

Natural GAS



BORDER STATES
Supply Chain Solutions™

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POWERFUL NATURAL GAS SUPPLY SOLUTIONS

As you face increasing pressure from both customers and regulators, you need a supply chain solution's expertise. The natural gas utility products featured in this catalog will keep you on the cutting edge and up-to-date with the latest technology. Our customers benefit through improved processes, supplier consolidation and technical support.

FIELD-TESTED NATURAL GAS UTILITY PRODUCTS

We don't stock every product—we stock the best products. Products that get the job done, backed by dedicated personnel with real-world knowledge.

OPTIMIZE YOUR SUPPLY CHAIN

Our understanding of natural gas distribution and transmission systems enables us to provide the most comprehensive analysis of products, services and equipment available to the industry today. Our dedicated personnel work with your standards engineers to improve lead time, lower costs and allow for more readily available alternatives. This means you have fewer products to be warehoused, simplified in-house training and lowered carrying costs.

KNOWLEDGE IS POWER

We believe it's our responsibility to keep our customers current with technology in the natural gas industry. Our valve maintenance specialists provide technical knowledge, operator qualification and training in:

- » Valve maintenance classes that cover hydraulic gun maintenance, plug valves, ball valves, Department of Transportation (DOT) requirements, frozen valves, valve flushing and lubrication procedures.
- » Perform valve maintenance on below- and above-grade distribution plug valves while the valve is still in service.
- » Operator qualification on valve maintenance, which includes testing.

Natural Gas
catalog

CORROSION



In this section

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ANODES

Anodes

Used alone or in conjunction with a rectifier to cathodically protect underground systems.

- » 10' of #12 wire
- » Packaged in a cloth bag with backfill material



Mfr. Model #	Description	Weight	BSE Part #
1LB MAG	H-1 anode	1 lb	1594046
1LB MAG	High potential anode	1 lb	1672830
3LB MAG	H-1 anode	3 lbs	1594043
3LB MAG	High potential anode	3 lbs	1672828
5LB MAG	H-1 anode	5 lbs	1594041
5LB MAG	High potential anode	5 lbs	1477176
9LB MAG	H-1 anode	9 lbs	1672826
12LB MAG	H-1 anode	12 lbs	1594053
17LB MAG	High potential anode	17 lbs	1594054
17LB MAG	H-1 anode	17 lbs	1594055
32LB MAG	High potential anode	32 lbs	1594044

Drivable Magnesium Bare Anodes

Used alone or in conjunction with a rectifier to cathodically protect underground systems.

- » 3' of TW12 solid copper wire; 45° angle drive point
- » Bare driveable anode; Stainless steel connector
- » UHMW polyethylene drive cap



Mfr. Model #	Description	Length	Diameter	BSE Part #
90005	1/2# anode with 3' lead	13-1/2"	0.84"	1672853
90005C	1/2# anode with 3' lead and clip	13-1/2"	0.84"	1672852
90010	1# anode with 3' lead	27"	0.84"	1672851
90010C	1# anode with 3' lead and clip	27"	0.84"	1672849
90015-3/D	1-1/2# anode with 3' lead	18"	1.315"	1672847
90015C-3/D	1-1/2# anode with 3' lead and clip	18"	1.315"	1672846

Handy Cap IP

Exothermic weld grounding connection that provides quick, field-applied corrosion protection to anodes and test lead wire welds on metal pipe and tanks.

- » No liquid primer needed
- » Utilizes tapecoat gray adhesive, ideal for keyhole applications



Mfr. Model #	Size	BSE Part #
285HC-IP-20	4 x 4"	1671766

Handy Cap Tool

Tool used in application of Handy Cap and Handy Cap IP.

- » Ideal for keyhole applications



Mfr. Model #	BSE Part #
285HC-IPP	2074069

Test STATIONS

Big Fink Cathodic Protection Test Stations

High strength, maintenance free terminal for monitoring electric currents and potentials.

- » Accommodates COTTShunt®, slide resistors, rheostats, COTTMeter®, Burndy Connectors, Cott bonding/shorting straps, Banana jacks, ZAP Gard®, locking devices, lightning surge arresters, flange mounting brackets and gas valves
- » Anchor holes drilled; Up to 11 terminals available
- » Reducer needed for 2" and below
- » Standard length 6', available to 40'
- » Available in orange, yellow, green, white, black, red, blue and purple



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
300-B5-WHITE	3"	No	2073971
300-B5-YELLOW	3"	No	1672934
300-B5-ORANGE	3"	No	2073969
300-B5-BLUE	3"	No	2073974
300-B5-GREEN	3"	No	2073970
300-B5-RED	3"	No	2073973
300-B5-PURPLE	3"	No	2073975
300-B5-BLACK	3"	No	2073972
300-B5C-WHITE	3"	Yes	1672937
300-B5C-Y/Y	3"	Yes	1477174
300-B5C-ORANGE	3"	Yes	2073976
300-B5C-BLUE	3"	Yes	2073979
300-B5C-GREEN	3"	Yes	2073977
300-B5C-R/R-LD	3"	Yes	1579280
300-B5C-PURPLE	3"	Yes	2073980
300-B5C-BLACK	3"	Yes	2073978
300-B6C-YELLOW	3"	Yes	1672933
300-B8F-YELLOW	3"	No	1671923

Little Fink Cathodic Protection Test Stations

Test station that is a 2 or 3 lead version of the Big Fink.

- » Accommodates COTTShunt, Burndy connectors, Cott bonding/shorting straps, Banana Jacks, locking arresters and flange mounting brackets
- » Standard nickel-plated brass or stainless steel terminals
- » Available in orange, yellow, green, white, black, red, blue and purple
- » Anchor holes drilled; Up to 3 terminals available
- » Standard length 6', available to 40'
- » Available in models to fit 3/4" and 1-1/4" pipe



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
075-B2-WHITE	3/4"	No	2073983
075-B2-YELLOW	3/4"	No	1673016
075-B2-ORANGE	3/4"	No	2073981
075-B2-BLUE	3/4"	No	2073986
075-B2-GREEN	3/4"	No	2073982
075-B2-RED	3/4"	No	2073985
075-B2-PURPLE	3/4"	No	2073987
075-B2-BLACK	3/4"	No	2073984
125-B2-WHITE	1-1/4"	No	2073990
125-B2-YEL	1-1/4"	No	1671753
125-B2-ORANGE	1-1/4"	No	2073988
125-B2-BLUE	1-1/4"	No	1681233
125-B2-GREEN	1-1/4"	No	2073989
125-B2-RED	1-1/4"	No	2073992
125-B2-PURPLE	1-1/4"	No	2073993
125-B2-BLACK	1-1/4"	No	2073991
075-B2C-WHITE	3/4"	Yes	2073997
075-B2C-YEL	3/4"	Yes	1671773
075-B2C-ORANGE	3/4"	Yes	2073994
075-B2C-BLUE	3/4"	Yes	2073999
075-B2C-GREEN	3/4"	Yes	2073996
075-B2C-RED	3/4"	Yes	2073998
075-B2C-PURPLE	3/4"	Yes	2074000
075-B2C-BLACK	3/4"	Yes	2073995
125-B2C-WHITE	1-1/4"	Yes	2074003
125-B2C-Y/Y	1-1/4"	Yes	1673007
125-B2C-ORANGE	1-1/4"	Yes	2074001
125-B2C-B/BLUE	1-1/4"	Yes	2074006
125-B2C-GREEN	1-1/4"	Yes	2074002
125-B2C-RED	1-1/4"	Yes	2074005
125-B2C-PURPLE	1-1/4"	Yes	2074007
125-B2C-BLACK	1-1/4"	Yes	2074004

Flush Fink Cathodic Protection Test Stations

Monitors electric currents and potentials.

- » Accommodates COTTShunt, Slide Resistors, Rheostats, COTTMeters, Burndy connectors, Cott bonding/shorting straps, Banana jacks, ZAP Gard, locking devices, and lightening arresters
- » Patented "Bell Jar" design keeps test leads dry even when the enclosure is covered by flood water
- » Fits 4" schedule 40 pipe
- » Standard length 6', available to 40'
- » Dimensions: 5-1/2" diameter; by 8" high



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
400-B5-WHITE	4"	No	2073956
400-B5-YELLOW	4"	No	2073954
400-B5-ORANGE	4"	No	2073953
400-B5-GREEN	4"	No	2073955
400-B5-BLUE	4"	No	2073959
400-B5-RED	4"	No	2073958
400-B5-PURPLE	4"	No	2073960
400-B5-BLACK	4"	No	2073957
400-B5C-WHITE	4"	Yes	2073964
400-B5C-YELLOW	4"	Yes	2073962
400-B5C-ORANGE	4"	Yes	2073961
400-B5C-BLUE	4"	Yes	2073967
400-B5C-GREEN	4"	Yes	2073963
400-B5C-RED	4"	Yes	2073966
400-B5C-PURPLE	4"	Yes	2073968
400-B5C-BLACK	4"	Yes	2073965

Don't forget to order
TRACER WIRE
Check out page 28



NOTES

CORROSION

Street Fink Cathodic Protection Test Stations

Cathodic protection test station that is a nonconductive, high capacity, flush mounted and below grade terminal that is used to conveniently monitor electrical currents and potentials associated with all types of underground piping, cables and other metallic structures.

- » Accommodates COTTShunt, Slide Resistors, Rheostats, COTTMeters, Burndy connectors, Cott bonding/shorting straps, Banana jacks, ZAP Gard, locking devices and lightening arresters
- » Designed for use in troublesome locations where water, street traffic and other adverse conditions exist
- » 7-3/4" diameter x 5" height fits 6" schedule 40 pipe
- » Standard length 6', available to 40'



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
406-B5-WHITE	6"	No	2073942
406-B5-YELLOW	6"	No	1672911
406-B5-ORANGE	6"	No	2073940
406-B5-BLUE	6"	No	2073944
406-B5-GREEN	6"	No	2073941
406-B5-RED	6"	No	2073943
406-B5-PURPLE	6"	No	2073945
406-B5-BLACK	6"	No	1671951
406-B5C-WHITE	6"	Yes	2073948
406-B5C-YELLOW	6"	Yes	1672912
406-B5C-ORANGE	6"	Yes	2073946
406-B5C-GREEN	6"	Yes	2073947
406-B5C-BLUE	6"	Yes	2073951
406-B5C-RED	6"	Yes	2073950
406-B5C-PURPLE	6"	Yes	2073952
406-B5C-BLACK	6"	Yes	2073949

Shunt Cathodic Protection Circuit Components

Makes it possible to measure cathodic protection currents and potentials with the highest degree of accuracy, reliability and ease.

- » Standard 1/4" holes on 1" center fits all fink brank cathodic protection test stations
- » Circuit board made of makrolon polycarbonate
- » Color coded for easy value recognition



Mfr. Model #	Resistance	Color	Ampere Rating	BSE Part #
ACC-SH-0008	0.1 Ohm	Red	2 A	2073862
ASS-SH-0009	0.01 Ohm	Yellow	8 A	1671925
ACC-SH-0010	0.001 Ohm	Orange	25 A	2073863

Fink Plate 702 and 703 Cathodic Protection Test Stations

Maintenance free terminals for monitoring electric currents and potentials as well as housings for surge arresters, lightning arresters, shunts, resistors, gas valves, ground bonds, talk terminals and pressure monitors.

- » Made of high strength polycarbonate
- » Up to 4 terminals available



Mfr. Model #	Pipe Size	BSE Part #
775-00P-WHITE	3/4"	2073870
775-00P-YELLOW	3/4"	2073866
775-00P-ORANGE	3/4"	2073864
775-00P-BLUE	3/4"	2073876
775-00P-GREEN	3/4"	2073868
775-00P-RED	3/4"	2073874
775-00-PURPLE	3/4"	2073878
775-00-BLACK	3/4"	2073872
710-00P-WHITE	1"	2073871
710-00P-YELLOW	1"	2073867
710-00P-ORANGE	1"	2073865
710-00P-BLUE	1"	2073877
710-00P-GREEN	1"	2073869
710-00P-RED	1"	2073875
710-00-PURPLE	1"	2073879
710-00P-BLACK	1"	2073873

FatFink Terminal Enclosure

- » Protects all cathodic protection circuits and the sophisticated instruments used with steel corpin finkprobes
- » Made from high strength, maintenance free polycarbonate alloy
- » Fits all 6" diameter pipe
- » Cathodic protection test station



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
600-B11-WHITE	6"	No	2073898
600-B11-YELLOW	6"	No	2073894
600-B11-ORANGE	6"	No	2073908
600-B11-BLUE	6"	No	2073904
600-B11-GREEN	6"	No	2073896
600-B11-RED	6"	No	2073902
600-B11-PURPLE	6"	No	2073906
600-B11-BLACK	6"	No	2073900



Finklet Cathodic Protection Test Stations

Cathodic protection test stations used to monitor electrical currents and potentials.

- » Available in models to fit 3/4" and 1" pipe and E27 or E37 Condulet bodies
- » Standard nickel-plated brass or optional stainless steel connection
- » Up to 4 terminals



Mfr. Model #	Pipe Size	Conduit Included	BSE Part #
775-B2A-WHITE	3/4"	No	2073912
775-B2A-YELLOW	3/4"	No	2073910
775-B2A-ORANGE	3/4"	No	2073909
775-B2A-BLUE	3/4"	No	2073915
775-B2A-GREEN	3/4"	No	2073911
775-B2A-RED	3/4"	No	2073914
775-B2A-PURPLE	3/4"	No	2073916
775-B2A-BLACK	3/4"	No	2073913
710-B2A-WHITE	1"	No	2073919
710-B2A-YELLOW	1"	No	1671776
710-B2A-ORANGE	1"	No	2073917
710-B2A-BLUE	1"	No	2073922
710-B2A-GREEN	1"	No	2073918
710-B2A-RED	1"	No	2073921
710-B2A-PURPLE	1"	No	2073923
710-B2A-BLACK	1"	No	2073920
775-B2AC-WHITE	3/4"	Yes	2073927
775-B2AC-YELLOW	3/4"	Yes	2073925
775-B2AC-GREEN	3/4"	Yes	2073926
775-B2AC-BLUE	3/4"	Yes	2073930
775-B2AC-RED	3/4"	Yes	2073929
775-B2AC-PURPLE	3/4"	Yes	2073931
775-B2AC-BLACK	3/4"	Yes	2073928
710-B2AC-WHITE	1"	Yes	2073935
710-B2AC-YELLOW	1"	Yes	2073933
710-B2AC-ORANGE	1"	Yes	2073932
710-B2AC-BLUE	1"	Yes	2073938
710-B2AC-GREEN	1"	Yes	2073934
710-B2AC-RED	1"	Yes	2073937
710-B2AC-PURPLE	1"	Yes	2073939
710-B2AC-BLACK	1"	Yes	2073936

Test Station

Cathodic test station that monitors electric currents and potentials.

- » 11 terminals; Cast aluminum body
- » Double box/single hub
- » Slip fit

Gerome Electric, Inc.



Mfr. Model #	Pipe Size	BSE Part #
2005	2"	1595258

Tapes and

COATINGS

Gray Tape

Cold applied tape that protects from corrosion of above and below ground pipelines, girth welds and fittings.

- » Used in pipe having coal tar, asphalt, polyethylene or epoxy mill coatings
- » Aggressive bond to steel and other metal substrates
- » Excellent resistance to cathodic disbondment
- » Adhesive has integrated primer
- » Suffix SW is shrinkwrap
- » No VOC emissions



Mfr. Model #	Length	Width	Thickness	Series	BSE Part #
211021G	75'	2"	35 mil	H35	1477314
211021G-SW	75'	2"	35 mil	H35	1595205
211041G	75'	4"	35 mil	H35	1595202
211041G-SW	75'	4"	35 mil	H35	1595201
211061G	75'	6"	35 mil	H35	1595199
211121G	75'	12"	35 mil	H35	1595197
209021G	50'	2"	50 mil	H50	1595215
209041G	50'	4"	50 mil	H50	1595213
209061G	50'	6"	50 mil	H50	1595211

CT Cold Applied Tape Coating

Cold-applied tape, appropriate for coating small to moderate size pipe with a single layer.

- » Coats small to moderate size pipe with a single layer
- » Ambient temperature below grade application
- » 7 mil polyethylene film backing, 28 mils of adhesive



Mfr. Model #	Length	Width	Thickness	BSE Part #
205021-75	75'	2"	35 mil	1595229
205041-75	75'	4"	35 mil	1595227
205061-75	75'	6"	35 mil	1595226

Black H-30 Tape with Integrated Primer

Cold applied tape used in the protection from corrosion of above and below ground pipelines.

- » Used in pipe having coal tar, extruded polyethylene, FBE, 3 layer systems, coal tar and urethane plant coatings
- » Applied over a wide range of ambient temperatures
- » Primer integrated into tape
- » Maximum operating temperature: 120° F
- » Protection of most metal surfaces



Mfr. Model #	Length	Width	Thickness	Color	BSE Part #
211021	75'	2"	30 mil	Black	1595208
211061	75'	6"	30 mil	Black	1595200

Gray Moldable Sealant

This moldable sealant is a specially formulated, 100% solids, conformable water tight coating. It's tape form allows for greater surface coverage in a single application and provides water tight coating for sealing aluminum, steel, fiberglass and plywood.

- » Adhesion: 165 oz/in width
- » Application temp: Above -10° F
- » Flexibility: 1/2" radius at -20° F
- » Never becomes brittle or cracks



Mfr. Model #	Length	Width	Thickness	BSE Part #
232021	50'	2"	60 mil	1595163
232041	50'	4"	60 mil	1595162
232061	50'	6"	60 mil	1595161

TC GPE Gray Repair Tape

In addition to use on tarps and geo-membranes, this tape can be used for wrapping small diameter pipe, tees and other irregular configurations below grade.

- » The high degree of conformity makes this tape ideal for seaming, sealing, and repairing geo-membranes
- » Bacteria-resistance: excellent
- » Peel adhesion: 20#/inch width



Mfr. Model #	Length	Width	Thickness	BSE Part #
235021GPE	25'	2"	65 mil	1595159
235041GPE	25'	4"	65 mil	1595157
235061GPE	25'	6"	65 mil	1595156

M50 RC Gray Tape

Cold-applied coating in mesh-backed tape form for use in high temperature, soil stress pipeline.

- » Protect above and below ground pipe, pipe type cable, girth welds, fittings, tanks, insulated steam lines, and other metal surfaces from corrosion and electrolysis
- » Composed of a specifically formulated MAF backing and a synthetic elastomeric temperature-resistant coating
- » Application temp: -30 – 185° F (-35 – 85° C)
- » Dielectric strength exceeds 12 kV
- » Mesh backing resists stretching or deforming

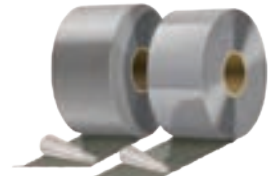


Mfr. Model #	Length	Width	Thickness	BSE Part #
256027G	50'	2"	50 mil	1595101
256047G	50'	4"	50 mil	1595096
256067G	50'	6"	50 mil	1595095

6025 Gray Tape

Cold-applied coating in tape form for use in high temperature pipeline. May be applied to new pipelines and to pipelines in service operating at elevated temperatures.

- » Protects above and below ground pipe, pipe type cable, girth welds, fittings, tanks, insulated steam lines and other metal surfaces from corrosion and electrolysis
- » Composed of MAF backing
- » Temperature-resistant coating



Mfr. Model #	Length	Width	Thickness	BSE Part #
251021G	100'	2"	30 mil	2074072
251041G	100'	4"	30 mil	1595119
251061G	100'	6"	30 mil	1595118

Glas-Wrap Tape Fiberglass Fabric Mesh

Open weave fiberglass fabric mesh used to reinforce Royston Roskote cold applied mastics and to protect against mechanical abrasion.

- » Used for patching damaged areas of coated pipe, underground tanks, fittings and irregularly shaped metal structures.
- » Provides underground protection of the welded joints of mil coated pipe
- » Unaffected by long exposure to varying climatic conditions
- » Unaffected by heat and cold



Mfr. Model #	Width	Length	Thickness	BSE Part #
42112-040I	4"	300'	1.6 mil	1593834
42113-060I	6"	300'	1.6 mil	2243759
42114-090I	9"	300'	1.6 mil	2243760
42115-120I	12"	300'	1.6 mil	2243761

Greenline Tape

Cold applied tape with a flexible plastic backing and an elastomeric adhesive designed for ambient temperature below grade application.

- » Operating temperature: -40 – 165° F
- » Used for wrapping underground pipelines, joints, valves and fittings



Mfr. Model #	Width	Length	Thickness	BSE Part #
285GL2	2"	50'	35 mil	1593828
285GL4	4"	50'	35 mil	1593827
285GL6	6"	50'	35 mil	1593826



125 Tac Tape Elastomeric Adhesive

A moldable synthetic elastomeric adhesive that is specially formulated with different degrees of tack and pliability to accommodate particular application needs such as sealant, caulking insulation or waterproofing.

- » Compatible with Royston Roybon 747



Mfr. Model #	Length	Width	Thickness	BSE Part #
285C-125	10'	2"	125 mil	1477219
33305-040I	10'	4"	125 mil	2243758

20 Hot-Applied Tape

Hot applied 58 mil coal tar tape for ambient temperature below grade application. Designed to protect buried metal surfaces from underground corrosion and electrolysis.

- » Surfaces include coating pipe, girth welds, fittings, couplings, tanks, cable, conduit and tie rods
- » Apply with the use of a propane torch or other suitable heating device
- » Resistant to thermal expansion, impact and abrasion
- » Companion primer: TC OMNIPRIME



Mfr. Model #	Length	Width	Thickness	BSE Part #
200021	75'	2"	58 mil	1477363
200031	75'	3"	58 mil	1595270
200041	75'	4"	58 mil	1476999
200061	75'	6"	58 mil	1477245
200081	75'	8"	58 mil	1595267
200121	75'	12"	58 mil	1595262
200181	50'	18"	58 mil	1595260

TC Envirotape Cold Applied Tape

70 mil petrolatum blend, wax saturated fiber tape appropriate for coating dry or wet surfaces; particularly suited for coating fittings, flanges, valves, mechanical couplings and other irregular configurations.

- » For ambient to 300° F temperature application



Mfr. Model #	Length	Width	Thickness	BSE Part #
269046	25'	2"	70 mil	1595094
269055	25'	4"	70 mil	1595097
269066	25'	6"	70 mil	1595098

Quick Seal Tape Cold Applied Outerwrap

Cold applied pressure sensitive pipe wrap.

- » Designed for wrapping steel pipe, joints, fittings, and valves
- » For below ground corrosion protection



Mfr. Model #	Width	Length	Thickness	BSE Part #
31170-020I	2"	50'	35 mil	1671795
31170-040I	4"	50'	35 mil	1671796
31170-060I	6"	50'	35 mil	1671797

Butyl 20 Tape Protective Outerwrap

UV-resistant protective pipeline tape used as a protective outerwrap for Denso Petrolatum Tapes

- » Cold applied, impact resistant, excellent adhesion properties
- » Available in white rolls
- » Siliconized interleaving



Mfr. Model #	Length	Width	BSE Part #
BUTYL-20-2	100'	2"	1557394
BUTYL-20-4	100'	4"	1557393
BUTYL-20-6	100'	6"	2074008

Poly-Wrap

Used as an outerwrap for Denso Petrolatum Tape Systems for straight pipe and irregular fittings and valves.

- » Made of high performance metallocene resins
- » Superior holding force, high dielectric strength
- » Prestretch up to 250%



Mfr. Model #	Length	Width	Thickness	BSE Part #
POLYWRAP-6	550'	6"	1.5 mils	1751444

Utility tape

Plasticized polyvinyl chloride sheeting coated on one side with a rubber resin, pressure sensitive adhesive.

