



Galvanizing Compound

- 93% Zinc Coating bonds to iron and steel.
- Stops rust and corrosion on any iron or steel surface.
- Zinc fuses to metal substances for protection equal to or better than hot-dipped galvanizing.



#064-7007

Part No.	Description	Std. Pkg.
064-7007	Crown Cold Galvanizing Compound, #7007, 16 Oz.	12

Brite Galvanize Coating 65% Zinc Rich

A restorative coating fortified with zinc for preventing rust and corrosion on ferrous metal surfaces with one coat application.

- A glistening coating with 65% pure zinc in dry film.
- Stops rust and corrosion on any iron or steel surface for protection equal to or better than hot-dipped galvanizing.
- Restores galvanized surfaces to the bright look of hot-dipped galvanizing.
- Meets performance requirements of ASTM A-780-93A.
- Good film integrity after 336 hours salt spray (ASTM B-117).
- **Applications:** repair of welds, handrails, rims, guardrails, metal chain fences, pipes, corrugated metal building, or anywhere the bright look of hot-dipped surfaces is desired.



#064-7008

Part No.	Description	Std. Pkg.
064-7008	Brite Galvanize Coating 65% Zinc Rich, #7008, 16 Oz.	12

Toolmakers Ink Blue

- Toolmaker's Ink enables accurate scribing without glare.
- It provides a quick-drying film that won't peel, flake, or rub off.
- Excellent adhesion to all metals, glass, or plastics.



#064-6001

Part No.	Description
064-6001	Toolmaker's Ink Blue

HD Gear & Wire Rope Lube

- A high-grade moly grease that won't become brittle, is not affected by weather, and has outstanding adhesion properties.



#064-7045

Part No.	Description	Std. Pkg.
064-7045	HD Gear & Wire Rope Lube, 16 Oz.	12/Cs.

Spray Paint

Supreme Color Shield

- Designed to provide superior appearance and color retention under the harshest conditions, including UV and extreme temperatures.
- Dries to the touch in just 10 minutes!
- Provides excellent interior and exterior durability.
- Ideal for metal, steel, aluminum, and wood.



Part No.	Description	Std. Pkg.
064-5004	Safety Blue, 15 Oz. Can	6/Cs.
064-5006	Safety Green, 15 Oz. Can	6/Cs.
064-5008	Safety Yellow, 15 Oz. Can	6/Cs.
064-5009	Equipment Yellow, 15 Oz. Can	6/Cs.
064-5010	Safety Orange, 15 Oz. Can	6/Cs.
064-5012	Safety Red, 15 Oz. Can	6/Cs.
064-5014	Sand Color, 15 Oz. Can	6/Cs.
064-5016	Flat Black, 15 Oz. Can	6/Cs.
064-5017	Black, 15 Oz. Can	6/Cs.
064-5018	Flat White, 15 Oz. Can	6/Cs.
064-5019	White, 15 Oz. Can	6/Cs.

Multi-Purpose Primer

- Fast-dry, sandable formula for porous surfaces.
- Prevents rust, and provides a smooth, tough surface ready for topcoating.
- For wood, aluminum, wrought iron, hard plastic, drywall, and dozens of other surfaces.
- Ideal under and over lacquers, acrylics, and enamels.
- Lead-free and 100% nontoxic when dry.



Part No.	Description	Std. Pkg.
064-Z8072	Multi-Purpose Primer, Gray, 16 Oz. Can	6/Cs.
064-Z8074	Multi-Purpose Primer, Red Oxide, 16 Oz. Can	6/Cs.

Oilfield Supplies



Speed E-Name!™

Fast-dry paint products for today's fast-paced customers. Dries to the touch in 15 minutes! Great for anything wood, metal, railings, fences, plastic, cabinets, doors, patio items, wicker, tools, masonry, bulkheads, and thousands of other items. Prevents rust. A smooth, professional finish every time!



Part No.	Description	Std. Pkg.
064-Z307	Acrylic Clear, 12 Oz. Can	6/Cs.
064-Z308	Silver, 12 Oz. Can	6/Cs.
064-Z317	Aluminum, 12 Oz. Can	6/Cs.
064-Z357	Choc. Brown, 12 Oz. Can	6/Cs.
064-Z377	Flat White, 12 Oz. Can	6/Cs.
064-Z387	Gloss Black, 12 Oz. Can	6/Cs.
064-Z397	Gloss White, 12 Oz. Can	6/Cs.
064-Z467	Lemon Yellow, 12 Oz. Can	6/Cs.
064-Z468	Medium Gray, 12 Oz. Can	6/Cs.
064-Z469	Hunter Green, 12 Oz. Can	6/Cs.
064-Z471	Royal Blue, 12 Oz. Can	6/Cs.
064-Z480	Beige, 12 Oz. Can	6/Cs.
064-Z482	Almond, 12 Oz. Can	6/Cs.
064-Z487	Flat Black, 12 Oz. Can	6/Cs.
064-Z517	Rich Red, 12 Oz. Can	6/Cs.
064-Z528	Pink, 12 Oz. Can	6/Cs.

Hi-Temp Enamel

Stovepipes, woodstoves, boilers, ovens, engines, and grills require a speciality heat-proof coating to retain a clean, uniform appearance. Hi-Temp Extreme Heat Enamel performs beautifully in temperatures up to 1200°F. The heavy-duty coating also protects against rust and corrosion.



Part No.	Description	Std. Pkg.
064-Z630	Aluminum Enamel, Hi-Temp, 16 Oz.	6/Cs.
064-Z635	Black Enamel, Hi-Temp, 16 Oz.	6/Cs.

Inverted Marking Paints

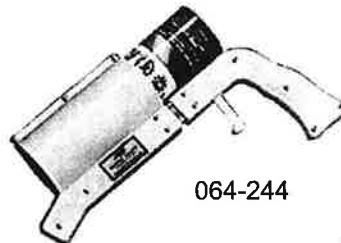
Aervoe Construction marking Paint is the flagship of the line, offering a high quality paint that is priced competitively to meet a variety of marking applications while providing good visibility and durability. Great durability up to 3 months.



Part No.	Description	Std. Pkg.
064-246	Fluorescent Red, 20 Oz. Can	12/Cs.
064-247	Fluorescent Orange, 20 Oz. Can	12/Cs.
064-248	Fluorescent Green, 20 Oz. Can	12/Cs.
064-249	Fluorescent Pink, 20 Oz. Can	12/Cs.
064-250	Fluorescent Blue, 20 Oz. Can	12/Cs.
064-253	Fluorescent Yellow, 20 Oz. Can	12/Cs.
064-283	Fluorescent Red/Orange, 20 Oz. Can	12/Cs.
064-252	Yellow, 20 Oz. Can	12/Cs.
064-255	White, 20 Oz. Can	12/Cs.
064-254	Blue, 20 Oz. Can	12/Cs.
064-256	Red, 20 Oz. Can	12/Cs.
064-257	Orange, 20 Oz. Can	12/Cs.
064-258	Hi Viz Yellow, 20 Oz. Can	12/Cs.
064-259	Green, 20 Oz. Can	12/Cs.
064-260	Purple, 20 Oz. Can	12/Cs.

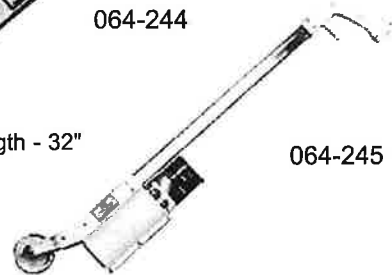
Inverted Paint Applicators

Overall length - 10"



064-244

Overall length - 32"



064-245

Part No.	Description	Std. Pkg.
064-244	Spot Marker	1 Ea.
064-245	Marking Stick	1 Ea.



Fault Finder - Group IA

Non-destructive test quickly locates cracks and defects in metals, glass, and plastic. Certified low in chlorine and sulfur-bearing solvents.

- Conforms to MIL-I-25135.
- Active ingredients meet chlorine and sulfur requirements of NAVSHIPS 250-1500, and MIL STD 271.
- Apply Cleaner, apply Penetrant, wipe, apply Developer, inspect.
- Applications: metal, plastic, and glass. Ideal for welding, automotive manufacturing and repair, oil drilling, foundries, etc.

Fault Finder Cleaner - Group IA

- Use in Step #1 of the Fault-Finder non-destructive test system to pre-clean the part to be tested.
- Certified low in chlorine and sulfur-bearing solvents.



#064-1011

Part No.	Description	Std. Pkg.
064-1011	Fault Finder Cleaner, 12 Oz. Can	12/Cs.

Fault Finder Penetrant - Group IA

- Use in Step #2 of the Fault-Finder non-destructive test system to apply the penetrating fluid to the part to be treated.
- Certified low in chlorine and sulfur-bearing solvents.



#064-1012

Part No.	Description	Std. Pkg.
064-1012	Fault Finder Penetrant, 12 Oz. Can	12/Cs.

Fault Finder Developer - Group IA

- Use in Step #3 of the Fault-Finder non-destructive test system to reveal any defects on the part being treated.
- Certified low in chlorine and sulfur-bearing solvents.



#064-1013

Part No.	Description	Std. Pkg.
064-1013	Fault Finder Developer, 12 Oz. Can	12/Cs.

Dry Moly Lubricant

This quick drying lubricant leaves a thin film that provides extreme pressure lubrication.

- Performs at temperatures between -100°F and 700°F (-73°C and 371°C).
- Withstands pressures up to 100,000 psi.
- Quick drying.
- Ideal for assembly and break-in lubrication.
- Resists corrosion.
- Bonds to metal surfaces without attracting dirt or dust.
- Prevents sliding or threaded parts from seizing.
- Does not contain oil or dilutants.
- Applications: Automotive and industrial gaskets, grinding belts, threaded connections, metal belts, rubber components, sliding surfaces and gears, cams, bearings, chain drives and pulleys, and conveyor belts where heat is present.



#064-6080

Part No.	Description	Std. Pkg.
064-6080	Dry Moly Lubricant, 16 Oz.	12/Cs.



ALEMITE

Grease Guns

Alemite Professional Series Grease Guns are constructed to withstand even the most demanding environments. They generate pressures up to 10,000 psi.

500 Professional Lever Grease Gun

Alemite's top-selling grease gun and #1 choice of professional grade users worldwide.

- 10,000 psi.
- Delivery: 1 oz. of grease per 21 strokes.
- Uses 14 oz. cartridges.
- Lightweight die-cast aluminum.



#033-500

Part No.	Description	Std. Pkg.
033-500	500 Professional Lever Grease Gun	10

500-E Lever Type Grease Gun With 18" Hose

- Includes 18" whip hose and coupler.



#033-500-E

Part No.	Description	Std. Pkg.
033-500-E	500-E Lever Type Grease Gun With 18" Hose	10



Grease Guns (Cont.)

555 Professional Series Pistol Grip Grease Gun

- 7,500 psi.
- Delivery: 1 oz./30 strokes (high volume mode).
- 16 oz. cylinder capacity.
- Quick priming - heavy-duty follower spring to maintain prime.
- Dual leverage feature.
- Bleeder valve.



#033-555

Part No.	Description	Std. Pkg.
033-555	555 Professional Pistol Grip Grease Gun With Rigid Extension And Coupler	10

555-E Professional Series

Pistol Grip Grease Gun With 18" Hose

- 7,500 psi.
- Delivery: 1 oz./30 strokes (high volume mode).
- 16 oz. cylinder capacity.
- Quick priming - heavy-duty follower spring to maintain prime.
- Dual leverage feature.
- Bleeder valve.



#033-555-E

Part No.	Description	Std. Pkg.
033-555-E	555-E Professional Pistol Grip Grease Gun With 18" Flex Hose/Coupler	10

Grease Fittings

Hydraulic Couplers

1/8" NPTF(f) — 10,000 psi



Narrow Type
Standard Type

#33-308730-A



#033-6304-B

Standard And Giant Button Head Couplers

1/8" NPTF(f)

Giant Pull-On
10,000 psi

Standard Pull-On
15,000 psi



#33-304300-A



#033-42030-A

Part No.	Description	psi
033-308730-A	Narrow Type, 1/8" NPTF(f)	10,000
033-6304-B	Standard Type, 1/8" NPTF(f)	10,000
033-304300-A	Giant Pull-On, 1/8" NPTF(f)	10,000
033-42030-A	Standard Pull-On, 1/8" NPTF(f)	15,000

Extension Hoses

1/8" NPTF(f) — 4,800 psi, Elastomeric

- 12" Whip Hose - #033-317850-1
- 18" Whip Hose - #033-317850-1F



Hose Assemblies With Couplers,

1/8" NPTF(f), 4,800 psi

- 12" w/ 308730 - #033-B6703-A
- 18" w/ 308730 - #033-6703-B
- 18" w/ 6304-B - #033-6654-A



Thermoplastic Lever Gun Hose Assemblies With Couplers, 1/8" NPTF(f), 6,000 psi

- 12" #033-B337595-A1
- 18" #033-B337595-B1

Part No.	Description	psi
033-317850-1	12" Whip Hose, 1/8" NPTF(f)	4,800
033-317850-1F	18" Whip Hose, 1/8" NPTF(f)	4,800
033-6654-A	18" Hose With Coupler 6304-B	—
033-6703-B	18" Hose With Coupler 308730	—
033-B6703-A	12" Hose With Coupler 308730	—
033-B337595-A1	12" Lever Gun Hose, 1/8" NPTF(f)	6,000
033-B337595-B1	18" Lever Gun Hose, 1/8" NPTF(f)	6,000

Fitting Assortments

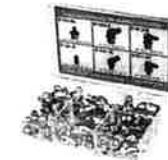
2398-1 Vehicle Fitting Assortment



#033-2398-1

Part No.	Type	Thread	Qty.
033-2398-1	Fitting Assortment (6 sizes) - 48 Piece		
033-1610-BL	Str.	1/8" PTF	24
033-1688-B	45°	1/8" PTF	12
033-1613-B	90°	1/8" PTF	12
033-1641-B	Str.	1/4" - 28 Taper	24
033-1637-B1	45°	1/4" - 28 Taper	12
033-1911-B1	90°	1/4" - 28 Taper	12

2365-1 Pocket Pack Fitting Assortment



#033-2365-1

Part No.	Type	Thread	Qty.
033-2365-1	Fitting Assortment (6 sizes) - 96 Piece		
033-1610-BL	Str.	1/8" PTF	12
033-1688-B	45°	1/8" PTF	6
033-1613-B	90°	1/8" PTF	6
033-1641-B	Str.	1/4" - 28 Taper	12
033-1637-B1	45°	1/4" - 28 Taper	6
033-1911-B1	90°	1/4" - 28 Taper	6



Grease Fittings (Cont.)

Fitting Assortments (Cont.) 2371 Metric Fitting Assortment



#033-2371

Part No.	Type	Thread	Qty.
033-2371	Metric Fitting Assortment (6 sizes) - 44 Piece		
033-2106	Str.	6 mm	10
033-2107	45°	6 mm	6
033-2108	90°	6 mm	6
033-2103	Str.	8 mm	6
033-2105	90°	8 mm	6
033-2109	Str.	10 mm	10



Individual Hex-L Keys

Short Arm Hex Keys



Part No.	Key Size	Part No.	Key Size
057-57002	0.028"	057-57026	1/4"
057-57004	0.035"	057-57028	5/16"
057-57006	0.050"	057-57030	3/8"
057-57008	1/16"	057-57031	7/16"
057-57010	5/64"	057-57032	1/2"
057-57012	3/32"	057-57034	9/16"
057-57013	7/64"	057-57036	5/8"
057-57014	1/8"	057-57038	3/4"
057-57018	9/64"	057-57040	7/8"
057-57020	5/32"	057-57042	1"
057-57022	3/16"	057-57044	1-1/4"
057-57024	7/32"	057-57046	1-1/2"

Metric Short Arm Hex Keys

Part No.	Key Size	Part No.	Key Size
057-57116	1.5 mm	057-57131	0.9 mm
057-57118	2 mm	057-57132	10 mm
057-57120	2.5 mm	057-57133	12 mm
057-57122	3 mm	057-57134	14 mm
057-57124	4 mm	057-57135	1.3 mm
057-57126	5 mm	057-57138	17 mm
057-57128	6 mm	057-57142	19 mm
057-57130	8 mm	057-57143	22 mm

Long Arm Hex Keys



Part No.	Key Size	Part No.	Key Size
057-58004	3/32"	057-58023	7/16"
057-58005	7/64"	057-58024	1/2"
057-58006	1/8"	057-58026	9/16"
057-58007	0.035"	057-58028	5/8"
057-58010	9/64"	057-58030	3/4"
057-58012	5/32"	057-58032	7/8"
057-58014	3/16"	057-58034	1"
057-58016	7/32"	057-58036	1-1/4"
057-58018	1/4"	057-58038	1-1/2"
057-58020	5/16"	057-58040	1-3/4"
057-58022	3/8"	057-58042	2"

Metric Long Arm Hex Keys

Part No.	Key Size	Part No.	Key Size
057-58048	0.9 mm	057-58062	6 mm
057-58049	1.3 mm	057-58064	8 mm
057-58050	1.5 mm	057-58066	10 mm
057-58052	2 mm	057-58068	12 mm
057-58054	2.5 mm	057-58090	14 mm
057-58056	3 mm	057-58092	17 mm
057-58058	4 mm	057-58094	19 mm
057-58060	5 mm		

Ball Plus™ Hex Keys



Part No.	Key Size	Part No.	Key Size
057-59306	3/32"	057-59318	7/32"
057-59308	7/64"	057-59320	1/4"
057-59310	1/8"	057-59322	5/16"
057-59312	9/64"	057-59324	3/8"
057-59314	5/32"	057-59328	1/2"
057-59316	3/16"	057-59332	9/16"
		057-59992	5/8"

Oilfield Supplies



Cushion-Grip T-Handles & Sets

Cushion-Grip Set — Metal Stand



10 Keys
Key Length: 9"
Sizes: 3/32" - 3/8"
#057-56163

Part No.	Description	Std. Pkg.
057-56163	10 Pc. (3/32" - 3/8") Cushion-Grip Set	1

Cushion-Grip T-Handles



Length: 6" or 9"

