - Wall Schedule 40 - Support Spacing (feet)			
NPS	Operating Temperature (°F)			
(inches)	60	100	140	
1/2	41/2	4	21/2	
3/4	5	4	2 1/2	
1	5 ¹ / ₂	41/2	21/2	
11/4	5 ¹ / ₂	5	3	
11/2	6	5	3	
2	6	5	3	
3	7	6	31/2	
4	71/2	61/2	4	
6	81/2	71/2	41/2	
8	9	8	41/2	

PVC -	PVC - Wall Schedule 80 - Support Spacing (feet)				
NPS	Ope	Operating Temperature (°F)			
(inches)	60	100	140		
1/2	5	41/2	21/2		
3/4	51/2	41/2	21/2		
1	6	5	3		
11/4	61/2	5 ¹ / ₂	31/2		
1 ¹ / ₂	7	6	31/2		
2	8	7	4		
3	9	71/2	41/2		
4	10	9	5		
6	11	91/2	51/2		
8	9	8	41/2		

	Hydraulic Hose - No Skive SAE 100R1 Type AT				
SAE	Hose	e I.D.	Hose	O.D.	
Number	(in.)	(mm)	(in.)	(mm)	
SAE-3	3/16	5.0	0.46	12	
SAE-4	1/4	6.3	0.53	13	
SAE-5	⁵ / ₁₆	8.0	0.59	15	
SAE-6	3/8	10.0	0.68	17	
SAE-8	1/2	12.5	0.81	21	
SAE-10	5/8	16.0	0.94	24	
SAE-12	3/4	19.0	1.09	28	
SAE-16	1	25.0	1.41	36	
SAE-20	1-1/4	31.5	1.79	45	
SAE-24	1-1/2	38.0	2.00	51	
SAE-32	2	51.0	2.54	64	

Ту	Hydraulic Hose - No Skive SAE 100R2 Type AT - ISO 1436 Type 2AT - EN 853 Type 2SN				
SAE	Hos	se I.D.	Hose	e O.D.	
Number	(in.)	(mm)	(in.)	(mm)	
SAE-4	1/4	6.3	0.53	13	
SAE-5	⁵ / ₁₆	8.0	0.59	15	
SAE-6	3/8	10.0	0.68	17	
SAE-8	1/2	12.5	0.81	21	
SAE-10	5/8	16.0	0.94	24	
SAE-12	3/4	19.0	1.09	28	
SAE-16	1	25.0	1.41	36	
SAE-20	1-1/4	31.5	1.79	45	
SAE-24	1-1/2	38.0	2.00	51	
SAE-32	2	51.0	2.54	64	

Hydraulic Hose - SAE 100R16 Type AT				
SAE	Hos	se I.D.	Hos	e O.D.
Number	(in.)	(mm)	(in.)	(mm)
SAE-4	1/4	6.3	0.53	13
SAE-5	⁵ / ₁₆	8.0	0.59	15
SAE-6	3/8	10.0	0.68	17
SAE-8	1/2	12.5	0.81	21
SAE-10	5/8	16.0	0.94	24
SAE-12	3/4	19.0	1.09	28
SAE-16	1	25.0	1.41	36

Hydraulic Hose - No Skive SAE 100R17 Abrasion Resistant "Tough Cover" and "Super Tough" Cover				
SAE	Hos	e I.D.	Hose	O.D.
Number	(in.)	(mm)	(in.)	(mm)
SAE-4	1/4	6.3	0.53	13
SAE-6	3/8	10.0	0.68	17
SAE-8	1/2	12.5	0.81	21
SAE-10	5/8	16.0	0.94	24
SAE-12	3/4	19.0	1.09	28
SAE-16	1	25.0	1.41	36
SAE-20	1-1/4	31.5	1.79	45