- » Spirally wrapped using a minimum 1" overlap on all applications
- » Easy to apply, cold applied, impact resistant
- » Above or below ground use



Mfr. Model #	Length	Width	BSE Part #
UTILITY-TAPE-2	100'	2"	2595509
UTILITY-TAPE-4	100'	4"	2595510

Color Tape Primer-Integrated Color Petrolatum Tape

Provides long term corrosion protection to wet or dry pipes, flanges, valves and related surfaces.

- » Easy application from arctic to tropical temperatures, no primer required
- » Applied to marginally prepared surfaces (SSPC SP 2-3)
- » Not effected by water, acid, salts or soil organics
- » Conforms to irregular shapes and profiles
- » Ready for immediate service after application
- » Encapsulation of lead paint
- » Meets AWWA C217 Standard



Mfr. Model #	Length	Width	BSE Part #
COLORTAPE2	25'	2"	1672760
COLORTAPE4	25'	4"	1671763
COLORTAPE6	25'	6"	1593905
COLORTAPE8	25'	8"	1672759
COLORTAPE12	25'	12"	2073834

Butyl 35 Tapes

Heavy-duty polyethylene backed with a butyl rubber adhesive.

- » Excellent adhesion to pipe and self and resistant to cathodic disbonding
- » Good conformability and consistent uniform thickness
- » Easily applied with no special equipment
- » Compatible with common pipe coatings
- » Meets AWWA C209 Standard
- » Resistant to UV



Mfr. Model #	Length	Width	BSE Part #
BUTYL-35-2	50'	2"	2465345
BUTYL-35-4	50'	4"	2581677
BUTYL-35-6	50'	6"	2595505
BUTYL-35-12	50'	12"	2570021

Densotherm Tape Bituminous Tape

Hot applied tape that offers protection above or below ground for pipes, fittings, welds and bends.

- » Excellent adhesion to pipe and self and resistant to cathodic disbonding
- » Compatible with common pipe coatings
- » Good conformability, impact resistant



Mfr. Model #	Length	Width	Thickness	BSE Part #
DENSOTHERM-TAPE-2	50'	2"	80 mil	1557397
DENSOTHERM-TAPE-4	50'	4"	80 mil	1557396
DENSOTHERM-TAPE-6	50'	6"	80 mil	1557395
DENSOTHERM-TAPE-8	50'	8"	80 mil	2073837

Low Temperature Petrolatum Tape

Provides long term corrosion protection to pipes, flanges, valves and related surfaces.

- » Easy application from arctic to tropical temperatures, applied to marginally prepared surfaces (SSPC SP 2-3)
- » Conforms to irregular shapes and profiles
- » Not effected by water, acid, salts or soil organics
- » Ready for immediate service after application
- » Encapsulation of lead paint
- » Meets AWWA C217 Standard
- » Contains no solvents



Mfr. Model #	Length	Width	BSE Part #
LT-TAPE-2	33'	2"	1672756
LT-TAPE-4	33'	4"	1593904
LT-TAPE-6	33'	6"	1672755
LT-TAPE-8	33'	8"	2074015
LT-TAPE-12	33'	12"	1672757

Cold-Applied Bituminous Coating

A high build cold applied liquid bituminous coating.

- » Provides corrosion protection on buried pipe, flanges, valves and underground storage tanks
- » Applied with brush, roller or spray
- » Does not shield cathodic protection
- » Single Component, self-priming
- » VOC compliant



Mfr. Model #	Container Size	BSE Part #
B-MASTIC-1GAL	1 gal	1672763
B-MASTIC-5GAL	5 gal	1672762

Glass Outerwrap Protective Fiberglass Outerwrap

Offers exceptional mechanical and impact strength for underwater, underground and above ground pipe and piles

- » Minimal surface preparation, can be applied underwater or to wet surfaces
- » Quick, long term protective coating, ready for immediate service
- » Easy to apply, no mixing or messy clean up
- » Resistant to water, acid, salts or soil organics
- » Resists cold and hot temperatures
- » Contains no solvents



Mfr. Model #	Length	Width	BSE Part #
GLASS-OUTERWRAP-3	9'	3"	2073835
GLASS-OUTERWRAP-4	30'	4"	1672754
GLASS-OUTERWRAP-8	40'	8"	2073836



Protal 7000 Pipeline Coating

A VOC free, 100% solids epoxy coating specially formulated to compliment FBE coated pipelines. It is a high build liquid coating that is hand applied in one coat to many areas during pipeline construction in the field or shop.

- » Fast cure, can be applied with brush or roller
- » Excellent adhesion (compliments FBE coated pipe)
- » High abrasion resistance for drilling applications
- » Safe and environmentally responsible
- » Does not shield cathodic protection



Mfr. Model #	Container	Description	BSE Part #
PROTAL-7000	1 liter	-	2456728
PROTAL-7000-B	-	Part B only	2463200

M65RCG Gray Pads Cold Applied Repair Patch

Used for easy application as a protective coating on small holidays wire splices and thermite welds.

- » Made with a polypropylene mesh fiber backing
- » Pressure sensitive adhesive
- » Shrinkwrapped 3 packs with 25 pads
- » Standards: AWWA C 20



Mfr. Model #	Pad Width	Pad Length	Package Quantity	BSE Part #
257006G	6"	6"	75	1595093

Poly-Ply™

Provides a mechanical and electrical barrier over graycoat while remaining flexible.

- » High dielectric strength
- » Conforms to irregular shapes
- » Resistant to chemicals and bacteria
- » Will not deteriorate



Mfr. Model #	Length	Width	Thickness	Dielectric Strength	BSE Part #
PP06	50'	6"	1.5 mils	2000 V/mil	2467471

Protal Applicator Pads



Mfr. Model #	Pad Width	Pad Length	BSE Part #
PROTAL-APPLICATOR-PAD	2-1/2"	5-1/2"	1672753

Protal 7125 Repair Cartridge

Fast cure, low temperature pipeline coating. Specially formulated for patching and repairing damaged FBE and other liquid coated pipelines.

- » Cold temperature application down to -4°F (-20°C)
- » Does not shield cathodic protection
- » Excellent adhesion (compliments FBE coated pipe)
- » High abrasion-resistance for drilling applications
- » High build (in one coat)
- » No shut downs necessary
- » Will cure when submersed in water
- » Will not freeze



Mfr. Model #	Container Size	BSE Part #
PROTAL-7125	800.00 mL	2417648
PROTAL-7125	825.00 mL	1672748

Protal Cartridge Guns

400 mL and 50 mL guns available.



Mfr. Model #	Description	BSE Part #
PROTAL-GUN-50	50 ml cartridge gun	2023657
PROTAL-GUN-400	400 ml cartridge gun	2023656
PROTAL-GUN-800	800 ml cartridge gun	Call

EPOXIES

TC 7100 Wet Bond Epoxy

Surface tolerant epoxy developed for coating metal and concrete above and below fresh water line. Coating can be applied underwater for the repair of damaged coatings on steel transmission pipes, steel concrete and sheet pilings.

- » 100% solids content
- » An environment-friendly two component material



Mfr. Model #	Container Size	BSE Part #
278PTM	1 pt	1595075
278QM	1 qt	1595074
278G	1 gal	1595077

TC 7000 High Temperature Epoxy

Can be used as a one coat wet or dry primer with Tapecoat hot and cold applied tapes.

- » Can be applied as a stand alone coating for use on metal surfaces.
- » Offers exceptional flowability with self leveling attributes
- » Replaces VOC base primers
- » Used above or below ground



Mfr. Model #	Container Size	BSE Part #
280PT	2 pt	1594923
280Q	1 qt	1594922
280G	1 gal	1594925

Protal ST Surface Tolerant Liquid Epoxy

Providing protection from long term exposure to water.

- » Used wherever steel grid blasting is not possible
- » Good flexibility, hardness and adhesion
- » Good impact-resistance
- » Good resistance to acids and alkalis
- » High solids
- » Low VOCs
- » Fast drying



Mfr. Model #	Container Size	BSE Part #
PROTAL-ST-EPOXY-MASTIC-1/2GAL	1/2 gal	1672745
PROTAL-ST-EPOXY-MASTIC-1GAL	1 gal	2073833

Mastics and PRIMERS

TC Mastic Coal Tar Coating

Appropriate for coating fittings, flanges, valves, mechanical couplings and other irregular configurations.

- » Below grade application
- » Brush applied
- » For ambient temperatures



Mfr. Model #	Container Size	BSE Part #
225G	1 gal	1477154
225P	5 gal	1595168

Roskote A-51 Mastic Coating System

Mastic hydrocarbon resin based coating appropriate for coating fittings, flanges, valves, mechanical couplings and other irregular configurations.

- » Below grade application
- » Brush applied
- » For ambient temperatures



Mfr. Model #	Container Size	BSE Part #
285-A51G	1 gal	1594058
285-A515G	5 gal	1594057
A5155	55 gal	2074046

R-28 Coating

Rubberized mastic cold-applied coating with high electrical resistivity designed to protect underground steel pipes, tanks and other structures against corrosion.

- » Bonds firmly to clean steel surfaces without use of a primer and also to coal tar, and hot applied asphalt
- » Service temperature: 0 – 250° F



Mfr. Model #	Container Size	BSE Part #
11116-001G	1 gal	1671898
285-R28P	5 gal	1593730
11116-055G	55 gal	2074045

Thick-N-Quick Mastic Coating

Cold-applied, air drying, hydrocarbon resin based coating, designed for underground protection of all fabricated steel products such as pipes, tanks, valves, conduits and structural steel.

- » Compatible with a wide range of commonly used pipe coatings and construction materials



Mfr. Model #	Container Size	BSE Part #
285TQ	1 gal	1593533



Black Tack Primer Rubber-Resin Base Adhesive

Used as a corrosion-resistant adhesive for bonding Royston® Quick Seal Tape Wrap to steel pipe.

- » 308 square' per gal at 1 mil dry film thickness
- » Drying time of less than 5 minutes



Mfr. Model #	Container Size	BSE Part #
12199-001G	1 gal	1593965

Roybond 747 Corrosion-Resistant Adhesive

Elastomer-resin based formulation used as a corrosion-resistant adhesive for adhering Royston Greenline accessory wrap to both metallic and nonmetallic surfaces for underground service.

- » Heavy consistency retards settling
- » High degree of corrosion-resistance
- » Maintains excellent adhesion under adverse environmental conditions
- » Viscosity: 8500 cps



Mfr. Model #	Container Size	BSE Part #
285PR-16	16 oz	1671790
12131-032Z	1 qt	1594196
285-747G	1 gal	1671873

Omniprime Solvent Based Primer

Universal Solvent based primer. Appropriate for use on stainless steel applications. Designed to be used with cold or hot applied tapes and heat shrinkable sleeves for the corrosion protection of metal surfaces.

- » Application temperature: -20° F to ambient
- » Film thickness: 5 mil. WFT, 1 mil. DFT
- » Flash point: 109° F
- » Operating temperature: -20 – 200° F
- » Oxsol 100 solvent base
- » Practical coverage: 300 sq. ft /gal
- » Viscosity: 130 – 150 cps



Mfr. Model #	Container Size	BSE Part #
281PT	1 pt	2074068
281Q	1 qt	1476876
281G	1 gal	1477116
281P	5 gals	1594888

Primer D Bitumen Tape Primer

Fast drying Bitumen based primer suitable for all surfaces prior to the application of various tapes.

- » Can be applied with brush, roller or spray
- » Fills surface irregularities for intimate contact of tape compound
- » Oxidized bitumen in aliphatic and aromatic hydrocarbon solvents



Mfr. Model #	Container Size	BSE Part #
PRIMER-D-QT	1 qt	1557419
PRIMER-D-GAL	1.3 gal	1672751

Butyl Tape Primer

Fast drying, Butyl based primer for all surfaces prior to the application of various Denso Butyl Tapes.

- » Can be applied underwater or to wet surfaces
- » Easy to apply, no mixing or messy clean up
- » Minimal surface preparation required
- » Promotes maximum adhesion
- » Resistant to water, acid, salts or soil organics
- » Resists cold and hot temperatures
- » High-tack



Mfr. Model #	Container Size	BSE Part #
BUTYL-PRIMER-1QT	1 qt	1557456

Paste Petroleum Primer

Designed to penetrate existing rust, displaces moisture, pacifies surface and aids in the adhesion of petroleum tapes and mastics.

- » Can be applied in any climate
- » Can be applied to wet surfaces
- » Contains no VOC's
- » Does not dry, harden or crack
- » Meets AWWA C-217
- » Minimal surface preparation (SSPC SP 2-3)
- » No shut downs necessary



Mfr. Model #	Weight	BSE Part #
PASTE-TUB	5.5 lb	1593903

Paste S105 Wet/Underwater Petrolatum Tape Primer

Serves as a corrosion inhibitor and aids in the application of petroleum tapes.

- » Applied to marginally prepared surfaces (SSPC SP 2-3)
- » Applied to very wet or underwater surfaces
- » Contains no VOCs
- » No cure time
- » No shut downs necessary



Mfr. Model #	Weight	BSE Part #
PASTE-S105	5.50 lb	1672752

Profiling Mastic Cold Applied Self-Supporting Mastic

Petroleum molding mastic that provides smooth profile on irregular shaped fittings.

- » Easy application from arctic to tropical temperatures
- » Will adhere to metal, PVC, polyethylene and concrete
- » Excellent molding and sealing properties
- » Minimal surface preparation (SSPC SP 2-3)
- » Not affected by water, acids and salts
- » Nonhardening in cold weather
- » No VOCs



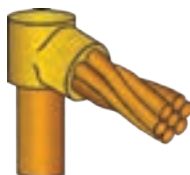
Mfr. Model #	Weight	BSE Part #
PROFILING-MASTIC	4.00 lb	1672750

Exothermic WELDING SYSTEMS

Cable to Ground Rod Mold

Mold for cable to ground rod used in conjunction with the Erico exothermic weld product line.

- » Cable size: 4/0; Ground rod size: 5/8"
- » Copper clad sectional threaded or plain
- » Made of graphite; Uses 90 weld metal



Mfr. Model #	BSE Part #
GRC-162Q	1674810

CADWELD® XBQ/XBZ Horizontal X Mold

Quickest, most efficient way to make lapped, horizontal x-style connections on solid or concentric stranded cable for a variety of installations. Cross of horizontal cables, lapped and not cut.

- » Solid conductor may be either copper or Copperweld®
- » XBM includes handle clamp

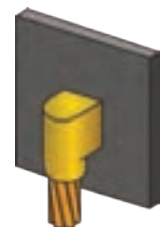


Mfr. Model #	Type	Cable Size-Tap	Cable Size-Run	BSE Part #
XBV-3Q2Q	Welded metal 500	4/0	500	2263268
XBZ2Q9J	—	19/#6	4/0	2730267

CADWELD® Type VB Mold-Cable to Vertical Steel Surface Pipe

Connection of vertical cable to vertical flat steel surface or to side of vertical or horizontal steel pipe.

- » Cable to steel pipe. Add pipe orientation and nominal pipe size for flat surface mold part number. Examples: VFC-2G-V6, 2/0 conductor to vertical 6" pipe
- » A test weld should be made to check the possibility of burn through on thin sections or thin wall pipe
- » Concentric stranded copper cable listed
- » Handle clamps L160 for C and R price key molds
- » L159 handle for F price key molds
- » T320 flint igniter required



Mfr. Model #	Weight	Type	Pipe Size-Tap	Cable Size-Run	BSE Part #
VBC2Q	150	Surface	Steel surface	4/0	164946
VBC2QV2W	115	Vertical	2"	4/0	2577169
VBC2QV2.50W	115	Vertical	2-1/2"	4/0	2577233
VBC2QV3C	150	Vertical	3"	4/0	2456518
VBC2QV4	150	Vertical	4"	4/0	2456521

CADWELD® Mold Sealer T403

Ideal for sealing hot or cold molds to retard leakage from large stranded conductors.

- » Required on mold Types HA, HB, HC, VG, and VN
- » It prolongs useful mold life when the cable opening becomes worn

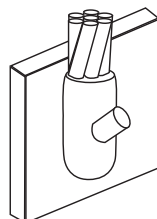


Mfr. Model #	Description	BSE Part #
T403	Available in a convenient 2 lb package	164814

CADWELD® Type VF Vertical Mold

Connection of vertical cable to vertical flat steel surface or to side of vertical or horizontal steel pipe.

- » Cable to steel pipe. Add pipe orientation and nominal pipe size for flat surface mold part number.
- » A test weld should be made to check the possibility of burn through on thin sections or thin wall pipe
- » Concentric stranded copper cable listed
- » Handle clamps L160 for C and R price key molds
- » L159 handle for F price key molds
- » T320 flint igniter required



ERICO

Mfr. Model #	Pipe Size	Cable Size	BSE Part #
VFC1KV2	2"	4/0	2577166
VFC1KV2.5	2-1/2"	4/0	2577168
VFC1KV3C	3"	4/0	2457421
VFC1KV3.5	3-1/2"	4/0	2577204

CADWELD® Type PT Mold with Wear Plates

Parallel through connection of horizontal cables.

- » Run conductor is on the bottom of Type PT molds
- » Concentric strand copper cable unless otherwise noted
- » Solid conductor may be either copper or Copperweld®
- » L160 handle clamp and T320 flint igniter required



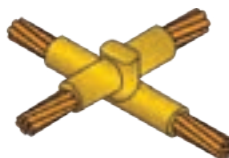
ERICO

Mfr. Model #	Weight	Cable Size-Run	Cable Size-Tap	BSE Part #
PTC2G2GW	115	2/0	2/0	2464395
PTC2G2CW	115	2/0	1/0	2464412
PTC2Q2QW	200	4/0	4/0	2464401
PTC2Q2CW	150	4/0	1/0	2463908

CADWELD® XB Molds

For horizontal lapped X connections.

- » Ergonomic two-piece molds use standard L160 and L159 handle clamps—the same clamps you use with other CADWELD® molds
- » X-style connection can be made by one person in about one minute – much faster than other methods
- » Simple to use, operates just like an XA mold, but there's no need to cut the cable
- » XBM includes handle clamp
- » Easy cable alignment



ERICO

Mfr. Model #	Welded Metal	Cable Size-Tap	Cable Size-Run	BSE Part #
XBC1L1L	65	#4	#4	2304286
XBM-2C2C	150	1/0	1/0	2038288
XBM-2Q2C	200	1/0	4/0	1424689
XBM-2Q2G	200	2/0	4/0	1484357
XBM-2Q2Q	250	4/0	4/0	164874
XBM-2Q9F	150	19/#9	4/0	2709343
XBQ-2Q2Q	250	4/0	4/0	1104031
XBQ-2Q2QW	250	4/0	4/0	2271010

CADWELD® One-Shot Kit for Ground Rods

Produces a permanent exothermically welded connection to a ground rod that will not loosen or corrode.

- » Features a single-use ceramic mold which eliminates the need for a mold and frame and/or handle clamps
- » NEC® compliant; cULus® listed



ERICO

Mfr. Model #	Type	Conductor Size Stranded	Conductor Size Solid	Rod Size	BSE Part #
GT1181V	GT	3 – 2 AWG	2 – 1 AWG	3/4"	164953
GR1181L	GR	6 – 4 AWG	4 – 3 AWG	3/4"	164823
GR1181G	GR	8 AWG	8 – 6 AWG	3/4"	179401
GT1161G	GT	8 AWG	8 – 6 AWG	5/8"	164806
GT1161L	GT	6 – 4 AWG	4 AWG	5/8"	164942
GT1181L	GT	6 – 4 AWG	4 AWG	3/4"	164954
GT1162C	GT	1 – 1/0 AWG	1/0 – 2/0 AWG	5/8"	164961
GT1182C	GT	1 AWG	1/0 – 2/0 AWG	3/4"	164965
GR1182C	GR	1 AWG	1/0 – 2/0 AWG	3/4"	164966
GR1182G	GR	2/0 AWG	-	3/4"	179347
GR1182Q	GR	4/0 AWG	-	3/4"	179350
GR1181V	GR	3 AWG	2 – 1 AWG	3/4"	179426
GT1141V	GT	3 AWG	2 – 1 AWG	1/2"	179388
GT1181G	GT	8 AWG	8 – 6 AWG	3/4"	192786
GT1162G	GT	2/0 AWG	-	5/8"	1533009

Do you need

GROUND RODS too?

Go to page 149



NOTES

CORROSION

CADWELD® Plus One-Shot

Ideal for making permanent reliable connections to ground rods for electrical transmission and distribution, telecommunications and cable television applications.

- » Durable disposable ceramic body eliminates the graphite mold and frame
- » Produces a permanent connection that will not loosen or corrode
- » Easy to use electric ignition
- » No starting material
- » NEC® compliant



ERICO

Mfr. Model #	Type	Conductor Size Stranded	Conductor Size Solid	Rod Size	BSE Part #
GR1141GPLUS	GR	8 AWG	8 – 6 AWG	1/2"	2617870
GR1141LPLUS	GR	6 – 4 AWG	4 – 3 AWG	1/2"	2617882
GR1141VPLUS	GR	3 – 2 AWG	2 – 1 AWG	1/2"	2619024
GR1161GPLUS	GR	8 AWG	8 – 6 AWG	5/8"	1719168
GT1161GPLUS	GT	8 AWG	8 – 6 AWG	5/8"	1719174
GR1161LPLUS	GR	6 – 4 AWG	4 – 3 AWG	5/8"	1719171
GT1161LPLUS	GT	6 – 4 AWG	4 – 3 AWG	5/8"	1719175
GR1161VPLUS	GR	3 – 2 AWG	2 – 1 AWG	5/8"	1719182
GT1161VPLUS	GT	3 – 2 AWG	2 – 1 AWG	5/8"	1719184
GR1162CPLUS	GR	1 – 1/0 AWG	1/0 – 2/0 AWG	5/8"	2619062
GR1162GPLUS	GR	2/0 AWG	-	5/8"	2617932
GR1162QPLUS	GR	4/0 AWG	-	5/8"	1985540
GR1181GPLUS	GR	8 AWG	8 – 6 AWG	3/4"	1719172
GT1181GPLUS	GT	8 AWG	8 – 6 AWG	3/4"	1719178
GR1181LPLUS	GR	6 – 4 AWG	4 – 3 AWG	3/4"	1719173
GT1181LPLUS	GT	6 – 4 AWG	4 – 3 AWG	3/4"	1719180
GR1181VPLUS	GR	3 – 2 AWG	2 – 1 AWG	3/4"	2617862
GR1182CPLUS	GR	1/0 AWG	1/0 – 2/0 AWG	3/4"	2617992
GR1182GPLUS	GR	2/0 AWG	-	3/4"	2617928
GR1182QPLUS	GR	4/0 AWG	-	3/4"	2246594

Make sure to order
ANODES
See page 4.



CADWELD® Plus

Simplifies the method of making exothermic connections by eliminating the need for starting material or a separate disk.