Part No.	Key Length	Key Size
STANDARD		
057-57304	6"	1/8"
057-57310	6"	3/16"
057-57316	6"	5/16"
057-58250	9"	3/32"
057-58264	9"	1/4"
057-58266	9"	5/16"
057-58254	9"	1/8"
057-58258	9"	5/32"
057-58260	9"	3/16"
METRIC		
057-57632*	6"	2.5 mm
057-57842	6"	2.5 mm
057-57844	9"	3 mm
057-57846	9"	4 mm

* Ball-Plus™

Hex Key Sets

Long Arm Hex Key Sets

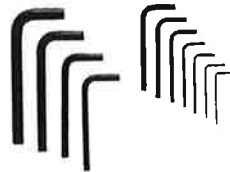


15 Pc. Set With Pouch
Key Sizes: 5/64" - 3/4"
#057-56014

11 Pc. Set With Pouch
Key Sizes: 0.050" - 3/8"
#057-56150

Part No.	Description	Std. Pkg.
STANDARD		
057-56014	15 Pc. (5/64" - 3/4") Long Arm Set	1
057-56150	11 Pc. (0.050" - 3/8") Long Arm Set	1
METRIC		
057-56083	15 Pc. (0.9" - 19 mm) Long Arm Set	1

Short Arm Hex Key Sets



20 Pc. Set With Pouch
Key Sizes: 0.028" - 3/4"
#057-56011

18 Pc. Set With Metal Box

Key Sizes: 0.028" - 5/8"
#057-56026



15 Pc. Set With Metal Box

Key Sizes: 0.028" - 5/8"
#057-56028

Part No.	Description	Std. Pkg.
STANDARD		
057-56011	20 Pc. (0.028" - 3/4") Short Arm Set	1
057-56026	18 Pc. (0.028" - 5/8") Short Arm Set	1
057-56028	15 Pc. (0.028" - 3/8") Short Arm Set	1
METRIC		
057-56036	15 Pc. (0.7" - 17 mm) Short Arm Set	1
057-56038	12 Pc. (0.7" - 10 mm) Short Arm Set	1

Fractional/Metric Long Arm Combo Sets



22 Pc. Set
Key Sizes: 0.050" - 3/8"
& (1.5" - 10")
#057-56009

13 Pc. Set With Metal Box

Key Sizes: 1/16" - 1/2"
#057-56128



10 Pc. Set With Metal Box

Key Sizes: 1.5" - 12 mm
#057-56085

Part No.	Description	Std. Pkg.
STANDARD		
057-56009	22 Pc. (0.050" - 3/8") & (1.5" - 10 mm) Set	1
057-56128	13 Pc. (1/16" - 1/2") Long Arm Set	1
METRIC		
057-56085	10 Pc. (1.5" - 12 mm) Long Arm Set	1



Hex Key Fold-Ups Duracast® Fold-Ups



9 Keys
Sizes: 5/64" - 1/4"
Handle Length: 4-1/4"
#057-56347

Standard Fold-Ups

9 Keys
Sizes: 0.050" - 3/16"
Handle Length: 3-3/8"
#057-56066

8 Keys
Sizes: 0.050" - 5/32"
Handle Length: 3"
#057-56114

9 Keys: Sizes: 5/64" - 1/4"; Handle Length: 3-3/4"; #057-56067

9 Keys: Sizes: 5/64" - 1/4"; Handle Length: 3-3/4"; #057-56316

METRIC: 7 Keys, Sizes: 1.5 - 6mm; Handle Length: 3-3/4";
#057-56070



Long Fold-Ups
5 Keys
Sizes: 3/16" - 3/8"
Handle Length: 6-3/8"
#057-56320

Part No.	Description	Std. Pkg.
057-56066	9 Pc. (0.050 - 3/16") Standard Fold-Up	10
057-56067	9 Pc. (5/64" - 1/4") Std. Fold-Up	10
057-56070	METRIC - 7 Pc. (1.5 - 6mm) Std. Fold-Up	3
057-56114	8 Pc. (0.050 - 5/32") Std. Fold-Up	10
057-56316	9 Pc. (5/64" - 1/4") Std. Fold-Up	10
057-56320	5 Pc. (3/16" - 3/8") Long Fold-Up	3
057-56347	9 Pc. (5/65" - 1/4") Duracast® Fold-Up	10

Duracast® Ball End Fold-Ups



9 Keys
Sizes: 5/64" - 1/4"
Handle Length: 4-1/4"

Part No.	Description	Std. Pkg.
057-56382	9 Pc. (5/64" - 1/4") Duracast® Ball End Fold-Up	10

Standard HI-VIS™ Fold-Ups



9 Keys
Sizes: 0.050" - 3/16"
Handle Length: 3-3/8"

Part No.	Description	Std. Pkg.
057-56073	9 Pc. (0.050" - 3/16") Std. Hi-Vis™ Fold-Up	10

Long HI-VIS™ Fold-Ups



9 Keys
Sizes: 5/64" - 1/4"
Handle Length: 3-3/4"

Part No.	Description	Std. Pkg.
057-56074	9 Pc. (5/64" - 1/4") Long Hi-Vis™ Fold-Up	10

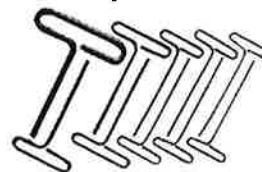
Ball Plus™ Sets



Part No.	Description	Std. Pkg.
057-56196	12 Pc. (0.05" - 5/16") Ball Set	1
057-56190	13 Pc. (0.05" - 3/8") Ball Set	1
057-56191	9 Pc. (1.5mm - 10mm) Metric	1

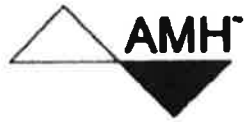
Loop Handle Sets

6" Loop Handle Sets - In Vinyl Pouch



10 Keys
Key Length: 6"
Sizes: 3/32" - 3/8"
#057-56255

Part No.	Description	Std. Pkg.
057-56255	10 Pc. (3/32" - 3/8") Loop Handle Set	10



Chain Hoists

LA Series Lever Chain Hoists

- Dual rated with more choices of capacity.
- Hook blocks are bolted allowing easy disassembly for complete hook inspection.
- Steel construction with powder coated finish and plated external components.
- Premium Grade 80 Zinc plated alloy load chain manufactured in Germany, Austria or Japan.
- Self adjusting double pawl disk type mechanical load brake insures control.
- Horseshoe chain guard allows operation in any orientation.
- Meets: ASME/ANSI B30.16, OSHA, NASA-STD-8719.9 and EU Directives: 98/37/EC.
- ATEX rated II 3 GD c IIB 50° C X for limited use in Hazardous Environments.



Part No.	Working Load		Lever Length	Lift (Ft.)
	Max.	Min.		
144-LA008-5	3/4 Ton	44 Lbs.	10.5"	5'
144-LA008-10	3/4 Ton	44 Lbs.	10.5"	10'
144-LA016-010	1-3/4 Ton	70 Lbs.	14.0"	10'
144-LA016-20	1-3/4 Ton	70 Lbs.	14.0"	20'
144-LA020-10	2-1/4 Ton	88 Lbs.	14.0"	10'
144-LA020-15	2-1/4 Ton	88 Lbs.	14.0"	15'
144-LA032-05	3-1/2 Ton	141 Lbs.	16.5"	5'
144-LA032-20	3-1/2 Ton	141 Lbs.	16.5"	20'
144-LA063-10	7 Ton	278 Lbs.	16.5"	10'

MA Series Hand Chain Hoists

- Increased efficiency by additional pinion shaft bearing and close tolerances.
- Hook blocks are bolted allowing complete hook inspection.
- Lightweight and durable all steel construction with powder coated finish and plated frame components to resist corrosion.
- Premium Grade 80 Zinc plated alloy load chain manufactured in Germany, Austria or Japan.
- Hand chain opening is formed with a radius for smooth operation.
- Sealed ball bearings on the chain wheel maximize efficiency and serviceability.
- Self adjusting double pawl disc type mechanical load brake insures positive load control.
- Double roller guide insures load chain tracking.
- Optional Overload Protection is new design one directional clutch that will only slip in the lift direction.
- Meets: ASME/ANSI B30.16, OSHA, NASA-STD-8719.9 and EU Directives: 98/37/EC.
- ATEX rated II 3 GD c IIB 50° C X for limited use in Hazardous Environments.



Part No.	Working Load Limit		Lift (Ft.)
	Max.	Min.	
144-MA010-10	1 Ton	33 Lbs.	10'
144-MA015-10	1-1/2 Ton	40 Lbs.	10'
144-MA020-10	2 Ton	40 Lbs.	10'
144-MA030-10	3 Ton	40 Lbs.	10'

Mini Chain Hoists

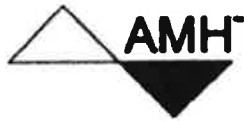
ML Series Hand Chain Hoists

- Planetary gearing is used to minimize operator effort and to reduce stress on the brake components.
- Small size allows operation and storage in tight places.
- Lightweight and durable all steel construction with plated frame components and durable chrome exterior finish to resist corrosion.
- Grade 80 Zinc plated alloy load chain is manufactured in Germany, Austria or Japan.



- Sleeve bearings used to maximize serviceability and provide good efficiency.
- Self adjusting pawl and disc type mechanical load brake insures positive load control.
- Meets: ASME/ANSI B30, OSHA, NASA-STD-8719.9 and EU Directives: 98/37/EC.
- ATEX rated II 3 GD c IIB 50° C X for limited use in Hazardous Environments.

Part No.	Working Load		Lever Length
	Max.	Min.	
144-ML003-05	550 Lbs.	33 Lbs.	6.2"
144-ML005-05	1100 Lbs.	40 Lbs.	7.1"



Grade 100 Italian Cartec Fittings

Part No.		Description	Size	Box Qty.
144-CLX07		Connecting Link	9/32"	30
144-CLX08		Connecting Link	5/16"	20
144-CLX10		Connecting Link	3/8"	40
144-CLX13		Connecting Link	1/2"	20
144-CLX16		Connecting Link	5/8"	12
144-CLX20		Connecting Link	3/4"	8
144-CLX22		Connecting Link	7/8"	5
144-CFX07		Clevis Grab Hook	9/32"	40
144-CFX08		Clevis Grab Hook	5/16"	40
144-CFX10		Clevis Grab Hook	3/8"	16
144-CFX13		Clevis Grab Hook	1/2"	10
144-CFX16		Clevis Grab Hook	5/8"	6
144-CFX20		Clevis Grab Hook	3/4"	2
144-CFX22		Clevis Grab Hook	7/8"	2
144-CBX07SF		Clevis Sling H. w/Latch	9/32"	20
144-CBX08SF		Clevis Sling H. w/Latch	5/16"	20
144-CBX10SF		Clevis Sling H. w/Latch	3/8"	24
144-CBX13SF		Clevis Sling H. w/Latch	1/2"	6
144-CBX16SF		Clevis Sling H. w/Latch	5/8"	4
144-CBX20SF		Clevis Sling H. w/Latch	3/4"	2
144-CBX22SF		Clevis Sling H. w/Latch	7/8"	2
144-CROX08		Self Locking Eye Hook	9/32" thru 5/16"	18
144-CROX10		Self Locking Eye Hook	3/8"	8
144-CROX13		Self Locking Eye Hook	1/2"	6
144-CROX16		Self Locking Eye Hook	5/8"	2
144-CRFX07		Self Locking Clevis H.	9/32"	18
144-CRFX08		Self Locking Clevis H.	5/16"	18
144-CRFX10		Self Locking Clevis H.	3/8"	8
144-CRFX13		Self Locking Clevis H.	1/2"	6
144-CRFX16		Self Locking Clevis H.	5/8"	2

Endless Slings/Double Jacket Round Slings



Part No.	Color	Working Load Limit (in.-lbs.)			Width At Load
		Vertical	Choker	Basket	
ER1	Purple	2,600	2,100	5,200	1-1/8"
ER2	Green	5,300	4,200	10,600	1-1/2"
ER3	Yellow	8,400	6,700	16,800	1-7/8"
ER5	Red	13,200	10,600	26,400	2-1/4"
ER7	Blue	21,200	17,000	42,400	3"

Yellow Classic G80 Chain Fittings

Connecting Link



Part No.	Trade Size	WLL Lbs.	Weight Lbs.	Box Qty.
144-CLM08	9/32" - 5/16"	4,500	0.40	50
144-CLM10	3/8"	7,100	0.73	50
144-CLM13	1/2"	12,000	1.43	25
144-CLM16	5/8"	18,100	2.71	15
144-CLM20	3/4"	28,300	4.85	10

Clevis Self-Locking Hook



Part No.	Trade Size	WLL Lbs.	Weight Lbs.	Box Qty.
144-CLSH08	9/32" - 5/16"	4,500	2.01	25
144-CLSH10	3/8"	7,100	3.70	12
144-CLSH13	1/2"	12,000	7.34	6
144-CLSH16	5/8"	18,100	13.23	4
144-CLSH20	3/4"	28,300	18.96	3

Clevis Grab Hook



Part No.	Trade Size	WLL Lbs.	Weight Lbs.	Box Qty.
144-CGH08	9/32" - 5/16"	4,500	0.56	50
144-CGH10	3/8"	7,100	1.98	25
144-CGH13	1/2"	12,000	3.75	12
144-CGH16	5/8"	18,100	5.64	9
144-CGH20	3/4"	28,300	9.26	4

Trigger Kits



- For all Self-Locking Hooks.

Part No.	Trade Size	
	Inch	mm
144-STK7/8	9/32" - 5/16"	7 - 8
144-STK10	3/8"	10
144-STK13	1/2"	13
144-STK16	5/8"	16
144-STK20	3/4"	20

Latch Kits



- For all Sling Hooks.

Part No.	Trade Size	
	Inch	mm
144-SLK7/8	9/32" - 5/16"	7 - 8
144-SLK10	3/8"	10
144-SLK13	1/2"	13
144-SLK16	5/8"	16
144-SLK20	3/4"	20

Oilfield Supplies



Band & Buckle Systems

- High strength fastening and clamping.
- Wide variety of materials, widths & thickness.
- Can be formed to virtually any diameter & shape.

201 SS Stainless Steel Band-It® Bands

- Bright annealed finish sets the standard with a combination of high strength & quality appearance.
- Offers good resistance to oxidation and many moderate corrosive agents.
- **EASY SCALE** - Patented imprint on the band to quickly determine band length without waste.
- Use with **044-C00169 Band-It® Tool**.



Part No.	Width	Thickness	Average Breaking Strength	Band Length
044-C20299	1/4"	0.020"	500 Lbs.	100'/Roll
044-C20399	3/8"	0.025"	900 Lbs.	100'/Roll
044-C20499	1/2"	0.030"	1,500 Lbs.	100'/Roll
044-C20599	5/8"	0.030"	1,875 Lbs.	100'/Roll
044-C20699	3/4"	0.030"	2,250 Lbs.	100'/Roll

Ear-Lokt Buckle



Part No.	Material	Width	Std. Pkg.
044-C25299	Stainless Steel	1/4"	100/Box
044-C25399	Stainless Steel	3/8"	100/Box
044-C25499	Stainless Steel	1/2"	100/Box
044-C25599	Stainless Steel	5/8"	100/Box
044-C25699	Stainless Steel	3/4"	100/Box

Giant Ear-Lokt Buckle



Part No.	Material	Width	Std. Pkg.
044-G44099	Stainless Steel	3/4"	100/Box
044-G44199	Stainless Steel	1"	100/Box
044-G44299	Stainless Steel	1-1/4"	100/Box

Scru-Lokt Buckle



Part No.	Material	Width	Std. Pkg.
044-C72499	316 Stainless Steel	1/4" Hard	1/2" 25/Box

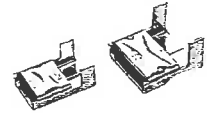
316 Stainless Steel Band

- Superior corrosion resistance.
- Available with halogen free coating (PPA 571) for additional corrosion resistance and smoother edges.
- Application Tool for Uncoated Band: C00169 or C07569.
- Application Tool for Coated Band: C07569



Part No.	Width	Thickness	Average Breaking Strength	Std. Pkg.
316 Stainless Steel Coated Band				
044-AE4349	1/2"	0.048"	670 Lbs.	82.5'/Roll
044-AE4359	5/8"	0.048"	840 Lbs.	82.5'/Roll
316 Stainless Steel Uncoated Band				
044-C40499	1/2"	0.030"	1,200 Lbs.	100'/Roll

316 Stainless Steel Clips



Part No.	Material	Width	Std. Pkg.
044-AE4529	316 Stainless Steel	1/4"	100/Box
044-AE4549	316 Stainless Steel	1/2"	100/Box
044-AE4559	316 Stainless Steel	5/8"	100/Box

Tools For Band

Band-It® Tool

For band widths from 3/16" to 3/4"
#044-C00169



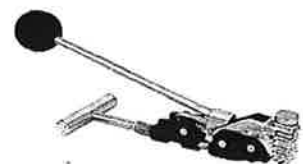
Bantam Tool Low Torque

For band widths from 3/16" to 3/4"
#044-C07569



Part No.	Description	Std. Pkg.
044-C00169	Band-It® Tool	1
044-C07569	Bantam Tool Low Torque	1

Center Punch Tools



Part No.	Description	Std. Pkg.
044-T30069	Center Punch Tool	1



201 SS Center Punch Clamps

- Lock with impact from a hammer using a conical punch.
- Double wrapped using 201 stainless steel or galvanized carbon steel.
- Manufactured with thicker 201 SS buckles to provide added locking strength.
- Install center punch using the S03869 or T30069.



201SS Part No.	*GCS Part No.	Width	Inside Diameter	Std. Pkg.
044-CP4S99	044-CP4099	5/8"	1"	100/Box
044-CP6S99	044-CP6099	5/8"	1-1/2"	100/Box
044-CP8S99	044-CP8099	5/8"	2"	100/Box
044-CP10S9	044-CP1099	5/8"	2-1/2"	50/Box
044-CP11S9	044-CP1199	5/8"	2-3/4"	50/Box
044-CP12S9	044-CP1299	5/8"	3"	50/Box
044-CP14S9	044-CP1499	5/8"	3-1/2"	50/Box
044-CP16S9	044-CP1699	5/8"	4"	25/Box
044-CP20S9	044-CP2099	5/8"	5"	25/Box
044-CP24S9	044-CP2499	5/8"	6"	25/Box
044-CP28S9	044-CP2899	5/8"	7"	25/Box

*GCS - Galvanized Carbon Steel

Band-It Jr. Smooth ID

Our Most Popular Clamp!

