GE Oil & Gas

Dresser* Pipeline Solutions Repair products for water, wastewater and industrial piping systems





imagination at work

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NOTE: Never install any GE products before reading the installation instructions and warnings.

Dresser Pipeline Solutions from GE Oil & Gas

include more than a dozen types of products, that consistently meet your water, wastewater, and industrial piping system needs. We provide a one-stop shop of integrated repair products to help you solve problems wherever they occur along your pipeline distribution system.

The many repair applications for these durable, dependable products include pinhole leaks, splits, corrosion cracks, broken welds, joint leaks and line breaks. Our products are designed for simple installation and quick, economical, permanent repairs that help you avoid service interruptions.

Precision engineering and manufacturing, along with innovative technologies and painstaking quality control, assure that you receive a proven Dresser piping repair solution. And GE backs it all up with a global force of sales and service specialists who are attuned to your needs and fully versed in the design and performance qualities and installations of every product.

Dresser Repair Products for Cast Iron and Ductile Iron Pipe



A. Longitudinal Breaks up to 8"B. Circumferential Breaks



D. Small Pinhole Leaks, Splits and Corrosion CracksE. Broken Weld

Product	Size	Page
Style 80 Split Sleeve	3" - 8"	12
Style 126 Split Sleeve	3" – 24"	15
Style 360 Clamp ¹	2" - 30"	9
¹ (A,B, & D)		



Product	Size	Page
Style 126 Split Sleeve	3" - 24"	15

Leaking Coupled Joints or Mechanical Joints



Leaking Bell or Spigot Joints, Broken or Cracked Bell Joints, Leaking or Cracked Stab-Joint

Product	Size	Page
Leaking Bell: Style 60/160 Bell Clamp 60-S	3" - 48" 4" - 24"	10 8
Cracked Bell: Style 126 Split Sleeve	3" - 24 "	15

Dresser Repair Products for Water and Industrial Steel Pipe



A. Longitudinal Breaks up to 8"B. Circumferential Breaks



D. Small Pinhole Leaks, Splits and Corrosion CracksE. Broken Weld

Product	Size	Page
Style 96 Split Sleeve	6" - 30"	13
Style 97 Split Sleeve	3" -16"	14
Style 110 Weld Sleeve	4"-30"	16
Style 220 Weld Sleeve	2" - 26"	17
Style 77 Band Clamp	2" - 24"	4
Style 118 Clamp ¹	1/2" – 8"	5
Style 360 Clamp ¹	2" - 30"	6
¹ (A,B, & D)		

Leaking Threaded Joints or Leaking Mechanical Joints

Product	Size	Page
Threaded Joints: Style 4 Collar Clamp	2" - 4"	6
Style 41 Collar Clamp	6" - 12"	6
Mechanical Joints: Style 96 Split Sleeve	6" - 30"	13

Style 220 Weld Sleeve

6" - 26" 18

Style 4 and 41 Collar Clamps

Stops all leaks through screw collars

Dresser Style 4 and 41 clamps quickly and inexpensively stop leaks through the threads of screw collars (threaded couplings), solvent weld couplings (collars) and stab-type PVC joints. Repairs are permanent and normally made without interrupting service or dismantling the line.

Style 4 clamps consist of two malleable split follower rings with interlocking ends on each section, two resilient split Dresser gaskets, and bolts as required for pipe sizes up to 4".

Style 41 clamps consist of the same parts except the split follower rings are steel and are connected by steel lock links.

Material of Construction					
Followers	Style 4 Malleable Iron, 41 Steel				
Bolts & Nuts Alloy to AWWA C111/ANSI A21.1					
Gasket	Grade 27 BUNA S				
Coating	Fusion-Bonded Epoxy				





Style 4 Clamp (Malleable) - Size Specifications for 3/4" - 4"

		Collar Dimensions		Bolts Number	Clamp Dir	nensions		Approximate
Nominal Size Steel (ID)	Outside Diameter (OD)	Overall Dimensions (A)	Overall Length (B)	Diameter & Length (C & D)	Overall Diameter (G)	Overall Length (H)	Gasket Section Dimensions	Shipping Weight Ea. (lbs)
2	2.375	2.841	3.625	4- 5/8 x 6-1/2	6-5/16	7	9/32 X 5/8	8
3	3.500	4.014	4.125	4- 5/8 x 7-1/2	7-1/2	8	11/32 X 3/4	9
4	4.500	5.233	4.625	4- 5/8 x 7-1/2	8-1/2	8	23/64 X 3/4	11

Style 41 Clamp (Steel) – Size Specifications for 6" – 12"

Nominal	Outcido	Collar Dimensions		Bolts Number	olts Number Clamp Dimensions Casket Approxim		Approximate	
Size Steel (ID)	Diameter (OD)	Overall Dimensions (A)	Overall Length (B)	Diameter & Length (C & D)	Overall Diameter (G)	Overall Length (H)	Section Dimensions	Shipping Weight Ea. (lbs)
6	6.625	7.482	5.125	6 – 5/8 x 8-1/2	10-3/4	9-1/2	7/16 X 3/4	23
8	8.625	9.596	6.125	6 – 5/8 x 9-1/2	12-7/8	10-1/2	1/2 X 3/4	28
10	10.750	11.958	6.625	8-5/8 x 10.0	15-3/8	11	5/8 X 23/32	44
12	12.750	13.958	6.625	8-5/8 x 10.0	17-3/8	11	5/8 X 23/32	50

Dimensions are inches unless otherwise noted.