- » Completes welds at distances of up to 6'1.8 m (up to 15'4.6 m with optional lead)
- » Requires minimum components. No starting material, disks, flint or igniters
- » Has color-coded weld metal containers – by size and alloy type – for easy identification
- » Designed for use in standard CADWELD® molds including CADWELD® MULTI
- » Gram weight PLUS weld metal type i.e. 45PLUSF20
- » Virtually unlimited shelf life



ERICO

Mfr. Model #	CADWELD Weight	Color	BSE Part #
CADWELD® Plus for Grounding Applications			
15PLUSF20	15	Black	1491243
25PLUSF20	25	Red	1491242
32PLUSF20	32	White	1491241
45PLUSF20	45	Light blue	1491240
65PLUSF20	65	Dark green	1491239
90PLUSF20	90	Grey	1491244
115PLUSF20	115	Orange	1491238
150PLUSF20	150	Dark blue	1491245
200PLUSF20	200	Yellow	1491252
250PLUSF20	250	Purple	1491251
300PLUSF20	Use 2 x 150	Light green	1491250
400PLUSF20	Use 2 x 200	Brown	1554872
500PLUSF20	500	Light brown	1554871
600PLUSF20	600	N/A	2618870
1250PLUSF20	1250	N/A	2619093
1500PLUSF20	1500	N/A	2619094
CADWELD® Plus for Cast Iron Applications			
25PLUSXF19	25	Red	1533057
32PLUSXF19	32	White	1533049
45PLUSXF19	45	Light blue	1533055
65PLUSXF19	65	Dark green	1533056
CADWELD® Plus for Cathodic Applications			
CA15PLUSF33	15	Black	1491249
CA25PLUSF33	25	Red	1491248
CA32PLUSF33	32	White	1491247
CA45PLUSF33	45	Light blue	1491246
CA65PLUSF33	65	Dark green	1533051
CA25PLUSXF19	25	Red	1533058
CA32PLUSXF19	32	White	1533050
CA65PLUSXF19	65	Dark green	1533054



CADWELD® Plus (Continued)

Mfr. Model #	CADWELD Weight	Color	BSE Part #
CADWELD® Plus for Rail Applications			
PB45PLUSF80	45	Light blue	2617114
PB65PLUSF80	65	Dark green	2617023
PB90PLUSF80	90	Grey	2617043
PB115PLUSF80	115	Orange	2617045
PB150PLUSF80	150	Dark blue	2617046
PB200PLUSF80	200	Yellow	2617048
PB250PLUSF80	250	Purple	2617051
PB300PLUSF80	Use 2 x 150	Light Green	2617183
PB400PLUSF80	Use 2 x 200	Brown	2617190
PB500PLUSF80	500	Light Brown	2617188

CADWELD® Plus Control Unit and Accessories

Battery-powered ignition tool that helps simplify the welded connection process.

- » 600 connections from one set of batteries
- » Easy ignition, includes reaction termination feature


ERICO

Mfr. Model #	Description	BSE Part #
PLUSCU	CADWELD Plus Control Unit	1554875
PLUSCU15L	CADWELD Plus Control Unit with 15' (4.6 m) lead	1973949
PLUSCULD	Control unit replacement lead 6' (1.8 m)	1491264
PLUSCULD15QC	Control unit replacement lead 15' (4.6 m)	1721404
MC3X3KIT	Kit, baffle cover, graphite - 3" x 3" mold	1680372

CADWELD® XL Exolon Weld Metal

Developed for computer room, tunnel and other low-ventilation areas where the normal CADWELD emissions are not desirable.

- » It uses an electronic ignition and filter system to effectively eliminate the normal CADWELD emissions
- » The weld metal has no starting material and comes packaged with the required disks, filters, and igniters
- » A battery pack is also required
- » Not recommended for outdoor applications

ERICO

Mfr. Model #	CADWELD Weight	BSE Part #
XL45	45	164802
XL65	65	164868
XL90	90	164917
XL115	115	164869
XL150	150	164870
XL200	200	164871
XL250	250	164872

CADWELD® Exolon Igniter

Initiates the CADWELD Exolon exothermic reaction.


ERICO

Mfr. Model #	BSE Part #
XLB970A1	164932

Weld Metal Alloy

For exothermic welding used in conjunction with Erico exothermic weld product line.

- » Exceeds requirements of IEEE Std 837-Std
- » Used for all connections of cable to cable and cable to steel pipe


ERICO

Mfr. Model #	Package Quantity	BSE Part #
CA15	20	1477403

Welder Pipe

Used to tap conductor to top of steel pipe or flat surface used in conjunction with the Erico exothermic weld product line.

- » Conductor size: #14 to #10 solid in sleeve CAB-133-1H
- » Mold is made of graphite
- » Weld metal: CA15
- » #8 solid or stranded


ERICO

Mfr. Model #	Orientation	Surface	BSE Part #
CAHAA-1GA	Horizontal	3/4" – 3-1/2" pipe	164876
CAHAA-1G	Horizontal	Flat (4" and larger pipe)	2466210
CAVST1GA	Vertical	3/4" – 3-1/2" pipe	164777

CADWELD® Copper Adapter Sleeves

Small conductors may be built up to fit the opening of larger size welders using either adapter sleeves or shim stock. Adapter sleeves can be used when a number of connections are to be made with a smaller conductor in a large welder.

ERICO

Mfr. Model #	Conductor Size Stranded	Conductor Size Solid	BSE Part #
CAB-133-1H	14 – 12 AWG	14 – 12 AWG	164919

MISCELLANEOUS

WYE Resin Splice Kit

This kit insulates and moisture-seals wye splices made with the split-bolt type connectors on cables rated through 1 kV. For use on 1/0 - 2/0 cables.

- » Each kit makes one splice



3M

Mfr. Model #	ConnectorSplit Bolt - Crimped	Cable O.D. RangeRun - Tap	BSE Part #
90-B1	1/0 AWG - 2/0 AWG	0.5 - 0.812 - 0.375" max.	115653

Direct Bury Splice Kit

Underground electrical wire connectors splice and effectively moisture-seal two or more conductors for remote-control circuits in irrigation and landscape lighting systems.

- » DBY-6 and DBR-6 are UL listed and CSA certified for 600 V direct bury and submersion applications
- » UL File No. E102356 and CSA file No. LR91920
- » Each kit makes two splices



3M

Mfr. Model #	Description	BSE Part #
DBR-6-KIT	600 V, 2 tubes 2 Scotchlock™ R connectors, 25 kits per case	115964

Splice Right Kit

Designed to insulate, waterproof and protect low-voltage electrical connections.

- » 12 kits per case
- » One size fits all
- » Tacky elastomeric compound
- » Completely seals and waterproofs



Mfr. Model #	BSE Part #
63112-001X	1671868

Scotchkote™ 226P Hot Melt Patch Compound

Stick form heat bondable polymeric coating for repair of Scotchkote fusion bonded epoxy.

- » 5 lb box

3M

Mfr. Model #	BSE Part #
SCOTCHKOTE	1476917



Royston Greenline Handikit

This kit is perfect for small jobs like wrapping service tees or fittings.

- » Kit contains a 20' roll of 2" Greenline tape and a 6 oz. aerosol can of Royston Roybond 747 primer



Mfr. Model #	BSE Part #
285HK	1671999

Handwrapster #3 Cold Tape Hand Operated Application Tool

Assists the operator in wrapping tape with the proper tension and overlap.

- » For pipe 4" O.D. and above
- » Tape widths up to 9"

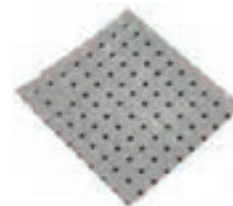


Mfr. Model #	BSE Part #
2991	1594539

TC 2025 Terrashield Rock Shield

This rockshield material is easily applied and cushions the pipeline. This material is abrasion-resistant and offers an outer jacket that incorporates a moldable gasket material.

- » Consists of a 3/8" closed cell polyethylene foam laminated to a 25 mil backing
- » Provides superior performance and is 25% of the weight of conventional rockshields
- » Perforated and nonperforated available
- » 140' rolls



Mfr. Model #	Material	Width	BSE Part #
253C5	Solid	60"	1595117
253C5-30	Solid	30"	1595116
253C5P	Perforated	60"	1595115
253C5P-30	Perforated	30"	1595114

Magnum Torch Propane Kit

Wide mouth propane torch for applying hot applied tapes and sleeves.

- » Built-in igniter, burner head, regulator
- » 16" handle, 33' hose



Mfr. Model #	BSE Part #
23708	1595148

Natural Gas
catalog

Leak **DETECTION**



In this section

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Gas DETECTORS

- » Intrinsically safe
- » Bar holing: Peak and sustained readings (except Gas-Sentry™ Detector)
- » Visual and audible alarms for all monitored gases
- » A USB interface for data transfer and docking calibration on Gas-Explorer™ and Gas-Rover™ Detectors

Gas-Ranger™ Detectors

Microprocessor-based instruments designed to test ambient air and flue gas over a wide temperature range.

- » A calibrated track gas scale with quick response displays in 50 ppm intervals
- » Measurements over the range of gas from 50 ppm – 100% gas



Mfr. Model #	Detector Type	Display	BSE Part #
RGI-201D	Natural gas and methane	% gas	1593702
RGI-211D	Natural gas and methane	% LEL or % gas	1593701
RGC-301D	Natural gas and CO	% LEL or % gas	1593704
RGC-311D	Natural gas and CO	% gas	1950871
RGO-321D	Natural gas, methane and oxygen	% LEL or % gas	1593700
RGA-411D	Natural gas, CO/H2S and oxygen	% LEL or % gas	1593527
RGA-412D	Natural gas, CO/H2S and oxygen	% gas	1593675

Gas-Explorer™ Detectors

Microprocessor based instruments designed to test ambient air and flue gas over a wide temperature range.

- » A calibrated track gas scale with quick response displays in 20 ppm intervals
- » Automatic storage of calibration data from the last 24 calibrations
- » Measurements over the range of gas from 20 ppm – 100% gas



Mfr. Model #	Detector Type	Display	BSE Part #
EGI-201	Natural gas	% LEL or % gas	2108075
EGI-211	Natural gas	% gas	2108076
EGC-301	Natural gas and CO	% LEL and % gas	2108077
EGC-311	Natural gas and CO	% gas	2108078
EGO-321	Natural gas and CO	% LEL or % gas and % oxygen	2108080
EGO-322	Natural gas and oxygen	% gas and % oxygen	2108081
EGA-411	Natural gas, CO/H2S and oxygen	% LEL or % gas and % oxygen	2108083
EGA-412	Natural gas, CO/H2S and oxygen	% gas and % oxygen	2108085
EGA-611	Natural gas, oxygen, CO and H2S	% LEL or % gas and % oxygen	2108087
EGA-612	Natural gas, oxygen, CO and H2S	% gas and % oxygen	2108088

Gas-Rover™ Detectors

Uses a catalytic combustion sensor to provide sensitivity, speed of response and accuracy needed for leak surveys on foot or by vehicle.

- » Bar-hole mode yields peak and sustained readings after a fixed time
- » Measurements over the full range of gas from 5ppm – 100% gas
- » Survey mode provides a calibrated scale from 5 – 10,000 ppm
- » USB interface for data transfer and area network



Mfr. Model #	Detector Type	Display	BSE Part #
GRI-211	Natural gas survey	% gas	2101278
GRC-311	Natural gas and CO survey	% gas	2101281
GRO-321	Natural gas and oxygen survey	% LEL or % gas	2101279
GRA-412	Natural gas, CO/H2S and oxygen survey	% gas	2101282

Gas-Sentry™ Detectors

A microprocessor-based detector for natural gas and, when equipped with appropriate sensors, for carbon monoxide and oxygen.

- » A calibrated track gas scale with quick response displays in 0.01% gas intervals
- » Measurements over the full range of gas from 100 ppm – 100% gas



Mfr. Model #	Detector Type	Display	BSE Part #
CO-150	Carbon monoxide	PPM CO	1593917
CGI-201	Natural gas and methane	% LEL or % gas	1672804
CGI-211	Natural gas and methane	% gas	1593926
CGC-301	Natural gas and CO	% LEL or % gas	1593930
CGC-311	Natural gas and CO	% gas	1593928
CGO-321	Natural gas and oxygen	% LEL or % gas	1593925
CGA-411	Natural gas, CO/H2S and oxygen	% LEL or % gas	1593951
CGA-412	Natural gas, CO/H2S and oxygen	% gas	1593932
CGA-401	Combustible gas, CO/H2S and oxygen	-	1593936
CGA-501	Combustible gas, CO/H2S and oxygen	-	1593931



Parts and ACCESSORIES

Replacement Parts and Accessories

Parts and accessories used in calibration and maintenance.



Mfr. Model #	Type	For Use With	BSE Part #
DL-001	Data logging option	Explorer™	2108091
BGA-302	Boost gas apparatus with BG-620 and FR-303	Ranger™	2073556
MH-620	H2S and methane simulat calibration gas (620 liters of 25 ppm H2S in 31% HE in N2)	Ranger™	2073557
FG-301	High flow gauge with adapter (0.4 – 2000 cc. per min.)	Ranger™	2073558
MCA-302	Manual methane and H2S calibration apparatus with MH-620 and FR-304	Ranger™	1593798
PD-305	Pump head, diaphragm/plunger assembly (5 sets per package)	Ranger™	1593760
PM-301	Pump motor	Ranger™	1593747
PK-301	Pump repair kit (tools, FG-301, PD-305, 1 can of UJ-206 and instructions)	Ranger™	1593749
FR-401	Flow regulator for MC-620	Ranger™, Rover™, Explorer™	1721664
PCA-302	Manual calibration apparatus with MC-620 and FR-302	Ranger™, Rover™, Explorer™	1593763
FR-302	Flow regulator for MC-620 (adjust up to 2l)	Ranger™, Rover™, Sentry®, Explorer™	1593852
MC-620	Methane and CO calibration gas (620 liters of 2-1/2% methane and 100 ppm CO)	Ranger™, Rover™, Sentry®, Explorer™	1593799
CGD-001	Automatic calibration gas dispenser (connects only to manual apparatus)	Ranger™, Sentry®	1593927
BG-620	Extra 580 liter cylinder of boost gas	Ranger™, Sentry®	1593935
TB-512	Threaded hose barb (with 3' of tubing)	Ranger™, Sentry®	1593537
FR-402	On-demand regulator for boost gas	Rover™	2101271
BC-501	Battery compartment cap	Rover™, Explorer™	2101293
RM-501	Intake manifold with pump	Rover™, Explorer™	2101292
NDS-100	Network Remote Docking Station	Rover™, Explorer™	2101283
PD-505	Pump head, diaphragm-plunger assembly (5 sets)	Rover™, Explorer™	2101290
PM-501	Pump motor	Rover™, Explorer™	2101289
BG-105	Boost gas (105 L)	Sentry®	1594311
BGA-001	Boost gas apparatus with BG-105 and FR-001	Sentry®	1593966
FR-001	Flow regulator for 60 and 105 liter calibration gas tanks	Sentry®	1593854

Replacement Parts and Accessories (continued)

Mfr. Model #	Type	For Use With	BSE Part #
HCA-001	Manual pentane and CO calibration apparatus with HC-105 and FR-001	Sentry®	2073560
CAP-001	Manual propane and CO calibration apparatus with PC-105 and FR-001	Sentry®	2073559
PCA-001	Methane and CO calibration apparatus with MC-105 and FR-001	Sentry®	1593765
MC-105	Methane and CO calibration gas (105 liters of 2-1/2% methane and 100 ppm CO)	Sentry®	1593800
HC-105	Pentane and CO calibration gas (60 liters of 0.75% pentane and 100 ppm CO)	Sentry®	2073561
PC-105	Propane and CO calibration gas (105 liters of 1.05% propane and 100 ppm CO)	Sentry®	1593766
PA-201	Pump assembly (without motor)	Sentry®	1593739
PD-205	Pump head and diaphragm and plunger assembly (package of 5)	Sentry®	1593762
PM-001	Pump motor with connector	Sentry®	1593748
PK-201	Pump repair kit (tools, FG-001, PD-205, 1 can of UJ-206 and instructions)	Sentry®	1593750
RP-002	Rubber plugs (set of 2)	Sentry®	1593694
BG-005	Two in one bump gas (package of 5)	Sentry®	1593973

Leak Detection Hoses

Various hoses for an assortment of detectors.



Mfr. Model #	Type	For Use With	BSE Part #
QH-120	Straight hose with quick connect fitting (10')	Ranger™, Rover™, Explorer™	1593755
CH-060	Coiled hose clear, small ID (5')	Sentry®	1477236
QC-001	Quick connect hose option	Sentry®	1593742
SH-120	Straight hose large id (10')	Sentry®	1593682
SH-060	Straight hose large id (5')	Sentry®	1593683

NOTES

LEAK DETECTION

Leak Detection Probes

Probes and accessories for an assortment of detectors.



Mfr. Model #	Type	For Use With	BSE Part #
GP-514	Gooseneck probe 14" long with quick connect fitting	Explorer™	2101277
SP-313	One-piece probe	Explorer™	2101274
VP-136	Surface vacuum probe (36" long with quick connect)	Ranger™	2073553
QH-042	Straight hose with quick connect fitting (3-1/2')	Ranger™, Rover™	1593741
SP-308	Extension to standard fiberglass probe (7")	Ranger™, Rover™, Explorer™	1593690
SP-306	Probe and rubber tip	Ranger™, Rover™, Explorer™	1593660
FP-012	Extended duty flue gas probe and filter	Ranger™, Rover™, Sentry®	1593859
BP-134	Bar hole probe (34" long, clear, holes in lower side wall)	Ranger™, Rover™, Sentry®, Explorer™	1593963
BP-034	Ceiling-bar hole probe (34" long, clear, single hole)	Ranger™, Rover™, Sentry®, Explorer™	1593964
BP-236	Fiberglass bar hole probe with handle (36" long, holes in lower side wall)	Ranger™, Rover™, Sentry®, Explorer™	1680503
BP-136	Fiberglass bar hole probe with handle (36" long, single hole in end)	Ranger™, Rover™, Sentry®, Explorer™	2073555
BP-536	Metal bar hole probe with handle (36" long, holes in lower side wall)	Ranger™, Rover™, Sentry®, Explorer™	1593960
RT-030	Rubber gas collecting tips (for BP-034, package of 5)	Ranger™, Rover™, Sentry®, Explorer™	1593693
RT-107	Rubber probe tips (package of 5)	Ranger™, Rover™, Sentry®, Explorer™	1593692
FP-110	Standard telescoping flue gas probe and filter (10")	Ranger™, Rover™, Sentry®, Explorer™	1593857
GP-114	Gooseneck probe 14" long with 1/16" id and quick connect fitting	Ranger™, Sentry®	1593831
GP-324	Gooseneck probe 24" long with quick connect fitting	Ranger™, Sentry®	2073554
SP-636	Surface probe with quick connect and cone	Rover™	2101275
SP-736	Surface probe with quick connect and drag head	Rover™	2101276
GP-014	Gooseneck probe 14" long with 1/16" id (threaded)	Sentry®	1477269
FP-114	Long adjustable telescoping flue gas probe and filter (15 – 23")	Sentry®	1593856
SP-307	Standard probe and rubber tip (two sections)	Sentry®	1557413

Leak Detection Sensors

Various sensors for an assortment of detectors.



Mfr. Model #	Type	For Use With	BSE Part #
CO-002	Carbon monoxide sensor	All CGA series detectors	1593934
OS-002	Oxygen sensor	All CGA series detectors	1593780
CO-001	Carbon monoxide sensor	All CO detectors except CGA series	1593919
MS-001	Methane sensor	All detectors except CGC-300 and CGC-310	1593788
MS-101	Methane sensor	CGA-501	1593792
MS-002	Methane sensor	CGC-300 and CGC-310	1593789
OS-001	Oxygen sensor	CGO-321	1593781
MS-501	Methane sensor	Explorer™	2243762
MS-302	Methane sensor	Flame arrester models	1593793
OS-301	Oxygen sensor	Ranger™	1593778
CO-301	Carbon monoxide sensor	Ranger™, Rover™, Explorer™	1593916
CO-302	Carbon monoxide sensor	RGA-611 and RGA-612	1593915
HS-301	Hydrogen sulfide sensor	RGA-611 and RGA-612	1593813
CS-401	Combined CO/H2S sensor	Rover™, Explorer™	2243763
OS-501	Oxygen sensor	Rover™, Explorer™	2243764

Carryalls and Instrument Cases

Ethafoam insert included with all instrument cases.



Mfr. Model #	Type	For Use With	BSE Part #
SS-301	Shoulder strap	Ranger™	1593651
IC-301	Small instrument case for detectors (14" x 9" x 4")	Ranger™	1593807
IC-501	Instrument case	Rover™, Explorer™	2101286
CC-001	Carryall with pouch, shoulder strap and detachable window	Sentry®	1593942
DW-001	Detachable clear window for CC-001	Sentry®	1593898
IC-101	Instrument case for detectors	Sentry®	1593808
SS-001	Shoulder strap	Sentry®	1593654



Leak Detection Filters

Various filters for an assortment of detectors.



Mfr. Model #	Type	For Use With	BSE Part #
PR-050	-	Explorer™	1476853
IF-305	Inlet filter, threaded air intake, pack of 5	Ranger™	1593805
BF-001	Bar hole filter	Ranger™, Rover™, Explorer™	2073562
DS-001	Dust stopper (replaceable filter)	Ranger™, Rover™, Explorer™	1593899
DF-105	Replacement dust filters	Ranger™, Rover™, Explorer™	1593901
FF-105	Extended duty flue gas filter for extended duty flue probe, nonrefillable, pack of 5	Ranger™, Rover™, Sentry®, Explorer™	1593865
HF-005	Heavy hydrocarbon filter for bar hole probes, refillable, pack of 5	Ranger™, Rover™, Sentry®, Explorer™	1476856
FF-005	Standard flue gas filter for standard and long flue probes, refillable, pack of 5	Ranger™, Rover™, Sentry®, Explorer™	1477239
WS-001	Water stopper (with push-button release)	Ranger™, Rover™, Sentry®, Explorer™	1477124
WF-305	Dust and water-block filter, pack of 5	Ranger™, Sentry®	1477066
WF-405	Three-way filter, pack of 5	Ranger™, Sentry®, Explorer™	1593465
IF-505	Inlet filter, quick connect air intake, pack of 5	Rover™	2101273
WF-505	Dust and water-block filter, pack of 5	Rover™, Explorer™	2101272
IF-205	Inlet filter, quick connect air intake, pack of 5	Sentry®	1593806
IF-105	Inlet filter, threaded air intake, pack of 5	Sentry®	1677619
WF-205	Water-block filter for gooseneck probes, pack of 5	Sentry®	1593467

Operating Manuals

Operating manuals for various Bascom-Turner products.



Mfr. Model #	For Use With	BSE Part #
OM-300	300	1593786
OM-311	311	1593785
OM-411	411	1593784
OM-698	696 Ranger™	1593783
OM-995	995	1593782
OM-1002	Ranger™	2073563
OM-0506	Rover™	2073552

Leak

DETECTION SOAPS

Thin Film Bubble Testing Liquids

For pressure testing plastic.

- » Inexpensive to use and not subject to breakdown like complex equipment
- » Operates immediately and continues to give indications
- » Easy to use and requires little operator training
- » Extremely sensitive



Mfr. Model #	Operating Temperature	Package Quantity	Container Size	BSE Part #
E8287HS-05	10 – 180° F	4	1 gal	1674805

Leak Tec Thin Film Bubble Testing Liquids

For General purpose applications and for high pressured gross leaks and vacuum leaks.

- » Aerosol spray
- » Nonflammable
- » Contains no ammonia
- » Corrosion index: IV
- » Corrosion index: V



Mfr. Model #	Operating Temperature	Package Quantity	Container Size	BSE Part #
372E-01	35 – 160° F	12	4 oz	1674784
72V-41	35 – 160° F	12	14 oz	1674791

Dark Pink Leak Detection Fluids

Leak detection fluid.

- » Nonflammable
- » Contains no ammonia
- » Density: 1.03 – 1.05 g/ml
- » Leak rate sensitivity: 5 x 10⁻⁵ standard cc/sec
- » Meets faying edge test of MIL-L-25567E
- » Noncorrosive to steel; aluminum and copper
- » pH: 8.4 – 9.2
- » Optional trigger spray bottle available



Mfr. Model #	Operating Temperature	Container Size	BSE Part #
GAZTEC-IIIB-05	20 – 180° F	5 gal	1476885

Containers and Dispensers



WINTON Products Co., Inc.

Mfr. Model #	Description	Container Size	BSE Part #
BTL-8-S-CG	Empty compressed gas (CG) plastic bottle	8 oz	1674774
BTL-8-DBR-LT	Empty plastic bottle with dauber cap	8 oz	1476873
PINT	Empty dispenser with cap and brush	16 oz	1672619
BTL-16-CYL-WINT	Empty cylinder bottle with trigger sprayer	16 oz	1476868

5-Second Leak Detection Fluids

Used for detecting leaks in pipe joints, tube connections, tanks or any system under gas or air pressure. Easy to use; simply wipe surface to be tested with a brush or dauber, squirt on with a squeeze bottle or spray with a trigger sprayer. Small leaks form white foam in 5 – 60 seconds. Large leaks form bubbles almost instantly.