- Vibration resistant lip wrap lock design. Lock is formed by a simple lever movement. No hammering or crimping.
- Unique buckle nest and smooth ID design reduces leak paths compared to center punch clamps.
- Double wrapped for additional strength.
- Install Junior SID using the C00169 with J00169 Adapter, C00169 with J05069 Heavy Duty Adapter, C00269.



Part No.	Material	Width	Inside Diameter	Std. Pkg.
044-JS2149	201 SS	3/4"	4-1/2"	100/Box
044-JS2179	201 SS	3/4"	5-1/4"	100/Box
044-JS2319	201 SS	1/2"	1-1/2"	100/Box
044-JS2339	201 SS	1/2"	2-1/2"	25/Box
044-JS2479	201 SS	1/2"	3-1/2"	25/Box
044-JS2709	201 SS	3/4"	6-1/4"	25/Box

Swaged Male Hose Nipple - NPT



Part No.	Material	NPT Inches	Shank Length Inches	Hose Inside Dia.	No. Of Clamps Per Nipple	Std. Pkg.
044-E79899	Plated Steel	1/2"	1.56"	1/2"	1	Each
044-E80099	Plated Steel	3/4"	1.56"	3/4"	1	Each
044-E80299	Plated Steel	1"	1.63"	1"	1	Each
044-E80499	Plated Steel	1-1/4"	1.63"	1-1/4"	1	Each
044-E80699	Plated Steel	1-1/2"	1.63"	1-1/2"	1	Each
044-E80899	Plated Steel	2"	2.75"	2"	2	Each
044-E81299	Plated Steel	2-1/2"	3.00"	2-1/2"	2	Each
044-E81499	Plated Steel	3"	3.00"	3"	2	Each
044-E81699	Plated Steel	4"	4.63"	4"	3	Each

Band-It® Jr. Application Tools



Jr. Adapter

Must be used with C00169 or C00369.
#044-J00169

Band-It® Jr. Tool

Junior Adaptors, either J00169 or J05069. Must be used with C00169. #044-C00169



Heavy Duty Jr. Adapter

Must be used with C00169 or C00369. #044-J05069

Junior Hand Tool

#044-C00269



Part No.	Description	Std. Pkg.
044-C00169	Bant-It® Tool	1
044-C00269	Junior Hand Tool	1
044-J00169	Junior Adapter	1
044-J05069	Junior Adapter Heavy Duty	1



Ball Peen Hammers

These hammers have forged high carbon steel heads and are designed for striking cold chisels in cutting or shaping work and metal forming. The Strongest and Most Durable Handle.

Hickory Handle



- ANSI Specifications: Black head, polished face, peen, and bevel.

Part No.	Head Wt./Oz.	Length	Std. Pkg.
067-04412	12	13"	6
067-04416	16	14"	6
067-04420	20	14-1/2"	4
067-04424	24	15-1/2"	4
067-04432	32	16"	4
067-04440	40	16"	4

Fiberglass Handle



- The cushioned handle provides secure grip, added shock absorption, and a reduction in fatigue.
- ANSI Specifications: Black head, polished face, peen, and bevel.

Part No.	Head Wt./Oz.	Length	Std. Pkg.
067-04512	12	11"	6
067-04516	16	12"	6
067-04520	20	12-1/2"	4
067-04524	24	14-1/2"	4
067-04532	32	15"	4

Rig Builders Hatchet - Hickory Handle



- Milled face, 3-5/8" black blade, polished face and edge, nail slot, hickory handle
- ANSI Specifications: Black head, polished face, peen, and bevel.

Part No.	Handle	Overall Length	Std. Pkg.
067-09013	Oval	17-1/2"	4

Engineers Hammers

Double-faced engineers hammer also called short handle sledge.

Hickory Handle



- Polished face, hickory handle.

Part No.	Head Wt./Lb.	Length	Std. Pkg.
067-05421	2	16"	4
067-05423	3	16"	4
067-05424	4	16"	4

Fiberglass Handle



- Polished face, fiberglass handle.

Part No.	Head Wt./Lb.	Length	Std. Pkg.
067-05821	2	16"	4
067-05823	3	16"	4
067-05824	4	16"	4

Claw Hammers

The Claw Hammers have a forged high carbon steel head and feature a fiberglass handle for strength and durability.



- Curved claw, round bell, polished head.

Part No.	Head Wt./Oz.	Length	Std. Pkg.
067-00530	20	12-5/8"	6
067-00536	16	12-5/8"	6





B-12 Chemtool® Products

The Leading Performer Since 1958!

B-12 Chemtool® Fuel Treatment

- Cleans petroleum residue and dispenses moisture from fuel system, fuel injector valves, rings, pistons, oil returns, lifters, PCV valve and oil pump screen with high energy solvent technology (H.E.S.T.).
- Regular use ensures higher compression, few repairs, lower operation costs and increased spark plug and injector life.



Part No.	Description	Std. Pkg.
107-0116	B-12 Chemtool® Fuel Treatment	12

B-12 Chemtool® Carburetor & Choke Cleaner

- Quickly dissolves gum and varnish from carburetor, PCV valve, automatic choke, carburetor linkage and distributor shaft with high energy solvent technology (H.E.S.T.).
- Improves driveability by removing deposits that cause rough idle and stalling.



Part No.	Description	Std. Pkg.
107-0117	B-12 Chemtool® Carb & Choke Cleaner	12

B-12 Chemtool® Injector Cleaner

- High energy solvent technology (H.E.S.T.) and superior cleaning additives combine to thoroughly clean fuel jets, carburetor circuits, fuel pump and combustion chamber for faster starts, smoother idling and maximum fuel economy.
- Catalytic converter and oxygen sensor safe.



Part No.	Description	Std. Pkg.
107-1112	B-12 Chemtool® Injector Cleaner	12

Brake Cleaner

- Effectively removes brake fluid, grease, oil and other contaminants from all brake parts including brake linings, disc brake pads, drums, cylinders, springs, and other related brake parts.
- Non-flammable, quick drying formula leaves no residue.



Part No.	Description	Std. Pkg.
107-1420	Brake Cleaner, 20 Oz. Aerosol	12

Brake Cleaner (Non-Chlorinated)

- Specially formulated to clean as well as chlorinated brake cleaners without chlorinated solvents.
- Tackles toughest oil, brake fluid, grease and frim deposits.
- Dries quickly leaving no residue.



Part No.	Description	Std. Pkg.
107-2421	Brake Cleaner (Non-Chlorinated)	12

Electric Motor Cleaner

- Dissolves dirt, greaase, and oil quickly from a wide range of electrical components, including armatures, windings, and brushes.
- Contains no fluorocarbon or Hydrocarbon propellants and has no flash point, making it safe for use in shop enviroment.
- Do not use to clean plastic, sensitive electronic components, printed circuits, switches, relays, rheostats, contact points, etc.



Part No.	Description	Std. Pkg.
107-1520	Professional Electric Motor Cleaner	12

Tire Seal-R®

- Seals leaks caused by nails, thorns and other sharp objects.
- Seal-R® coats inside of tire or tube to seal leaks and prevent loss of air pressure from punctures.
- Seal-R® seals punctures up to 1/4" in diameter.



Part No.	Description	Std. Pkg.
107-1301	Tire Seal-R® With Pump, 1 Gallon	4



BLITZ U.S.A. has been the Industry Leader in Gas Cans for over 20 Years!

Self-Venting Gas Cans



1+ Gallon Self-Venting Gas Can

Holds 1 Gallon, 4 Oz.
#142-81005



2+ Gallon Self-Venting Gas Can

Holds 2 Gallon, 8 Oz.
#142-81010



5+ Gallon Self-Venting Gas Can

Holds 5 Gallons of gas. Convenient top and back handles for ease in carrying and pouring.

#142-81033

Part No.	Description	Std. Pkg.
142-81005	1+ Gallon Self-Venting Gas Can	8 Each/Case
142-81010	2+ Gallon Self-Venting Gas Can	6 Each/Case
142-81033	5+ Gallon Self-Venting Gas Can	4 Each/Case

Enviro-Flo™ Spout

The easy to use Enviro-Flo™ spout is environmentally friendly and features variable flow for quick shut off, automatic venting, automatic locking when lever is released, and an airtight seal when not in use to reduce spills.



Part No.	Description	Std. Pkg.
142-82101	Enviro-Flow™ Spout	6 Each/Case

Metal "Jerry" Cans

The Traditional bright red Jerry Can is an American icon.

- Holds 5 gallons.
- Internally self-venting.
- Made from heavy-gauge steel.



Part No.	Description	Std. Pkg.
142-81733	Enviro-Flo 5 Gallon Metal "Jerry" Can	5 Each/Case

Metal Can Carrier

- Mounts all 5 gallon Blitz Cans.
- Including the 5 gallon "Jerry" Cans.



Part No.	Description	Std. Pkg.
142-11412	Metal "Jerry" Can Carrier With Strap	12 Each/Case

Screw-On Spout

Enviro-Flo™ Accessory Card: Spout, ID Tag & Flex Tube

This accessory pack includes the easy to use Enviro-Flo™ spout featuring variable flow for quick shut off, automatic venting, automatic locking when lever is released, and an airtight seal when not in use to reduce spills.



Part No.	Description	Std. Pkg.
142-81101	Enviro-Flow™ Accessory Card Spout, ID Tag & Flex Tube	6 Each/Case

Funnels

3 Piece Assorted Funnel

Includes the small, medium, and large funnels. Easy to use and made of tough, high-density resin.



Part No.	Description	Std. Pkg.
142-05068	3 Pc. Funnel Assortment	12 Each/Case



BLITZ U.S.A. has been the Industry Leader
in Gas Cans for over 20 Years!

Diesel and Kerosene Self-Venting Cans



5+ Gallon Self-Venting Diesel Can
• Yellow

#142-81054



5+ Gallon Self-Venting Kerosene Can
• Blue

#142-81077

Part No.	Description	Std. Pkg.
142-81054	5 + Gal. Self-Venting Diesel Can	4 Each/Case
142-81077	5 + Gal. Self-Venting Kerosene Can	4 Each/Case



L-Wrench Sets



13 Pc ProHold® Ball End L-Wrench Set
.050-3/8"

Part No.	Description	Std. Pkg.
197-74937	13 Pc Pro-Hold® Ball End L-Wrench Set	1 Each



L-Wrench Sets



9 Pc ProHold® Ball End L-Wrench Set
1.5-10mm

Part No.	Description	Std. Pkg.
197-74999	9 Pc Pro-Hold® Ball End L-Wrench Set	1 Each



9 Pc Ball End L-Wrench Set
1.5-10mm

Part No.	Description	Std. Pkg.
197-10999	9 Pc Ball End L-Wrench Set	1 Each



13 Pc Ball End L-Wrench Set
.050-3/8"

Part No.	Description	Std. Pkg.
197-10937	13 Pc Ball End L-Wrench Set	1 Each



12 Pc Ball End L-Wrench Set
.050-5/16"

Part No.	Description	Std. Pkg.
197-10936	12 Pc Ball End L-Wrench Set	1 Each



22 Pc Ball End L-Wrench Double Pack
.050-3/8" + 1.5-10mm

Part No.	Description	Std. Pkg.
197-20199	22 Pc Ball End L-Wrench Double Pack	1 Each



L-Wrench

Balldriver L-Wrench

Part No.	Description	Std. Pkg.
197-12908	Balldriver L-Wrench 9/64"	100
197-12909	Balldriver L-Wrench 5/32"	100
197-12913	Balldriver L-Wrench 5/16"	50
197-12918	Balldriver L-Wrench 5/8"	10
197-12919	Balldriver L-Wrench 3/4"	5

Hex Fold Up



9 Pc Hex GorillaGrip® Fold Up .050-3/16"

Part No.	Description	Std. Pkg.
197-12591	9 Pc Hex GorillaGrip® Fold Up	1 Each



7 Pc Hex GorillaGrip® Fold Up 2-8mm

Part No.	Description	Std. Pkg.
197-12587	7 Pc Hex GorillaGrip® Fold Up	1 Each



9 Pc Hex GorillaGrip® Fold Up 5/64-1/4"

Part No.	Description	Std. Pkg.
197-12589	9 Pc Hex GorillaGrip® Fold Up	1 Each



5 Pc Hex GorillaGrip® Fold Up 3/16-3/8"

Part No.	Description	Std. Pkg.
197-12585	5 Pc Hex GorillaGrip® Fold Up	1 Each

T-Handle Sets



8 Pc Star Tip Graduated Length T-Handle Set with Stand T9-T40

Part No.	Description	Std. Pkg.
197-33034	8 Pc Star Tip Graduated Length T-Handle Set with Stand	1 Each



10 Pc Ball End T-Handle Set in Pouch 3/32-3/8"

Part No.	Description	Std. Pkg.
197-13138	10 Pc Ball End T-Handle Set with Pouch	1 Each

FOX MANUFACTURING



Babbin Bilge Pumps

Part No.	Description	Std. Pkg.
063-B48	Babbin Bilge Pump	1 Each

#4 Babbit Metal



For general purpose industrial application requiring high strength and corrosion resistance.

Part No.	Description	Std. Pkg.
058-babbit#4	#4 Babbit Metal	50#/Box
058-ch-hard	Babbit Hard Anti-Friction Copper	50#/Box



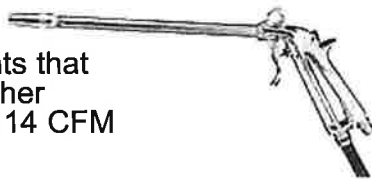
Liquid Radiator Stop Leak The Original Stop Leak!



Original Stop Leak (083-C16/083-R6): Permanently seal leaks in plastic, aluminum, & metal radiators, heater cores, blocks, heads, gaskets and freeze plugs. Plus, conditions cooling system, inhibits rust & corrosion, lubricates water pump & seal, and helps control electrolysis. Professional strength (083-HDC): 2.1 oz. stop leak tablets.

Part No.	Description	Std. Pkg.
083-C16	10 oz, for 6, 8, & 10 cyl. cooling system	12/10oz btl
083-R6	5.5 oz, for 4 cyl. cooling system	12/blister pk
083-HDC	2 tablets per gal of cooling system cap.	12/5.5oz btl

BINKS. Spray Guns



Used to spray solvents that clean engines and other machinery. Requires 14 CFM air at 50 PSI.

- Air Inlet: 1/4" NPS
- Color: Silver

Model 140B

Part No.	Description	Std. Pkg.
024-140B	140B Spray Gun	1/Each
024-57-92	140B - Tip	1/Each
024-57-94	140B - Nozzle	1/Each

Bitumastic 50

Ultra-high build, single-component coal tar mastic for protecting steel and concrete substrates subject to aggressive conditions and for below grade damp proofing requirements.



Part No.	Description	Std. Pkg.
008-Bit50-1	1 Gallon Pail	4 per case
008-Bit50-5	5 Gallon Pail	1/5 Gallon Pail
008-Bit300M-5	5 Gallon Part A & B	1/5 Gallon Kit

"BLASTER"



036-16-PB



036-128-PB



036-16-ATC



036-16-CBD



036-PB-50

PB Blaster & Air Tool Conditioner quickly breaks loose the surface tension of frozen parts and protects against further rust and corrosion. Citrus Based Degreaser removes tar, grease, oil, resin & ink from virtually any surface. All Purpose Lubricant is a great lubricant for moving parts and displaces & repels moisture.

Part No.	Description	Std. Pkg.
036-16-PB	PB Blaster, 12/16 oz cans	12/case
036-128-PB	PB Blaster, 1 gallon w/sprayer	4 gal/case
036-16-ATC	Air Tool Conditioner	12/case
036-16-CBD	Citrus Based Degreaser	12/case
036-PB-50	All Purpose Lubricant	12/case

Gloves, Boots & Rainsuits

Cotton Gloves



18 oz. double palm, natural knit wrist. 100% cotton.

Size: L
029-1JC28013

18 oz. 2 ply quilted chore. Comfortable cotton flannel lined palm.

Size: L
029-4005



Two ply, double palm, Boss® Cord™, nap in, red knit wrist.

Size: L
029-30MI

Fluorescent orange two ply, 100% cotton Boss Cord™, knit wrist.

Size: L
029-30MIF



Fluorescent green two ply, 100% cotton Boss Cord™, knit wrist.

Size: L
029-30MIN

Part No.	Description	Std. Pkg.
029-1JC28013	18 oz, double palm 2 ply cotton	doz.
029-4005	18 oz, 2 ply quilted chore	doz.
029-30MI	Boss Cord, 2 ply, 100% cotton	doz.
029-30MIF	Orange, 2 ply, cotton corded	doz.
029-30MIN	Green, 2 ply, cotton corded	doz.

Plastic Dot Gloves



Boss Rigger™ 100% heavy-weight cotton Boss Cord™, fluorescent orange dot.

Size: L
029-1BP5520

10 oz. poly/cotton blend, fluorescent orange dot.

Size: L
029-1JP5504



8 oz. poly/cotton blend, black dot palm.

Size: L
029-1JP5501

10 oz. poly/cotton blend, black dot palm.

Size: L
029-1JP5505



Part No.	Description	Std. Pkg.
029-1BP5520	Boss Rigger®, cord w/orange dot	doz.
029-1JP5504	10 oz, ply/cotton orange dot	doz.
029-1JP5501	8 oz, ply/cotton, black PVC dot	doz.
029-1JP5505	10 oz, ply/cotton, black PVC dot	doz.

Jersey/String Knit Gloves

Brown Jersey



029-1JJ1843



029-1JJ403

String Knit



029-1JC1202

Part No.	Description	Std. Pkg.
029-1JJ1843	9 oz brown jersey	doz.
029-1JJ403	General purpose brown jersey	doz.
029-1JC1202	Natural string knit blend	doz.