Style 77 Band Clamp

For repair of pinhole leaks



	Material of Construction
Band/Lugs	AISI C1008/1010 Carbon Steel
Bolt & Nut	SAE Grade 5 Carbon Steel
Gasket	BUNA N Grade 30
Coating	Fusion-Bonded Epoxy

Dresser Style 77 band clamps are specifically designed to provide a low cost repair for small pinholes, leaks, corroded areas and pits in straight runs of steel piping. They are suitable for practically all working pressures and line contents.

Each clamp consists of a flexible, one-piece carbon steel circular band that is sprung apart to fit over the pipe, and a high-strength carbon steel bolt and nut of sufficient diameter to provide both a safety factor and protection against corrosion. The Style 77 clamp is available in standard steel pipe sizes from 2" thru 24" with 2" or 3" bands. Cone gaskets must be specified when ordering the Style 77 clamp with three different size cone gaskets available (See chart).

NOTE: Cone gaskets are NOT an integral part of the clamp and must be specified when ordering. The Style 77 clamp is available with three different size cone gaskets (See chart below).

Gasket

Size 1-5/8

2

2-1/2



Style 77 Clamp - Size Specifications 2" - 24"

Pipe (Steel) Nominal Size (ID)	Outside Diameter (OD)	Band Thickness & Width	Bolt Diameter & Length	Approximate Ship Weight Ea .(lbs.)
2	2.375	1/16 x 2	1/2 x 4	0.84
3	3.500	1/16 x 2	1/2 x 4	0.96
4	4.500	1/16 x 2	1/2 x 5-1/2	1.3
5	5.563	1/16 x 2	1/2 x 5-1/2	1.4
6	6.625	3/32 x 3	5/8 x 6	2.8
6-5/8 CAS	7.000	3/32 x 3	5/8 x 6	2.9
8	8.625	3/32 x 3	5/8 x 6	3.4
10	10.750	3/32 x 3	5/8 x 7	4.0
12	12.750	3/32 x 3	5/8 x 7	4.5

Dimensions are inches unless otherwise noted.

Style 118 Handiband Clamp

For quick, permanent repair of small holes in steel pipe

The Dresser Style 118 handiband clamp is a field-proven, low cost band-type repair clamp for quick repair of small leaks and holes in steel piping.

Installation is fast, easy and foolproof. Simply wrap the clamp around the pipe, drop the bolts through the slotted lugs and tighten the nuts. Compression of the large size gasket seals the leak completely and permanently.

The Handiband clamp is made of stainless steel for corrosion resistance. The Dresser Buna S gasket offers superior resistance to oils, aromatic and aliphatic hydrocarbons, gasoline and condensates.

Individual components of the Style 118 clamp are carefully engineered and constructed with lugs of ductile iron and bolts plated for long-life and durability. Style 118's come fully assembled and ready to install so there are no loose parts to misplace. The 118 clamp is available for pipe sizes 1/2" through 8" in 3, 6 and 12" lengths to cover a variety of leaks.

	Material of Construction
Band	Stainless Steel 18-8, Type 304
Lugs	Ductile Iron ASTM 536
Bolts & Nuts	Alloy to ANSI A21.11
Gaskets	Gridded to GE Specs/Buna S

Style 118 Clamp - Size Specifications for 1/2" - 8"

Nominal Size (ID)	Outside Diameter (OD)	Overall Length	Quantity per Package	Weight Approx. Ea. (lbs)
1/2	.840	3	20	.50
1/2	.840	6	10	1.00
3/4	1.050	3	16	.60
3/4	1.050	6	8	1.10
1	1.315	3	16	.60
1	1.315	6	8	1.20
1-1/4	1.660	3	12	.90
1-1/4	1.660	6	6	1.70
1-1/2	1.900	3	12	.90
1-1/2	1.900	6	6	1.80
2	2.375	3	8	1.11
2	2.375	6	4	2.30
2	2.375	12	2	4.50
2-1/2	2.875	3	8	1.20
2-1/2	2.875	6	2	2.30

Maximum 150 psi 1/2" - 4" Maximum 100 psi 5" - 8"

Nominal Size (ID)	Outside Diameter (OD)	Overall Length	Quantity per Package	Weight Approx. Ea. (lbs)
3	3.500	3	6	1.20
3	3.500	6	4	2.40
3	3.500	12	2	4.80
3-1/2	4.000	3	6	1.50
3-1/2	4.000	6	4	3.00
4	4.500	3	6	1.50
4	4.500	6	4	3.10
4	4.500	12	2	6.30
5	5.563	3	6	1.60
5	5.563	6	4	3.21
6	6.625	3	6	1.80
6	6.625	6	4	3.60
6	6.625	12	1	7.20
8	8.625	3	6	2.00
8	8.625	6	4	2.00
8	8.625	12	1	2.00

Dimensions are inches unless otherwise noted.

NOTE: All orders for unpackaged sizes and for broken carton quantities will be random packaged.

<image>

NOTE: The Style 118 clamp does not provide a full 360-degree seal on the pipe. For full circle seal and repair applications, see the Style 360 repair clamp on page 9.

Style 360* Repair Clamps

For fast repair of leaks in cast/ductile and steel mains



Material of Construction					
Band	AISI Type 304 Stainless Steel				
Lugs	Ductile Iron				
Nuts	Dresserloy				
Bolts	Dresserloy				
Spanner	AISI Type 304 Stainless Steel				
Gasket	Gridded Surface to Dresser Specs				

Nom.

Size

(in)

2

Range

to Fit

(OD)

2.35 - 2.63

Style 360 Clamp - Specifications for Sizes 2" - 30"

Clamp

Widths

(in)

7-1/2, 12-1/2

Max.

psi

250

Nom. Size

(in)

10

The Dresser Style 360 repair clamp offers simplicity and ease of installation. Just wrap the clamp around the pipe, drop the bolts in place and tighten. It's that simple! Moreover, special one-inch long nuts allow the use of a standard deep socket wrench for complete tightening. In the popular 7.5" clamp width, there is also a third bolt so the middle bolt and nut can be used to pre-tighten the clamp. Additionally, the smaller sized clamps feature a flexible band which means less holding force is required while tightening.