» Requires no mixing



WINTON Products Co., Inc.

Mfr. Model #	Description	Container Size	BSE Part #
Sherlock Regular Temperature Leak Detection			
Sherlock-REG	Chemical type leak detection fluid for locating leaks in pressurized gas and air systems, except oxygen, in temperatures above freezing.	1 gal	1477027
Sherlock-REG55		55 gal	1672613
Sherlock CG Leak Detection			
Sherlock-CG	Use for leak testing lines, cylinders and tanks carrying pure oxygen and compressed gases.	1 gal	1671907
Sherlock Low Temperature Leak Detection			
Sherlock-LT	Chemical type leak detector designed for finding air and gas leaks at subfreezing temperatures down to -5° F.	1 gal	1477038
Sherlock-LT5GL		5 gal	1672614
Sherlock-LT55		55 gal	1672615
Sherlock Extra Low Temperature Leak Detection			
XLT-G-6	Chemical type leak detector designed for finding air and gas leaks at temperatures down to -55° F	1 gal	1671907

NOTES

Natural Gas
catalog

MARKING and LOCATING equipment



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Locating EQUIPMENT

FX-3 Pipe and Cable Locator

Extremely sensitive to iron with a large surface area, highly magnetized objects and long objects buried vertically. Large or small, if it's ferrous, the FX-3 is designed to find it.

- » Length 42-1/4"
- » Powered by a single 9 V battery
- » Simple one-knob operation
- » Waterproof probe up to control box
- » Includes hard shell carrying case



Mfr. Model #	Weight	BSE Part #
FX-3	2-1/2 lbs	2108014

Model TW-6 "Two-Box" Pipe and Cable Locator

Finds underground pipes, cables, manhole covers, vaults, valve boxes and other metallic objects

- » Crystal controlled frequency in both transmitter and receiver increases tracing distance
- » Noise canceling circuitry eliminates power line interference
- » The TW-6 is powered by 16 standard AA (penlight) batteries: eight in the transmitter and eight in the receiver
- » Unlike other units that use a separate transmitter and receiver, the TW-6 when mounted on the handle, can conduct "blind" searches of an area to locate an underground pipe or cable when the starting point is unknown
- » VCO (Voltage Controlled Oscillator) gives a wider range of audio signals to indicate the presence of metal. Even after the meter pegs, the audio signal goes much higher in pitch and volume



Mfr. Model #	BSE Part #
TW-6	1674817

M-97 Pipe and Cable Locator

Features push-button tuning allowing the user to quickly and easily maintain optimum sensitivity for easy pinpointing of buried metallic objects

- » Two knobs and a push-button for simple operation
- » Auto-tune circuitry and a waterproof search coil
- » Ground Effect Rejection VLF (very low frequency) eliminates annoying or false signals from wet ground foliage, pavement or mineralized ground
- » High sensitivity for maximum penetration through soil, asphalt or concrete
- » Compact size for convenient storage
- » Powered by 2 standard 9 volt batteries



Mfr. Model #	BSE Part #
M-97-8	1674814

M-66 Pipe and Cable Locator

Designed for finding buried or paved over valves, boxes or vaults. It also locates survey markers, water or gas meters, conduit, manholes and any other concealed metallic object.

- » Adjustable shaft
- » Analog meter and audio target signal
- » Fully submersible 8" search coil
- » Ground rejection VLF (very low frequency) eliminates false signals
- » Simple operation only two knobs
- » Weather-resistant design
- » Weight with 8" coil 4.25 lbs



Mfr. Model #	BSE Part #
M-66	2108013

TW-7700 Pipe and Cable Locator

Single frequency digital line tracer extremely easy to use.

- » Advanced digital signal processing for accurate locating
- » Audio and visual left/right guidance
- » Automatic gain control for maximum sensitivity
- » Instant target response
- » Large easy to read LCD display
- » Push-button depth measurement
- » Weather-resistant design



Mfr. Model #	BSE Part #
TW-7700	2108012



TW-8800 Pipe and Cable Locator

Multi frequency digital line tracer extremely easy to use.

- » Advanced digital signal processing for accurate locating
- » Audio and visual left/right guidance
- » Automatic gain control for maximum sensitivity
- » Large easy to read LCD display
- » Passive locating modes - power and radio frequencies
- » Push-button depth measurement
- » Weather-resistant design



Mfr. Model #

TW-8800

BSE Part #

2108010

Pipe and Cable Locator Accessories

Various parts and optional accessories.



Mfr. Model #	Description	BSE Part #
972095	Headphones, stereo (All)	2108019
202767	Carrying case (M-97)	2108021
202295	Tracer probe (TW-6)	2108016
203400	Coupling clamp 4" (TW-6)	2108017
201809	Carrying case (TW-6)	2108018
202910	Carrying strap (TW-6)	2108020
202461-003	3-1/2" coil cover (M-101)	2108022
202461-001	8" coil cover (M-97, M-66)	2108023

Curve-Flex® Marker

Concave design protects the decal from damage from vehicle impacts; two surfaces for decals; because of its high flexibility, Curve-Flex can occasionally require a small pilot hole in certain soil conditions before installation.



Mfr. Model #	Length	Width	Color	BSE Part #
CFR406602	66"	4"	Yellow	1672807
CFR406605	66"	4"	Red	1194699
CFR407205	72"	4"	Red	1337887

Pipeline

MARKERS

Utility Marker

3-rail design profile provides flexibility, structural integrity and protection for the decal; highly resistant to vandalism and gunshots; lightweight and installs in less than 60 seconds. Highly effective for marking underground utility lines in areas with hard soil and locations where impacts from vehicular traffic are likely.

- » Excellent impact-resistance
- » 3-3/4" wide



Mfr. Model #	Legend	Length	Color	BSE Part #
CRM307205	CAUTION GAS PIPELINE	72"	Red	1675204
CRM307802/C-100	2 C-100 CAUTION GAS PIPELINE	78"	Yellow	1671738
CRM306602	No decal	66"	Yellow	1671844
CRM306607	CAUTION GAS PIPELINE	66"	Green	1672780
CRM306202	C-100 CAUTION GAS PIPELINE	62"	Yellow	1672792

Scepter™ Utility Test Station

A cathodic protection test station for bonding, grounding and other applications. Recommended for applications that require a versatile above-ground terminal for monitoring electrical currents and potentials on underground pipelines. Perfect for tracing nonmetallic pipelines and identification of force mains and pressure valves.

- » Includes 2 brass nickel-plated lugs with fiber washers on 3-hole terminal board
- » Easily fits pipe or tube from 1-3/4 – 2-1/4" O.D.
- » Includes a unique venting system
- » Provides highly visible marking
- » Dimensions 2.375" I.D. x 5" I
- » Available with standard or custom decals



Mfr. Model #	Color	BSE Part #
SCTS1002	Yellow	2074019
SCTS1004	Orange	2074020
SCTS1008	Blue	2074021

Guard Post Cover

Convert concrete post barriers around gas or electrical distributions, utility fixtures and phone booths into highly visible guard posts.

- » Economical solution to maintenance and visibility problems
- » Includes mounting hardware: clamp, clip and screw
- » Material: polyethylene with UV stabilizers
- » Never paint concrete post barriers again



Mfr. Model #	Diameter	Color	Height	BSE Part #
IGP404802U	5"	Yellow	4'	1476906
IGP604802	7"	Yellow	4'	2071441

Post Drivers for Carsonite Posts

Used with the following post styles: road or utility marker, curv-flex marker, milepost marker, sign support, hazard marker unit and greenline single curve.



Mfr. Model #	Description	BSE Part #
PDR-1	Post driver for 5 – 6' Carsonite posts	1672638
PDL-1	Long post driver for Carsonite posts over 6'	1672639
D250	Post driver for boundary marker, for posts 5 – 6'	1672766
DP-100	Pilot hole driver for hardpan or rocky soils	1672744

Guide Tube

Gives an added assist in keeping posts vertical during installation.



Mfr. Model #	BSE Part #
PGT-1	1672637

Safety-Stab Pipeline Marker

Designed to provide a highly visible warning system for identifying underground utilities.

- » Manufactured of polyethylene with antioxidant and ultraviolet inhibitors
- » Special UV-resistant pre-printed decals can be specified
- » UV-resistant lettering directly printed on flame treated polyethylene
- » Weatherproof, durable and maintenance free



Mfr. Model #	Description	Length	BSE Part #
3YC7YT00B	Yellow post with yellow cap, no decal	7'	1672919
3YC7YT00B/SSS-24C	Yellow post with yellow cap with 24" safety stab	7'	1985535
3YC8YT00BCPD1TT	Yellow post with yellow cap, caution decal and 1 terminal test	8'	1672918
SSS-24C	Accessory stab	2'	1672602

ACCESSORIES

EMS Extended Range Ball Marker

Provides an accurate, convenient, long-lasting method of marking underground facilities.

- » Cannot be inadvertently removed or worn away by weather
- » Suited for narrow trenches up to 5' in depth



Mfr. Model #	Length	Width	Package Quantity	BSE Part #
1405-XR	4"	13.6"	30	1595337

EMS Full Range Marker for Gas

Provides an accurate, convenient, long-lasting method of marking underground facilities.

- » Cannot be inadvertently removed or worn away by weather
- » Suited for deep applications up to 8'



Mfr. Model #	Diameter	Color	BSE Part #
1253	15"	Green	2062556
1254	15"	Yellow	1595540

Solid Copper Tracer Wire

Also known as locating wire that is used mainly by gas, water, fiber optic and sanitation companies for locating buried plastic pipes and fiber optics.

- » Jacket: 30 mil polyethylene
- » Solid copper
- » Wire size: 12 gauge



Mfr. Model #	Reel Length	Wire Color	BSE Part #
12GA-SOL	500'	Yellow	1671972



Wing-Nut® Wire Connectors

Specially designed contoured wings provide a secure grip for extra leverage on maximum wire combinations.

- » Deep skirt helps protect against flash-over and turned-back strands for maximum dielectric protection
- » Easily removed for repeat usage on same size or larger wire combinations
- » Live-action spring expands to accept wire shape on size with no pre-twisting required
- » Square-wire spring threads directly onto conductors for fast, secure connections
- » Tough, UL 94V-2 flame-retardant shell rated at 105° C
- » Classified in accordance with IEC publications 998-2 and 998-2-4 durable, thermoplastic shell 1000 V maximum in fixtures and signs; copper to copper
- » UL 486C listed



Mfr. Model #	Model	Color	Accepts	Package Quantity	BSE Part #
30-451	451	Yellow	2 no. 18; 3 no. 12	100	127960
30-451J	451	Yellow	2 no. 18; 3 no. 12	225	307570
30-651	451	Yellow	2 no. 18; 3 no. 12	500	127995
30-551	451	Yellow	2 no. 18; 3 no. 12	1000	127979
30-452	452	Red	2 no. 18; 5 no. 12	100	127961
30-452J	452	Red	2 no. 18; 5 no. 12	300	307519
30-652	452	Red	2 no. 18; 5 no. 12	500	127996
30-552	452	Red	2 no. 18; 5 no. 12	1000	642831
30-454	454	Blue	3 no. 12; 2 no. 6 and 1 no. 12	25	127962
30-654	454	Blue	3 no. 12; 2 no. 6 and 1 no. 12	100	642563

Marking

FLAGS AND TAPES

Flag Insertion Tool

Makes it easier to install flags in hard or frozen soil.

- » Bent hook in the tip of the staff enabling flags to stay in the ground longer
- » Pushed in by hand or tapped with a hammer it will penetrate all soil types
- » The tip of the tool is hardened steel for long use and notched to prevent the flag staff from shearing off during use
- » Tool handle has an impact-resistant cushion grip



Mfr. Model #	Length	BSE Part #
CARRIER	12"	1704109

Caution and Danger Tape

Plastic remains pliant in cold weather.

- » Made of durable plastic



Mfr. Model #	Length	Width	Warning Message	Color	BSE Part #
77-1001	1,000'	3"	Caution	Yellow	169191
77-1004	1,000'	3"	Danger	Red	1483857

Standard Stretch Non-Detectable Underground Warning Tape

Durable, dependable non-detectable polyethylene warning tape for service and other non-critical metallic installations.

- » Installed at proper shallow depth, ShieldTec is tough, basic protection for any type of buried cable or pipe
- » Suitable for open trench installation



Mfr. Model #	Length	Width	Warning Message	Color	BSE Part #
22-126	1,000'	3"	Caution electric line below	Red	169182
22-130	1,000'	6"	Caution electric line below	Red	169184
22-202	1,000'	3"	Caution electric line below	Yellow	169180
22-205	1,000'	6"	Caution electric line below	Yellow	169178
22-211	1,000'	3"	Caution gas line below	Yellow	1070129
22-214	1,000'	6"	Caution gas line below	Yellow	169195
22-435	1,000'	3"	Caution fiber optic cable below	Orange	169186
22-750	1,000'	6"	Caution fiber optic cable below	Orange	169194

Premium Detectable Underground Warning Tape

Used for location and early warning protection for underground lines.

- » APWA colored stripes are printed on the underside of the polyester, before the multiple layers are laminated together



Mfr. Model #	Length	Width	Warning Message	Color	BSE Part #
31-107	1,000'	3"	Caution electric line below	Red/silver	1093214
31-109	1,000'	6"	Caution electric line below	Red/silver	169188
31-141	1,000'	3"	Caution gas line below	Yellow	2476211
31-143	1,000'	6"	Caution gas line below	Yellow	2476212
31-150	1,000'	3"	Caution fiber optic cable below	Orange	2476232
31-151	1,000'	6"	Caution fiber optic cable below	Orange	2476233

Premium Reinforced Non-Detectable Underground Warning Tape

Durable, dependable non-detectable polyethylene warning tape for service and other non-critical metallic installations.

- » Installed at proper shallow depth, ShieldTec is tough, basic protection for any type of buried cable or pipe
- » Suitable for open trench installation
- » Lead-free pigments insure color vibrancy underground
- » Bold black letters include warning message and installation recommendations
- » Available in most APWA recommended colors



Mfr. Model #	Length	Width	Warning Message	Color	BSE Part #
71-061	1,000'	3"	Caution electric line below	Red	169193
71-070	1,000'	3"	Caution gas line buried below	Yellow	2476205

Marking Whiskers

6" Marking Whiskers™ are an alternative marking choice for survey and construction sites, underground utility locating and many other uses.

- » APWA color-coded whiskers spring back up when run over by mowers, graders and heavy equipment
- » Easily attach to wood stakes or 60-penny nails (not included)
- » Virtually indestructible



Mfr. Model #	Color	BSE Part #
Standard PVC Material Colors		
B	Blue	Call to order
G	Green	Call to order
O	Orange	Call to order
R	Red	Call to order
W	White	Call to order
Y	Yellow	Call to order
PresGlo PVC Material Colors		
OG	Orange	Call to order
PG	Pink	Call to order

Marking Flags

High-quality marking flags are ideal for above ground marking in a variety of industries. From utility construction to line locating, hardware to forestry, landscaping and lawn care to pet containment—these flags ensure consistent communication and long-lasting visibility for your project.

- » Bright inks and long lasting colors
- » Wind and tear resistant
- » Private labeling, UPC coding and other custom packaging requirements available
- » Many flag options from which to choose. Please contact Border States to find one that fits your needs.



Mfr. Model #	Color	BSE Part #
Standard PVC Material Colors		
BK	Black	Call to order
B	Blue	Call to order
BRN	Brown	Call to order
CLR	Clear	Call to order
G	Green	Call to order
O	Orange	Call to order
PP	Purple	Call to order
R	Red	Call to order
SV	Silver	Call to order
W	White	Call to order
Y	Yellow	Call to order
PresGlo PVC Material Colors		
BG	Blue	Call to order
GG	Green	Call to order
LG	Light Green	Call to order
OG	Orange	Call to order
PG	Pink	Call to order
RG	Red	Call to order
YG	Yellow	Call to order

NOTES

Natural Gas
catalog

VALVE MAINTENANCE

and equipment



In this section

Equipment and accessories	32
Flush and fittings.....	37
Adapters.....	39
Lubricants and sealants.....	39

Equipment and ACCESSORIES

1400 High-Pressure Hydraulic Valve Lubrication Gun

A rugged, light weight unit that is self priming and can be used in any position.

- » Comes complete with lube pack adapter, hose tee, 15,000 psi 2-1/2" liquid filled stainless steel gauge, ball bearing swivel, hose center and giant buttonhead coupler with nylon coupler washer
- » Special features include: a slip link to help prevent damage due to over extension of the pump piston, handle latch assembly to protect the pump piston when the gun is not in use, graduated handle with one ounce markings to eliminate guesswork and waste during injection and a special adapter for lube packs
- » Pressure is easily relieved by turning the by-pass valve one and one half revolutions allowing the coupler to be removed from the grease fitting
- » The hydraulic system is equipped with an internal hydraulic relief to provide maximum safety in the event an operator continues to pump after the gun has been depleted of lube sealant



Mfr. Model #	Rating	Gauge Size	Priming	Weight	BSE Part #
1400	10,000 PSI	15,000 PSI	Self priming hydraulic	16 lbs	1595338

Hydraulic Lubrication Gun Case

For maximum protection of your hydraulic lubrication gun.

- » Constructed of easy to clean, durable aluminum with heavy-duty latches and a carrying handle



Mfr. Model #	Description	BSE Part #
GUN-CASE	For use with 1400 Val-Tex Lubrication Gun	1593822

Gauge Guard

Fits 2-1/2" bottom mount gauge, which is standard on most Val-Tex equipment.

- » UV-resistant material helps prevent gauge from cracking due to sun exposure
- » Tough construction provides impact resistance



Mfr. Model #

GC-250

BSE Part #

1593835

Valve lube

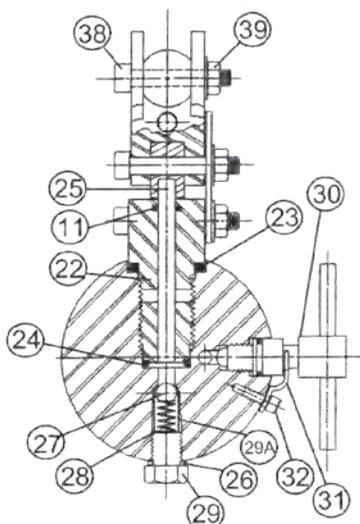
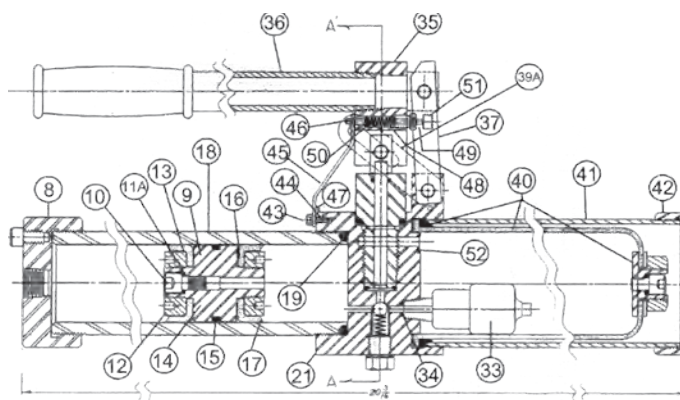
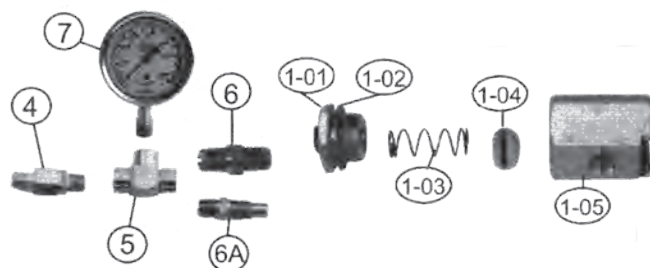
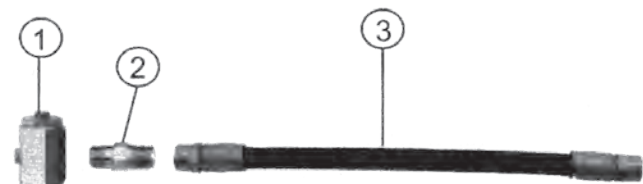
SEALANT CAPACITY

Size	Cameron Ball Valve	Groove Ball Valve	Nordstrom-Audco-Walworth Plug Valve
1/2"	-	-	1/2 oz
3/4"	-	-	1/2 oz
1"	-	-	1 oz
1-1/2"	-	-	1 oz
2"	5 oz	-	3 oz
3"	7 oz	-	4 oz
4"	9 oz	-	5 oz
6"	13 oz	3 oz	9 oz
8"	17 oz	3 oz	11 oz
10"	21 oz	4 oz	14 oz
12"	26 oz	5 oz	17 oz
14"	30 oz	5 oz	32 oz
16"	34 oz	7 oz	40 oz
18"	38 oz	9 oz	56 oz
20"	43 oz	11 oz	72 oz
22"	-	11 oz	80 oz
24"	51 oz	13 oz	88 oz
26"	-	14 oz	96 oz
28"	60 oz	14 oz	-
30"	64 oz	15 oz	112 oz
32"	-	17 oz	-
34"	-	17 oz	-
36"	76 oz	18 oz	-
38"	-	19 oz	-
40"	-	20 oz	-
42"	89 oz	21 oz	-
48"	102 oz	24 oz	-



1400 Hydraulic Valve Lubrication Gun Accessories

Hydraulic valve lubrication gun accessories.



Item Number	Mfr. Model #	Description	BSE Part #
1	6	Giant buttonhead coupler	1594303
1-03	6-S	Spring	1594227
1-04	5N	Nylon coupler washer	1594305
2	43379	#6 G.B. coupler adapter	1594469
3	20	Hose center only	1595240
4	16-D	H.P. ball bearing swivel	1595293
5	.25-TEE	High pressure hose tee	1671824
6	301296	Hose tee adapter	1594527
6A	1420	Lube pack adapter	1595539
7	15MGF	High pressure gauge	1595300
8	1407	Grease barrel cap	1595368
9	1408-A	Cap screw 1/4"-28NF	1595366
11	1408-B	O-ring 70-010	1595365
11A	1408-BA	Copper washer	1595364
12A	1421	Outer washer nut for lube pack	1595328
13	1408-D	Outer hydraulic cup	1595358
14	1408-E	Piston	1595357
16	1408-H	Inner hydraulic cup	1595355
17	1408-I	Inner washer nut	1595356
18	1409	Grease barrel	1595359
21	1411-A	Body	1595360
22	1411-B	Hydraulic pump cylinder	1595361
25	1411-E	Pump piston	1595362
26	1411-FA	1/4" x 1/32" washer	1595386
27	1411-FB	Ball 1/4	1595369
28	1411-FC	Spring	1595352
29	1411-FD	Check valve screw	1595351
29A	1411-FE	Filter screen	1595350
30	1411-G	By-pass valve assembly	1672005
31	1411-H	By-pass stop	1595349
32	1411-I	Cap screw # 8-32 NC	1595348
33	1411-J	Internal hydraulic relief	1595347
34	1411-K	O-ring 6227-3	1672070
35	1412	Fulcrum assembly	1595346
36	1413	Handle	1595345
37	1414-A	Links (2)	1595344
38	1414-B	Stripper bolt	1595343
39	1414-C	Lock nut	1595342
40	1415	Fluid bag, seal ring, bleeder assembly	1595340
41	1416	Fluid bag barrel	1595339
42	1417	Fluid bag barrel cap	1595336
13	1418-A	Cap screw	1595334
44	1418-B	Latch sleeve	1595333
47	1418-E	Spring	1595331
49	1418-G	Stem and knob assembly	1595330
-	1421	Outer washer nut for lube pack	1595328
-	UCON500	Hydraulic fluid (qt)	1593501
-	CT-LOADER	CT loader	1477105

QS-2000A Air or Hydraulic Lubrication Gun

Lightweight QS-2000A is easily portable and pumps lube sealant sticks, lube packs and valve flush. The unit comes complete with a six foot, 3/8" I.D. high pressure hose, 15,000 PSI gauge, dual swivels and a giant buttonhead coupler.