Gloves, Boots & Rainsuits Jersey/String Knit Gloves

Cut Resistant



029-1PU6000



029-1UH7100

Foam Nitrile



029-1UH7820

Dotted High-Vis



029-1JP9522F



029-1JP9522N

Flexi Grip



029-1SR8425

Part No.	Description	Std. Pkg.
029-1PU6000	Dynee Mytee™, polyethylene	doz.
029-1UH7100	Boss® Extreme™, poly/glass fiber	doz.
029-1UH7820	Boss® Tech, foam nitrile	doz.
029-1JP9522F	Dotted High-Vis, double sided PVC	doz.
029-1JP9522N	Dotted High-Vis, double sides PVC	doz.
029-1SR8425	Flexi grip™, poly/cotton, palm coated	doz.

Chore Gloves



029-1BC40721



029-1BC5510

Part No.	Description	Std. Pkg.
029-1BC40721	Gauntlet cuff, two ply cotton flannel	doz.
029-1BC5510	Munk®, two ply quilted fleece/cot.	doz.

Neoprene/PVC/Nitrile



029-1SN2812



029-1SP8718



029-1SP6714



029-1UH7065



029-1SP5714



029-1SP5718

Part No.	Description	Std. Pkg.
029-1SN2812	Premium Neoprene, 12", jersey lined	doz.
029-1SP8718	Black PVC, interlock lined, 18"	doz.
029-1SP6714	Jersey lined sandy grip, coated PVC	doz.
029-1UH7065	Jersey lined blue nitrile, safety cuff	doz.
029-1SP5714	Jersey lined wet grip, green PVC	doz.
029-1SP5718	Jersey lined wet grip, green PVC	doz.

Leather Palm & Drivers



029-1JL9920



029-1JM600



029-4041

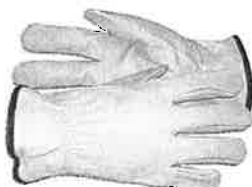


029-1BL18367

Part No.	Description	Std. Pkg.
029-1JL9920	Split promotional leather palm	doz.
029-4041	All purpose, synthetic leather palm	doz.
029-1JM600	High-Vis impact, synthetic leather palm	doz.
029-1BL18367	High visibility fingertips, grain leather	doz.



029-1JL4052



029-1JL6133



029-4175

Part No.	Description	Std. Pkg.
029-1JL4052	Unlined grain pigskin, sizes: M/L/XL	doz.
029-1JL6133	Thermal lined grain leather, sizes: L	doz.
029-4175	Tough split leather w/flannel lining, L	doz.

Rainsuits



Poly lined, 35mm, 3pc., PVC, yellow rainsuit. Detachable hood, storm fly front, raglan sleeves w/take up snaps, take up snaps at the ankle, adjustable elastic suspenders.

029-3PR0290Y

Packaging available for merchandising
029-3PR0300Y

PVC 48" long, poly lined, 35mm, yellow raincoat. Storm-fly front w/raglan sleeves, cap back, and non-corrosive/non-conductive plastic snaps.

029-3PR7900Y

Packaging available for merchandising
029-3PR8000Y



Part No.	Description	Sizes
029-3PR0290Y	Poly lined, 35mm, 3 pc., PVC	S-6X
029-3PR0300Y	Poly lined, 35mm, 3 pc., PVC	S-6X
029-3PR7900Y	PVC 48" long, poly lined, 35mm	S-5X
029-3PR8000Y	PVC 48" long, poly lined, 35mm	S-5X

PVC poly lined, 50mm, yellow jacket or bibs. Storm-fly front w/zipper, cape back. Attached hood w/drawstring and velcro closure on cowl neck. Inside cargo pockets at hem line. Reinforced elbow patches and underarm vents.

029-3PR0351N



029-3PR0350N



029-3PR0500Y



029-3PR0501Y



Part No.	Description	Sizes
029-3PR0350N	Poly lined, 35mm 2-piece PVC jacket	M-5X
029-3PR0351N	Poly lined, 35mm PVC bib overalls	M-5X
029-3PR0500Y	PVC poly lined, 50mm, yellow jacket	S-3X
029-3PR0501Y	PVC poly lined, 50mm, bib trouser	S-3X

PVC Boots

Men's black economy, steel toe, cleated outsole, PVC boot.



Part No.	Description	Sizes
029-2KS21000	Steel toe, cleated, PVC boot	7-13



Flashlights

The flashlights that make up Bright Star's WorkSAFE series are the lowest-priced Class I, Division 1 rated lights in the world. Which means, for just a fraction more than the cost of non-safety-rated flashlights, you can own the safest hazardous-environment-ready flashlights available. The WorkSAFE series includes 2D and 3D-sized flashlights (both available in waterproof models), lanterns, and a headlamp model - all Class I, Division 1 rated for unsurpassed safety in the most hazardous environments. And they're all affordable enough to meet even the most modest budgets.



147-2117



147-2124



147-2206



147-2217



147-2224

Part No.	Description	Std. Pkg.
147-2117	Bright Star 2D-Cell Flashlight	1
147-2124	Bright Star 3D-Cell Flashlight	1
147-2206	Bright Star Safety Waterproof Lantern 6 V	1
147-2217	Bright Star Safety Waterproof Flashlight 2D Cell	1
147-2224	Bright Star Safety Waterproof Flashlight 3D Cell	1

Heavy Duty Flashlight

- Faceted reflector
- 40-pound pull capacity ABS plastic ring hanger
- Patented lens ring stand offs
- Switch guard
- Unbreakable Tuflexx® lens
- Sure-grip ribbed, crush resistant case



147-2618HD

Part No.	Description	Std. Pkg.
147-2618HD	Bright Star 2D Heavy Duty Ind Flashlight	1

Razor LED Flashlights

Using advanced LED technology, the Zone Zero Safety rated Razor produces a brilliant, piercing beam for use in the most demanding environments.

- Deep dish reflector focuses the light from the high output LED
- Ergonomically designed push button switch that is positioned for easy accessibility
- Knurled design allows for a maximum grip and better control of the light-even with wet hands
- Watertight seal for wet environments. Fully waterproof to one meter



Part No.	Description	Std. Pkg.
147-60100	Black Razor LED 3AA Zone Zero Safety Light	1
147-60101	Lime Green Razor LED 3AA Zone Zero Safety Light	1
147-60102	Safety Orange Razor LED 3AA Zone Zero Safety Light	1

LED Penlights

Using advanced LED technology, the Zone Zero safety rated ION produces the brightest light in its category, making it the safest light for all hazardous environments.

- The brightest light in its product category with a deep dish parabolic reflector
- Ergonomically designed with a knurled grip to give control and comfortable feel in the hand
- Constructed of super tough nylon with a built-in magnetic clip for hands free use
- Small enough to be carried as a back up light but bright enough to be your primary light



Part No.	Description	Std. Pkg.
147-60200	Black Penlight LED 3AAAA Zone Zero Safety	1
147-60201	Lime Green Penlight LED 3AAAA Zone Zero Safety	1
147-60202	Safety Orange Penlight LED 3AAAA Zone Zero Safety	1

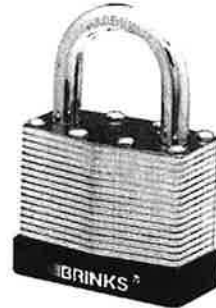
Oilfield Supplies



Commercial and Industrial Padlocks

Laminated Steel Padlocks

- Lock bodies constructed from laminated steel
- 1-9/16", 1-3/4", & 2" locks
- Z11 anti-rust and corrosion protective plating
- Dual lever locking mechanism, 1-9/16"
- Hardened steel shackle, chrome plated
- Anti-pick spool pin tumbler, brass cylinder and stainless steel springs
- KD - keyed different, KA - keyed alike



Part No.	No.	Description	Std. Pkg.
115-4233-4KA	3KA	1-9/16" Laminated Steel Padlock, KA	6
115-4233-4KD	3KD	1-9/16" Laminated Steel Padlock, KD	6
115-4234-4KA	3LFKA	1-9/16" Laminated Steel Padlock w/1-3/8" shackle, KA	6
115-4234-4KD	3FL	1-9/16" Laminated Steel Padlock w/1-3/8" shackle, KD	6
115-4243-4KA	1KA	1-3/4" Laminated Steel Padlock, KA	6
115-4243-4KD	1KD	1-3/4" Laminated Steel Padlock, KD	6
115-4248-4KA	1LJKA	1-3/4" Laminated Steel Padlock w/2-1/2" shackle, KA	6
115-4248-4KD	1LJ	1-3/4" Laminated Steel Padlock w/2-1/2" shackle, KD	6
115-4252-4KA	5KA	2" Laminated Steel Padlock, KA	6
115-4252-4KD	5KD	2" Laminated Steel Padlock, KD	6

Heavy Duty Resettable Brass Combination Locks

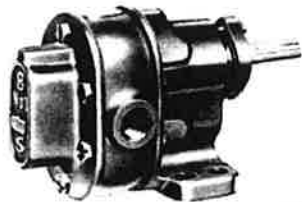
- 4 number bottom resettable combination
- Solid Brass Case
- Hardened Chrome Plated Steel Shackle



Part No.	No.	Description	Std. Pkg.
115-7551	175D	1-7/8" Brass, 4 Dial resettable Combined w/1" shackle	6
115-7552	175DLH	1-7/8" Brass, 4 Dial resettable Combined w/2" shackle	6



B-Series
FT. MTD. Pump



S-Series
FT. MTD. Pump



B-Series pumps are for a variety of recirculating, mixing, and transfer applications. Typical pumped liquids include solvents, resins, and petroleum products. These pumps are well suited for light, medium, and intermittent service.

Design: Drive speeds to 900 rpm; discharge pressure to 200 psi; flow rate to 26.8 gpm; foot or flange mounted; with or without integral relief valve.

Material: Cast iron castings w/precision machined, heat treated gears and case hardened shafts.

Bearings: Replaceable iron sleeve bearings. Also available with carbon graphite or bronze bearings.

Seal: Compression packing w/adjustable gland

S-Series pumps are designed to operate at standard motor speeds and are suitable for pumping oils, inert chemicals, petroleum and various others liquids in transfer, circulation, lubrication, and liquid pressurization.

Design: Drive speeds to 1800 rpm; discharge pressure to 200 psi; flow rate to 32.0 gpm; foot or flange mounted; with or without integral relief valve.

Material: Cast iron castings w/precision machined, heat treated gears and case hardened shafts.

Bearings: Replaceable iron sleeve bearings. Also available with carbon graphite or bronze bearings.

Seal: Mechanical seal

B Series (Spur Gears)

Model No.	Part No.	Description
1	001-713-1-1	Ft Mtd WORV
1	001-713-1-4	Ft Mtd WGF WORV
1	001-713-1-7	Ft Mtd WRV
2	001-713-2-1	Ft Mtd WORV
2	001-713-2-4	Ft Mtd WGF WORV
2	001-713-2-7	Ft Mtd WRV
2	001-713-2-9	Ft Mtd WGF WRV
3	001-713-3-1	Ft Mtd WORV
3	001-713-3-4	Ft Mtd WGF WORV
3	001-713-3-7	Ft Mtd WRV
3	001-713-3-9	Ft Mtd WGF WRV
4	001-713-4-1*	Ft Mtd WORV
4	001-713-4-7*	Ft Mtd WRV
1	001-713-901-1	Flg Mtd WORV
1	001-713-901-7	Flg Mtd WRV
2	001-713-902-1	Flg Mtd WORV
2	001-713-902-7	Flg Mtd WRV
3	001-713-903-1	Flg Mtd WORV
3	001-713-903-7	Flg Mtd WRV
4	001-713-904-1*	Flg Mtd WORV
4	001-713-904-7*	Flg Mtd WRV

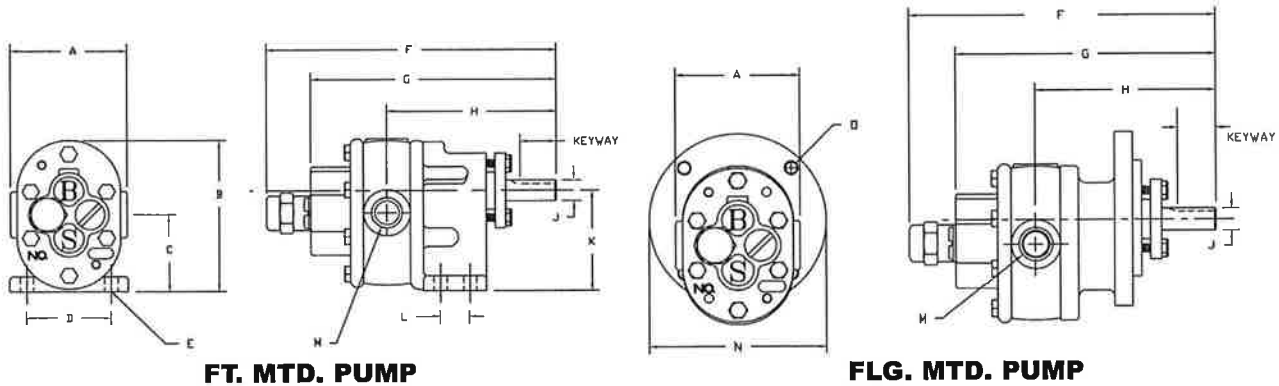
S Series (Helical Gears)

Model No.	Part No.	Description
0	001-713-00-2	Flg Mtd CW WORV
1S	001-713-10-2	Ft Mtd CW WORV
1S	001-713-10-7	Ft Mtd CW WRV
2S	001-713-20-2	Ft Mtd CW WORV
2S	001-713-20-7	Ft Mtd CW WRV
3S	001-713-30-2	Ft Mtd CW WORV
3S	001-713-30-7	Ft Mtd CW WRV
4S	001-713-40-7	Ft Mtd CW WRV
5S	001-713-50-2	Ft Mtd CW WORV
5S	001-713-50-7	Ft Mtd CW WRV
6S	001-713-60-2	Ft Mtd CW WORV
2S	001-713-920-2	Flg Mtd CW WORV
2S	001-713-920-7	Flg Mtd CW WRV
3S	001-713-930-2	Flg Mtd CW WORV
3S	001-713-930-7	Flg Mtd CW WRV
4S	001-713-940-2	Flg Mtd CW WORV
4S	001-713-940-7	Flg Mtd CW WRV
5S	001-713-950-2	Flg Mtd CW WORV

For CCW rotation change digit in third field of part no. to 3 (WORV) or 8 (WRV).

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA B-SERIES



DIMENSIONS (INCHES)

Model	A	B	C	D	E	F	G	H	J	K	L	M	O	Keyway
1	3.00	3.69	1.78	2.00	0.39	7.50	6.25	4.56	0.56	2.38	0.75	3/8	3/8-16	1/8 x 1/16
2	3.44	4.53	2.31	2.50	0.39	8.47	7.22	5.00	0.63	3.00	0.88	1/2	3/8-16	3/16 x 3/32
3	4.44	5.72	2.88	3.00	0.45	10.50	8.88	6.19	0.75	3.88	1.25	3/4	3/8-16	3/16 x 3/32
4	4.44	5.81	2.88	3.00	0.45	11.50	9.88	6.69	0.75	3.88	1.25	1-1/4	3/8-16	3/16 x 3/32

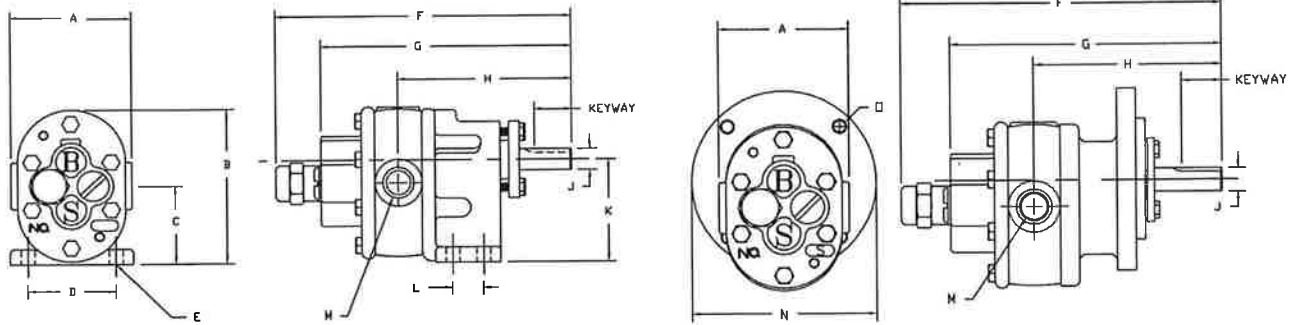
OPERATING CHARACTERISTICS

Model	Displmnt gals. per rev.	Slip gpm/psi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
1	.00515	.0022	300	1.5	.02	1.4	.10	1.38	.14	1.3	.18	1.1	.34
			600	3.1	.05	3.0	.20	2.93	.28	2.9	.36	2.7	.66
			900	4.6	.11	4.5	.33	4.47	.35	4.4	.54	4.2	.98
2	.01043	.0023	300	3.1	.04	3.0	.19	2.95	.26	2.9	.34	2.7	.64
			600	6.3	.07	6.1	.34	6.1	.47	6.0	.61	5.8	1.1
			900	9.4	.11	9.3	.48	9.2	.66	9.1	.85	8.9	1.5
3	.01896	.0025	300	5.7	.05	5.6	.28	5.5	.41	5.4	.54	5.2	1.1
			600	11.4	.06	11.3	.47	11.2	.71	11.1	.97	10.9	2.1
			900	17.1	.17	17.0	.83	16.8	1.2	16.8	1.5	16.5	3.2
4	.02980	.0080	300	8.9	.07	8.5	.37	8.3	.57	8.1	.80	-	-
			600	17.9	.22	17.5	.77	17.3	1.1	17.1	1.4	-	-
			900	26.8	.50	26.4	1.3	26.2	1.7	26.0	2.3	-	-

* Delivery and input horsepower are based on liquid viscosity of 300 ssu at speed and pressures shown.