With the Style 360 clamp you can repair holes, breaks and splits in the pipeline. You can use it where pipe ends are separated, or where ends are deflected up to 4 degrees or 1/8 inch. Or you can join two pipes with a variation of 1/4 inch outside diameter. Clamp features include a tapered gasket with a gridded design and the spanner is molded flush with the gasket to prevent "hang up." The Style 360 has a stainless band, lugs of rugged ductile iron and bolts of corrosionresistant Dresserloy.

- One-Inch Long Nuts allow tightening with standard deep socket wrench
- Drop-In Bolts No need to remove bolts in the ditch. No loose parts to misplace

Max.

psi

 Multi-Band Clamp - Features a multi-band design in the 14" through 24" sizes. Clamp is packaged and shipped "in

Clamp

Widths

(in)

the flat" meaning the bands are not formed to the radius of the pipe. Reduces storage space and installation time, and has twice the adjustment range of the single-band clamp

 Stainless Steel Bolts and Nuts available upon request

	2.70 - 3.00	0.024" Thick Band	200		11.34 - 11.74	/-1/2, 12-1/2, 20, 30	00	
3	2.97 - 3.25 3.46 - 3.70	7-1/2 or 12-1/2 7-1/2 or 12-1/2, 20	250 220		11.75 - 12.15 12.00 -12.40	0.036" Thick Band	90	
	3.73 - 4.00 3.96 - 4.25	0.024" Thick Band		12	12.62 - 13.02 13.10 - 13.50	7-1/2 or 12-1/2, 20, 30 0.036" Thick Band	90	
4	4.45 - 4.86 4.74 - 5.14 4.95 - 5.35	7-1/2 or 12-1/2 7-1/2, 12-1/2, 20 0.024" Thick Band	170		13.40 - 13.80 13.70 - 14.10 14.00 - 14.40			1
4-5	5.22 - 5.62	7-1/2 or 12-1/2		2-Band	14.38 - 15.13		130	
		7-1/2, 12-1/2, 20, 30	200	Sizes	15.07 - 15.82		110	
6	5 95 - 6 35	0.030 THICK DUHU			15.92 - 16.67 16 56 - 17 31		85	
0	6.56 - 6.96	7 1/2 12 1/2 20 70			17.15 - 17.90		60	
	6.84 - 7.24	7-1/2, 12-1/2, 20, 30 0.036" Thick Band	200		17.82 - 18.57	20.70		
	7.05 - 7.45 7.45 - 7.85				18.46 - 19.21 19.23 -19.98	20, 30 0.048" Thick Band		
8	7.95 - 8.35	7-1/2, 12-1/2, 20, 30	160		19.90 - 20.65 20.70 - 21.45			
	8.54 - 8.94 8.99 - 9.39	0.036" INICK Bana			21.52 - 22.27			
	9.27 - 9.67				22.12 - 22.87			
	9.68 - 10.08	7 4 12 42 4 12 20 70	120		22.90 - 23.05			
	9.70 - 10.10	/-1/2, 12-1/2, 20, 30	120					
10	10.64 - 11.05	/-1/2, 12-1/2, 20, 30 0.036" Thick Band	90	3-Band Sizes	23.28 - 24.38 29.62 - 30.72	20, 30 0.048" Thick Band	45	

Range

to Fit

(OD)

11.04 - 11.44

Dimensions are inches unless otherwise noted.

Style 60 & 160 Bell Joint Clamps

For repair of cast iron bell & spigot joints



Material of Construction				
Bell Ring	Ductile or Malleable Iron			
Bolts & Nuts	Dresserloy Carbon Steel			
Spigot Ring	Ductile or Malleable Iron			
Clips	ASTM A-307			
Gasket	Grade 27 BUNA S			
Coating	Fusion-Bonded Epoxy			

Dresser Style 60 and 160 bell joint clamps permanently stop or prevent leaks through the jointing materials of cast iron bell-and-spigot joints. Completely adjustable to provide a close fit on both the pipe bell and spigot, one standard clamp fits virtually all the various makes of pipe within a nominal size.

Style 60 and 160 clamps can be quickly installed with no interruption of service. A large, special rubber compound gasket shuts off the leak when compressed as the spigot ring is drawn up and, in turn, by bolts connected to the bell ring (anchored on the bell).

Style 60 Clamps

The spigot ring of the Style 60 clamp offers a wide range of adjustment made possible by the use of clips having fillers with the same cross section of the spigot ring. Serrated ends on the bell ring sections offer a simple and effective means of adjustment, providing a positive fit for varying outside bell diameters.



Style 160 Clamps

The Style 160 clamp features a wrap around design of the spigot ring that hinge together. There are no clips and the spigot sections have serrated ends that bolt together.

Gasket Tongs

Dresser gasket tongs help simplify the installation of bell joint clamps. The tongs hold the gasket in place while the clamp is being boltedup, assuring full, uniform gasket compression. Consult factory for product details.