- » Moisture separator and airline lubricator or protection of pump
- » Sealant hose lengths up to 10'



Mfr. Model #	Rating	Gauge Size	Priming	Weight	BSE Part #
QS-2000A	10,000 PSI	15,000 PSI	Self-priming air/hydraulic	32 lbs	1593737

QS-2200A Electric or Hydraulic Lubrication Gun

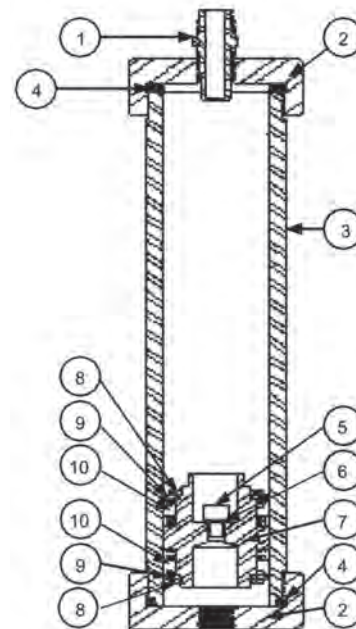
Fast, compact, rugged lubrication unit. It is suitable for use with J size lube sealant sticks, lube packs, cartridges and valve flush.

- » Comes complete with 6' high pressure hose, 15,000 PSI gauge, gauge guard, dual swivels and a giant buttonhead coupler
- » Run by a rechargeable battery powered hydraulic pump
- » Unit available with sealant barrel to fit K size lube sealant sticks



Mfr. Model #	Rating	Gauge Size	Priming	Weight	BSE Part #
QS-2200A	10,000 PSI	15,000 PSI	Self-priming electric/hydraulic	40 lbs	1740596

Air, Electric or Hydraulic Lubrication Gun Parts Diagram and List



Item Number	Mfr. Model #	Description	BSE Part #
1	1420	Lube pack adapter	1595539
2	1407	Grease barrel cap	1595368
3	1409	Grease barrel	1595359
4	1410	O-ring	2243771
5	1408-A	Cap screw 1/4"-28NF	1595366
6	1408-BA	Copper washer	1595364
7	2008-1	Piston body	2243783
8	2008-2	Snap ring	2243784
9	2008-3	Retaining ring	2243785
10	2008-4	Upper and lower seal set	1595257
-	6	Giant buttonhead coupler	1594303
-	.25-TEE	High pressure hose tee	1671824
-	15MGF	High pressure gauge	1595300
-	GC-250	Fits 2-1/2" bottom mount gauge	1593835
-	43379	#6 G.B. coupler adapter	1594469
-	52752	1/2" - 27" x 1/4" Z swivel	1594354
Options			
-	319700	Shut-off/bleeder valve	2243786

NOTES



Viper Manual Lubrication Gun

This rugged, light weight foot pump is portable and allows for hands free operation.

- » Five times faster than a typical hand-held hydraulic grease gun
- » Pumps an entire "J" stick in only 88 strokes
- » Integrated cap gauge for safety

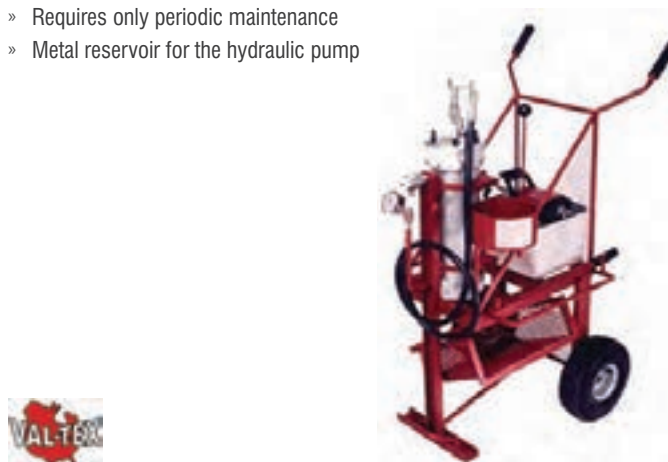


Mfr. Model #	Options	BSE Part #
QS-1800-A	J or K size barrel; 6 ft. or 10 ft. hose	2605065

QS-5000 Air or Hydraulic Lubrication Gun

Fast, versatile, heavy-duty lubrication unit that will pump large volumes of stick lube sealant, lube packs and valve flush.

- » Comes complete with 10' high pressure hose, quarter turn shut-off / bleeder valve, 15,000 PSI pressure gauge, gauge guard, dual swivels, and giant buttonhead coupler
- » Internal safety relief valve set at approximately 10,000 PSI to prevent over-pressuring the unit Options:
- » Largest stick lube sealant capacity in the valve lubrication industry
- » Sight glass modification to the metal hydraulic pump reservoir allows the operator to monitor the amount of material being pumped
- » Moisture separator and airline lubricator for protection of pump
- » Requires only periodic maintenance
- » Metal reservoir for the hydraulic pump



Mfr. Model #	Rating	Gauge Size	Priming	Weight	BSE Part #
QS-5000-M	10,000 PSI	15,000 PSI	Self-priming air/hydraulic	180 lbs	2073551

QS-5000C Air/Hydraulic Lubrication Gun

Fast, versatile, heavy-duty lubrication unit that will pump large volumes of stick lube sealant, lube packs and valve flush.

- » Comes complete with 10' high pressure hose, quarter turn shut-off valve, 15,000 PSI gauge, gauge guard, dual swivels, giant buttonhead coupler and metal hydraulic fluid reservoir
- » Largest stick lube sealant capacity in the valve lubrication industry
- » Metal reservoir for the hydraulic pump
- » Moisture separator and airline lubricator for protection of pump
- » Quickly separates into two parts by removing the cylinder for easy loading and unloading by one person
- » Sight glass modification to the metal hydraulic pump reservoir allows the operator to monitor the amount of material being pumped



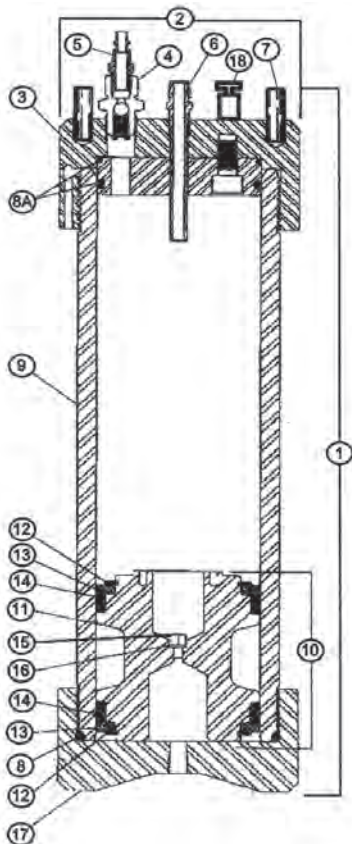
Mfr. Model #	Rating	Gauge Size	Priming	Weight	BSE Part #
QS-5000-C	10,000 PSI	15,000 PSI	Self-priming air/hydraulic	153 lbs	1593734

Need
LUBRICANT
for your gun?
See page 39.



NOTES

Air or Hydraulic Lubrication Gun Parts Diagram and List



Item Number	Mfr. Model #	Description	BSE Part #
1	5001A	Cylinder assembly	2243786
2	5001A-1	Sealant cap assembly	2243787
3	5001A-1A	Sealant cap	2243788
4	5001-1B	Air return fitting	2243789
5	328034	Air quick disconnect (M)	1594518
6	5001A-1C	Lube pack extension	1594439
7	5001-1D	Dowel pin	2243790
8	5001-1E	Hydraulic end cap O-ring	1594438
8A	5001A-1F	Sealant cap O-ring	1594433
10	5001-3	Piston assembly	2243791
11	5001-3A	Piston body	2243792
12	5001-3B	Snap ring	2243793
13	5001-3C	Piston seal retainer	2243794
14	5001-3D	Upper and lower seal sets	2243795
15	1408-A	Cap screw 1/4"-28NF	1595366
16	1408-BA	Copper washer	1595364
17	5001A-4	Hydraulic end caps	2243796
18	BB-12	1/2" NPT body bleed fittings	1593968
Options			
-	5001A	Cylinder assembly	2243786
-	5001A-1	Sealant cap assembly	2243787
-	5001A-1A	Sealant cap	2243788

Model 5-70 "L'il Greaser" Lubrication Gun

Powerful, portable air operated lubrication gun has a 70:1 ratio air motor to quickly pump bulk lube sealants and valve flush. The carrying handle makes this compact, portable gun ideal for tight places, overhead lubrication and easy transporting around the field.

- » Special follower plate and spring assures positive priming
- » Comes equipped with a 15,000 PSI gauge, gauge guard, dual swivels, control handle, 10', 3/8" ID high pressure grease hose and whip end hose with giant buttonhead coupler.
- » Fully automated with no manual activation required
- » For use with 5 quart / 10 pound can bulk lube sealant
- » Air pressure required: 125 – 185 PSI



Mfr. Model #	Rating	Dimensions	Weight	BSE Part #
5-70	8,000 PSI	25" h x 10" w	50 lbs	1594343

Model 40-70 "Easy Lube" Lubrication Gun

Powerful, portable air operated lubrication gun has a 70:1 ratio air motor to quickly pump bulk lube sealants and valve flush. The reversible pail adapter provides uninterrupted flow.

- » Special follower plate and spring assures positive priming
- » Comes equipped with a 15,000 PSI gauge, gauge guard, dual swivels, control handle, 10', 3/8" ID high pressure grease hose and whip end hose with giant buttonhead coupler.
- » Fully automated with no manual activation required
- » For use with 5 gal/ 40 pound pail bulk lube sealant
- » Air pressure required: 125 – 185 PSI



Mfr. Model #	Rating	Dimensions	Weight	BSE Part #
40-70	8,000 PSI	37" h x 19" w	78 lbs	1594487



"Mini-Mite" Mini Greaser

Allows for quick injection of "B" size sticks into stop cock valves.

- » The unit is also available with a hose (MM-1) or with hose and giant buttonhead coupler (MM-1-27)
- » Delivers a specified amount of grease per revolution
- » Easy loading
- » Multi-use hex-T handle
- » Sturdy steel construction


STARBUCK

Mfr. Model #	BSE Part #
STUBBY	1593646

Pressure Releasing Tool

Connects to capped fittings and giant buttonhead capped fittings to allow body cavity pressure to be vented to atmosphere.

- » Discharge port is 1/2" NPT female
- » Fits 1" - 14 UNS threads



Mfr. Model #	BSE Part #
PRT-12	1593743

Flush and FITTINGS

Valve Flush

Cleans out hardened sealants and lubricants that contain solids and/or fillers in all types of valves.

- » Biodegradable nonhazardous material
- » Compatible with all lubricants and sealants
- » Does not contain acid, caustic, solvent or solids
- » For use with standard valve lubrication equipment
- » Formulated using nonpetroleum oils



Mfr. Model #	Container Size	BSE Part #
VF-BTL	1 qt	1593495
VF-GAL	1 gal	1593452
VF-10	5 qt	1593481
VF-40	5 gal	1593480
VF-120	16 gal	2073529
VF-440	55 gal	2073530

Single Check Giant Buttonhead Fitting

Lubrication fittings.

- » Body is 1215 carbon steel with a 302 stainless steel spring and chrome alloy ball
- » Fittings rated to 10,000 PSI
- » SC12 bushed includes 1/2" x 3/4" bushing



Mfr. Model #	Type	Threads Per Inch	Thread Size	BSE Part #
SC-18	NPT	-	1/8"	1593687
SC-14	NPT	-	1/4"	1593688
SC-38	NPT	-	3/8"	1593686
SC-12-BUSHED	NPT	-	1/2"	1593689
SC-3816	UNC	16	3/8"	2101353

Double Check Giant Buttonhead Fitting

Lubrication fittings.

- » Body is 1215 carbon steel with a 302 stainless steel spring and chrome alloy ball
- » Fittings rated to 10,000 PSI



Mfr. Model #	Type	Threads Per Inch	Thread Size	BSE Part #
DC-14	NPT	-	1/4"	1593909
DC-38	NPT	-	3/8"	1593907
DC-12	NPT	-	1/2"	1593910
DC-34	NPT	-	3/4"	1593908
DC-1	NPT	-	1"	2101348
DC-5811	UNC	11	5/8"	2101350
DC-3410	UNC	10	3/4"	2101351

Vented Cap Giant Buttonhead Fittings

Lubrication fittings used on gate valves, such as WKM and Cameron and ball valves such as Cameron, Grove and FMC having large capped fittings.

- » Available in standard or full flow design; either design has a single check that provides the primary seal
- » Vent cap is a secondary seal and retards corrosion of the fitting face



Mfr. Model #	Type	Flow	Thread Size	BSE Part #
CF-14-GB	NPT	Standard	1/4"	1593937
CF-38-GB	NPT	Standard	3/8"	2073528
CF-12-GB	NPT	Standard	1/2"	1593939
CF-34-GB	NPT	Standard	3/4"	2101364
CF-1-GB	NPT	Standard	1"	2101365

Combination Giant Buttonhead and Lube Screw Fittings

Tall double check and single check combination giant buttonhead and lube screw fitting.

- » 302 stainless steel spring
- » Body is 1215 carbon steel
- » Chrome alloy ball
- » Fittings are rated to 10,000 PSI



Mfr. Model #	Type	Safety Rating	Threads Per Inch	Thread Size	BSE Part #
TSC-14	NPSM	Single check	-	1/4"	1593521
TSC-38	NPSM	Single check	-	3/8"	1593519
TSC-12	NPSM	Single check	-	1/2"	1593522
TSC-34	NPSM	Single check	-	3/4"	1593520
TSC-3816	UNC	Single check	16	3/8"	2101355
TSC-1213	UNC	Single check	13	1/2"	2101356
TSC-3410	UNC	Single check	10	3/4"	2101357
TSC-110	UNC	Single check	10	1"	2101358
TDC-14	NPSM	Double check	-	1/4"	1593528
TDC-38	NPSM	Double check	-	3/8"	1593532
TDC-12	NPSM	Double check	-	1/2"	1593530
TDC-34	NPSM	Double check	-	3/4"	1593529
TDC-5811	UNC	Double check	11	5/8"	2101360
TDC-3410	UNC	Double check	10	3/4"	2101361
TDC-789	UNC	Double check	9	7/8"	2101363

Safety-Seal Fitting

Two-piece design with double chrome alloy ball checks and positive metal-to-metal shut-off.

- » Assures maximum safety where high pressure and/or dangerous products are encountered
- » Loosen 1-1/2 turns to inject product



Mfr. Model #	Type	Thread Size	BSE Part #
SS-14	NPT	1/4"	1593652
SS-38	NPT	3/8"	1593650
SS-12	NPT	1/2"	1593653
SS-34	NPT	3/4"	2101354

NOTES

Packing Injectors

Used for injection of fibrous and plastic packing into the stem area.

- » Floating ball design



Mfr. Model #	Type	Thread Size	BSE Part #
PI-14	NPT	1/4"	2073481
PI-38	NPT	3/8"	2073482
PI-12	NPT	1/2"	1593836

Vented Cap Fittings

Used on gate valves, such as WKM and Cameron and ball valves such as Cameron, Grove and FMC having large capped fittings.

- » Either design has a single check that provides the primary seal
- » Vent cap is a secondary seal and retards corrosion of the fitting face
- » Available in standard or full flow design



Mfr. Model #	Type	Flow	Thread Size	BSE Part #
CF-14	NPT	Standard	1/4"	1593938
CF-38	NPT	Standard	3/8"	2073486
CF-12	NPT	Standard	1/2"	1593940
CF-34	NPT	Standard	3/4"	2101366
CF-1	NPT	Full	1"	2101368

Body Bleed Fittings

Used to bleed pressure from valve bodies.

- » NPT pipe thread
- » Standard floating ball check is 440 stainless steel



Mfr. Model #	Thread Size	BSE Part #
BB-14	1/4"	2101325
BB-38	3/8"	1593971
BB-34	3/4"	2073487
BB-1	1"	2101326
BB-125	1-1/4"	2101345
BB-15	1-1/2"	2101347



Auxiliary Fittings

Used for emergency sealing of leaking giant or standard buttonhead fittings.

- » Special features include a nylon insert to provide a durable seal for uninterrupted service and a fitting lock to prevent accidental removal
- » Reusable



Mfr. Model #	Application	BSE Part #
AF-1	Giant buttonhead fittings	1594050
AF-2	Standard buttonhead fittings	1594048

ADAPTERS

Zerk Adapters

For lubrication of all Zerk fittings using standard valve lubrication equipment.

- » Consists of a giant buttonhead fitting to a Zerk adapter
- » Rated to 10,000 psi
- » 302 Stainless steel spring
- » 1215 carbon steel body
- » Chrome alloy ball



Mfr. Model #	BSE Part #
ZERK-ADAPTER	1593446

Lubrication Adapters

Converts from a capped fitting to your gun's giant buttonhead coupler. For use on gate and ball valves having various sizes of capped fittings (Cameron, WKM, Grove, etc.)

- » Durable design includes a nipple on the stem to allow a secure connection to the fitting for uninterrupted flow of lube sealant or valve flush



Mfr. Model #	Fitting Type	Nut Size	BSE Part #
CIW-1	Capped and G.B. capped	1 - 14 UNS	1593922
WKM-1	Cameron small capped fitting	3/4 - 16 UNF	1593463
CIW-GB-1	Cameron large capped fitting	1 - 14 UNS	2101324

Lubrication Adapters WKM #2/ CIW #2/ CIW-GB-2

Allows you to convert from a capped fitting to your gun's giant buttonhead coupler.

- » Bleeder valve vents trapped pressure before disconnecting
- » Designed for maximum safety



Mfr. Model #	Fitting Type	Nut Size	BSE Part #
WKM-2	Capped and G.B. capped	1/4 - 14 UNS	1593477
CIW-2	Cameron small capped fitting	3/4 - 16 UNF	1593921
CIW-GB-2	Cameron large capped fitting	1 - 14 UNS	2073483

Lubrication Adapters WKM #3/ CIW #3/ CIW-GB-3

Connects directly to the 1/4" NPT male adapter on your lubrication hose assembly.

- » Allows maximum unrestricted flow when injecting any material containing TFE
- » Trapped pressure is relieved through a vent hole in the nut while disconnecting.



Mfr. Model #	Fitting Type	Nut Size	BSE Part #
WKM-3	Capped and G.B. capped	1 - 14 UNS	2073484
CIW-3	Cameron small capped fitting	3/4 - 16 UNF	1593920
CIW-GB-3	Cameron large capped fitting	1 - 14 UNS	2073485

Lubricants and SEALANTS

2000 Series Synthetic Valve Lubricants

Synthetic valve lubricants with moly-disulfide.

- » Excellent resistance to liquids. Suitable for natural gas, mineral oils, light hydrocarbons, LPGs, aromatics, sour gas, sour crude, CO2, gasoline, instrument air and water
- » Ideal for commissioning of new ball valves
- » Temperature range: -45 – 450° F
- » Biodegradable
- » Color: black



Mfr. Model #	Package Quantity	BSE Part #
2000-S-10	5 qt	1595266
2000-S-40	5 gal	1595265
2000-S-CT12	12 cartridges per carton	2073532
2000-S-P	16 pks bulk per carton, 6 cartons per case	2073531

60 Series Multi-Purpose Valve Lube Sealant

For general oilfield and plant services.

- » Resistant to crude oil, distillate and salt water; Biodegradable
- » Temperature range: -20 – 400° F



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
60-A	1/4"	1-1/2"	Stick lube sealant	48	2073488
60-B	3/8"	1-1/2"	Stick lube sealant	24	2073489
60-C	7/16"	2-1/8"	Stick lube sealant	24	2073490
60-D	1/2"	2-5/8"	Stick lube sealant	24	2073491
60-G	5/8"	3-1/2"	Stick lube sealant	24	2073492
60-J	1-3/8"	8-1/2"	Stick lube sealant	16	1594251
60-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	1594250
60-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073493
60-V	4"	10"	Stick lube sealant	4	2073494
60-S-10	-	-	Bulk lube sealant	5 qt	2073535
60-S-40	-	-	Bulk lube sealant	5 gal	2073550
60-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073534
60-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	2073533

65 Series Multi-Purpose Valve Lube Sealant

Multi-purpose biodegradable valve lube sealant for hydrogen sulfide and low pressure carbon dioxide service

- » Temperature range: -20 – 350° F
- » Color: brown



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
65-A	1/4"	1-1/2"	Stick lube sealant	48	2073495
65-B	3/8"	1-1/2"	Stick lube sealant	24	1594242
65-C	7/16"	2-1/8"	Stick lube sealant	24	2073496
65-D	1/2"	2-5/8"	Stick lube sealant	24	2073497
65-G	5/8"	3-1/2"	Stick lube sealant	24	2073498
65-J	1-3/8"	8-1/2"	Stick lube sealant	16	2073499
65-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073500
65-S-10	-	-	Bulk lube sealant	5 qt	2073536
65-S-40	-	-	Bulk lube sealant	5 gal	2073537
65-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073538
65-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	2073539

75 Series High-Temp Multi-Purpose Valve Lube Sealant

High temperature biodegradable multi-purpose valve lube sealant with moly-disulfide.

- » Temperature range: -20 – 750° F
- » Color: black



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
75-A	1/4"	1-1/2"	Stick lube sealant	48	2073513
75-B	3/8"	1-1/2"	Stick lube sealant	24	1594184
75-C	7/16"	2-1/8"	Stick lube sealant	24	2073514
75-D	1/2"	2-5/8"	Stick lube sealant	24	1594183
75-G	5/8"	3-1/2"	Stick lube sealant	24	2073515
75-J	1-3/8"	8-1/2"	Stick lube sealant	16	1719950
75-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	2073516
75-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073517
75-V	4"	10"	Stick lube sealant	4	2073518
75-S-10	-	-	Bulk lube sealant	5 qt	1594181
75-S-40	-	-	Bulk lube sealant	5 gal	2073543
75-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073544
75-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	1594180

80 Series Multi-Purpose Valve Lube Sealant

Multi-purpose biodegradable valve lube sealant for natural gas, LPGs and aromatics.

- » Temperature range: -20 – 500° F
- » Color: amber



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
80-A	1/4"	1-1/2"	Stick lube sealant	48	1594163
80-B	3/8"	1-1/2"	Stick lube sealant	24	1476892
80-C	7/16"	2-1/8"	Stick lube sealant	24	1476977
80-D	1/2"	2-5/8"	Stick lube sealant	24	1594160
80-G	5/8"	3-1/2"	Stick lube sealant	24	1594159
80-G	5/8"	8-1/2"	Stick lube sealant	24	2073512
80-J	1-3/8"	8-1/2"	Stick lube sealant	16	1584122
80-K	1-1/2"	10-1/2"	Stick lube sealant	12	1594155
80-S-10	-	-	Bulk lube sealant	5 qt	1476955
80-S-40	-	-	Bulk lube sealant	5 gal	2073546
80-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	1477114
80-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	1594151
80-S-P-4	-	-	Bulk lube sealant	4 packs per carton	1594150



80 Series Multi-Purpose Valve Lube Sealant with Teflon

Emergency multi-purpose valve lube sealant with fine Teflon particles FTFE.