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA S-SERIES



FT. MTD. PUMP

FLG. MTD. PUMP

DIMENSIONS (INCHES)

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Keyway
1S	3.00	3.69	1.78	2.00	0.39	7.50	6.25	4.56	0.56	2.38	0.75	3/8	4-7/8	3/6-16	1/8 x 1/16
2S	3.44	4.53	2.31	2.50	0.39	8.47	7.22	5.00	0.68	3.00	0.88	1/2	4-7/8	3/8-16	3/16 x 3/32
3S	4.44	5.72	2.88	3.00	0.45	10.50	8.88	6.19	0.75	3.88	1.25	3/4	4-7/8	3/8-16	3/16 x 3/32
4S	4.44	5.91	2.88	3.00	0.45	10.50	8.88	6.19	0.75	3.88	1.25	1	4-7/8	3/8-16	3/16 x 3/32
5S	5.00	5.97	2.88	3.00	0.45	10.50	8.88	6.69	0.75	3.88	1.25	1-1/4	4-7/8	3/8-16	3/16 x 3/32

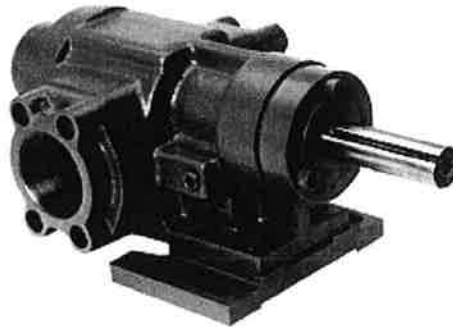
OPERATING CHARACTERISTICS

Model	Displmnt gals. per rev.	Slip gpm/psi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
1S	.00262	.0024	600	1.6	.03	1.5	.08	1.4	.11	1.3	.15	1.1	.33
			860	2.3	.04	2.1	.13	2.07	.18	2.0	.23	1.8	.49
			1140	3.0	.06	2.9	.17	2.8	.23	2.7	.30	2.5	.63
			1725	4.5	.14	4.4	.29	4.3	.36	4.28	.48	4.0	.95
2S	.00521	.0035	600	3.1	.05	3.0	.15	2.9	.24	2.8	.31	2.4	.65
			860	4.5	.08	4.3	.22	4.2	.34	4.1	.45	3.8	.93
			1140	5.9	.13	5.8	.31	5.7	.41	5.6	.51	5.2	1.0
			1725	9.0	.44	8.8	.64	8.7	.78	8.6	.94	8.3	1.6
3S	.00947	.0026	600	5.7	.08	5.6	.34	5.5	.47	5.4	.60	5.2	1.1
			860	8.1	.25	8.0	.54	7.9	.68	7.8	.83	7.6	1.5
			1140	10.8	.38	10.7	.77	10.6	.97	10.5	1.1	10.2	2.0
			1725	16.2	.92	16.1	1.4	16.0	1.7	15.9	2.0	15.7	3.1
4S	.0135	.009	600	8.1	.30	7.9	.50	7.8	.60	7.7	.80	7.4	1.2
			860	11.6	.40	11.3	.70	11.2	.90	11.1	1.1	10.7	1.8
			1140	15.3	.50	15.0	.90	14.8	1.20	14.7	1.45	14.2	2.3
			1725	23.2	.80	22.7	1.40	22.5	1.80	22.3	2.2	21.4	3.5
5S	.0186	.02	600	11.1	.45	10.8	.55	10.6	.75	10.4	.95	9.7	1.6
			860	15.9	.65	15.5	.80	15.2	1.0	15.0	1.3	14.0	2.3
			1140	21.1	.80	20.5	1.1	20.2	1.4	19.8	1.8	18.5	3.1
			1725	32.0	1.30	31.0	1.6	30.5	2.1	30.0	2.7	28.0	4.7

* Delivery and input horsepower are based on liquid viscosity of 300 ssu at speed and pressures shown.

BSM ROTARY GEAR PUMPS

HEAVY DUTY S-SERIES



FT. MTD. PUMP

The Heavy Duty S-Series pumps are designed to handle a wide variety of liquids and are particularly suitable for bulk transfer applications where long life and dependable service is required. The pumps are easy to install and maintain and are available in different materials to meet specific requirements.

Design: Drive speeds to 1140 rpm; discharge pressures to 300 psi; flow rate to 175.0 gpm; foot mounted. Bronze or Ductile iron thrust plates.

Material: Cast Iron casings with precision machined, heat treated gears and case hardened shafts. Pumps are also available in Ductile Iron.

Bearings: Anti-friction. Also available with iron or carbon graphite sleeve bearings.

Seal: Mechanical seal. Also available with packed seal.

Lubrication: Self lubricating using the pumped liquid. Also available for handling non-lubricating liquids.

Rotation: Clockwise or counter-clockwise rotation. A reversible back drain permits direction of rotation to be easily changed in the field.

Liquid Viscosities: 100 ssu to 100,000 ssu. Clean liquids having good lubricating qualities. Adaptable for handling liquids of higher or lower viscosities.

Suction Lift: 28 Hg / 31 feet depending on the type of liquid being pumped.

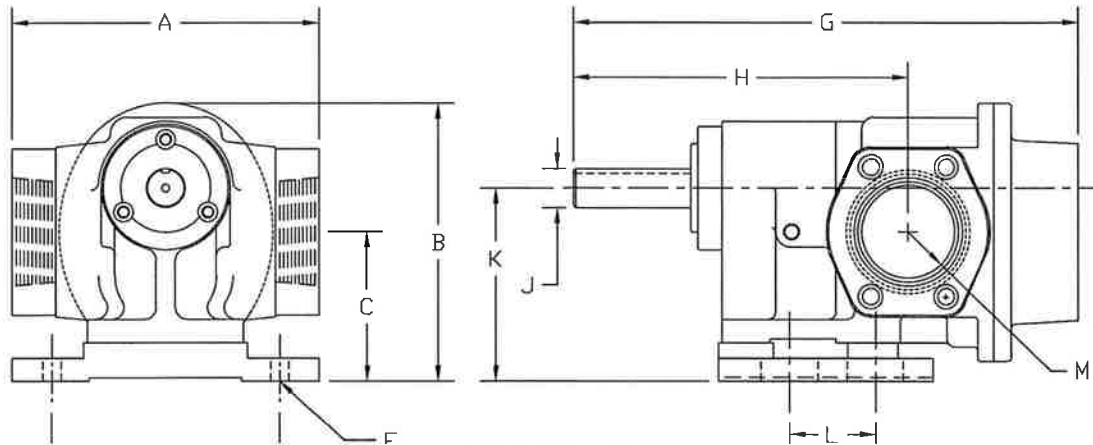
Drive Options: D-Drive (pump coupled to motor mounted on baseplate); GR-Drive (pump coupled to gear reducer coupled to motor mounted on baseplate); B-Drive (pump and motor connected by V-belt and pulleys mounted on baseplate).

Accessories: Repair Kits; Gear Sets; and Seal Kits.

Model No.	Part No.	Description
6S	001-713-60-2	BSM pump Ft Mtd CW WORV Helical Gears
8S	001-713-80-2	BSM pump Ft Mtd CW WORV Helical Gears
10S	001-713-100-2	BSM pump Ft Mtd CW WORV Helical Gears
12S	001-713-120-2	BSM pump Ft Mtd CW WORV Helical Gears
14S	001-713-140-2	BSM pump Ft Mtd CW WORV Helical Gears

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA HEAVY DUTY S-SERIES



FT. MTD. PUMP

DIMENSIONS (INCHES)

Model	A	B	C	D	G	H	J	K	M	Keyway
6S	8.00	6.25	2.91	5.25	13.88	9.56	1	4.25	2"	1/4 x 1/8
8S	9.75	9.00	4.58	7.25	16.13	10.63	1 1/4	6.25	3"	1/4 x 1/8
10S	9.75	9.00	4.58	7.25	16.13	10.63	1 1/4	6.25	3"	1/4 x 1/8
12S	12.125	11.56	6.06	10.00	18.50	11.94	1 1/2	8.00	4"	3/8 x 3/16
14S	12.125	11.56	6.06	10.00	18.50	11.94	1 1/2	8.00	4"	3/8 x 3/16

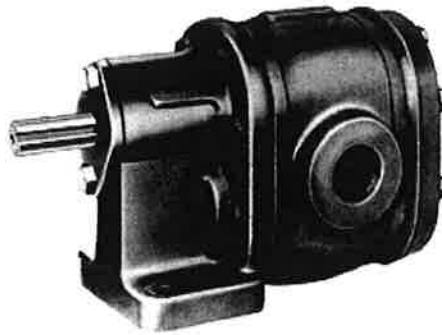
OPERATING CHARACTERISTICS

Model	Displmnt gals. per rev.	Slip gpm/spi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi		300 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
6S	0.0361	0.008	600	21.7	.6	21.5	1.3	21.4	1.6	21.3	1.9	20.8	3.2	20.4	4.5
			860	31.1	.8	30.8	1.8	30.6	2.3	30.5	2.7	29.8	4.6	29.2	6.5
			1140	41.2	1.1	40.8	2.4	40.6	3.0	40.4	3.6	39.5	6.1	38.7	8.6
8S	0.056	0.013	600	33.6	.9	33.3	1.9	33.2	2.5	32.9	2.9	32.3	4.9	31.6	7.0
			860	48.2	1.3	47.8	2.8	47.5	3.5	47.2	4.2	46.2	7.1	45.3	10.0
			1140	63.9	1.7	63.3	3.7	63.0	4.7	62.6	5.6	61.3	9.4	60.0	13.3
10S	0.079	0.018	600	47.7	1.3	47.2	2.7	47.0	3.5	46.7	4.2	45.8	7.1	44.8	9.9
			860	68.3	1.8	67.7	3.9	67.4	5.0	67.0	6.0	65.6	10.1	64.3	14.3
			1140	90.6	2.4	89.7	5.2	89.3	6.6	88.8	7.9	87.0	13.4	85.2	18.9
12S	0.113	0.026	600	67.8	1.8	67.1	3.8	66.8	4.9	66.4	5.9	65.1	10.1	63.7	14.1
			860	97.2	2.6	96.2	5.5	95.7	7.0	95.2	8.4	93.2	14.4	91.3	20.2
			1140	128.8	3.4	127.5	7.3	126.9	9.3	126.2	11.2	123.6	19.1	121.0	26.8
14S	0.204	0.035	600	122.2	3.2	121.0	6.9	120.3	8.8	119.7	10.6	117.3	18.1	114.8	25.5
			860	175.1	4.6	173.4	9.9	172.5	12.6	171.6	15.2	168.1	25.9	164.6	36.5

* Delivery and input horsepower are based on liquid viscosity of 300 ssu.

BSM ROTARY GEAR PUMPS

53/55-SERIES



FT. MTD. PUMP

These pumps operate quietly at nominal motor speeds and discharge large volumes of liquid at medium pressures. Typical applications for these pumps are hydraulic power for positioning devices, lifts, machine actuation, liquid pressurization for fuel burners and blenders as well as general transfer in all industries.

Design: Drive speeds to 1725 rpm; discharge pressures to 200 psi; flow rate to 51.4 gpm; foot or flange mounted.

Material: Cast iron casings with precision machined, heat treated gears and case hardened shafts. Pumps are also available in Ductile Iron.

Bearings: Anti-friction.

Seal: Mechanical seal. Also available with packed seal.

Lubrication: Self lubricating using the pumped liquid.

Rotation: Clockwise or counter-clockwise rotation. Specify at time of order.

Liquid Viscosities: 100 ssu to 3,000 ssu. Clean liquids having good lubricating qualities. Adaptable for handling liquids of higher or lower viscosities.

Suction Lift: 28" Hg / 31 feet depending on the type of liquid being pumped.

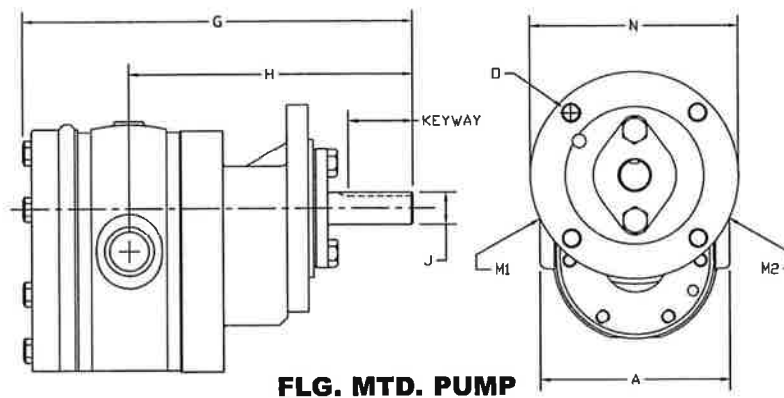
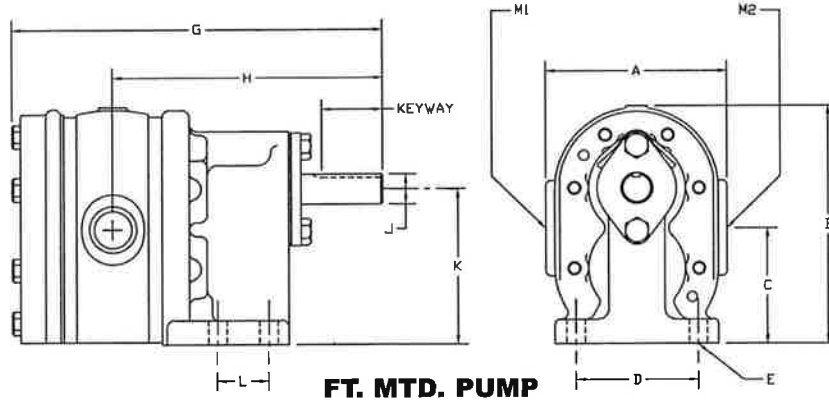
Drive Options: D-Drive (pump connected to C-Face motor with adapter bracket and coupling); D-Drive (pump coupled to motor mounted on baseplate); GR-Drive (pump coupled to gear reducer coupled to motor mounted on baseplate); B-Drive (pump and motor connected by V-belt and pulleys mounted on baseplate).

Accessories: Repair Kits; Gear Sets; and Bearing Kits; and Seal Kits.

Model No.	Part No.	Description
53	001-713-53-2	BSM pump Ft Mtd CW
53	001-713-53-2	BSM pump Ft Mtd CCW
55	001-713-55-2	BSM pump Ft Mtd CW
55	001-713-55-2	BSM pump Ft Mtd CCW
53	001-713-953-2	BSM pump Flg Mtd CW
55	001-713-955-2	BSM pump Flg Mtd CW

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA 53/55-SERIES



DIMENSIONS (INCHES)

Model	A	B	C	D	E	G	H	J	K	L	M1	M2	N	O	Keyway
53	4.52	6.03	2.88	3.00	29/64	9.13	6.63	.75	3.88	1.25	1	3/4	4-7/8	3/6-16	3/16 x 3/32
55	5.00	6.03	2.88	3.00	29/64	10.13	7.13	.75	3.88	1.25	1 1/4	1.00	4-7/8	3/6-16	3/16 x 3/32

OPERATING CHARACTERISTICS

Model	Displmnt gals. per rev.	Slip gpm/psi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
53	.01347	.0090	860	11.6	.2	11.1	.5	10.9	.7	10.7	.2	9.8	1.6
			1140	15.4	.3	14.9	.8	14.7	1.0	14.5	1.2	13.6	2.2
			1725	23.2	.8	22.7	1.4	22.5	1.8	22.3	2.1	21.4	3.5
55	.02984	.0200	860	25.6	.3	24.6	1.0	24.1	1.4	23.6	1.8	21.6	3.5
			1140	35.0	.5	34.0	1.5	33.5	2.0	33.0	2.6	31.0	4.7
			1725	51.4	1.3	50.4	2.6	49.9	3.4	49.4	4.2	47.4	7.5

* Delivery and input horsepower are based on liquid viscosity of 100 ssu.

BSM ROTARY GEAR PUMPS

500-SERIES



FLG. MTD. PUMP

PUMP FOOT

The BSM 500-Series pumps are designed to provide quite and efficient service at standard motor speeds, moderately high pressures. Typical applications are supplying hydraulic power on machine tools and construction equipment, as well as oil field gathering line service, and deep hole drilling applications.

Design: Drive speeds to 1725 rpm; discharge pressures to 1000 psi; flow rate to 60.0 gpm; foot or flange mounted.

Material: Cast iron casings with precision machined, heat treated gears and case hardened shafts. Pumps are also available in Ductile Iron.

Bearings: Anti-friction needle bearings. Also available with carbon graphite or bronze bearings.

Seal: Mechanical seal. Also available with packed seal.

Lubrication: Self lubricating using the pumped liquid.

Rotation: Clockwise or counter-clockwise. A reversible back drain permits direction of rotation to be easily changed in the field.

Liquid Viscosities: 100 ssu to 1,000 ssu recommended. Clean liquids having good lubricating qualities. Adaptable for handling liquids of higher or lower viscosities.

Suction Lift: Up to 28" Hg / 31 feet depending on the type of liquid being pumped.

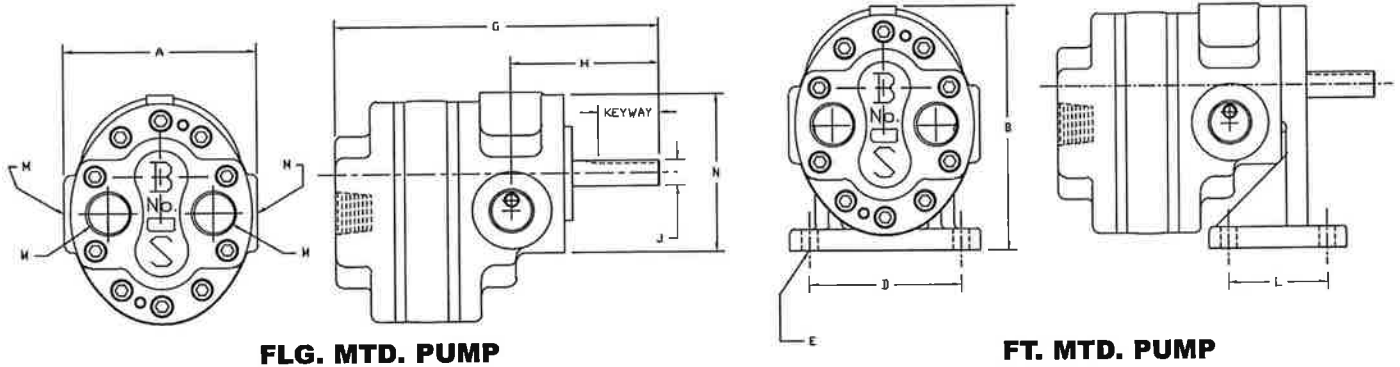
Drive Options: E-Drive (pump close coupled to motor); A-Drive (pump connected to C-Face motor with adapter bracket and coupling), D-Drive (pump coupled to motor mounted on baseplate); GR-Drive (pump coupled to gear reducer coupled to motor mounted on baseplate); B-Drive (pump and motor connected by V-belt and pulleys mounted on baseplate).