Style 60/160 Clamp – Size Specifications for 18" – 48"

Style 60/160 Clamp – Size Specifications for 3" – 16"

Nominal Size (CIP)	Gasket Thickness x Length	Bolt Number Dia. x Length	Weight App. Ship. Ea. (lbs)	Nominal Size (CIP)	Gasket Thickness x Length	Bolt Number Dia. x Length	Weight App. Ship. Ea. (lbs)
3	1-1/8 × 1	4 – 5/8 x 5	13	18	1-1/8 × 1	12 – 5/8 x 6-1/2	73
4 ¹	1-1/8 × 1	4 – 5/8 x 6	15	20	1-1/8 × 1	12 - 5/8 x 6-1/2	74
61	1-1/8 × 1	6 - 5/8 x5-1/2	21	24	$1 - 1/8 \times 1$	12 – 5/8 x 7	86
81	1-1/8 × 1	6 - 5/8 x 5-1/2	24	30	$1 - 1/8 \times 1$	16 - 5/8 x 7	113
10	1-1/8 × 1	8 - 5/8 x 5-1/2	35	36	$1 - 1/8 \times 1$	20 - 5/8 x 7	148
12 ¹	1-1/8 × 1	9 - 5/8 x 5-1/2	38	42	$1 - 1/8 \times 1$	24 - 5/8 x 7-1/2	199
14	1-1/8 × 1	9 – 5/8 x 6	46	48	1-1/8 × 1	24 - 5/8 x 7-1/2	227
16 ¹	1-1/8 x 1	9 – 5/8 x 6	50				

Dimensions are inches unless otherwise noted.

¹NOTE: Style 160 Clamps may be furnished in these sizes.

Style 60-S Bell Joint Clamps

For repair of stab-type bell joints



Dresser Style 60-S bell joint clamps are similar to the standard Style 60 clamp, but consists of two spigot rings rather that one spigot and one bell ring. This difference in design is necessary since most stab-type joints, including cast-iron pipe, have a long, tapered bell which has no shoulder for anchoring a bell ring.

Long studs are provided for adjustability to provide a close fit on both pipe bell and spigot ends. A large, special rubber compound gasket shuts off the leak when compressed as the spigot rings are drawn up and the studs are tightened against the bell. Style 60-S clamps can be quickly installed with no interruption of service.



Style 60-S Clamp - Size specifications 4" - 36"

Nominal Size (CIP)	Spigot Ring Number (2 per clamp)	Studs Number Diameter x Length	Approximate Ship Weight Ea. (lbs.)
4	160AO480	4 - 5/8 x 13	18
6	160AO690	6 - 5/8 x 13	27
8	160AO905	6 - 5/8 x 13	33
10	60B1110	8 - 5/8 x 13	43
12	160A1320	8 - 5/8 x 13	48
14	60A1530	9 - 5/8 x 13	71
16	60B1740	9 - 5/8 x 16	74
18	60A1950	12 - 5/8 x 16	91
20	60A2160	12 - 5/8 x 16	100
24	60D2580	12 - 5/8 x 16	115
30	60A3174	16 - 5/8 x 16	171
36	60B3830	20 - 5/8 x 16	247

Dimensions are inches unless otherwise noted.

NOTE: Style 60-S Clamps can be used on caulked cast iron pipe joints for Class A, B, C and D C900 pipe sizes through 24"; Same pipe for Class A, B, and C in sizes 30" and 36".

Style 80 "Ready-Pack" Split Sleeve

For repairs on cast iron pipe

Dresser Style 80 "ready-pack" split sleeve is used to enclose and permanently repair breaks, splits and holes in cast iron pipe. Style 80 sleeves can also be used as an efficient, low-cost tapping sleeve for branch service connections.

Style 80 sleeve bodies are cast from close-grained gray iron (malleable iron in 2" size). Steel follower rings on each end are completely enclosed in the sleeve body. Carbon steel set screws are drawn up against the follower ring to compress the gasket creating total circumferential sealing on the pipe. Side bolts, which are fully enclosed within the sleeve body to prevent corrosion, are tighten to compress side gaskets providing a complete leakproof seal.

Style 80 sleeves are also available in a long pattern desigfor a larger sealing area. Dresser Style 80 sleeves are recommended for all customary pressures where pipe wall thickness is in conformity with specifications for standard cast iron pipe.

Material of Construction					
Body	Cast or malleable iron				
Vent Plug	Forged Steel to ASTM A105 or Cast to ASTM A126-42 Class A				
Follower Rings	Cold-formed carbon steel				
Bolts & Nuts	Alloy to AWWA C111/ANSI A21.11				
Gaskets	Dresser Spec 328 Kevlar™ Reinforced rubber				
Set Screws	Heat treated carbon steel, cadmium plated				
Coatings	Dresser shopcoat as standard; Fusion-bonded Fpoxy optional				



Style 80 Sleeve - Specifications for Sizes 3" - 8" (Regular pattern body for 3, 4 and 6" sizes)

Nom.	Ranae of	End Screws Side Bolts End Side Gask		Side Gasket	Inside Dimension ¹		Overall Dimension			Weight	
Pipe Size (CIP)	Fit Outside Dia. (OD)	Number Dia. x Length A & B	Dia. x Length C & D	Gasket Section Dimension	Section Dimensions	Dia. (E)	Length (F)	Dia. (G)	Length (H)	Vent Size (Dia.)	Shipping Each (lbs)
3	3.750 - 4.000	12-3/8 x 1	4-5/8 x 5-1/2	5/8 x 3/4	5/16 x 1/2	5-5/32	4	7-15/16	9-3/8	3/4-2-1/2	40
4 ² 4 Long	4.740 - 4.990	12-3/8 x 1	4-5/8 x 5-1/2 2-5/8 x 5-1/2	5/8 x 3/4	5/16 x 1/2	6-5/32	4	8-15/16 12-1/2	9-3/8	3/4-3	45 52
6² 4 Long	6.840 - 7.090	16-3/8 x 1	4-5/8 x 6-1/2 2-5/8 x 5-1/2	5/8 x 3/4	5/16 x 1/2	8-1/4	4	11-1/16 12-1/2	9-5/16	3/4-3	60 74
8 ³ 8 Long	8.990 - 9.240	20-3/8 x 1	2-5/8 x 5-1/2 2-5/8 x 5-1/2	5/8 x 3/16	5/16 x 1/2	10-13/32	7	14-3/8 12-1/2	12-1/2	3/4-3	100

Dimensions are in inches unless otherwise noted.