- » Contains Teflon particles in carrier oils that are resistant to most hydrocarbons
- » Formulated to seal badly worn ball, plug and gate valves
- » Repeated use of any TFE material is not recommended
- » Temperature range: -20 – 500° F
- » Biodegradable
- » Color: amber



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
80+FTFE-B	3/8"	1-1/2"	Stick lube sealant	24	1594169
80+FTFE-J	1-3/8"	8-1/2"	Stick lube sealant	16	1594167
80+FTFE-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	1594168
80+FTFE-S-10	-	-	Bulk lube sealant	5 qt	1594166

85 Series Extra-Heavy Multi-Purpose Valve Lube Sealant

Developed to be used on storage field valves where extreme high pressures are encountered.

- » Highly resistant to natural gas, mineral oils, light hydrocarbons, LPGs and aromatics
- » Temperature range: -20 – 500° F
- » Biodegradable
- » Color: amber



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
85-A	1/4"	1-1/2"	Stick lube sealant	48	2073519
85-B	3/8"	1-1/2"	Stick lube sealant	24	1477358
85-C	7/16"	2-1/8"	Stick lube sealant	24	1594124
85-D	1/2"	2-5/8"	Stick lube sealant	24	1594123
85-G	5/8"	3-1/2"	Stick lube sealant	24	2073520
85-J	1-3/8"	8-1/2"	Stick lube sealant	16	1477365
85-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	2073521
85-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073522
85-S-10	-	-	Bulk lube sealant	5 qt	1594121
85-S-40	-	-	Bulk lube sealant	5 gal	2073547
85-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073548
85-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	1594120

700 Series Synthetic Multi-Purpose Valve Lube Sealant

Synthetic multi-purpose biodegradable valve lube sealant with moly-disulfide.

- » Temperature range: -20 – 450° F
- » Color: black



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
700-A	1/4"	1-1/2"	Stick lube sealant	48	2073501
700-B	3/8"	1-1/2"	Stick lube sealant	24	2073502
700-C	7/16"	2-1/8"	Stick lube sealant	24	1594226
700-D	1/2"	2-5/8"	Stick lube sealant	24	1594225
700-G	5/8"	3-1/2"	Stick lube sealant	24	2073503
700-J	1-3/8"	8-1/2"	Stick lube sealant	16	1594224
700-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	2073504
700-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073510
700-V	4"	10"	Stick lube sealant	4	2073511
700-S-10	-	-	Bulk lube sealant	5 qt	1594223
700-S-40	-	-	Bulk lube sealant	5 gal	2073540
700-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073541
700-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	2073542

750 Series Special Low-Temp Synthetic Multi-Purpose Valve Lube

Special low temperature biodegradable synthetic multi-purpose valve lube sealant with moly-disulfide.

- » Temperature range: -50 – 375° F
- » Color: black



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
750-A	1/4"	1-1/2"	Stick lube sealant	48	2073505
750-B	3/8"	1-1/2"	Stick lube sealant	24	1674773
750-C	7/16"	2-1/8"	Stick lube sealant	24	2073506
750-D	1/2"	2-5/8"	Stick lube sealant	24	2073507
750-G	5/8"	3-1/2"	Stick lube sealant	24	2073508
750-J	1-3/8"	8-1/2"	Stick lube sealant	16	1974003
750-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	1973823
750-K	1-1/2"	10-1/2"	Stick lube sealant	12	1594194
750-V	4"	10"	Stick lube sealant	4	2073509
750-S-10	-	-	Bulk lube sealant	5 qt	1594193
750-S-40	-	-	Bulk lube sealant	5 gal	2073545
750-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	1594192
750-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	1594191

972 Series Multi-Purpose Valve Lube Sealant

Multi-purpose valve lube sealant with moly-disulfide.

- » General purpose product formulated for valves in high pressure and high temperature oil and gas service
- » Contains moly-disulfide to reduce operating torque
- » Temperature range: -20 – 600° F
- » Biodegradable
- » Color: black



Mfr. Model #	Diameter	Length	Type	Package Quantity	BSE Part #
972-A	1/4"	1-1/2"	Stick lube sealant	48	2073523
972-B	3/8"	1-1/2"	Stick lube sealant	24	1594066
972-C	7/16"	2-1/8"	Stick lube sealant	24	2073524
972-D	1/2"	2-5/8"	Stick lube sealant	24	2073525
972-G	5/8"	3-1/2"	Stick lube sealant	24	2073526
972-J	1-3/8"	8-1/2"	Stick lube sealant	16	1594065
972-J-6	1-3/8"	8-1/2"	Stick lube sealant	6	1594064
972-K	1-1/2"	10-1/2"	Stick lube sealant	12	2073527
972-V	4"	10"	Stick lube sealant	4	1594060
972-S-10	-	-	Bulk lube sealant	5 qt	1594063
972-S-40	-	-	Bulk lube sealant	5 gal	1594062
972-S-CT12	-	-	Bulk lube sealant	12 cartridges per carton	2073549
972-S-P	-	-	Bulk lube sealant	16 pks bulk per carton, 6 cartons per case	1594061

Dow Corning #732 Clear Sealant

General purpose silicone adhesive-sealant.

- » Acetoxy cure system
- » Complies with MIL-A-46106, FDA 177.2600
- » Excellent dielectric properties
- » Good adhesion to many substrates
- » One-component adhesive/sealant
- » Stable and flexible from -76 – 356° F, with short peaks up to 401° F



Mfr. Model #	Container Size	BSE Part #
732-CLR-10.3	10.3 oz	1672865
732-CLR-3	3 oz	1672864

NOTES

Natural Gas
catalog

TEST and MEASUREMENT



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Mechanical pressure gauges and CHART RECORDERS

McDaniel® Liquid Filled, Stainless Steel Case Utility Gauges

Designed for the price-conscience buyer who has an emphasis on maintaining quality in a general purpose gauge.

- » Glycerin filled, stainless steel case with brass internals
- » Designed for applications in a corrosive atmosphere and where pulsation and/or vibrations are present
- » Temperature utilization: -4 – 176° F
- » Other materials, sizes, ranges and special configurations to fit a wider variety of applications available.



HOW TO ORDER

1. Select the model number (T6 or J6)
2. Specify range code from the list to the right
3. Specify mounting code (Bottom Connection is standard, no code):
"L" = Center-Back connection
"U" = U-Clamp, center-back connection
"P" = Panel Mount with front flange, center-back connection
4. Specify any other configurations or options (Special NPT size, dual scales, etc.)

Example: T 6-1K-P
T 6 = 2" dial
1K = 1000 PSI range
P = Panel Mount

Model number	Mounting code	Mounting	Graphic
J 6 2-1/2" (63 mm)	Standard, no code	J 6 Bottom Connect	
	L	J 6 Center-Back	
	U	J 6 U-Clamp	
	P	J 6 Panel Mount	
T 6 2" (50 mm)	Standard, no code	T 6 Bottom Connect	
	L	T 6 Center Back	

Model number	Mounting code	Mounting	Graphic
T 6 2" (50 mm)	U	T 6 U-Clamp	
	P	T 6 Panel Mount	

Range Code	Range PSI	Minor Increments
A	0 – 15	1/2
B	0 – 30	1
C	0 – 60	1
D	0 – 100	2
E	0 – 160	5
F	0 – 200	5
G	0 – 300	10
H	0 – 400	10
I	0 – 600	20
J	0 – 800	20
1K*	0 – 1000	20
L	0 – 1500	50
M	0 – 2000	50
N	0 – 3000	100
4K	0 – 4000	100
O	0 – 5000	100
6K	0 – 6000	200
P	0 – 10000	200
Q	0 – 15000	500

Range code	Pressure range	Minor Increments
Vacuum		
S	VAC 30" Hg – 0	1
Receiver		
T	REC 3 – 15**	2
Compound		
U	30" Hg + 15	1–0–2
V	30" Hg + 30	1–0–2
W	30" Hg + 60	2–0–5
X	30" Hg + 100	2–0–5
Y	30" Hg + 160	2–0–10
2K	30" Hg + 200	5–0–15
Z	30" Hg + 300	10–0–30

Special Configuration Code	Description
B	PSI/Bar (dual scale) (nonstock)
K	PSI/kPa (dual scale) (nonstock)
1/8	1/8" NPT (nonstock on J6)

* Use 1K on T6 and J6 for 0 – 1000 PSI range

** Receiver gauge is dual scale. (0 – 100% primary, 0 – 10 square root secondary)



Stainless Steel Industrial Gauges

- » 1/4" NPT stem mount connector on the bottom of the gauge
- » Built-in over-range and under-range protection
- » Gauges come with removable stainless steel restrictor
- » Reinforced sector improves accuracy over life of gauge



Mfr. Model #	Maximum Operating Pressure	Type	BSE Part #
40SSDLQ-0/15	15 psi	Dry	1672902
40SSDLQ-0/60	60 psi	Dry	1672897
40SSDLQ-0/500	500 psi	Dry	1672898

Painted Steel Case NPT Pressure Gauge

- » 1/4" NPT stem mount connector on the bottom of the gauge
- » Case size is 2-1/2"



Mfr. Model #	Maximum Operating Pressure	Type	BSE Part #
25PBDLQ-0/300	300 psi	Dry	1674839
25PBDLQ-0/400	400 psi	Dry	1674841

Stainless Steel or Brass Case Utility Gauges

- » 1/4" NPT stem mount connector on the bottom of the gauge
- » Case size is 2-1/2"



Mfr. Model #	Material	Maximum Operating Pressure	Type	BSE Part #
25CBDLQ-0/15	Stainless steel	15 psi	Dry	1672965
25CBWLQ-0/30	Stainless steel	30 psi	Wet	1672960
25CBDLQ-0/100	Stainless steel	100 psi	Dry	1671728
25CBWLQ-0/200	Stainless steel	200 psi	Wet	1672961
25CBWLQ-0/15000	Stainless steel	1,500 psi	Wet	1671931
25BBWL-0/60	Brass	60 psi	Wet	1671829
25BBWL-0/100	Brass	100 psi	Wet	1671780

Painted Steel Case Pressure Gauge

Black painted steel case utility pressure gauge

- » 1/4" NPT stem mount connector on the bottom of the gauge
- » Phosphor bronze pressure sensing element
- » Case size is 2-1/2"



Mfr. Model #	Maximum Operating Pressure	Type	BSE Part #
25PPDLQ-30IN	10 psi	Dry	1672955

Pressure or Temperature Recorders, 2 Pens 8 and 12"

Heavy aluminum die-cast case with hammertone grey finish, 316SS element, 1/4" NPT connection.

- » Mercury filled bourdon coil with invar case compensation and 5' flexible SS armor to 10-1/2" x 5/8" diameter SS bulb with 1/2" adjustable fitting (45-15)
- » PC-11 BOCD (less than battery), draw pull latch with hasp, weather tight window and door, air vent holes, corrosion-resistant internals, felt tip pen, micro adjustment, web linkage and a manual



Mfr. Model #	Mounting Type	Type of Connection	Case Size	BSE Part #
382	Wall	Bottom	8"	2108106
383	Flush	Back	8"	2108107
384	Pipestand	Bottom	8"	2108108
385	Portable	Back	8"	2108109
322	Wall	Bottom	12"	2108110
323	Flush	Back	12"	2108111
324	Pipestand	Bottom	12"	2108113
325	Portable	Back	12"	2108114

Digital

PRESSURE GAUGES

DPG2000B-D4 Digi-Max Digital Pressure Gauges

- » Battery life to 1000 hours
- » 4 digit display
- » ±0.25% accuracy
- » 316 stainless steel sensor
- » User settable 1 minute to 8 hour auto shutoff
- » All metal housing
- » Includes 2 AAA batteries FM approved Class I, Division 1, Groups A, B, C, D



Rubber Boot not included with purchase of Gauges.

Available options:

- » PSIG ranges from 0 – 5000, PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15

Mfr. Model #	Description	Pressure Range	Memory	BSE Part #
DPG2000B15PSIG-D4-M2	-	0 – 15 psig	Min/max	2971691
DPG2000B60PSIG-D4-M2	-	0 – 60 psig	Min/max	2971694
DPG2000B100PSIG-D4-M2	-	0 – 100 psig	Min/max	2971696
DPG2000B200PSIG-D4-M2	-	0 – 200 psig	Min/max	2971698
DPG2000B300PSIG-D4-M2	-	0 – 300 psig	Min/max	2971700
DPG2000B500PSIG-D4-M2	-	0 – 500 psig	Min/max	2971701
DPG2000B1000PSIG-D4-M2	-	0 – 1000 psig	Min/max	2971702
DPG2000B2000PSIG-D4-M2	-	0 – 2000 psig	Min/max	2971703
DPG2000BBL500PSIGD40N	Red LED display backlight	0 – 500 psig	None	2924782
DPG2000BBL1000PSIGD40N	Red LED display backlight	0–1000 psig	None	2924783
DPG2000BBL85INH20GD40N	Red LED display backlight	0–85 inches H2O (20° C)	None	2924784

F22B Digi-Max+ Digital Pressure Gauges

- » Selectable auto shutoff time
- » $\pm 0.25\%$ accuracy
- » Pass code protected setup and calibration
- » 2000 hour battery life
- » Includes 2 AA batteries, 4 digit display



Rubber Boot not included
with purchase of Gauge.



Available options:

- » PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15, -15 PSI vacuum to 200 PSIG range

Mfr. Model #	Pressure Range	Enclosure Protection	Memory	BSE Part #
F22B3PSIG	0 – 3 psig	-	Min/max	2971826
F22B5PSIG	0 – 5 psig	-	Min/max	2971827
F22B15PSIG	0 – 15 psig	-	Min/max	2971831
F22B30PSIG	0 – 30 psig	-	Min/max	2971833
F22B60PSIG	0 – 60 psig	-	Min/max	2971834
F22B100PSIG	0 – 100 psig	-	Min/max	2971836
F22B200PSIG	0 – 200 psig	-	Min/max	2971838
F22B300PSIG	0 – 300 psig	-	Min/max	2971840
F22B500PSIG	0 – 500 psig	-	Min/max	2971841
F22B1000PSIG	0 – 1000 psig	-	Min/max	2971842
F22B2000PSIG	0 – 2000 psig	-	Min/max	2971843
F22B3000PSIG	0 – 3000 psig	-	Min/max	2971844
F22B5000PSIG	0 – 5000 psig	-	Min/max	2971845
F22BN3PSIG	0 – 3 psig	4X	Min/max	2971846
F22BN5PSIG	0 – 5 psig	4X	Min/max	2971847
F22BN15PSIG	0 – 15 psig	4X	Min/max	2971851
F22BN30PSIG	0 – 30 psig	4X	Min/max	2971853
F22BN60PSIG	0 – 60 psig	4X	Min/max	2971854
F22BN100PSIG	0 – 100 psig	4X	Min/max	2971856
F22BN200PSIG	0 – 200 psig	4X	Min/max	2971858
F22BN300PSIG	0 – 300 psig	4X	Min/max	2971860
F22BN500PSIG	0 – 500 psig	4X	Min/max	2971861
F22BN1000PSIG	0 – 1000 psig	4X	Min/max	2971862
F22BN2000PSIG	0 – 2000 psig	4X	Min/max	2971863
F22BN3000PSIG	0 – 3000 psig	4X	Min/max	2971864
F22BN5000PSIG	0 – 5000 psig	4X	Min/max	2971865

F16B Digi-Max Digital Pressure Gauges

- » Able to retain min/max at power off
- » $\pm 0.25\%$ accuracy
- » Internal buttons for setup and calibration
- » User settable auto shutoff
- » Includes 2 AA batteries, 4 digit display



Rubber Boot not included
with purchase of Gauge.



Available options:

- » PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15, -15 PSI vacuum – 200 PSIG range

Mfr. Model #	Pressure Range	Enclosure Protection	Memory	BSE Part #
F16B3PSIG	0 – 3 psig	-	Min/max	2971726
F16B5PSIG	0 – 5 psig	-	Min/max	2971727
F16B15PSIG	0 – 15 psig	-	Min/max	2971731
F16B30PSIG	0 – 30 psig	-	Min/max	2971733
F16B60PSIG	0 – 60 psig	-	Min/max	2971734
F16B100PSIG	0 – 100 psig	-	Min/max	2971736
F16B200PSIG	0 – 200 psig	-	Min/max	2971738
F16B300PSIG	0 – 300 psig	-	Min/max	2971740
F16B500PSIG	0 – 500 psig	-	Min/max	2971741
F16B1000PSIG	0 – 1000 psig	-	Min/max	2971742
F16B2000PSIG	0 – 2000 psig	-	Min/max	2971743
F16BN3PSIG	0 – 3 psig	4X	Min/max	2971746
F16BN5PSIG	0 – 5 psig	4X	Min/max	2971747
F16BN15PSIG	0 – 15 psig	4X	Min/max	2971751
F16BN30PSIG	0 – 30 psig	4X	Min/max	2971753
F16BN60PSIG	0 – 60 psig	4X	Min/max	2971754
F16BN100PSIG	0 – 100 psig	4X	Min/max	2971756
F16BN200PSIG	0 – 200 psig	4X	Min/max	2971758
F16BN300PSIG	0 – 300 psig	4X	Min/max	2971760
F16BN500PSIG	0 – 500 psig	4X	Min/max	2971761
F16BN1000PSIG	0 – 1000 psig	4X	Min/max	2971762
F16BN2000PSIG	0 – 2000 psig	4X	Min/max	2971763
F16BN3000PSIG	0 – 3000 psig	4X	Min/max	2971764
F16BN5000PSIG	0 – 5000 psig	4X	Min/max	2971765



F16ADA Digital Pressure Gauges with Alarms

- » Test function for relays, front buttons for setpoints and calibration, powered by 8 – 24 V AC 50/60 Hz or 9 – 32 V DC
- » Two programmable SPDT alarm relays
- » Programmable alarm types
- » Programmable for 1% deadband or adjustable hysteresis
- » 4 digit display, $\pm 0.25\%$ accuracy



Available options:

- » PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15, -15 PSI vacuum – 200 PSIG range

Mfr. Model #	Pressure Range	BSE Part #
F16ADA3PSIG	0 – 3 psig	2971706
F16ADA5PSIG	0 – 5 psig	2971707
F16ADA15PSIG	0 – 15 psig	2971711
F16ADA30PSIG	0 – 30 psig	2971713
F16ADA60PSIG	0 – 60 psig	2971714
F16ADA100PSIG	0 – 100 psig	2971716
F16ADA200PSIG	0 – 200 psig	2971718
F16ADA300PSIG	0 – 300 psig	2971720
F16ADA500PSIG	0 – 500 psig	2971721
F16ADA1000PSIG	0 – 1000 psig	2971722
F16ADA2000PSIG	0 – 2000 psig	2971723
F16ADA3000PSIG	0 – 3000 psig	2971724
F16ADA5000PSIG	0 – 5000 psig	2971725

F16DR Digital Pressure Gauges with Current Output

- » Analog output, powered by 8 – 24 V AC or 9 – 32 V DC
- » 4 – 20mA analog output
- » 4 digit display, $\pm 0.25\%$ accuracy
- » mA output powers current loop
- » Output test function



Available options:

- » PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15, -15 PSI vacuum – 200 PSIG range

Mfr. Model #	Pressure Range	BSE Part #
F16DR3PSIG-I	0 – 3 psig	2971766
F16DR5PSIG-I	0 – 5 psig	2971767
F16DR15PSIG-I	0 – 15 psig	2971771
F16DR30PSIG-I	0 – 30 psig	2971773
F16DR60PSIG-I	0 – 60 psig	2971774
F16DR100PSIG-I	0 – 100 psig	2971776
F16DR200PSIG-I	0 – 200 psig	2971778
F16DR300PSIG-I	0 – 300 psig	2971780
F16DR500PSIG-I	0 – 500 psig	2971781
F16DR1000PSIG-I	0 – 1000 psig	2971782
F16DR2000PSIG-I	0 – 2000 psig	2971783
F16DR3000PSIG-I	0 – 3000 psig	2971784
F16DR5000PSIG-I	0 – 5000 psig	2971785

Protective Rubber Boot

Protection for all Cecomp gauges except NEMA 4X models.



Gauge not included with purchase of Rubber Boot

Mfr. Model #

RB



BSE Part #

2924785

F16L Programmable 2-Wire Loop Powered Pressure Transmitters

- » Available with NEMA 4X housing, 4-20mA output
- » Programmable output range
- » $\pm 0.25\%$ accuracy
- » Output test button, adjustable test
- » 4 digit display



Available options:

- » PSIA ranges from 0 – 100, PSI vacuum ranges from 0 – 15, -15 PSI vacuum – 200 PSIG range

Mfr. Model #	Pressure Range	Enclosure Protection	BSE Part #
F16L3PSIG	0 – 3 psig	-	2971786
F16L5PSIG	0 – 5 psig	-	2971787
F16L ± 15 PSIG	± 15 psig	-	2971790
F16L15PSIG	0 – 15 psig	-	2971791
F16L30PSIG	0 – 30 psig	-	2971793
F16L60PSIG	0 – 60 psig	-	2971794
F16L100PSIG	0 – 100 psig	-	2971796
F16L200PSIG	0 – 200 psig	-	2971798
F16L300PSIG	0 – 300 psig	-	2971800
F16L500PSIG	0 – 500 psig	-	2971801
F16L1000PSIG	0 – 1000 psig	-	2971802
F16L2000PSIG	0 – 2000 psig	-	2971803
F16L3000PSIG	0 – 3000 psig	-	2971804
F16L5000PSIG	0 – 5000 psig	-	2971805
F16LN3PSIG	0 – 3 psig	4X	2971806
F16LN5PSIG	0 – 5 psig	4X	2971807
F16LN15PSIG	0 – 15 psig	4X	2971811
F16LN30PSIG	0 – 30 psig	4X	2971813
F16LN60PSIG	0 – 60 psig	4X	2971814
F16LN100PSIG	0 – 100 psig	4X	2971816
F16LN200PSIG	0 – 200 psig	4X	2971818
F16LN300PSIG	0 – 300 psig	4X	2971820
F16LN500PSIG	0 – 500 psig	4X	2971821
F16LN1000PSIG	0 – 1000 psig	4X	2971822
F16LN2000PSIG	0 – 2000 psig	4X	2971823
F16LN3000PSIG	0 – 3000 psig	4X	2971824
F16LN5000PSIG	0 – 5000 psig	4X	2971825

NIST Traceable Calibration Data Certificate

- » 5 test points
- » Gauge model and serial number
- » Date of test



Mfr. Model #

NC

BSE Part #

2971866



Thermal IMAGERS

62 MAX Infrared Thermometers

Extremely accurate and easy to use.

- » Hi and low alarms for measurements outside the limits
- » Dual rotating lasers to help identify measurement area, 32 – 122° F operating temperature
- » Dust, water and drop resistant, ergonomic design

FLUKE



Mfr. Model #	Response Time	Typical Runtime	Resolution	Temperature Range	Battery	BSE Part #
FLUKE-62-MAX	<500 ms	10 hrs	10:1	-22 – 932° F	AA (1)	2800355
FLUKE-116/62MAX+	<300 ms	8 hrs	12:1	-22 – 1202° F	AA (1)	2921194

574 Precision Infrared Noncontact Thermometer

Deliver high resolution images where even the smallest temperature differences can be seen.

- » Customizable log names, alarms, and emissivity values for more efficient, less error-prone predictive maintenance routes
- » 30 pre-set common material emissivity values for most accurate readings
- » 100 temperature data logging capability for easy route review
- » DIF/AVG measurement calculations instantly computed
- » Thermocouple K probe input for contact temperature measurements

FLUKE



Mfr. Model #	Spotting Distance	Temperature Range	Battery	BSE Part #
FLUKE-574	60:1	-30 – 900° C	AA (2)	1975313

VT02 Visual Infrared Thermometers

Combines the convenience of a spot thermometer with the visual advantage of a thermal imager.

- » NEAR/FAR allows simultaneous images

FLUKE



Mfr. Model #	Operating Temperature	Typical Runtime	Frequency	Temperature Range	Battery	BSE Part #
FLK-VT02	14 – 113° F	8 hrs	8 Hz	14 – 482° F	AA (4)	2864415

Ti125 Industrial-Commercial Thermal Imagers

The lightest and most rugged professional thermal imager.