Accessories: Repair Kits; Gear Sets; Bearing Kit, and Seal Kits.

Model No.	Part No.	Description
507	001-713-507-2	BSM pump Flg Mtd CW Herringbone Gears
511	001-713-511-2	BSM pump Flg Mtd CW Herringbone Gears
517	001-713-517-2	BSM pump Flg Mtd CW Herringbone Gears
525	001-713-525-2	BSM pump Flg Mtd CW Herringbone Gears
537	001-713-537-2	BSM pump Flg Mtd CW Herringbone Gears
547	001-713-547-2	BSM pump Flg Mtd CW Herringbone Gears
557	001-713-557-2	BSM pump Flg Mtd CW Herringbone Gears
567	001-713-567-2	BSM pump Flg Mtd CW Herringbone Gears
Pump Model No.	Ordering Number	Description
No. 00	713-9000-34	Foot Mounting Bracket
Nos. 507, 508, 511, 512	713-9507-32	Foot Mounting Bracket
Nos. 517, 518, 525, 526	713-9517-33	Foot Mounting Bracket
Nos. 537, 538, 557, 558, 567	713-9537-35	Foot Mounting Bracket

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA 500-SERIES



DIMENSIONS (INCHES)

Model	A	B	C	D	E	G	H	J	K	L	M	N	O	Keyway
507	4.00	5.19	3.19	3.00	.39	7.56	3.38	5/8	3.50	2.38	3/4	3.25	5/16-18	3/16 x 3/32
511	4.00	5.19	3.19	3.00	.39	8.06	3.38	5/8	3.50	2.38	3/4	3.25	5/16-18	3/16 x 3/32
517	5.50	7.13	3.66	4.38	.47	9.25	4.25	3/4	4.75	2.88	1	4.68	7/16-14	3/16 x 3/32
525	5.50	7.13	3.66	4.38	.47	9.75	4.25	3/4	4.75	2.88	1	4.68	7/16-14	3/16 x 3/32
537	6.25	8.00	4.38	5.00	.53	10.75	4.50	1.00	5.63	3.38	1-1/2	4.68	7/16-14	1/4 x 1/8
547	6.25	8.00	4.38	5.00	.53	11.25	4.50	1.00	5.63	3.38	1-1/2	4.68	7/16-14	1/4 x 1/8
557	6.25	8.00	4.38	5.00	.53	11.75	4.50	1.00	5.63	3.38	1-1/2	4.68	7/16-14	1/4 x 1/8
567	6.25	8.00	4.38	5.00	.53	13.25	4.50	1.00	5.63	3.38	2	4.68	7/16-14	1/4 x 1/8

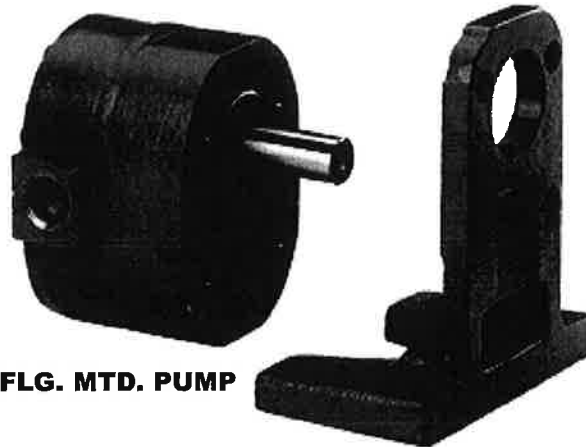
OPERATING CHARACTERISTICS

Model	Dive Speed rpm	0 psi		100 psi		200 psi		300 psi		400 psi		500 psi		1000 psi	
		gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
507	1140	5.0	.20	4.7	.50	4.4	.85	4.1	1.2	3.8	1.5	3.5	1.9	2.0	3.5
	1725	7.6	.40	7.3	.80	7.0	1.2	6.7	1.6	6.4	2.0	6.1	2.5	4.6	4.5
511	1140	7.5	.40	7.0	.80	6.7	1.2	6.3	1.6	5.9	2.0	5.5	2.5	3.5	4.6
	1725	11.1	.60	10.7	1.3	10.3	2.0	9.8	2.6	9.4	3.3	9.0	4.0	7.0	7.5
517	1140	12.0	.40	11.3	1.2	11.0	1.8	10.5	2.6	10.0	3.2	9.5	3.9	-	-
525	1140	17.0	.50	15.5	1.5	15.0	2.6	14.2	3.6	13.5	4.5	12.7	5.5	-	-
537	1140	24.5	.60	22.5	2.2	20.5	3.6	19.0	5.0	17.0	6.4	15.0	7.9	-	-
547	1140	31.1	.70	29.0	2.7	27.0	4.5	25.3	6.3	23.5	8.1	21.5	9.9	-	-
557	1140	37.5	.80	35.5	3.2	33.5	5.4	31.5	7.6	30.0	9.8	28.0	12.0	-	-
567	1140	57.9	1.20	56.0	4.9	54.0	8.3	52.1	11.7	50.2	15.1	48.3	18.5	-	-

* Delivery and input horsepower are based on liquid viscosity of 100 ssu at speed and pressures shown.

BSM ROTARY GEAR PUMPS

700-SERIES



FLG. MTD. PUMP

PUMP FOOT

The BSM 700-Series pumps are designed to provide quiet and efficient service at standard motor speeds, high pressures. Typical applications are hydraulic and metering service.

Design: Drive speeds to 1725 rpm; discharge pressures to 2000 psi; flow rate to 5.0 gpm; foot or flange mounted.

Material: Cast iron casings with precision machined, heat treated steel gears and case hardened steel shafts. Pumps are also available in Ductile Iron.

Bearings: Anti-friction needle bearings.

Seal: Lip seal.

Lubrication: Self lubricating using the pumped liquid.

Rotation: Clockwise or counter-clockwise. Specify at time of order.

Liquid Viscosities: 100 ssu to 1,000 ssu recommended. Clean liquids having good lubricating qualities.

Suction Lift: Up to 28" Hg / 31 feet depending on the type of liquid being pumped.

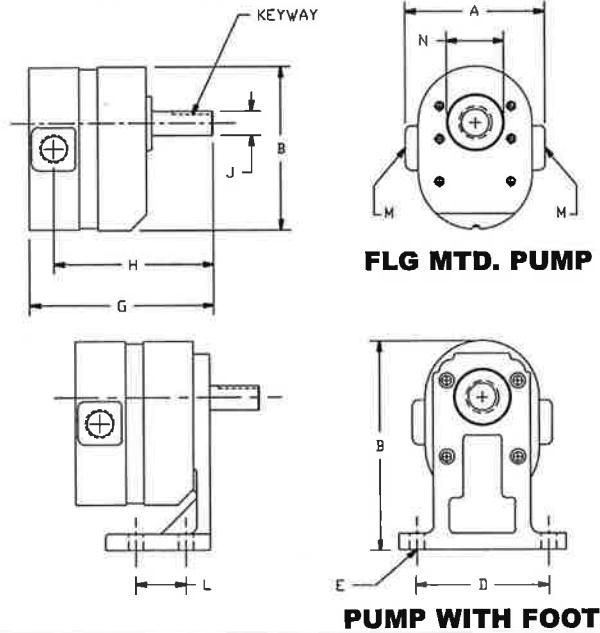
Drive Options: A-Drive (pump connected to C-Face motor with adapter bracket and coupling).

Accessories: Bearing Kit and Seal.

Model No.	Part No.	Description
705	001-713-705-2	BSM 700 series pump Flg Mtd CW Spur Gears
710	001-713-710-2	BSM 700 series pump Flg Mtd CW Spur Gears
715	001-713-715-2	BSM 700 series pump Flg Mtd CW Spur Gears
720	001-713-720-2	BSM 700 series pump Flg Mtd CW Spur Gears
730	001-713-730-2	BSM 700 series pump Flg Mtd CW Spur Gears
740	001-713-740-2	BSM 700 series pump Flg Mtd CW Spur Gears
750	001-713-750-2	BSM 700 series pump Flg Mtd CW Spur Gears
Pump Model No.	Ordering Number	Description
All 700 Series/PFGs	715-1-500-10	Foot Mounting Bracket

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA 700-SERIES



DIMENSIONS (INCHES)

Model	A	B	D	E	G	H	J	L	M	N	Keyway
705	3.19	4.81	3.00	11/32	3.84	3.27	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
710	3.19	4.81	3.00	11/32	3.95	3.38	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
715	3.19	4.81	3.00	11/32	4.05	3.47	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
720	3.19	4.81	3.00	11/32	4.14	3.56	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
730	3.19	4.81	3.00	11/32	4.34	3.77	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
740	3.19	4.81	3.00	11/32	4.55	3.97	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8
750	3.19	4.81	3.00	11/32	4.75	4.17	0.56	1.13	3/8 NPT	1.25	1/8 x 1/16 x 7/8

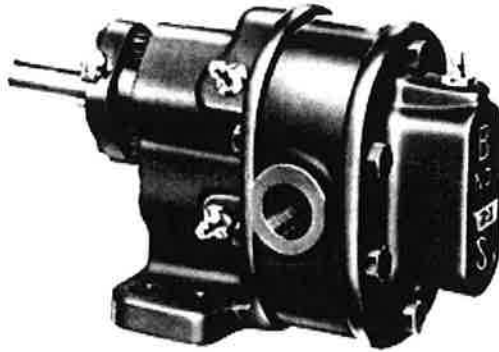
OPERATING CHARACTERISTICS

Model	Displ gpr	Slip gpm/psi	Drive Speed rpm	0 psi		500 psi		1000 psi		1500 psi		2000 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
705	.0003	.00013	1725	.50	.11	.43	.25	.37	.40	.31	.55	-	-
710	.0006	.0002	1725	1.00	.14	.90	.45	.80	.77	.70	1.12	.60	1.45
715	.0009	.0002	1725	1.50	.21	1.40	.65	1.30	1.30	1.20	1.68	1.10	2.20
720	.0012	.0002	1725	2.00	.25	1.90	.85	1.80	1.50	1.70	2.22	1.60	2.90
730	.0018	.0003	1725	3.00	.31	2.85	1.15	2.70	2.10	2.55	3.10	-	-
740	.0024	.0003	1725	4.00	.36	3.85	1.47	3.70	2.75	3.63	3.37	-	-
750	.0030	.0004	1725	5.00	.45	4.80	1.90	4.60	3.55	-	-	-	-

* Delivery and input horsepower are based on liquid viscosity of 100 ssu at speed and pressures shown.

BSM ROTARY GEAR PUMPS

BRONZE-SERIES



FT. MTD. PUMP

BSM bronze pumps are ideal for use where corrosion resistant materials are required such as providing circulation on water-jacketed engines, pumping saline solutions as well as a variety of marine and other corrosive atmosphere applications.

Design: Drive speeds to 900 rpm; discharge pressures to 100 psi; flow rate to 26.8 gpm; foot or flange mounted.

Material: All bronze construction except models 23 & 24 which are equipped with corrosion resistant stainless steel shafts.

Bearings: Plain.

Seal: Compression packing.

Lubrication: Pumps are equipped with grease fittings.

Rotation: Clockwise or counter-clockwise rotation. Either connection may be used for suction.

Liquid Viscosities: A wide range of clean or corrosive liquids.

Suction Lift: Up to 15" Hg / 17 feet depending on the type of liquid being pumped.

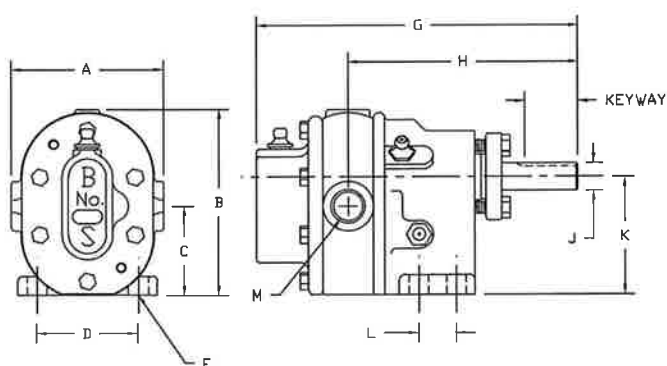
Drive Options: A-Drive (pump connected to C-Face motor with adapter bracket and coupling); D-Drive (pump coupled to motor mounted on baseplate); GR-Drive (pump coupled to gear reducer coupled to motor mounted on baseplate); B-Drive (pump and motor connected by V-belt and pulleys mounted on baseplate).

Accessories: Repair Kits; Gear Sets; and Packing.

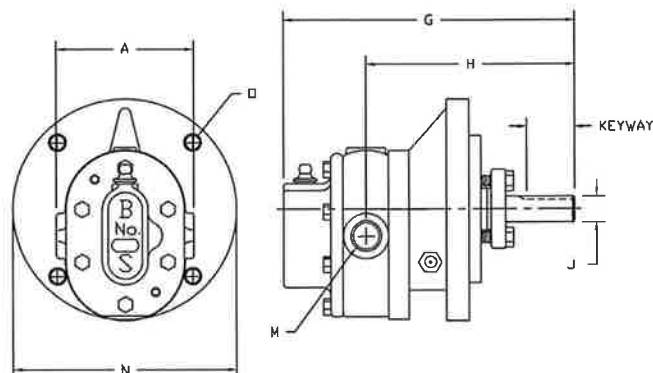
Model No.	Part No.	Description
21	001-713-21-4	BSM Bronze Pump Ft Mtd WGF WORV
21	001-713-921-4	BSM Bronze Pump Flg Mtd WGF WORV
22	001-713-22-4	BSM Bronze Pump Ft Mtd WGF WORV
22	001-713-922-4	BSM Bronze Pump Flg Mtd WGF WORV
23	001-713-23-4	BSM Bronze Pump Ft Mtd WGF WORV
23	001-713-923-4	BSM Bronze Pump Flg Mtd WGF WORV
24	001-713-24-4	BSM Bronze Pump Ft Mtd WGF WORV
24	001-713-924-4	BSM Bronze Pump Flg Mtd WGF WORV

BSM ROTARY GEAR PUMPS

DIMENSIONAL DATA BRONZE-SERIES



FT. MTD. PUMP



FLG. MTD. PUMP

DIMENSIONS (INCHES)

Model	A	B	C	D	E	F	G	H	J	K	L	M	O	Keyway
21	3.00	3.69	1.78	2.00	0.39	7.50	6.25	4.56	0.56	2.38	0.75	3/8	3/8-16	1/8 x 1/16
22	3.44	4.53	2.31	2.50	0.39	8.47	7.22	5.00	0.63	3.00	0.88	1/2	3/8-16	3/16 x 3/32
23	4.44	5.72	2.88	3.00	0.45	10.50	8.88	6.19	0.75	3.88	1.25	3/4	3/8-16	3/16 x 3/32
24	4.44	5.81	2.88	3.00	0.45	11.50	9.88	6.69	0.75	3.88	1.25	1-1/4	3/8-16	3/16 x 3/32

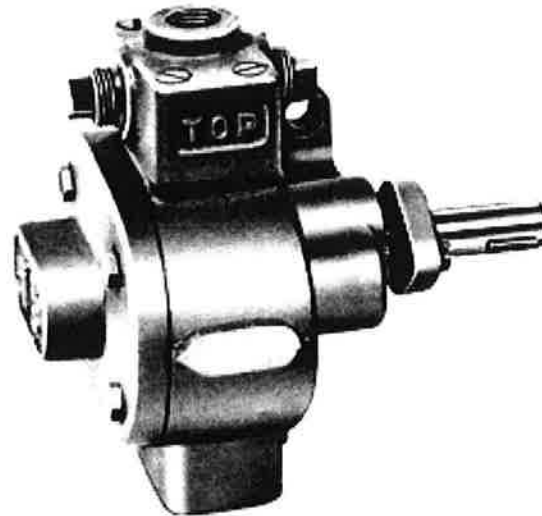
OPERATING CHARACTERISTICS

Model	Displ gpr	Slip gpm/psi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
21	.00515	.0022	300	1.5	.02	1.4	.10	1.38	.14	1.3	.18	1.1	.34
			600	3.1	.05	3.0	.20	2.93	.28	2.9	.36	2.7	.66
			900	4.6	.11	4.5	.33	4.47	.35	4.4	.54	4.2	.98
22	.01043	.0023	300	3.1	.04	3.0	.19	2.95	.26	2.9	.34	2.7	.64
			600	6.3	.07	6.1	.34	6.1	.47	6.0	.61	5.8	1.1
			900	9.4	.11	9.3	.48	9.2	.66	9.1	.85	8.9	1.5
23	.01896	.0025	300	5.7	.05	5.6	.28	5.5	.41	5.4	.54	5.2	1.1
			600	11.4	.06	11.3	.47	11.2	.71	11.1	.97	10.9	2.1
			900	17.1	.17	17.0	.83	16.8	1.2	16.8	1.5	16.5	3.2
24	.02980	.0080	300	8.9	.07	8.5	.37	8.3	.57	8.1	.80	-	-
			600	17.9	.22	17.5	.77	17.3	1.1	17.1	1.4	-	-
			900	26.8	.50	26.4	1.3	26.2	1.7	26.0	2.3	-	-

* Delivery and input horsepower are based on liquid viscosity of 300 ssu at speed and pressures shown.

BSM ROTARY GEAR PUMPS

AUTOMATIC REVERSING GEAR PUMPS



FT. MTD. PUMP

BSM Automatic Reversing Gear Pumps are designed to maintain the same direction of delivery regardless of the direction of rotation of the driving shaft. These pumps are used on machine tools and other reversing mechanisms which require a constant flow of liquid.

Design: Drive speeds to 900 rpm; discharge pressures to 200 psi; flow rate to 17.1 gpm.

Material: Cast iron casings with precision machined, heat treated gears and case hardened shafts.

Bearings: Plain.

Seal: Compression packing with adjustable gland.