¹ Inside Dimension "F" as indicated in cross section drawing, is distance between inside of end gaskets. This length is equal to or greater than

found between calking spaces in foundry "splits" as shown in AGA Standards Specifications for Service Sleeves.

² Also available in long pattern design with vent size up to 4". Consult factory for specification details. Style 80 long body sleeves have six side bolts. ³ Size 8" sleeve is available in long pattern design only, with six side bolts and vents up to 4".

Style 96 Split Repair Sleeve

Expanded body split sleeve for repairs on steel pipe

Dresser Style 96 split repair sleeves offer an expanded body for repair of coupled or mechanical joints on high pressure steel transmission piping systems. Style 96 sleeves are fabricated from high quality carbon steel and come completely factory-assembled for quick installation. Sleeves are also vented for installation under pressure.

- Designed to completely enclose and permanently repair leaking coupled joints or encase defective screw collars or butt-welded joints.
- End cap screws with encased follower ring design provides additional circumferential sealing around the pipe.

	Material of Construction
Body Halves	Weldable steel suitable for the particular application to ASTM A36 or equivalent
Follower Ring	Carbon Steel AISI C1015
Cap Screws	Heat-treated Carbon Steel C1038 cadmium-plated
Bolts	Meet ASTM A193 Grade B7 and the strength requirements of the application
Gaskets	Grade 29 - Spec 328 Kevlar™ Reinforced Rubber
Coating	Dresser shopcoat standard; Fusion bonded epoxy optional
Temperature	-20° F to 150° F



Style 96 Sleeve -

Dimension Specifications for Sizes 6"- 30" Rated to 500 psi

Steel		Inside	Dim.	Overall Dim.		
Pipe Nom. Size (in)	Outside Dia. (OD)	(A)	(B)	(C)	(D)	Vent Dia.
6	6.625	12-5/8	14	17-7/8	18-3/8	2
8	8.625	14-5/8	14	19-7/8	18-3/8	2
10	10.750	16-3/4	14-1/4	22	18-7/8	3
12	12.750	18-3/4	14-1/4	24-1/4	20-3/4	3
14	14	20	14-1/4	25-1/2	20-3/4	3
16	16	20	14-1/4	27-1/2	20-3/4	4
18	18	20	14-1/4	29-1/2	20-3/4	4
20	20	26	14-1/4	32-1/4	20-3/4	4
22	22	28	14-1/4	34-1/4	20-3/4	4
24	24	30	16	36-1/8	22-1/2	4
26	26	32	17-1/4	38-1/2	21-3/4	4
28	28	34	17-1/4	40-1/2	21-3/4	4
30	30	36	17-1/4	42-5/8	21-3/4	4

Dimensions are in inches unless otherwise noted.

NOTE: Larger sizes, metric size and higher pressures are available on request. Please consult factory with your particular application requirements.







Style 97 Split Repair Sleeve

For repair on steel pipe



The Dresser Style 97 split repair sleeve is designed for fast, simple repair of pit holes, cracks or splits in high pressure steel pipelines up to 48" in diameter. Costing less than heavier sleeves now on the market, the Style 97 is also weldable offering your choice of a temporary or permanent repair. Stainless steel retainer rings and the lock-in gasket design ensures pressure-tight closure on the pipe with seal lengths of 5-inches (3-12") and 8-inches (14-48"). For ease of installation, a hinge and pin assembly and lifting lugs are standard on all clamps 6" and above. All clamps feature a 1/2" NPT relief plug.

Style 97 sleeves come completely factory-assembled for quick installation. Fabricated from high quality carbon steel or manufactured from cast steel, all Style 97 sleeves are factory-tested to 1.5 times rated pressure.



	Ratings
Pressure Ratings ¹ Size 3" - 16"	Up to ANSI 600 to 1480 psi
Temperature Ratings	-20° F to +120° F

¹ NOTE: All Dresser Style 97 sleeves are factorytested to 1.5 times the pressure rating.

Style 97 Sleeve - Specifications for Sizes 3"- 16"

Nominal Size (in)	Overall Diameter (A)	Overall Width (B)	NPT Plugs	Overall Length (C)	Seal Length	Approximate Weight Per Sleeve (lbs.)
3	5.5	8.3	1/2	8.5	5	42
4	6.3	10.5	1/2	8.5	5	65
6	8.6	12.6	1/2	9	5	85
8	10.5	15	1/2	9	5	132
10	12.7	17.5	1/2	9	5	156
12	15	19.2	1/2	9	5	174
16	18.3	24.6	1/2	12	8	360

Material of Construction							
Body	Carbon Steel to ASTM A515/516; Cast to ASTM A216						
Studs	Carbon Steel to ASTM A193 Gr B7						
Hex Nuts	Carbon Steel to ASTM A194 Gr 2H						
Seal Retainer	Stainless Steel						
Gasket Seals	Grade 29 - Spec 328 Kevlar™ Reinforced Rubber						
Hinge Bracket	AISI 1010 Steel						
Hinge Pin	AISI 1018 Steel						
NPT Plugs	Carbon Steel						

All dimensions are in inches unless otherwise noted.

NOTE: Large diameters, metric sizes and longer seal lengths are available on request. Please consult factory with your particular application requirements.

Style 126 Repair Sleeve

For repair of broken cast iron bell and spigot joints

For repairing cast iron bell and spigot joints, Dresser Style 126 repair sleeves help avoid pipeline shutdowns offering a fast, economical and permanent repair. A sleeve of lighter weight and compact design, the Style 126 sleeve provides maximum inside dimension clearance for repairing split or broken cast iron bells and leaking mechanical or coupled joints.