FRACTION CONVERSION TABLE



	Decimal	Metric
Fractions	(in)	(mm)
1/64	0.016	0.40
1/32	0.031	0.79
	0.039	1
3/64	0.047	1.19
1/16	0.063	1.59
5/64	0.078	1.98
0.4	0.079	2
3/32	0.094	2.38
7/64	0.109	2.78
1/8	0.118 0.125	3 3.18
9/64	0.123	3.57
5/32	0.156	3.97
702	0.157	4
11/64	0.172	4.37
³ ⁄16	0.188	4.76
	0.197	5
13/64	0.203	5.16
7/32	0.219	5.56
15/64	0.234	5.95
17	0.236	6
1/ ₄ 17/ ₆₄	0.250	6.35
11/64	0.266 0.276	6.75 7
9/32	0.276	7.14
19/64	0.297	7.54
5/16	0.313	7.94
	0.315	8
21/64	0.328	8.33
11/32	0.344	8.73
	0.354	9
23/64	0.359	9.13
3/8	0.375	9.53
25/64	0.391	9.92
127	0.394	10
13/ ₃₂ 27/ ₆₄	0.406	10.32
21/64	0.422 0.433	10.72 11
7/16	0.438	11.11
29/64	0.453	11.51
15/32	0.469	11.91
	0.472	12
31/64	0.484	12.30
1/2	0.500	12.70
	0.512	13
33/64	0.516	13.10
17/32	0.531	13.49
35/64	0.547	13.89
9/16	0.551	14
^{9/16} 37/ ₆₄	0.563 0.578	14.29 14.68
/04	0.576	15
19/32	0.594	15.08
39/64	0.609	15.48
5/8	0.625	15.88
	0.630	16
41/64	0.641	16.27
21/32	0.656	16.67
40 :	0.669	17
43/64	0.672	17.07
11/ ₁₆	0.688	17.46
⁴⁵ /64	0.703	17.86 18
23/32	0.709 0.719	18.26
47/64	0.719	18.65
704	0.748	19
3/4	0.750	19.05
49/64	0.766	19.45

Fractions	Decimal	Metric
	(in)	(mm)
25/32	0.781	19.84
F1 /	0.787	20
51/64	0.797	20.24
13/16	0.813	20.64
53/ ₆₄ 27/ ₃₂	0.828	21.03
55/64	0.844 0.859	21.43
7/8	0.875	21.83 22.23
57/64	0.891	22.62
29/32	0.906	23
59/64	0.922	23.42
15/16	0.938	23.81
61/64	0.953	24.21
31/32	0.969	24.61
63/64	0.984	25
1	1	25.40
1 1/32	1.031	26.19
1 1/16	1.063	26.99
1 ³ / ₃₂ 1 ¹ / ₈	1.094 1.125	27.78
1 5/32	1.125	28.58 29.37
1 732	1.130	30
1 3/16	1.188	30.16
1 7/32	1.219	30.96
1 1/4	1.250	31.75
1 9/32	1.281	32.54
1 5/16	1.313	33.34
1 ¹¹ /32	1.344	34.13
1 3/8	1.375	34.93
	1.378	35
1 13/32	1.406	35.72
1 7/16	1.438	36.51
1 ¹⁵ / ₃₂ 1 ¹ / ₂	1.469	37.31
1 17/32	1.500 1.531	38.10 38.89
1 9/16	1.563	39.69
1 710	1.575	40
1 19/32	1.594	40.48
1 5/8	1.625	41.28
1 21/32	1.656	42.07
1 ¹¹ /16	1.688	42.86
1 ²³ / ₃₂	1.719	43.66
1 3/4	1.750	44.45
4 257	1.772	45
1 ²⁵ / ₃₂	1.781	45.24
1 ¹³ / ₁₆ 1 ²⁷ / ₃₂	1.813	46.04
1 7/8	1.844 1.875	46.83 47.63
1 29/32	1.906	48.42
1 15/16	1.938	49.21
. , , , ,	1.969	50
1 31/32	1.969	50.01
2	2	50.80
2 1/32	2.031	51.59
2 1/16	2.063	52.39
2 3/32	2.094	53.18
2 1/8	2.125	53.98
2 5/32	2.156	54.77
2 3/16	2.165	55 55 56
2 ³ /16	2.188	55.56 56.36
2 1/32	2.219 2.250	56.36 57.15
2 9/32	2.230	57.15
2 5/16	2.313	58.74
211/32	2.344	59.53
, ,,	2.362	60
2 3/8	2.375	60.33