Lubrication: Self lubricating using the pumped liquid. Also available for handling non-lubricating liquids.

Rotation: Vertical foot type, right hand furnished. Left hand mounting optional. Reversible. Discharge is always from the top of the pump. Top valve cover may be transposed with the bottom for left or right hand mounting on foot.

Liquid Viscosities: Liquids having good lubricating qualities are recommended.

Suction Lift: Up to 15" Hg recommended. Consult the factory for higher suction lift recommendations.

Drive Options: D-Drive (pump coupled to motor mounted on baseplate); GR-Drive (pump coupled to gear reducer coupled to motor mounted on baseplate); B-Drive (pump and motor connected by V-belt and pulleys mounted on baseplate).

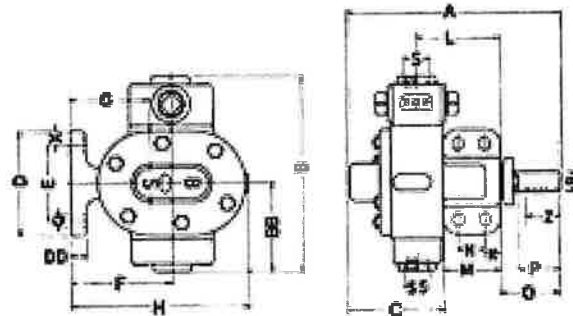
Accessories: Gear Sets; Bearing Kit, and Packing Kits.

Model No.	Part No.	Description
11	001-713-11-2	BSM Automatic Reversing RH Rotary Gear Pump
12	001-713-12-2	BSM Automatic Reversing RH Rotary Gear Pump
13	001-713-13-2	BSM Automatic Reversing RH Rotary Gear Pump

BSM ROTARY GEAR PUMPS

MODELS 11, 12, 13 AUTOMATIC REVERSING GEAR PUMPS

DIMENSIONAL DATA



DIMENSIONS (INCHES)

Model	A	B	BB	C	D	DD	E	F	G*	H	
11	6 3/16	5 1/2	2 5/16	2 5/8	2 3/4	1/2	2	2 23/32	2 1/8	5	
12	7 1/16	6 7/16	2 15/16	3 1/8	3 1/2	1/2	2 1/2	3 1/16	2 5/8	5 7/18	
13	8 15/16	8 1/16	3 1/2	4 1/2	4	3/4	3	4 1/4	3 1/4	7 7/16	
L	M	N	O	P	Q	R	S NPT	SS NPT	X	Z	Keyway
2 1/4	1 1/2	3/4	2 1/16	1 3/8	25/44	9/16	3/8	3/8	3/8	1 1/16	1/8 x 1/16
2 3/4	1 7/8	7/8	2 1/16	1 1/4	25/44	5/8	1/2	1/2	1/2	1 1/16	3/16 x 3/32
3 1/4	2 1/4	1 1/4	2 3/16	1 11/32	29/44	3/4	3/4	1 1/4	1/2	1 1/16	3/16 x 3/32

*G is distance from bottom of stand to center of drive shaft; plus or minus .005".

OPERATING CHARACTERISTICS

Model	Displmnt gals per rev.	Slip gpm/psi	Drive Speed rpm	0 psi		50 psi		75 psi		100 psi		200 psi	
				gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp
11	.00515	.0022	300	1.5	.02	1.4	.10	1.38	.14	1.3	.18	1.1	.34
			600	3.1	.05	3.0	.20	2.93	.28	2.9	.36	2.7	.66
			900	4.6	.11	4.5	.33	4.47	.35	4.4	.54	4.2	.98
12	.01043	.0023	300	3.1	.04	3.0	.19	2.95	.26	2.9	.34	2.7	.64
			600	6.3	.07	6.1	.34	6.1	.47	6.0	.61	5.8	1.1
			900	9.4	.11	9.3	.48	9.2	.66	9.1	.85	8.9	1.5
13	.01896	.0025	300	5.7	.05	5.6	.28	5.5	.41	5.4	.54	5.2	1.1
			600	11.4	.06	11.3	.47	11.2	.71	11.1	.97	10.9	2.1
			900	17.1	.17	17.0	.83	16.8	1.2	16.8	1.5	16.5	3.2

* Delivery and input horsepower are based on liquid viscosity of 300 ssu at speed and pressures shown.
 * For operating characteristics at other viscosities and pressure, consult factory.

BSM ROTARY GEAR PUMPS

Abbreviations		
WGF = w/Grease Fittings	CW = Clockwise Rotation	Ft. Mtd. = Foot Mounted
WRV = w/Integral Relief Valve	CCW = Counter Clockwise Rotation	Flg. Mtd. = Flange Mounted
WORV = w/o Integral Relief Valve		



ACCESSORIES

External Relief Valves		
Size	Part No.	Description
1/4"	001-713-9001-20	External Relief Valve
3/8"	001-713-9001-21	External Relief Valve
1/2"	001-713-9001-22	External Relief Valve
3/4"	001-713-9001-23	External Relief Valve
1"	001-713-9001-24	External Relief Valve

NOTE: The 1/4" to 3/4" relief valves are suitable for up to 100 psi.
The 1" relief valve is suitable up to 200 psi.

Strainers		
Part No.	Size (In.)	Pipe Connection
001-713-9001-11	4-5/8 x 3-1/8 x 1-7/8	3/8"
001-713-9001-12	6-1/8 x 3-5/8 x 2-3/8	1/2"
001-713-9001-13	7-1/8 x 4-5/8 x 3-1/8	3/4"

Pulleys	
Part No.	Description
001-213-1-119	Pulley for 9/16" Shaft
001-213-2-119	Pulley for 5/8" Shaft
001-213-3-119	Pulley for 3/4" Shaft

Compression Packing Kits - (4/Kit)	
Part No.	Pump Model No.
001-466-3161-4	1, 1S, 11, 21, 1SST
001-466-3162-4	2, 2S, 12, 22, 2SST
001-466-3163-4	3, 3S, 4S, 5S, 13, 23, 3SST, 4SST, 5SST

Renewable Bearings Sets - (4/Set)	
Part No.	Pump Model No.
001-713-9001-107	1, 11, 1S
001-713-9002-107	2, 12, 2S
001-713-9003-107-1	3, 4, 13, 3S, 4S, 5S
001-713-9507-107	507, 508, 511, 512

Mechanical Seal Kits	
Part No.	Pump Model No.
001-713-9010-270	1, 1S
001-713-9020-270	2, 2S
001-713-9030-270	3, 4, 3S, 4S, 5S
001-713-9507-270	502, 504, 507, 508, 511, 512
001-713-9517-270	517, 518, 525, 526
001-713-9537-270	537, 538, 547, 557, 558, 567

NOTE: Mechanical seals available w/different elastomers

BSM ROTARY GEAR PUMPS

ACCESSORIES

Adapter Brackets for Motor Driven Rotary Gear Pumps (A-Drive)

SELECTION GUIDE

Pump Model	C Face Motor Frame	Adapter Bracket
00	42C	713-00-160-1
	56C, 145TC	713-00-160
1, 2, 3, & 4	48C, 56C, 143TC, 145TC, 182C, 184C, 187AC	713-20-160
	182TC, 184TC, 213TC, 215TC	713-30-160
1S, 2S, 3S, 4S & 5S	48C, 56C, 143TC, 145TC, 182C, 184C, 187AC	713-20-160
	182TC, 184TC, 213TC, 215TC	713-30-160
1SST, 2SST, 3SST, 4SST & 4SST	48C, 56C, 143TC, 145TC, 182C, 184C, 187AC	713-20-160
	182TC, 184TC, 213TC, 215TC	713-30-160
21, 22, 23 & 24	48C, 56C, 143TC, 145TC, 182C, 184C, 187AC	713-20-160
	182TC, 184TC, 213TC, 215TC	713-30-160
53 & 55	48C, 56C, 143TC, 145TC, 182C, 184C, 187AC	713-20-160
	182TC, 184TC, 213TC, 215TC	713-30-160
502, 504, 507 & 511	56C, 143TC, 145TC,	713-507-160
	182TC, 184TC, 213TC 213TC, 215C, 215TC	713-511-160
517 & 525	56C, 66C, 143TC & 145TC	713-525-160
517, 525, 537, 547, 557 & 567	182TC, 184TC, 213TC, 215TC	713-517-160
705, 710, 715, 720, 730, 740 & 750	56C	713-700-160
	182TC, 184TC & 213TC	713-700-260

Oilfield Supplies

BSM ROTARY GEAR PUMPS

ACCESSORIES Gear Sets & Repair Kits

Pump Model Number	Gear Set Ordering Number	Repair Kit Ordering Number
00	713-9000-205	713-9000-280
1 & 11	713-9001-105	713-9001-280
2 & 12	713-9002-105	713-9002-280
3 & 13	713-9003-105	713-9003-280
4	713-9004-205	713-9004-280
1S	713-9010-205	713-9010-280
2S	713-9020-205	713-9020-280
3S	713-9030-205	713-9030-280
4S	713-9040-205	713-9040-280
5S	713-9050-205	713-9050-280
6S	713-9060-205	713-9060-280
8S	713-9080-205	713-9080-280
10S	713-9100-205	713-9100-280
12S	713-9120-205	713-9120-280
14S	713-9140-205	713-9140-280
21	713-9021-405	713-9021-280
22	713-9022-405	713-9022-280
23	713-9023-405	713-9023-280
24	713-9024-405	713-9024-280
53	713-9053-205	713-9053-280
55	713-9055-205	713-9055-280
507	713-9507-305	713-9507-280
511	713-9511-305	713-9511-280
517	713-9517-305	713-9517-280
525	713-9525-305	713-9525-280
537	713-9537-305	713-9537-280
547	713-9547-305	713-9547-280
557	713-9557-305	713-9557-280
567	713-9567-305	713-9567-280
1SST	713-9010-205-SS	713-9010-280-SS
2SST	713-9020-205-SS	713-9020-280-SS
3SST	713-9030-205-SS	713-9030-280-SS
4SST	713-9040-205-SS	713-9040-280-SS
5SST	713-9050-205-SS	713-9050-280-SS

Note: Each repair kit consists of the following components (1) housing; (1) gear set; (4) bearings; and (1) mechanical seal or (1) set of compression packing.

Renewable Bearings

Pump Model Number	Bearing Ordering Number
1, 11, & 1S	713-9001-107 (set of 4)
2, 21, & 2S	713-9002-107 (set of 4)
3, 4, 13, 3S, 4S, & 5S	713-9003-107 (set of 4)
53, & 55	423-1646 (3) 423-1647 (1)
6S	423-11 (4)
8S, & 10S	423-9 (4)
12S, & 14S	423-10 (4)
507, 508, 511, & 512	713-9507-107 (set of 4)
517, 518, 525, & 526	713-9517-107 (set of 4)
537, 538, 547, 557, 558, & 567	713-9537-107 (set of 4)
700 Series	422-39 (4)
1SST	213-1-108 (4)
2SST	213-2-108 (4)
3SST, 4SST, & 5SST	213-2-108 (4)

BSM ROTARY GEAR PUMPS

ACCESSORIES

Mechanical Seals

Pump Model Number	Mechanical Seal Ordering Number
1, & 1S	713-9010-270
2, & 2S	713-9020-270
3, 4, 3S, 4S, & 5S	713-9030-270
6S	466-137-2
8S, 10S	466-292
12S, 14S	466-143-2
502, 504, 507, 508, 511, & 512	713-9507-270
517, 518, 525, & 526	713-9517-270
537, 538, 547, 557, 558, & 567	713-9537-270
1SST	713-9010-270SST
2SST	713-9020-270SST
3SST, 4SST, 5SST	713-9030-270SST

Note: Mechanical seals available with different elastomers, contact the factory for assistance.

Lip Seals

Pump Model Number	Lip Seal Ordering Number
00	466-3948
700 series and PFG series	466-279 (Buna N)
700 series and PFG series	215-10118 (Viton)

Note: Lip Seals are available with different elastomers, contact the factory for assistance.

Compression Packing

Pump Model Number	Packing Kit Ordering Number
1, 1S, 11, 21, & 1SST	466-3161-4
	466-192 (Teflon)
2, 2S, 12, 22, & 2SST	466-3162-4
	466-193 (Teflon)
3, 3S, 4S, 5S, 13, 23, 24, 3SST, 4SST, 5SST	466-3163-4
	466-194 (Teflon)



BVA[®]

HYDRAULICS

BUILT TO LAST



BVA[®]
HYDRAULICS

SINGLE ACTING CYLINDERS

- **ISO 9001**

BVA products are manufactured through an International Quality Assurance System, ISO 9001 which involves consistent observation of administration, management, manufacturing, and production control. Under this system, the related operations are monitored on all aspects of the production of BVA products from the purchase order, the assembly line, to shipping the order from the distribution center.

- **ASME B30.1**

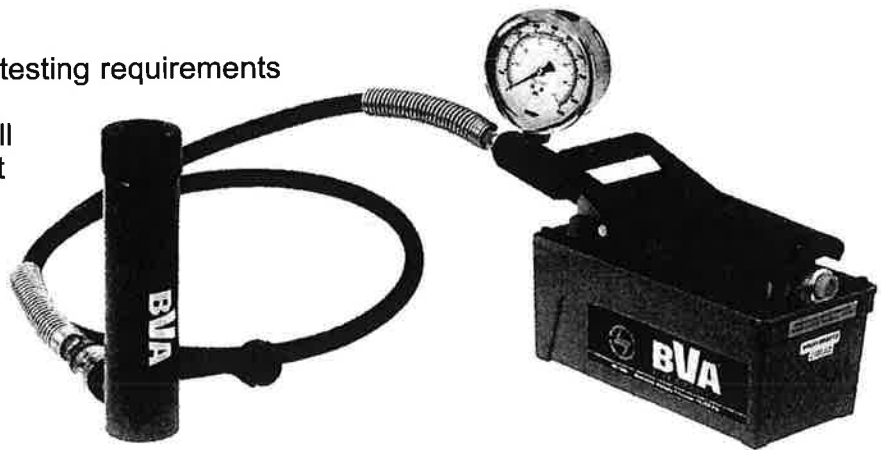
The cylinders comply with load testing requirements and / or the safety factor for material yield strength, while still functioning properly and without oil leakage.
(Except HPD and HLN series)

- **ANSI B40.1**

Under ANSI standards, BVD pressure gauges meet criteria for grade A.

- **SAE 100**

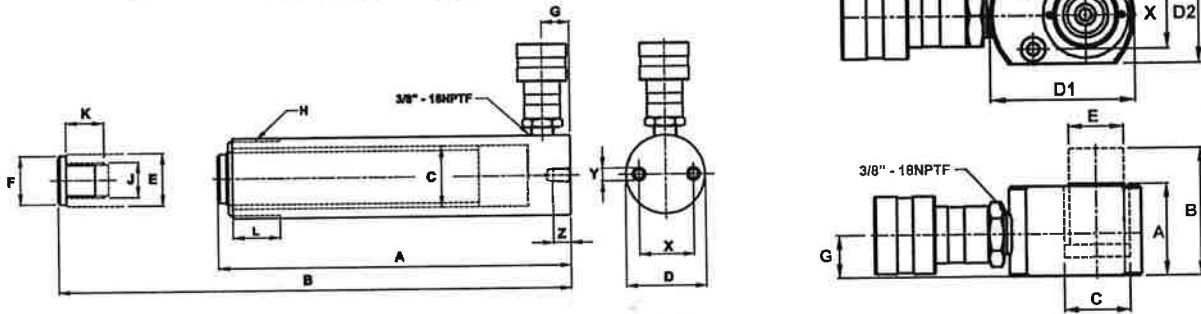
BVA hydraulic hoses comply with the Material Handling Institute's specification of minimum life cycles and minimum burst pressure rating.