Built to rigid GE specifications, Style 126 repair sleeves provide the time-proven features of the Dresser rubber-packed gasket sealing design. Side bolts, which are fully enclosed within the sleeve body to prevent corrosion, are tightened to compress side gaskets providing a complete, permanent leakproof seal. Carbon steel set screws are tightened against the enclosed follower ring, which compresses the end gaskets creating total circumferential sealing on the pipe.



Style 126 Sleeve - Specifications for Sizes 3"- 24"



Material of Construction							
Body	Cast or malleable iron						
Vent Plug	Forged Steel to ASTM A105 or Cast to ASTM A126-42 Class A						
Followers	Cold-formed carbon steel						
Bolts	Alloy to AWWA C111/ANSI A21.11						
Gaskets	Grade 29 - Spec 328 Kevlar™ Reinforced Rubber						
Set Screws	Carbon Steel, cadmium plated						
Coating	Dresser shopcoat standard; Fusion bonded epoxy optional						

Nom-	Pine	Out-	End Screws ¹	Short Side Long Side Bolts		s Inside Dimension Overall Dimensi		Dimension	Vent ³	Weight	
inal Size (CIP)	Class AWWA	side Dia. (OD)	Number Dia. x Length (A) & (B)	Bolts² Number Dia. x Length	Number Dia. x Length (D)	Dia. (E)	Length (F)	Dia. (G)	Length (H)	Size Dia.	Approx. Ea. (lbs.)
3	А	3.800	12-3/8 × 1	6 -5/8 x 4	4-5/8 × 5-1/2	8-1/2	12	13	19-1/16	1	123
3	B, C, D	3.960	12-3/8 x 1	6 –5/8 x 4	4- 5/8 x 5-1/2	8-1/2	12	13	19-1/16	1	123
4	А	4.800	12-3/8×1	6 –5/8 x 4	4- 5/8 x 6	10	12	14-1/2	19-1/16	1	136
4	B, C, D	5.000	12-3/8 x 1	6 -5/8 x 4	4-5/8 x 6	10	12	14 -1/2	19-1/16	1	136
6	А	6.900	16-3/8 x 1	6 –5/8 x 5	4-5/8 x 7	12-1/2	12	17 -1/8	19-1/16	1	185
6	B, C, D	7.100	16-3/8 x 1	6 –5/8 x 7	4-5/8 x 7	12-1/2	12	17 -1/8	19-1/16	1	185
8	A,B	9.050	20-3/8 x 1-1/4	6 –5/8 x 5	4- 5/8 x 7 - 1/2	15 -1/2	12-3/8	20 -1/4	19-3/16	1	265
8	C, D	9.300	20-3/8×1-1/4	6-5/8 x 5	4-5/8 x 7 - 1/2	15 -1/2	12-3/8	20-1/4	19-3/16	1	265
10	A,B	11.100	24-7/16 x 2-1/4	12-3/4 x 4	_	16-5/8	13-1/2	22-3/8	18-5/8	1	300
10	C, D	11.400	24-7/16 x 2-1/4	12-3/4 x 4	-	16-5/8	13-1/2	22-3/8	18-5/8	1	300
12	A,B	13.200	28 -7/16 x 2-1/4	12-7/8 x 4	_	18-3/4	13-1/2	24-1/2	18-5/8	1	335
12	C, D	13.500	28-7/16 x 2-1/4	12-7/8 x 4	-	18-3/4	13-1/2	24-1/2	18-5/8	1	335
16	A,B	17.400	32-7/16 x 2-1/4	14 -7/8 x 4	_	24	16	30	21-1/8	2	554
16	C, D	17.800	32-7/16 x 2-1/4	14 -7/8 x 4	-	24	16	30	21-1/8	2	554
20	A,B	21.600	40-7/16 x 2-1/4	14-1×4	_	30	17	36	22-1/8	3	770
20	C, D	22.060	40-7/16 x 2-1/4	14-1×4	-	30	17	36	22-1/8	3	770
24	A,B	25.800	48-7/16 x 2-1/4	14-1×4	_	33-7/8	18	39-7/8	23-1/8	3	853
24	C, D	26.320	48-7/16 x 2-1/4	14-1×4	-	33-7/8	18	39-7/8	23-1/8	3	853

All dimensions are in inches unless otherwise noted.

¹ End Screws are cadmium-plated high-grade steel, and have square heads, 3/8" across flats.

² Side Bolts are cadmium-plated high-grade steel with track heads and rolled threads through 8" size.

Larger sizes are supplied with galvanized machine bolts.

³ Vent supplied with iron pipe threads or corporation threads, if specified.

Style 110 Reinforcing Sleeve

Split reinforcing sleeve for repair of welded joints

Pipeline engineers assure the safety of field joints by installing Dresser Style 110 reinforcing sleeves on welded joints where special precautions are required. Style 110 sleeves can be used on defective 'trouble spots' on piping systems at highway, river and railroad crossings, at overbends, at tie-ins, in marshy ground, near buildings and other places where special precautions are necessary.

The Style 110 sleeve lends itself to field welding without preheating, using ordinary field welding procedures. All sleeves are factory prepared with standard welding bevel, machine flame cut for uniformity and ease of welding, and come with a drilled vent hole to preclude pressure build up between sleeve and pipe.

Built to rigid GE specifications, Style 110 sleeves have a minimum yield strength of 50,000 psi and an ultimate strength of 70,000 psi. Style 110 sleeves are supplied in all sizes, lengths and thicknesses as shown in charts. Larger sizes and lengths available upon request.