- » IR-OptiFlex™ focus system—images are in good focus
- » Accurately identify potential issues by combining digital and IR images with AutoBlend
- » Multi-mode video recording
- » 14 – 122° F operating temperature

FLUKE



Mfr. Model #	Typical Runtime	Frequency	Temperature Range	Battery	BSE Part #
FLK-Ti125	4 hrs	9 Hz	-4 – 662° F	Rechargeable	2778705
FLK-Ti125-30HZ	4 hrs	30 Hz	-4 – 662° F	Rechargeable	2800105

435 II Energy Analyzer

Portable power quality instrument providing advanced power quality functionality and energy analysis capabilities.

- » 600 V CAT IV/1000 V CAT III rated for use at the service entrance
- » Configure for any test condition with memory for up to 600 parameters at user defined intervals
- » Power inverter efficiency, PowerWave data capture

FLUKE



Mfr. Model #	Operating Temperature	Frequency Range	Memory	BSE Part #
FLUKE-435-II/BASIC	0 °C ~ +40 °C	Signaling: 60 Hz to 3000 Hz	8GB SD card	2771991

Pyrometer

Dependable temperature measuring instruments for industrial and laboratory use

- » Automatic transit switch for meter protection when instrument is moved
- » Pyrometer accuracy is 1/2 percent of reading
- » Automatically adjusts to ambient temperature changes
- » No batteries required, eliminating danger from sparks
- » Thermocouple type: E phonoplug
- » Dimensions: 5-3/4 x 3.9 x 2.2"



Mfr. Model #	Description	BSE Part #
NMP-DW-06	Replacement probe	1593795
NMPDW06SS-12EP	Includes probe	1476913
SS-12EP	Surface sensor	1477342

Pyrometer



Mfr. Model #	Description	BSE Part #
GT-S1L	Pyrometer	1593823
GT-S1LCASE	Infrared carrying case	1672241

Natural Gas
Catalog

Pipeline PIGS



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Knapp Polly Pig Pipeline Cleaners

The manufacturer of quality urethane products for the pipeline industry and originator of polyurethane foam internal pipeline cleaners. These cleaners come in the following configurations:

- » Standard red series: 5 – 8 lbs per cu ft (80 – 128 kg per cu m) medium density foam with a tough red coating yields a strong resistance to wear, yet remains flexible.
- » Durable Crimson Series: 9 – 10 lbs per cu ft (144 – 160 kg per cu m) Hard density durable foam and toughest crimson coating give maximum wear resistance.
- » Flexible Blue Series Standard: 5 – 8 lbs per cu ft (80 – 128 kg per cu m) Same medium density foam as Red Series with a softer, more flexible blue coating.
- » Maximum Cleaning Series: Various foam densities and coatings maximum cleaning series are available in various densities and designs.
- » Swab Series: 1, 2 and 4 lbs per cu ft (16, 32 and 64 kg per cu m) soft bare swabs available 1, 2, or 4 lbs per cu ft (16, 32 and 64 kg/ml) density foams and the Hydropig is available in 2 lbs per cu ft (32 kg per cu m) density foam with flexible blue coating. Wire brush straps or silicone carbide can be incorporated in coating.

BARE

Red Bare Squeegee Polly Pig

- » Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE5-A-1	K-Lite urethane foam body	1"	1593564
STYLE5-A-11/4	K-Lite urethane foam body	1-1/4"	1593561
STYLE5-A-1-1/2	K-Lite urethane foam body	1-1/2"	2247571
STYLE5-A-2	K-Lite urethane foam body	2"	1672591
STYLE5-A-4	K-Lite urethane foam body	4"	1672590
STYLE5-A-6	K-Lite urethane foam body	6"	1593556
STYLE5-A-8	K-Lite urethane foam body	8"	1593555

Bare Swab Polly Pig

Maximum flexibility to negotiate extreme reductions in cross sectional diameter and tight bends.



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE5-B-1	Polyurethane foam 1 lb per ft	1"	2247572
STYLE5-B-1-1/4	Polyurethane foam 1 lb per ft	1-1/4"	1593552
STYLE5-B-1-1/2	Polyurethane foam 1 lb per ft	1-1/2"	2247573
STYLE5-B-2	Polyurethane foam 1 lb per ft	2"	1593549
STYLE5-B-4	Polyurethane foam 1 lb per ft	4"	1593545
STYLE5-B-6	Polyurethane foam 1 lb per ft	6"	1593511
STYLE5-B-8	Polyurethane foam 1 lb per ft	8"	1593510

Crimson Bare Squeegee Polly Pig

Suggested for use in constant dimensional lines and 1-1/2" radius or greater bends.

- » Recommended for pipe applications exceeding 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE2-A-1	Polyurethane foam 9 – 10 lb per ft	1"	2247522
STYLE2-A-1-1/4	Polyurethane foam 9 – 10 lb per ft	1-1/4"	2247523
STYLE2-A-1-1/2	Polyurethane foam 9 – 10 lb per ft	1-1/2"	2247524
STYLE2-A-2	Polyurethane foam 9 – 10 lb per ft	2"	1593613
STYLE2-A-4	Polyurethane foam 9 – 10 lb per ft	4"	2247525
STYLE2-A-6	Polyurethane foam 9 – 10 lb per ft	6"	2247526
STYLE2-A-8	Polyurethane foam 9 – 10 lb per ft	8"	2247527



Criss

CROSS

Crimson Criss Cross Wire Brush Polly Pig

Recommended for pipe where internal pipe conditions are extremely rough.

- » Recommended for pipe applications up to 25 miles
- » Suggested for use in constant dimensional lines and 1-1/2" radius or greater bends



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE2-C-1	Polyurethane foam 9 – 10 lb per ft	1"	2247531
STYLE2-C-1-1/4	Polyurethane foam 9 – 10 lb per ft	1-1/4"	2247532
STYLE2-C-1-1/2	Polyurethane foam 9 – 10 lb per ft	1-1/2"	2247533
STYLE2-C-2	Polyurethane foam 9 – 10 lb per ft	2"	1593603
STYLE2-C-4	Polyurethane foam 9 – 10 lb per ft	4"	2247534
STYLE2-C-6	Polyurethane foam 9 – 10 lb per ft	6"	2247535
STYLE2-C-8	Polyurethane foam 9 – 10 lb per ft	8"	2247536

Crimson Criss Cross Polly Pig

Recommended for pipe where internal pipe conditions are extremely rough.

- » Recommended for pipe applications up to 25 miles
- » Suggested for use in constant dimensional lines and 1-1/2" radius or greater bends



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE2-B-1	Polyurethane foam 9 – 10 lb per ft	1"	2247528
STYLE2-B-1-1/4	Polyurethane foam 9 – 10 lb per ft	1-1/4"	2247529
STYLE2-B-1-1/2	Polyurethane foam 9 – 10 lb per ft	1-1/2"	2247530
STYLE2-B-2	Polyurethane foam 9 – 10 lb per ft	2"	1593626
STYLE2-B-4	Polyurethane foam 9 – 10 lb per ft	4"	1593576
STYLE2-B-6	Polyurethane foam 9 – 10 lb per ft	6"	1593607
STYLE2-B-8	Polyurethane foam 9 – 10 lb per ft	8"	1593606

Red Criss Cross Polly Pig

May be used in pipelines with minor cross sectional diameter reductions or restrictions.

- » Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE1-C-1	Polyurethane foam 5 – 8 lb per ft	1"	1593636
STYLE1-C-11/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	1593633
STYLE1-C-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	1593634
STYLE1-C-2	Polyurethane foam 5 – 8 lb per ft	2"	1593629
STYLE1-C-4	Polyurethane foam 5 – 8 lb per ft	4"	1594309
STYLE1-C-6	Polyurethane foam 5 – 8 lb per ft	6"	1593624
STYLE1-C-8	Polyurethane foam 5 – 8 lb per ft	8"	1593623

Blue Plain Criss Cross Polly Pig

Blue coating is softer and more flexible. Ideal for use in lines with major reductions and cross sectional area and short radius bends.

- » Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE3-C-1	Polyurethane foam 5 – 8 lb per ft	1"	2247549
STYLE3-C-1-1/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247550
STYLE3-C-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247551
STYLE3-C-2	Polyurethane foam 5 – 8 lb per ft	2"	1593583
STYLE3-C-4	Polyurethane foam 5 – 8 lb per ft	4"	1593581
STYLE3-C-6	Polyurethane foam 5 – 8 lb per ft	6"	1593580
STYLE3-C-8	Polyurethane foam 5 – 8 lb per ft	8"	2247552

Red Plain Spiral Polly Pig

Made of polyurethane foam 5 – 8 lb per ft. May be used in pipelines with minor cross sectional diameter reductions or restrictions.

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE1-A-1	Polyurethane foam 5 – 8 lb per ft	1"	1593644
STYLE1-A-1-1/4CTS	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247513
STYLE1-A-1-1/2CTS	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247514
STYLE1-A-2	Polyurethane foam 5 – 8 lb per ft	2"	1593643
STYLE1-A-4	Polyurethane foam 5 – 8 lb per ft	4"	1593610
STYLE1-A-6	Polyurethane foam 5 – 8 lb per ft	6"	1593609
STYLE1-A-8	Polyurethane foam 5 – 8 lb per ft	8"	1593640

Blue Plain Spiral Polly Pig

Blue coating is softer and more flexible. Ideal for use in lines with major reductions and cross sectional area and short radius bends.

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE3-A-1	Polyurethane foam 5 – 8 lb per ft	1"	2247543
STYLE3-A-1-1/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247544
STYLE3-A-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247545
STYLE3-A-2	Polyurethane foam 5 – 8 lb per ft	2"	1593598
STYLE3-A-4	Polyurethane foam 5 – 8 lb per ft	4"	1593596
STYLE3-A-6	Polyurethane foam 5 – 8 lb per ft	6"	1593595
STYLE3-A-8	Polyurethane foam 5 – 8 lb per ft	8"	1593594

SPECIALTY

Red Criss Cross Silicone Carbide Polly Pig

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE1-D-1	Polyurethane foam 5 – 8 lb per ft	1"	2247519
STYLE1-D-1-1/4"	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247520
STYLE1-D-1-1/2"	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247521
STYLE1-D-2	Polyurethane foam 5 – 8 lb per ft	2"	1593619
STYLE1-D-4	Polyurethane foam 5 – 8 lb per ft	4"	1593617
STYLE1-D-6	Polyurethane foam 5 – 8 lb per ft	6"	1593616
STYLE1-D-8	Polyurethane foam 5 – 8 lb per ft	8"	1593615
STYLE1-D-12	Polyurethane foam 5 – 8 lb per ft	12"	1593620

Blue Silicone Carbide Criss Cross Polly Pig

Blue coating is softer and more flexible.

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE3-D-1	Polyurethane foam 5 – 8 lb per ft	1"	2247554
STYLE3-D-1-1/4"	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247555
STYLE3-D-1-1/2"	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247556
STYLE3-D-2	Polyurethane foam 5 – 8 lb per ft	2"	1593579
STYLE3-D-4	Polyurethane foam 5 – 8 lb per ft	4"	1593658
STYLE3-D-6	Polyurethane foam 5 – 8 lb per ft	6"	2247556
STYLE3-D-8	Polyurethane foam 5 – 8 lb per ft	8"	2247557



Totally Coated Silicone Carbide Polly Pig

Totally covered with silicone carbide chips.

- » Designed for shorter runs
- » Use caution in using where short radius bends reduce cross sectional conditions and low flow rates are present



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE4-C-1	Polyurethane foam 5 – 8 lb per ft	1"	2247565
STYLE4-C-1-1/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	1593565
STYLE4-C-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247566
STYLE4-C-2	Polyurethane foam 5 – 8 lb per ft	2"	2247567
STYLE4-C-4	Polyurethane foam 5 – 8 lb per ft	4"	2247568
STYLE4-C-6	Polyurethane foam 5 – 8 lb per ft	6"	2247569
STYLE4-C-9	Polyurethane foam 5 – 8 lb per ft	8"	2247570

Red Spiral Silicone Carbide Polly Pig

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE1-B-1	Polyurethane foam 5 – 8 lb per ft	1"	2247515
STYLE1-B-11/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	1593639
STYLE1-B-1-1/2"	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247516
STYLE1-B-2	Polyurethane foam 5 – 8 lb per ft	2"	1593638
STYLE1-B-4	Polyurethane foam 5 – 8 lb per ft	4"	1593637
STYLE1-B-6	Polyurethane foam 5 – 8 lb per ft	6"	2247517
STYLE1-B-8	Polyurethane foam 5 – 8 lb per ft	8"	2247518

Totally Coated Wire Brush Super Javelina Polly Pig

Made of polyurethane foam 5 – 8 lb per ft. Totally covered with wire brush straps in a slight spiral pattern.

- » Designed for long runs
- » Use caution in using where short radius bends reduce cross sectional conditions and low flow rates are present



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE4-B-1	Polyurethane foam 5 – 8 lb per ft	1"	2247560
STYLE4-B-1-1/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247561
STYLE4-B-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247562
STYLE4-B-2	Polyurethane foam 5 – 8 lb per ft	2"	2247563
STYLE4-B-4	Polyurethane foam 5 – 8 lb per ft	4"	1593567
STYLE4-B-6	Polyurethane foam 5 – 8 lb per ft	6"	2247564
STYLE4-B-8	Polyurethane foam 5 – 8 lb per ft	8"	1593566

Blue Silicone Carbide Spiral Polly Pig

Blue coating is softer and more flexible.

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE3-B-1	Polyurethane foam 5 – 8 lb per ft	1"	2247547
STYLE3-B-1-1/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	2247548
STYLE3-B-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247548
STYLE3-B-2	Polyurethane foam 5 – 8 lb per ft	2"	1593590
STYLE3-B-4	Polyurethane foam 5 – 8 lb per ft	4"	1593588
STYLE3-B-6	Polyurethane foam 5 – 8 lb per ft	6"	1593587
STYLE3-B-8	Polyurethane foam 5 – 8 lb per ft	8"	1593586

Red Criss Cross Javelina Wire Brush Polly Pig

» Recommended for pipe applications up to 25 miles



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE4-A-1	Polyurethane foam 5 – 8 lb per ft	1"	2247558
STYLE4-A-11/4	Polyurethane foam 5 – 8 lb per ft	1-1/4"	1593543
STYLE4-A-1-1/2	Polyurethane foam 5 – 8 lb per ft	1-1/2"	2247559
STYLE4-A-2	Polyurethane foam 5 – 8 lb per ft	2"	1593572
STYLE4-A-4	Polyurethane foam 5 – 8 lb per ft	4"	1593571
STYLE4-A-6	Polyurethane foam 5 – 8 lb per ft	6"	1593570
STYLE4-A-8	Polyurethane foam 5 – 8 lb per ft	8"	1593569

Hydro Polly Pig

Flexible blue coating.

» Maximum flexibility to negotiate extreme reductions in cross sectional diameter and tight bends.



Mfr. Model #	Material	Pipe Size	BSE Part #
STYLE5-C-1	Polyurethane foam 2 lb per ft	1"	2247574
STYLE5-C-1-1/4	Polyurethane foam 2 lb per ft	1-1/4"	2247575
STYLE5-C-1-1/2	Polyurethane foam 2 lb per ft	1-1/2"	2247576
STYLE5-C-2	Polyurethane foam 2 lb per ft	2"	1593541
STYLE5-C-4	Polyurethane foam 2 lb per ft	4"	1593540
STYLE5-C-6	Polyurethane foam 2 lb per ft	6"	2247577
STYLE5-C-8	Polyurethane foam 2 lb per ft	8"	2247578

Special designs for special APPLICATIONS

Double-Dished Ends

All Knapp Polly Pigs are available with both ends dished to enhance dewatering capabilities.



Pig Tracking Options

All Knapp Polly Pigs larger than 2" are available with cavities and retaining doors to carry electromagnetic or acoustix transmitters used to locate the pig's position.



Handling Ropes and Straps

All Knapp Polly Pigs are available with nylon handling ropes, lifting straps or steel wire cable.



Double-Nose Option

All Knapp Polly Pigs are available with noses on each end to give the pig enhanced bi-directional capability.



By-Pass Ports

All Knapp Polly Pigs are available with by-pass ports running from the base through the nose of the pig.



Extended Length Option

All Knapp Polly Pigs are available in extended length versions to assist the pig in passing through piggable wyes and offset or unbarred tees.



Natural Gas
catalog

POLYETHYLENE

pipe fittings and equipment



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Socket Fusion FITTINGS

Designed to provide long-term reliability and performance for gas distribution systems. More sizes available.

Socket Fusion Coupling



Mfr. Model #	Pipe Size	Material	BSE Part #
500063063011	1/2 CTS	PE 2406	1594446
500084084051	1/2 IPS	PE 2406	1594444
500105105081	3/4 IPS	PE 2406	1594442
500113113081	1 CTS	PE 2406	1594440
500132132081	1 IPS	PE 2406	1594436
500166166071	1-1/4 IPS	PE 2406	1594434
500238238081	2 IPS	PE 2406	1594432
500350350081	3 IPS	PE 2406	1594421
500063063012	1/2 CTS	PE 3408	1557426
500132132082	1 IPS	PE 3408	1594435
500238238082	2 IPS	PE 3408	1594431

Socket Fusion Reducer



Mfr. Model #	Pipe Size	Material	BSE Part #
504105063011	3/4 IPS x 1/2 CTS	PE 2406	1594409
504105084051	3/4 IPS x 1/2 IPS	PE 2406	1594408
504113063011	1 CTS x 1/2 CTS	PE 2406	1594391
504132084051	1 IPS x 1/2 IPS	PE 2406	1594406
504132105081	1 IPS x 3/4 IPS	PE 2406	1594405
504132113081	1 IPS x 1 CTS	PE 2406	1594404
504166063071	1-1/4 IPS x 1/2 CTS	PE 2406	1594403
504166105071	1-1/4 IPS x 3/4 IPS	PE 2406	1980246
504166113071	1-1/4 IPS x 1 CTS	PE 2406	1594402
504166132071	1-1/4 IPS x 1 IPS	PE 2406	1594401
504238113081	2 IPS x 1 CTS	PE 2406	1594400
504350238081	3 IPS x 2 IPS	PE 2406	1594399
504105063012	3/4 IPS x 1/2 CTS	PE 3408	1477123
504132063012	1 IPS x 1/2 CTS	PE 3408	1980248
504132105082	1 IPS x 3/4 IPS	PE 3408	1980249

NOTES

Socket Fusion Tee



Mfr. Model #	Pipe Size	Material	BSE Part #
503063063011	1/2 CTS	PE 2406	1980266
503084084051	1/2 IPS	PE 2406	1594417
503105105081	3/4 IPS	PE 2406	1594415
503132132081	1 IPS	PE 2406	1594414
503166166071	1 1/4 IPS	PE 2406	1594412
503238238081	2 IPS	PE 2406	1594411
503132132082	1 IPS	PE 3408	1594413

IPS Socket Fusion Cap



Mfr. Model #	Pipe Size	Material	BSE Part #
505084000051	1/2 IPS	PE 2406	1594397
505105000081	3/4 IPS	PE 2406	1594396
505113000081	1 CTS	PE 2406	1594395
505132000081	1 IPS	PE 2406	1594394
505166000071	1-1/4 IPS	PE 2406	1594392
505238000081	2 IPS	PE 2406	1792818
505350000081	3 IPS	PE 2406	1594423
505132000082	1 IPS	PE 3408	1594393

Tapping Tee Type II - Socket Outlet



Mfr. Model #	Pipe Size	Material	BSE Part #
547238084051	2 IPS x 1/2 IPS	PE 2406	1594246
547238063011	2 IPS x 1/2 CTS	PE 2406	1594347
547238105081	2 IPS x 3/4 IPS	PE 2406	1594245
547238113081	2 IPS x 1 CTS	PE 2406	1594340
547238132081	2 IPS x 1 IPS	PE 2406	1594334
547238166071	2 IPS x 1-1/4 IPS	PE 2406	1594333
547350063011	3 IPS x 1/2 CTS	PE 2406	1594332
547350113081	3 IPS x 1 CTS	PE 2406	1594330
547350132081	3 IPS x 1 IPS	PE 2406	1594344
547350166071	3 IPS x 1-1/4 IPS	PE 2406	1594293
547450113081	4 IPS x 1 CTS	PE 2406	1594323
547350132082	3 IPS x 1 IPS	PE 3408	1594295



Tapping Tee Type II - Socket Outlet with Sleeve



Mfr. Model #	Pipe Size	Punch Size	Material	BSE Part #
547238063015	2 IPS x 1/2 CTS	1/2"	PE 2406	1594346
547238105085	2 IPS x 3/4 IPS	1/2"	PE 2406	1594244
547238166075	2 IPS x 1-1/4 IPS	1/2"	PE 2406	1980259
547350063015	3 IPS x 1/2 CTS	1/2"	PE 2406	1594331
547350105085	3 IPS x 3/4 IPS	1/2"	PE 2406	1980257
547450105085	4 IPS x 3/4 IPS	1/2"	PE 2406	1594324
547663105085	6 IPS x 3/4 IPS	1/2"	PE 2406	1980255
547238113185	2 IPS x 1 CTS	3/4"	PE 2406	1594337
547350113185	3 IPS x 1 CTS	3/4"	PE 2406	1594329
547350132185	3 IPS x 1 IPS	3/4"	PE 2406	1792819
547663063015	6 IPS x 1/2 CTS	3/4"	PE 2406	1980258
547450063115	4 IPS x 1/2 CTS	1/2"	PE 2406	1980269
547238132086	2 IPS x 1 IPS	1/2"	PE 3408	1980260
547450063016	4 IPS x 1/2 CTS	1/2"	PE 3408	1980262
547450132086	4 IPS x 1 IPS	1/2"	PE 3408	1980261

Socket Fusion 90° Ell



Mfr. Model #	Pipe Size	Material	BSE Part #
502132132081	1 IPS	PE 2406	1677644
502238238081	2 IPS	PE 2406	1675207
502350350081	3 IPS	PE 2406	1594418
502132132082	1 IPS	PE 3408	1594419

Socket Couplings



Mfr. Model #	Pipe Size	Material	BSE Part #
1005155	1/2 CTS	PE2406/2708	1477335
1005168	3/4 IPS	PE2406/2708	1476991
1005199	1 CTS	PE2406/2708	1476943
1005209	1-1/4 CTS	PE2406/2708	1985480
1047269	1-1/2 IPS	PE2406/2708	1992741
1096401	1/2 CTS	PE3408/4710	2106523
1005182	1 IPS	PE2406/2708	1476888
1005232	2 IPS	PE2406/2708	1477115
1049959	1 CTS	PE3408/4710	1477291
1096406	3/4 IPS	PE3408/4710	2064114
1096472	1 IPS	PE3408/4710	2683293
1049959	1 CTS	PE3408/4710	1477291

Socket High Volume Tapping Tees



Mfr. Model #	Pipe Size	Material	BSE Part #
1087870	3 x 2 IPS	PE2406/2708	2477272
1087872	6 x 2 IPS	PE2406/2708	2477273
1098806	2 x 1/2 CTS	PE3408/4710	2786590
1098812	4 x 1/2 CTS	PE3408/4710	2786591
1098814	6 x 1/2 CTS	PE3408/4710	2786592
1098844	6 x 1 CTS	PE3408/4710	2786593