BVA SINGLE ACTING CYLINDERS



- 41 Models
- Rod wiper seals out dirt and contamination
- Collar fixture threads
- Two base mounting holes on most models
- High strength steel construction from gun drilled solid bar
- Collar thread protector
- One piece high grade alloy bearing for side load protection and long life
- Polyurethane cup seal provides for optimum performance
- Industrial hard chrome plated ram helps prevent rust and corrosion
- Solid steel cylinder body
- Heavy duty return spring provides quicker retraction
- Ideal for lifting and pressing
- Maximum working pressure: 10,000 psi / 700 bar
- All cylinders* come with 3/8" NPTF High flow couplers (CH38F) except H0203



*H0500 only

The Difference

Heavy duty, heat treated, grooved saddle provides better surface traction during operation

Rod wiper seals out dirt and contamination

Industrial hard chrome plated ram prevents scratching and corrosion

One piece steel ram stopper for extra strength and prevents over travel

Polyurethane cup seal provides optimum performance

Rectangular return spring design results in even distribution of the load, eliminating spring breakage and creating quicker retraction

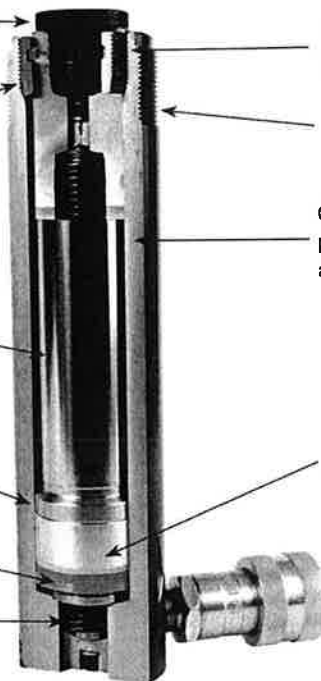
Steel stop ring for ram over travel protection

Collar fixture threads

Cylinders are burnish rolled for a smooth precision mirror finish, which reduces scoring and prolongs seal life

One piece high grade alloy bearing for side load protection and long life

High flow ball coupler provides more flow than conventional couplers



Oilfield Supplies


BVA
THE COMPANY

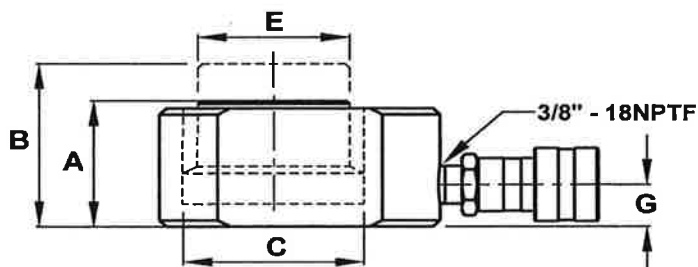
SINGLE ACTING CYLINDERS

Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Effective Area (in ²)	Internal Pressure at Capacity (psi)	Oil Capacity (in ³)	Collapsed Height A (in)	Extended Height B (in)	Cylinder Bore Diameter C (in)	Outside Diameter D (in)	Plunger Diameter E (in)	Saddle Diameter F (in)
2	3.07	H0203	0.76	10,000	2.28	5.39	8.46	6.26	1.31	0.87	1.00
5	0.63	H0500	1.10	9,901	0.69	1.61	2.24	1.18	2.36x1.58	0.98	NA
	1.00	H0501			1.00	4.58	5.58				
	3.07	H0503			3.07	6.65	9.72				
	5.08	H0505			5.08	8.70	13.78				
	7.09	H0507			7.09	10.71	17.80				
	9.09	H0509			9.09	12.72	21.81				
10	1.00	H1001	2.24	8,928	2.24	3.62	4.62	1.69	2.26	1.49	NA
	2.01	H1002			4.50	4.84	6.85				1.38
	4.02	H1004			9.00	6.85	10.87				
	5.94	H1006			13.31	9.84	15.78				
	7.95	H1008			17.81	11.85	19.80				
	9.96	H1010			22.31	13.86	23.82				
	11.97	H1012			26.81	15.87	27.84				
	14.02	H1014			31.40	17.72	31.74				
15	0.99	H1501	3.14	9,554	3.11	4.88	5.87	2.00	2.75	1.63	1.50
	2.01	H1502			6.31	5.87	7.88				
	3.98	H1504			12.50	7.87	11.85				
	5.87	H1506			18.43	10.67	16.54				
	7.87	H1508			24.71	12.68	20.55				
	9.88	H1510			31.02	14.69	24.57				
	12.01	H1512			37.71	16.65	28.66				
	14.02	H1514			44.02	18.66	32.68				
25	1.02	H2501	5.14	9,728	5.14	5.38	6.38	2.56	3.35	2.24	1.97
	2.01	H2502			10.33	6.82	8.83				
	3.94	H2504			20.25	8.78	12.72				
	5.94	H2506			30.53	10.79	16.73				
	7.95	H2508			40.86	12.80	20.75				
	9.96	H2510			51.19	14.80	24.76				
	12.24	H2512			62.91	16.73	28.97				
	14.25	H2514			73.25	18.74	32.99				
30	8.27	H3008	6.49	9,245	53.67	15.24	23.51	2.87	4.00	2.24	2.13
55	2.01	H5502	10.99	10,009	22.09	6.93	8.94	3.74	5.00	3.15	2.76
	3.98	H5504			43.74	8.94	12.92				
	6.22	H5506			68.36	11.14	17.36				
	13.27	H5513			145.84	18.15	31.42				
75	6.14	H7506	16.10	9,317	98.85	11.22	17.36	4.53	5.79	3.74	2.76
	13.11	H7513			211.07	19.37	32.48				
100	2.01	H10002A	20.57	9,723	41.34	8.62	10.63	5.12	6.25	4.13	2.76
	6.61	H10006			135.97	14.06	20.67		6.97		
	10.24	H10010			210.64	17.68	27.92				

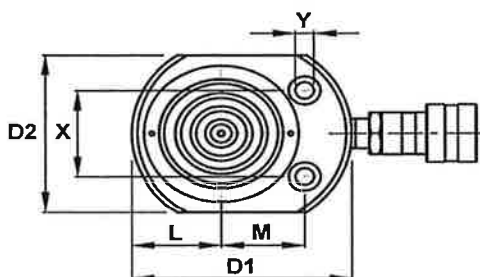
BVA FLAT BODY CYLINDERS



- Made of high quality steel
- Extremely low collapsed height for applications with minimal clearance at the lift point
- Great for areas of low clearance
- Maximum working pressure 10,000 psi / 700 bar



Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Effective Area (in ²)	Pressure at Capacity	Oil Capacity (in ³)	Collapsed Height	Extended Height	Cylinder Bore Dia.	Outside Dim.	Plunger Dia.	Base to Port	Plunger to Base	Plunger to Mfg. Hole
						A (in)	B (in)	C (in)	D1xD2 (in)	E (in)	G (in)	L (in)	M (in)
5	0.24	HF0503	1.10	9,090	0.26	1.26	1.50	1.18	2.4x1.6	0.98	0.69	0.80	0.87
10	0.43	HF1005	2.36	8,470	1.01	1.69	2.12	1.73	3.3x2.2	1.50	0.77	1.12	1.32
20	0.43	HF2005	4.38	9,130	1.88	2.01	2.44	2.36	4.0x3.0	2.00	0.75	1.54	1.56
30	0.51	HF3005	6.49	9,240	3.31	2.31	2.82	2.87	4.6x3.8	2.50	0.79	1.88	1.75
50	0.63	HF5006	9.86	10,140	6.21	2.64	3.27	3.54	4.5x4.5	2.76	0.79	2.25	2.13
75	0.63	HF7506	16.1	9,320	10.14	3.13	3.76	4.53	6.5x5.5	3.54	0.77	2.75	2.63
100	0.63	HF10006	19.64	10,180	12.37	3.37	4.00	5.00	7.0x6.0	3.54	0.79	3.00	2.94
150	0.63	HF15006	30.67	9,780	19.32	3.94	4.57	6.25	8.5x7.5	4.65	0.94	3.75	3.25



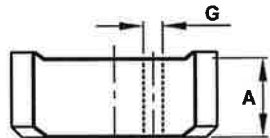
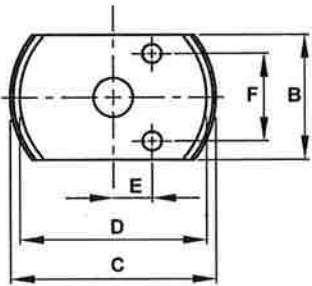
Model Number	Hole Pitch X (in)	Hole Dia Y (in)	Counter Bore Dia. (in)	Counter Bore Depth (in)	Weight (lbs)
HF0503	1.12	0.2	0.31	0.17	1.3
HF1005	1.44	0.28	0.42	0.31	3.3
HF2005	1.94	0.4	0.59	0.39	5.9
HF3005	2.06	0.4	0.63	0.44	9.7
HF5006	2.62	0.43	0.75	0.50	14.9
HF7506	3.00	0.51	0.83	0.56	25.4
HF10006	3.00	0.51	0.83	0.56	31.5
HF15006	4.62	0.51	0.83	0.56	53.4

Oilfield Supplies

BVA FLAT BODY CYLINDER KITS



- Various height magnetic adapters
- Carrying case
- Perfect for low clearance areas needing a little height boost
- Maximum working pressure: 10,000 psi / 700 bar

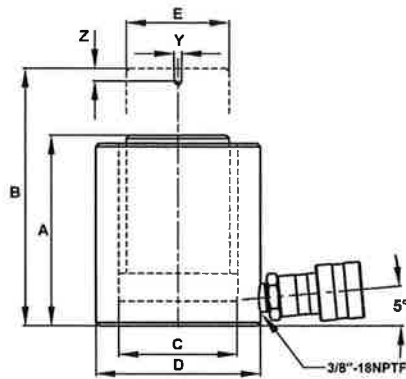


Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Model	Oil Capacity (in ³)	Collapsed Height (in)	Adapter	Adapter Dimensions							Weight (lbs)
							A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	
5	0.24	HF0503B	HF0503	0.26	1.26	I	0.25	1.61	2.56	2.32	0.48	1.10	0.24	5.5
						II	0.5							
						III	1							
						IV	1.25							
10	0.43	HF1005B	HF1005	1.02	1.69	I	0.39	2.20	3.54	3.23	0.81	1.46	0.28	9.2
						II	0.79				N/A			
						III	1.57							
20	0.43	HF2005B	HF2005	1.90	2.01	I	0.39	2.99	4.25	3.94	1.08	1.93	0.39	15.0
						II	0.79				N/A			
						III	1.57							
30	0.51	HF3005B	HF3005	3.32	2.31	I	0.39	3.75	4.76	4.45	1.32	2.06	0.39	21.0
						II	0.79				N/A			
						III	1.57							

BVA LOW PROFILE CYLINDERS

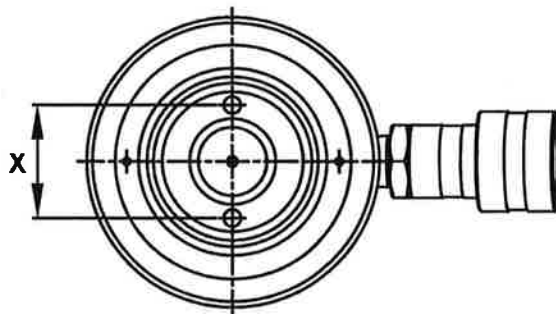


- Compact design for use in confined spaces
- Rod wiper helps seal out dirt and contamination
- Specially designed return spring ensures a quick retraction and extends the life of the spring
- Industrial hard chrome plated ram helps prevent scratching and corrosion
- Plunger end is grooved to reduce load slippage
- Includes high flow ball coupler and dust cap
- HL1001, HL2002, and HL3002 coupler is tilted upward for added clearance
- Maximum working pressure: 10,000 psi / 700 bar



Low profile cylinders are great for confined spaces

Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Effective Area (in ²)	Internal Pressure at Capacity (psi)	Oil Capacity (in ³)	Collapsed Height	Extended Height	Cylinder Bore Diameter	Outside Diameter	Plunger Diameter
						A (in)	B (in)	C (in)	D (in)	E (in)
10	1.50	HL1001	2.35	8,511	3.53	3.48	4.98	1.73	2.75	1.50
20	1.75	HL2002	4.37	9,153	7.65	3.90	5.65	2.36	3.63	2.00
30	2.44	HL3002	6.49	9,245	15.84	4.61	7.05	2.87	4.00	2.50
50	2.36	HL5002	9.87	10,132	23.29	4.8	7.17	3.54	4.88	2.76
100	2.24	HL10002	19.64	10,183	44.07	6.55	7.8	5.00	6.5	3.54



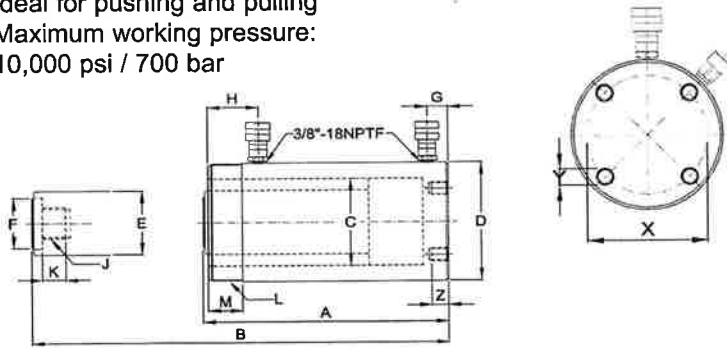
Model Number	Plunger Mounting			Weight (lbs)
	Bolt Circle	Thread	Thread Depth	
	X (in)	Y (mm)	Z (in)	
HL1001	1.03	M4	0.32	5.7
HL2002	1.56	M4		11.0
HL3002	1.56	M5		15.0
HL5002	1.56	M5	0.1	21.8
HL10002	2.19	M8		45.4

Oilfield Supplies

BVA DOUBLE ACTING CYLINDERS



- Rod wiper seals out dirt and contamination
- High strength steel construction from gun drilled solid bar
- High flow 3/8" NPTF couplers
- One piece high grade alloy bearing for side load protection and long life
- Ideal for pushing and pulling
- Maximum working pressure: 10,000 psi / 700 bar



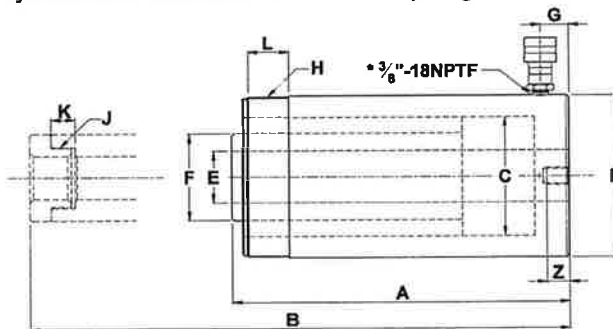
Cylinder Capacity (tons)	Stroke (in)	Model Number	Maximum Cylinder Capacity		Cylinder Effective Area		Oil Capacity		Collapsed Height	Extended Height	Cylinder Bore Dia.	Outside Dia.
			Push (ton)	Pull (ton)	Push (in ²)	Pull (in ²)	Push (in ³)	Pull (in)	A (in)	B (in)	C (in)	D (in)
10	10.04	HD1010	11.4	3.8	2.23	0.74	22.41	7.47	16.14	26.18	1.69	2.87
	11.97	HD1012					26.71	8.90	18.03	30.00		
30	8.15	HD3008	32.9	16.2	6.49	3.19	52.93	26.02	15.31	23.46	2.87	3.98
	14.49	HD3014					94.09	46.26	21.65	36.14		
55	6.18	HD5506	55.7	16.2	10.99	3.19	67.93	19.74	13.03	19.21	3.74	5.00
	13.19	HD5513					144.94	42.11	20.04	33.23		
	20.12	HD5520					221.09	64.24	28.86	49.98		
75	6.10	HD7506	81.7	25.9	16.09	5.12	98.1	31.21	13.70	19.80	4.53	5.75
	13.11	HD7513					210.93	67.06	20.71	33.82		
100	6.57	HD10006	104.4	48.6	20.57	9.58	135.23	62.98	14.06	20.63	5.12	6.97
	13.11	HD10013					269.66	125.58	20.63	33.74		
	18.15	HD10018					373.31	173.86	27.05	45.20		

Model Number	Plunge Dia.	Saddle Dia.	Base to Adv. Port	Top to Return Port	Plunger Internal Thread	Plunger Thread Length	Collar Thread	Collar Thread Length	Base Mounting Hole			Weight (lbs)
	E (in)	F (in)	G (in)	H (in)	J (in)	K (in)	L (in)	M (in)	Bolt Circle X (in)	Thread Y (in)	Thread Depth Z (in)	
HD1010	1.37	1.38	1.42	2.09	1"-8	0.98	2-1/4"-14	1.02	N/A			26.7
HD1012									N/A			30.0
HD3008	2.13	1.97	1.65	2.91	1-1/2"-16	0.98	3-5/16"-12	1.93	N/A			43.0
HD3014									N/A			60.6
HD5506	3.14	2.76	1.14	2.87	1"-12	0.98	5"-12	1.73	N/A			70.5
HD5513			2.48						N/A			104.0
HD5520			N/A						146.2			
HD7506	3.75	2.76	1.18	2.80	1"-12"	1.50	5-3/4"-12	1.50	N/A			93.7
HD7513									N/A			136.8
HD10006	3.75	2.95	1.22	2.95	1-3/4"-12	1.38	6-7/8"-12	1.97	5.47	3/4"-10	0.98	138.6
HD10013												193.6
HD10018												1.50

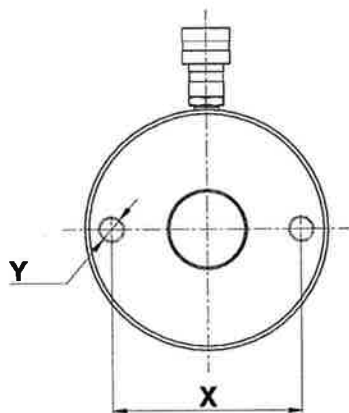
BVA HOLLOW HOLE CYLINDERS



- Minimum leak risk
- Ideal for pulling and pushing applications
- Heavy duty compression spring
- Dual wipers help prevent contamination
- Collar thread protector
- High flow coupler with dust cap
- XT cylinders do not come with internal plunger threads



Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Effective Area (in ²)	Internal Pressure at Capacity (psi)	Oil Cap. (in ³)	Min. Height A (in)	Max. Height B (in)	O.D. D (in)	Plunger			
									I.D. E (in)	O.D. F (in)	Internal Thread J (in)	Internal Thread Length K (in)
12	0.31	HC1201T	2.91	8,236	0.89	2.36	2.67	2.76	0.77	1.38	3/4"-16UN	0.63
	1.61	HC1202T			4.70	4.74	6.36					
	1.61	HC1202XT			4.70	4.74	6.36					
	2.99	HC1203XT			8.72	7.24	10.24					
20	2.01	HC2002T	4.90	8,167	9.83	6.38	8.39	3.92	1.06	2.15	1-9/16"-16UN	0.75
	6.06	HC2006T			29.70	12.05	18.11					
30	2.52	HC3002T	6.32	9,488	15.93	7.05	9.57	4.50	1.31	2.48	1-13/16"-16UN	0.87
	6.11	HC3006T			38.67	13.02	19.13					
60	3.00	HC6003T	13.05	9,195	39.10	9.77	12.77	6.25	2.13	3.66	2-3/4"-16UN	0.75
	6.00	HC6006T			78.25	12.76	18.76					
100	3.00	HC10003T	22.13	9,036	66.31	10.00	13.00	8.39	3.11	4.92	4"-16UN	0.98



Model Number	Collar Thread		Base to Inlet Port G (in)	Base Mounting Hole			Weight (lbs)
	Dia. H (in)	Lgth. L (in)		Bolt Circle X (in)	Thread Y (in)	Thread Depth Z (in)	
HC1201T	2-3/4"-16	1.81	0.57	2.00	5/16"-18UNC	0.35	3.3
HC1202T			0.59				6.2
HC1202XT			0.59				6.2
HC1203XT			0.75				8.6
HC2002T	3-7/8"-12	1.50	0.75	3.25	3/8"-16UNC	0.37	15.9
HC2006T			29.5				
HC3002T	4-1/2"-12	1.66	0.91	3.62	3/8"-16UNC	0.55	22.9
HC3006T			43.0				
HC6003T	6-1/4"-12	1.91	1.06	5.12	1/2"-13UNC	0.55	65.7
HC6006T			81.1				
HC10003T	8-3/8"-12	2.38	1.06	7.01	5/8"-11UNC	0.75	113.3