Material of Construction

Body High strength, low carbon steel meeting ASTM A572 GR 50/ASTM A588

Style 110 Sleeve¹ – Specifications for Sizes 4" - 30"

Nominal Size	Inside Diameter "A" & Pipe (OD)	Diameter "B"	Length "L"	Thickness "T"	Approx. Ship Wt. (lbs)	Nominal Size	Inside Diameter "A" & Pipe (OD)	Diameter "B"	Length "L"	Thickness "T"	Approx. Ship Wt. (Ibs)
4	4-1/2	5-3/8	4	5/16	5-1/2	20	20	24.4/2	9	1/2	86
6	6-5/8	/-1/2	6	3/8	16-1/2	20	20	21-1/2	12 21	1/2 1/2	112 186
8	8-5/8	9-1/2	6	3/8	19				6	3/8	47
8	8-5/8	9-1/2	6	3/8	26				9	3/8	70
8	8-5/8	9-1/2	8	1/2	35				12	3/8	92
10	10-3/4	11-5/8	6	3/8	23	22	22	23-1/3	6	3/8 1/2	166 64
10	10-3/4	11-5/8	10	3/8	38				9	1/2	94
10	10-3/4	11-5/8	6	1/2	31				12	1/2	123
10	10-3/4	11-5/8	10	1/2	50				22	1/2	230
12	12-3/4	14-1/4	6 9 12 6 9 12	3/8 3/8 3/8 1/2 1/2 1/2 1/2	27 40-1/2 456 36 55 74	24	24	25-1/2	6 9 12 16 24 6	3/8 3/8 3/8 3/8 3/8 3/8 1/2	51 76 100 133 198 69
14	14	15-1/2	6 9 14 6 9	3/8 3/8 3/8 1/2 1/2	30 45 70 40 60	26	26	27-1/2	9 12 16 24 6	1/2 1/2 1/2 1/2 3/8	101 133 177 265 56
16	16	17-1/2	14 6 19 12 16 6 9 12 16	1/2 3/8 3/8 3/8 3/8 1/2 1/2 1/2 1/2 1/2	94 35 52 68 90 46 70 90 120				9 12 16 26 6 9 12 16 26	3/8 3/8 3/8 1/2 1/2 1/2 1/2 1/2 1/2 1/2	82 109 143 232 75 110 144 190 310
18	18	19-1/2	6 9 12 18 6 9 12 18	3/8 3/8 3/8 1/2 1/2 1/2 1/2 1/2 1/2	39 58 77 114 51 78 101 152	30	30	31-1/2	6 9 12 16 30 6 9 12	3/8 3/8 3/8 3/8 1/2 1/2 1/2 1/2	64 95 125 164 310 85 127 166 230
20	20	21-1/2	6 9 12 20 6	3/8 3/8 3/8 3/8 1/2	43 64 84 139 58	All dimens ¹ NOTE: Lar furnished (ions are in in ger diameter upon request	ches unless c s, higher pre . Please cons	30 30 otherwise r ssure and sult factory	1/2 1/2 noted. metric sizes /.	410 may be

Style 220 Reinforcing Sleeve

For permanent reinforcement of coupled joints

Similar in design to the Style 110, Dresser Style 220 reinforcing sleeves encompass a "pumpkin" sleeve design and are commonly used to repair corrosion pits and stress cracks and offer a permanent repair over leaking couplings, flanges, valves or screw collars. The Style 220 sleeve also provides a means of being "double sure" of safety against pipe-end pullout when used to reinforce pipelines on high pressure piping systems.

The steel construction properties of the Style 220 sleeve lends itself to field welding without preheating, using ordinary field welding procedures. All sleeves are factory prepared with standard welding bevel, machine flame cut for uniformity and ease of welding, and come with a drilled vent hole to preclude pressure build up between sleeve and pipe.

Built to rigid GE specifications, Style 220 sleeves have a minimum yield strength of 50,000 psi and an ultimate strength of 70,000 psi. Style 120 sleeves are supplied in all sizes, lengths and thicknesses as shown in charts. Larger sizes and lengths available upon request.





Nominal Size	Inside Diameter "A" & Pipe (OD)	Inside Diameter "B"	Inside Length "L"	Outlet Dim "N"	Overall Length "M"	Thickness "T"	Approx. Ship Wt. (lbs)
2**	2-3/8	8-3/8	10-1/2	1-1/4	23-1/4	5/16	45
3**	3-1/2	9-1/2	10-1/2	1-1/4	23-1/4	5/16	49
4	4-1/2	10-1/2	10	2	20-1/4	5/16	54
6	6-5/8	12-5/8	13-1/2	1-3/8	21-3/4	3/8	96
8	8-5/8	14-5/8	13-1/3	1-3/8	21-3/4	3/8	112
10	10-3/4	16-3/4	13-1/2	1-3/8	21-3/4	3/8	128
10	10-3/4	16-3/4	13-1/2	1-3/8	21-3/4	1/2	175
12	12-3/4	18-3/4	13-1/2	1-3/8	21-3/4	3/8	150
12	12-3/4	18-3/4	13-1/2	1-3/8	21-3/4	1/2	198
14	14	20	13-1/2	1-3/8	21-3/4	3/8	160
14	14	20	13-1/2	1-3/8	21-3/4	1/2	215
16	16	22	13-1/2	1-3/8	21-3/4	3/8	176
16	16	22	13-1/2	1-3/8	21-3/4	1/2	240
18	18	24	13-1/2	1-3/8	21-3/4	3/8	195
18	18	24	13-1/2	1-3/8	21-3/4	1/2	260
20	20	26	13-1/2	1-3/8	21-3/4	3/8	216
20	20	26	13-1/2	1-3/8	21-3/4	1/2	288
22	22	28	13-1/2	1-3/8	21-3/4	3/8	230
22	22	28	13-1/2	1-3/8	21-3/4	1/2	307
24	24	30	13-1/2	1-3/8	21-3/4	3/8	248
24	24	30	13-1/2	1-3/8	21-3/4	1/2	330
26	26	32	13-1/2	1-3/8	21-3/4	3/8	315
26	26	32	13-1/2	1-3/8	21-3/4	1/2	350

Material of Construction						
Body	High strength, low carbon steel meeting ASTM A572 GR 50/ASTM A588					
Yield Strength	50,000 psi min.					
Temp Ratings	-20°F to +150°F					

Style 220 Sleeve - Specifications for Sizes 2"- 26" (With vent)

Dimensions are inches unless otherwise noted.