Fractions	Decimal	Metric
2 ⁷ /16	(in) 2.438	(<i>mm</i>) 61.91
2 15/32	2.469	62.71
2 1/2	2.500	63.50
2 17/32	2.531	64.29
	2.559	65
2 %16	2.563	65.09
2 19/32	2.594	65.88
2 ⁵ /8 2 ²¹ /32	2.625 2.656	66.68 67.47
2 11/16	2.688	68.26
2 23/32	2.719	69.06
2 3/4	2.750	69.85
	2.756	70
2 ²⁵ /32	2.781	70.64
2 ¹³ / ₁₆	2.813	71.44
2 27/32	2.844	72.23
2 ⁷ /8 2 ²⁹ /32	2.875 2.906	73.03
2 ¹⁵ / ₁₆	2.938	73.82 74.61
2 710	2.953	75
2 31/32	2.969	75.41
3	3	76.20
3 1/32	3.031	76.99
3 1/16	3.063	77.79
3 3/32	3.094	78.58
3 1/8	3.125	79.38
3 ⁵ / ₃₂	3.150 3.156	80 80.17
3 3/16	3.188	80.96
3 7/32	3.219	81.76
3 1/4	3.250	82.55
3 %2	3.281	83.34
3 5/16	3.313	84.14
3 11/32	3.344	84.93
3 3/8	3.346 3.375	85 85.73
3 13/32	3.406	86.52
3 7/16	3.438	87.31
3 ¹⁵ /32	3.469	88.11
3 1/2	3.500	88.90
3 17/32	3.531	89.69
0.07	3.543	90
3 ⁹ ⁄16 3 ¹⁹ ⁄32	3.563 3.594	90.49 91.28
3 5/8	3.625	92.08
3 21/32	3.656	92.87
3 ¹¹ / ₁₆	3.688	93.66
3 23/32	3.719	94.46
- 0.	3.740	95
3 3/4	3.750	95.25
3 ²⁵ / ₃₂ 3 ¹³ / ₁₆	3.781 3.813	96.04 96.84
3 27/32	3.844	97.63
3 7/8	3.875	98.43
3 29/32	3.906	99.22
	3.937	100
3 ¹⁵ /16	3.938	100.01
3 31/32	3.969	100.81
4 1/10	4 062	101.60
4 ½16 4 ½8	4.063 4.125	103.19 104.78
4 3/16	4.123	104.76
4 1/4	4.250	107.95
4 5/16	4.313	109.54
	4.331	110
4 3/8	4.375	111.13
4 7/16	4.438	112.71

Fractions	Decimal	Metric
	(in)	(mm)
4 %16	4.563	115.89
4 5/8	4.625	117.48
4 ¹¹ /16	4.688	119.06
	4.724	120
4 3/4	4.750	120.65
4 ¹³ / ₁₆	4.813	122.24
4 ⁷ /8	4.875	123.83
4 ¹⁵ /16	4.938	125.41
5	5	127.00
	5.118	130
5 1/4	5.250	133.35
5 1/2	5.500	139.70
	5.512	140
5 3/4	5.750	146.05
	5.906	150
6	6	152.40
6 1/4	6.250	158.75
	6.299	160
6 1/2	6.500	165.10
	6.693	170
6 3/4	6.750	171.45
7	7	177.80
	7.087	180
	7.480	190
7 1/2	7.500	190.50
	7.874	200
8	8	203.20
8 1/2	8.500	215.90
9	9	228.60
9 1/2	9.500	241.30
-	9.843	250
10	10	254.00
11	11	279.40
	11.811	300
12	12	304.80
13	13	330.20
-	13.780	350
14	14	355.60
15	15	381.00
	15.748	400
16	16	406.40
17	17	431.80
•••	17.717	450
18	18	457.20
19	19	482.60
	19.685	500
20	20	508.00
20		000.00



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