NOTE: Larger diameters available upon request. Please consult factory with your particular application requirements.

** 2" and 3" sizes have minimum yield strength of 35,000 psi.

Style 115 Reinforcing Sleeves

Dresser Style 115 full-encirclement weld-over sleeves are available in 3/8" and 1/2" thicknesses for larger diameters and lengths up to 10 feet. Consult factory for your special project requirements.



Style 220-S Reinforcing Sleeve

For smaller diameter repair from 3/4" to 2" I.D.

The Dresser Style 220-S sleeve is a weld-over sleeve for reinforcing threaded collars, welded joints or compression couplings on small diameter pipe from 3/4" I.D. through 2" I.D. sizes. The sleeves are made to rigid GE specifications meeting ASTM-A513, GR1015 specs, and have a yield strength of 35,000 psi, and an ultimate strength of 48,000 psi.

Style 220-S sleeves are furnished in matched halves and all longitudinal edges are factory bevelled for welding. A drilled vent hole precludes pressure buildup between sleeve and pipe during welding. Style 220-S sleeves are rated at 350 psi working pressure and meet the requirements applicable to DOT #192 codes.





Pipe Size (OD)	Nominal Size	Diameter (A)
1.050	3/4	1-1/8
1.315	1	1-3/8
1.660	1-1/4	1-3/4
1.990	1-1/2	2
2.375	2	2-7/16

All dimensions in inches unless otherwise noted.

Dresser Life-time Gaskets

Dresser compounded rubber gaskets

Pipe joints must be able to absorb pipe stress caused by natural forces and natural expansion, contraction, vibration and deflection while the line is in service. The sealing capabilities and the extreme flexibility of a Dresser coupled joint is made possible by the resilience of the rubber-compounded gaskets. Resiliency is the property that enables the gaskets to maintain pressure against the followers that confine it and, at the same time, allow for flexibility not found in rigid piping connections. Without it, a flexible joint is not possible!

Simply put, the absorption of pipeline stress permits each section of the pipeline to "float" in the joint ensuring a flexible piping system while reducing the chances of leakage, line breaks, costly repairs and service interruptions.

Buna S (Grade 27) Max. Temp. 212°F¹

The compound most generally used for plain gaskets is Buna S (Grade 27). This gasket has wide applications and is accepted as standard for most pipeline use. It is recommended for use on lines transporting both fresh water and salt water, natural and other gases, air, most acids, alkaline and sugar solutions and some refrigerants.

Buna N (Grade 42 - Nitrile) Max. Temp. 212°F¹

Buna N (Grade 42) gaskets are resistant to oil, most aromatic and aliphatic hydrocarbons, natural gas fogging oil, condensates and gasolines.

Armored[®] Gaskets

Armored gaskets can be used to great advantage where low electrical-resistant joints are desired. The armor "bites" into the pipe providing metal to metal contact allowing easy passage of current where cathodic protection is a necessity.

The armor–an elastic, practically indestructible brass coil or helix–is molded into the gasket tip becoming an integral part of the gasket. When used with the proper grade/compound rubber, the armor shields the gasket material from the line content without interfering with the sealing efficiency of the gasket.

Fluorocarbon - Max. Temp. 350°F

Fluorocarbon gaskets are resistant to hydrocarbons, aromatic hydrocarbons, alcohols, organic acids, nitrogen-containing compounds, vegetable oils and greases.

Butyl -Max. Temp. 250°F

Butyl gaskets are resistant to hot air service, steam, hot water and miscellaneous aqueous solutions. They are also suitable for vegetable oils, organic chemicals, oxidizing acids and alkalies.

EPDM - Max. Temp. 300°F

EPDM gaskets provide excellent resistant to aging factors such as ozone, oxygen and elevated temperatures. This includes service in hot water, steam and dry heat. They are also suitable for handling popular chemicals such as ketones, alcohols, phosphate ester hydraulic fluids, glycols, dilute acids and alkalies.

High Temperature - Max. Temp. 1200°F

These braided flexible gaskets are designed specifically for the high temperature and abrasive atmospheres associated with services such as fly ash handling systems. As a replacement for asbestos, these gaskets are manufactured of a pure homogenous graphite bonded to a fiberglass carrier for strength and thermal durability. The braid over braid construction is die-formed and cut to length to fit proper coupling configurations resulting in a uniform tolerance which has proven itself as a reliable asbestos replacement.

NOTE: The non-resilient characteristic of this particular gasket material may result in a non leak-proof seal. This should be taken into consideration for this application.

WARNING NOTE: Temperature recommendations are for reference purposes only. Please consult GE Engineering for specific recommendations, product style, line content, working pressure and temperature ranges.

NOTE: For Severe Service conditions, see GE Gasket brochure for complete listing of corrosive content and gasket recommendations.

Applicable Warnings





Failure to anchor pipe joint could result in escaping line content that could ignite and cause property damage, serious injury or death.





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