Socket Tapping Tees



Mfr. Model #	Pipe Size	Material	BSE Part #
1048816	1-1/4 x 1/2 CTS	PE2406/2708	2467904
1049253	1-1/4 x 3/4 IPS	PE2406/2708	2467905
1005065	1-1/4 x 1 IPS	PE2406/2708	1477337
1005120	1-1/4 x 1-1/4 IPS	PE2406/2708	2461584
1032711	2 x 3/4 IPS	PE2406/2708	2467906
1049473	2 x 1 CTS	PE2406/2708	2683285
1005078	2 x 1-1/4 IPS	PE2406/2708	2467910
1048851	3 x 1/2 CTS	PE2406/2708	1477364
1049260	3 x 3/4 IPS	PE2406/2708	2467907
1005091	3 x 1-1/4 IPS	PE2406/2708	2467911
1048975	4 x 1/2 CTS	PE2406/2708	2261938
1049291	4 x 3/4 IPS	PE2406/2708	2467908
1005102	4 x 1-1/4 IPS	PE2406/2708	2467912
1048895	6 x 1/2 CTS	PE2406/2708	1985496
2467909	6 x 3/4 IPS	PE2406/2708	1097321
1005110	6 x 1-1/4 IPS	PE2406/2708	2467914
1048788	8 x 1/2 CTS	PE2406/2708	2463565
1005058	8 x 1 CTS	PE2406/2708	2462265
1098833	2 x 1 CTS	PE3408/4710	2064118
1098836	3 x 1 CTS	PE3408/4710	2699930
1048530	4 x 1 CTS	PE3408/4710	1477063
1098844	6 x 1 CTS	PE3408/4710	2786593

Socket Purge Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1005221	1-1/2 IPS	PE2406/2708	2047563
1049627	2 IPS x 1/2 CTS	PE2406/2708	2683286
1102031	2 IPS x 1 CTS	PE2406/2708	2798095

Socket 90° Elbows



Mfr. Model #	Pipe Size	Material	BSE Part #
1005159	1/2 CTS	PE2406/2708	1477181
1005172	3/4 IPS	PE2406/2708	1992743
1005201	1 CTS	PE2406/2708	1477070
1005186	1 IPS	PE2406/2708	1992744
1005212	1-1/4 IPS	PE2406/2708	1985481
1005236	2 IPS	PE2406/2708	1985482
1049136	1-1/2 IPS	PE2406/2708	1992746
1096390	1/2 CTS	PE3408/4710	2786597

Socket 90° Reducers



Mfr. Model #	Pipe Size	Material	BSE Part #
1005326	3/4 IPS x 1/2 CTS	PE2406/2708	1477326
1005465	1 CTS x 1/2 CTS	PE2406/2708	1477368
1047409	1 CTS x 1/2 IPS	PE2406/2708	2477269
1005328	1 IPS x 1/2 CTS	PE2406/2708	2477270
1005374	1 IPS x 3/4 IPS	PE2406/2708	1992753
1047471	1 CTS x 3/4 IPS	PE2406/2708	1476935
1005333	1 IPS x 1 CTS	PE2406/2708	1476956
1005377	1-1/4 IPS x 3/4 IPS	PE2406/2708	1985489
1005378	1-1/4 IPS x 1 IPS	PE2406/2708	1992755
1005339	1-1/4 IPS x 1 CTS	PE2406/2708	1477179
1047549	1-1/2 IPS x 1-1/4 IPS	PE2406/2708	1992756
1005388	2 IPS x 1 IPS	PE2406/2708	1992757
1047594	2 IPS x 1 CTS	PE2406/2708	2573847
1005397	2 IPS x 1-1/4 IPS	PE2406/2708	1992759
1047595	2 IPS x 1-1/2 IPS	PE2406/2708	1992760
1096408	1 CTS x 1/2 CTS	PE3408/4710	2064116
1096445	1 CTS x 3/4 IPS	PE3408/4710	2244070
1096446	1 IPS x 1 CTS	PE3408/4710	2062452

Socket Tees



Mfr. Model #	Pipe Size	Material	BSE Part #
1005160	1/2 CTS	PE2406/2708	1477210
1096420	1/2 CTS	PE3408/4710	2786595
1096444	1 CTS	PE3408/4710	2064112

Socket End Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1005157	1/2 CTS	PE2406/2708	1476860
1005170	3/4 IPS	PE2406/2708	1477290
1005200	1 CTS	PE2406/2708	1476858
1005184	1 IPS	PE2406/2708	1477029
1005211	1-1/4 IPS	PE2406/2708	1677129
1005234	2 IPS	PE2406/2708	1985479
1096397	1/2 CTS	PE3408/4710	2786594
1096400	3/4 IPS	PE3408/4710	2064098
1096395	1 CTS	PE3408/4710	2064095

Socket Reducers



+GF+

Mfr. Model #	Pipe Size	Material	BSE Part #
6900007	1-1/2 IPS x 3/4 IPS	PE2406	2101385
6900021	1-1/2 IPS x 1 IPS	PE2406	2101387

Tapping Tees with Socket Outlet



+GF+

Mfr. Model #	Pipe Size	Material	BSE Part #
5757249	4 IPS x 1/2 CTS	PE2406	2463862

Butt Fusion FITTINGS

Designed to provide long-term reliability and performance for gas distribution systems.

Butt Fusion 90° Ell



Mfr. Model #	Pipe Size	Material	BSE Part #
512166166071	1-1/4 IPS	PE 2406	1594376
512238238081	2 IPS	PE 2406	1594375
512350350081	3 IPS	PE 2406	1967229
512450450081	4 IPS	PE 2406	1594472
512663663081	6 IPS	PE 2406	1594372
512863863081	8 IPS	PE 2406	1594371
512166166082	1-1/4 IPS	PE 3408	1980251
512450450082	4 IPS	PE 3408	1594373



Butt Fusion Tee



Mfr. Model #	Pipe Size	Material	BSE Part #
513238238081	2 IPS	PE 2406	1594370
513350350081	3 IPS	PE 2406	1792817
513450450081	4 IPS	PE 2406	1594369
513663663081	6 IPS	PE 2406	1950597
513863863081	8 IPS	PE 2406	1594367
513450450082	4 IPS	PE 3408	1594368

Tapping Tee Type II - Butt Outlet



Mfr. Model #	Pipe Size	Description	Material	BSE Part #
557450105081	4 IPS x 3/4 IPS	1/2" punch	PE 2406	1594316
557450105181	4 IPS x 3/4 IPS	3/4" punch	PE 2406	1594317
557450132181	4 IPS x 1 IPS	3/4" punch	PE 2406	1594318
557238063112	2 IPS x 1/2 CTS	3/4" punch	PE 3408	1594313

Butt Fusion Reducer



Mfr. Model #	Pipe Size	Material	BSE Part #
514238166071	2 IPS x 1-1/4 IPS	PE 2406	1594366
514238190081	2 IPS x 1-1/2 IPS	PE 2406	1594364
514350238081	3 IPS x 2 IPS	PE 2406	1594363
514450238081	4 IPS x 2 IPS	PE 2406	1594362
514450350081	4 IPS x 3 IPS	PE 2406	1980270
514663450081	6 IPS x 4 IPS	PE 2406	1950598
514238166072	2 IPS x 1-1/4 IPS	PE 3408	1594365
514450238082	4 IPS x 2 IPS SDR9	PE 3408	1980247

NOTES

Butt Fusion Cap



Mfr. Model #	Pipe Size	Material	BSE Part #
515166000071	1-1/4 IPS	PE 2406	1594361
515238000081	2 IPS	PE 2406	1594360
515350000081	3 IPS	PE 2406	1764648
515450000081	4 IPS	PE 2406	1594359
515663000081	6 IPS	PE 2406	1594390
515863000081	8 IPS	PE 2406	1594358
515450000082	4 IPS	PE 3408	1980245

Butt 45° Elbows



Mfr. Model #	Pipe Size	Material	BSE Part #
1005294	6 IPS	PE2406/2708	2683279
1079246	2 IPS	PE3408/4710	2786589
1006430	4 IPS	PE3408/4710	2064109
1006438	6 IPS	PE3408/4710	2654900
1007943	8 IPS	PE3408/4710	2654897

Butt 90° Elbows



Mfr. Model #	Pipe Size	Material	BSE Part #
1049239	1/2 CTS	PE2406/2708	2918967
1005178	3/4 IPS	PE2406/2708	1992761
1005193	1 IPS	PE2406/2708	1992762
1005215	1-1/4	PE2406/2708	1992763
1007514	3 IPS	PE2406/2708	1985483
1005295	6 IPS	PE2406/2708	2683280
1095296	8 IPS	PE2406/2708	2463146
1007901	3/4 IPS	PE3408/4710	2243398
1096349	1/2 IPS	PE3408/4710	2918983
1096443	1 CTS	PE3408/4710	2786598
1007911	1 CTS	PE3408/4710	2919108
1007916	1-1/4 IPS	PE3408/4710	2865159
1006422	2 IPS	PE3408/4710	2064113
1006432	4 IPS	PE3408/4710	2064115
1006440	6 IPS	PE3408/4710	2064117
1007944	8 IPS	PE3408/4710	2477256
1098506	8 IPS	PE3408/4710	2477258

Butt Tees



Mfr. Model #	Pipe Size	Material	BSE Part #
1005165	1/2 CTS	PE2406/2708	2918972
1005196	1 IPS	PE2406/2708	1992767
1005206	1 CTS	PE2406/2708	2918973
1005296	6 IPS DR 13.5	PE2406/2708	2683281
1006414	1/2 CTS	PE3408/4710	2243411
1007902	3/4 CTS	PE3408/4710	2243412
1006418	1 CTS	PE3408/4710	2918989
1007917	1-1/4 IPS	PE3408/4710	2865161
1006426	2 IPS	PE3408/4710	2064093
1006434	4 IPS	PE3408/4710	2033927
1006442	6 IPS	PE3408/4710	2064097
1007945	8 IPS	PE3408/4710	2683282
1100054	8 IPS	PE3408/4710	2477260

Butt Outlet Tapping Tees



Mfr. Model #	Pipe Size	Material	BSE Part #
1047333	2 x 2 IPS	PE2406/2708	1477223
1047368	4 x 2 IPS	PE2406/2708	1477023
1050644	6 x 1 CTS	PE2406/2708	2970283
1047389	6 x 2 IPS	PE2406/2708	1477237
1062016	3 x 2 IPS	PE2406/2708	1477083
1097543	2 x 2 IPS	PE3408/4710	2064094
1048988	3 x 1/2 CTS	PE3408/4710	2970288
1097614	4 x 2 IPS	PE3408/4710	2064100
1048964	6 x 1/2 CTS	PE3408/4710	2970285
1049396	6 x 1 CTS	PE3408/4710	2970287
1050112	6 x 2 IPS	PE3408/4710	2244259

Butt Training Tapping Tee



Mfr. Model #	Pipe Size	Material	BSE Part #
1110293	1-1/4 X 1/2 CTS	PE2406/2708	2655242
1110295	1-1/4 x 3/4 IPS	PE2406/2708	2655243
1005342	2 x 1/2 CTS	PE2406/2708	1477251

Butt Reducers



Mfr. Model #	Pipe Size	Material	BSE Part #
1047912	1 IPS x 1/2 CTS	PE2406/2708	2918968
1047914	1 IPS-11 X 3/4 IPS	PE2406/2708	2047554
1005380	1-1/4 IPS-10 X 1 IPS-11	PE2406/2708	2047556
1047982	1-1/4 IPS x 1 CTS	PE2406/2708	2918969
1075420	1-1/2 IPS x 3/4 IPS	PE2406/2708	2047558
1005384	1-1/2 X 1 IPS-11	PE2406/2708	2047560
1047988	2 X 1 IPS-11	PE2406/2708	2047561
1005398	2 IPS x 1-1/4 IPS	PE2406/2708	1985490
1005402	2 X 1-1/2 IPS-11	PE2406/2708	2047562
1005433	4 IPS -11/11.5 X 2 IPS-11	PE2406/2708	1477257
1005440	4 X 3 IPS-11/11.5	PE2406/2708	1476984
1005452	6 X 4 IPS-11/11.5	PE2406/2708	1477241
1005461	8 X 6 IPS-11/11.5	PE2406/2708	1677128
1096021	3/4 IPS-11 X 1/2 CTS	PE3408/4710	2243405
1071055	1 IPS-11 X 1/2 CTS	PE3408/4710	2243406
1036888	1 IPS -11 X 3/4 IPS-11	PE3408/4710	2243407
1007964	1-1/4 IPS X 1 IPS-11	PE3408/4710	2243408
1007977	2 IPS X 1-1/4 IPS-11	PE3408/4710	2243409
1005417	3 IPS DR11/11.5 x 2 IPS DR 11	PE2406/2708	1477340
1006466	4 IPS X 2 IPS-11	PE3408/4710	2064096
1007992	4 X 3 IPS-11	PE3408/4710	2057175
1006469	6 IPS X 4 IPS	PE3408/4710	2064108
1047277	8 X 6 IPS-13.5	PE3408/4710	2683284

Butt End Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1005225	1/2 IPS	PE2406/2708	1985487
1049760	1/2 IPS	PE2406/2708	2683287
1005162	1/2 CTS	PE2406/2708	2918963
1005176	3/4 IPS	PE2406/2708	2918962
1005203	1 CTS	PE2406/2708	2918964
1005191	1 IPS	PE2406/2708	2918965
1005293	6 IPS	PE2406/2708	2683278
1006413	1/2 CTS	PE3408/4710	2243396
1007900	3/4 IPS	PE3408/4710	2865160
1006416	1 CTS	PE3408/4710	2918982
1007908	1 IPS	PE3408/4710	2243397
1006428	4 IPS	PE3408/4710	2064111
1006436	6 IPS	PE3408/4710	2064110
1007942	8 IPS	PE3408/4710	2654896



Tapping Tee Test Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1048176	1/4" QD female coupling	PE2406/2708	1477045
1048208	1/4" QD and hose assembly	PE2406/2708	2654845
1048242	1/4" QD female coupling	PE3408/4710	2654843
1048245	1/4" QD and hose assembly	PE3408/4710	2654844

Butt x Socket Purge Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1049846	2 IPS x 1/2 CTS	PE2406/2708	2573931
1049885	3 IPS x 1/2 CTS	PE2406/2708	2699401
1049982	4 IPS x 1/2 CTS	PE2406/2708	2683288
1100232	4 IPS x 1 CTS	PE2406/2708	2683292
1047170	6 IPS x 1/2 CTS	PE2406/2708	2798100
1066615	6 IPS x 1 CTS	PE2406/2708	2683289

Purge Caps



Mfr. Model #	Pipe Size	Material	BSE Part #
1100484	1-1/4 IPS	PE2406/2708	2916283
1100482	2 IPS	PE2406/2708	2671574

Plexco Style Tapping Tee Replacement Caps



Mfr. Model #	Description	Material	BSE Part #
1048175	65M HVT Concept 1 with gasket	PE2406/2708	2583684
1048177	65M HVT Concept 2 with gasket	PE2406/2708	2718007
1073428	81M Concept 1 with gasket	PE3408/4710	2477265

Branch Nipples



Mfr. Model #	Pipe Size	Length	Material	BSE Part #
1047578	3"	18"	PE2406/2708	2477274

Electrofusion

FITTINGS

Reducers

4.7 R pin type.


+GF+

Mfr. Model #	Pipe Size	Material	BSE Part #
5757070	1 IPS x 1/2 CTS	PE2406/2708	2653854
10000481	1 CTS x 1/2 CTS	PE2406/2708	2653814
10000479	1 CTS x 3/4 IPS	PE2406/2708	2653813
5757071	1 IPS x 1 CTS	PE2406/2708	2462224
10008218	1 CTS x 1-1/4 IPS	PE2406/2708	2695623
10004632	1-1/4 IPS x 2 IPS	PE2406/2708	2699354
10008849	3/4" IPS - 1" CTS	PE3408/4710	2840117

Tapping Tees (EFTT) with Butt Outlet

» 4.7 R pin type


+GF+

Mfr. Model #	Pipe Size	Clamp Style	Cutter Size	BSE Part #
5757019	3 IPS x 1/2 CTS	C	0.5	3015344

Tapping Tees (EFTT) with Butt Outlet

» 4.7 R pin type


+GF+

Mfr. Model #	Pipe Size	Clamp Style	Cutter Size	BSE Part #
10004527	6 IPS x 1 CTS	E	0.8	2709463
10010427	8 - 10 IPS x 3/4 IPS	Underpart	0.8	2796147
10004572	8 - 10 IPS x 1 CTS	H	0.8	2675294

High Volume Tapping Tees

» 4.7 R pin type


+GF+

Mfr. Model #	Pipe Size	Clamp Style	Cutter Size	BSE Part #
10009676	8 IPS x 2 IPS	H	1.8	2699359
10009718	3 IPS x 2 IPS	Underpart	1.8	2699356
10009724	4 IPS x 2 IPS	Underpart	1.8	2699357
10009730	6 IPS x 2 IPS	Underpart	1.8	2699358

High Volume Tapping Tees (EF HVTT)

» 4.7R = 4.7 Pin with resistor



+GF+

Mfr. Model #	Pipe Size	Clamp Style	Cutter Size	Material	BSE Part #
5757114	2 IPS x 2 IPS	B	1.5	PE2406/2708	1985444
10010072	4 IPS x 2 IPS	-	1.8	PE2406/2708	2796521
10009496	3 IPS x 2 IPS	C	1.8	PE2406/2708	2729279
10009498	2 IPS x 4 IPS	D	1.8	PE2406/2708	1985446

Tees

Electrofusion tees, 4.7 R pin type.



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Mfr. Model #	Pipe Size	Material	BSE Part #
5751587	2 IPS	PE3408/4710	2653846

Tapping Tees

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Mfr. Model #	Pipe Size	Wall Thickness	Material	BSE Part #
10010501	1-1/4 IPS x 1/2 CTS	0.09	PE3408/4710	2699361
10010566	1-1/4 IPS x 1 CTS	0.101	PE3408/4710	2699360
10010093	2 IPS x 1 CTS	0.101	PE3408/4710	2699362
10010499	3 IPS x 1/2 CTS	0.09	PE3408/4710	2699365
10010500	3 IPS x 1 CTS	0.101	PE3408/4710	2699364
10010502	4 IPS x 1/2 CTS	0.09	PE3408/4710	2699367
10010503	4 IPS x 1 CTS	0.101	PE3408/4710	2699366
10010504	6 IPS x 1/2 CTS	0.09	PE3408/4710	2699369
10010505	6 IPS x 1 CTS	0.101	PE3408/4710	2699368

High Volume Tapping Tee (EF HVTT) with Sleeve

+GF+

Mfr. Model #	Pipe Size	SDR	Material	BSE Part #
10010493	2" IPS x 2" IPS	11	PE3408	2699355

End Caps

» 4.7 R pin type



+GF+

Mfr. Model #	Pipe Size	Dimensions	Material	BSE Part #
5760300	1/2 CTS	1.87 x 3.15	PE3408/4710	2653860
10004867	1 CTS	2.32 x 2.98	PE3408/4710	2653821
5760303	3/4 IPS	2.32 x 3.52	PE3408/4710	2653861
5760307	1-1/4 IPS	3 x 5.13	PE3408/4710	2653862
5760311	2 IPS	3.82 x 4.94	PE3408/4710	2653863
10004565	4 IPS	6.51 x 10.89	PE3408/4710	2653820

Branch Saddles - Full Pressure

» 4.7 R pin type



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Mfr. Model #	Pipe Size	Clamp Style	BSE Part #
10004539	6 IPS x 4 IPS	G	2786492
10007711	8 IPS x 2 IPS	H	2467439

Mechanical FITTINGS

MetFit Coupling

Mechanical fittings seal flawlessly on the smooth inside surface of polyethylene pipe; doesn't depend on O-rings or gaskets to seal, it seals by compression of the pipe into grooves on the metal stiffener.



Mfr. Model #	Pipe Size	Wall Thickness	SDR	BSE Part #
600063063012	1/2 CTS	0.09"	7	1594301
600084084052	1/2 IPS	0.09"	9.3	1594300
600105105082	3/4 IPS	0.095"	11	1594296
600113113092	1 CTS	0.099"	11	1594291
600113113002	1 CTS	0.09"	12.5	1594292
600132132082	1 IPS	0.199"	11	1594290
601166166072	1-1/4 IPS	0.166"	10	1594280
601166166082	1-1/4 IPS	0.151"	11	1594276
601238238082	2 IPS	0.216"	11	1594275

MetFit Cap

Mechanical fittings seal flawlessly on the smooth inside surface of polyethylene pipe; doesn't depend on O-rings or gaskets to seal, it seals by compression of the pipe into grooves on the metal stiffener.



Mfr. Model #	Pipe Size	Wall Thickness	SDR	BSE Part #
605063000012	1/2 CTS	0.09"	7	1594259
605063000072	1/2 CTS	0.062"	10	1594258
605084000052	1/2 IPS	0.09"	9.3	1594257
605105000082	3/4 IPS	0.095"	11	1594256
605113000002	1 CTS	0.09"	12.5	1594255
605113000092	1 CTS	0.099"	11	1594254
605166000072	1-1/4 IPS	0.166"	11	1594253
605238000082	2 IPS	0.216"	11	1594252

MetFit Tee

Mechanical fittings seal flawlessly on the smooth inside surface of polyethylene pipe; doesn't depend on O-rings or gaskets to seal, it seals by compression of the pipe into grooves on the metal stiffener.



Mfr. Model #	Pipe Size	Wall Thickness	SDR	BSE Part #
603063063012	1/2 CTS	0.09"	7	1594272
603105105082	3/4 IPS	0.095"	11	1594271
603113113092	1 CTS	0.099"	11.5	1594269
603238238082	2 IPS	0.216"	11	1980265
603113063002	1 CTS x 1/2 CTS	0.09"	-	1594270
603132063002	1 IPS x 1/2 CTS	0.09"	-	1594268

MetFit Reducer

Mechanical fittings seal flawlessly on the smooth inside surface of polyethylene pipe; doesn't depend on O-rings or gaskets to seal, it seals by compression of the pipe into grooves on the metal stiffener.



Mfr. Model #	Pipe Size	Wall Thickness	SDR	BSE Part #
604063063002	1/2 CTS x 1/2 CTS	0.09" x 0.062"	7, 10	1594267
604084063002	1/2 IPS x 1/2 CTS	0.09" x 0.09"	9.3, 7	1594266
604105063002	3/4 IPS x 1/2 CTS	0.095" x 0.09"	11, 7	1594264
604105084002	3/4 IPS x 1/2 IPS	0.095" x 0.09"	11, 9.3	1994953
604132084002	1 IPS x 1/2 IPS	0.119" x 0.09"	11-9.3	2107648
604113105002	1 CTS x 3/4 IPS	0.09" x 0.095"	12.5-11	1594262
604113063012	1 CTS x 1/2 CTS	0.099" x 0.09"	11.5-7	1594263
604132113092	1 IPS x 1/2 IPS	0.119" x 0.099"	11-11.5	1594261
604166113002	1-1/4 IPS x 1 CTS	0.09" x 0.099"	-	1594279
604166113072	1-1/4 IPS x 1 CTS	0.09" x 0.09"	-	1594233
604238113002	2 IPS x 1 CTS	0.216" x 0.099"	-	1594234
604238166002	2 IPS x 1-1/4 IPS	0.216" x 0.09"	-	1594235

MetFit 90° Elbow

Mechanical fittings seal flawlessly on the smooth inside surface of polyethylene pipe; doesn't depend on O-rings or gaskets to seal, it seals by compression of the pipe into grooves on the metal stiffener.



Mfr. Model #	Pipe Size	Wall Thickness	SDR	BSE Part #
602063063012	1/2 CTS	0.09"	7	1594274
602113113092	1 CTS	0.99"	11.5	1594273

Metfit Tools and Jaws

» ASTM D 2513 specified



Mfr. Model #	Description	Type	BSE Part #
727007	1/2" CTS – 1-1/4" CTS, Includes pins	Series 200 MetFit v-tool	1594212
727006	2" IPS	Series 200 MetFit tool	1594213
727401	1/2" – 1-1/4" CTS	Pins for MetFit v-tool	1594200
727001	1/2" CTS. Commonly referred to as a Nutcracker	MetFit installation tool	1594214
727100	1/2" CTS; 1/2" IPS; 3/4" IPS; 1" CTS	Universal adapter jaws for MetFit	1594208
727101	1/2" CTS	Adapter jaws for MetFit v-tool	1594207
727102	1/2" IPS – 3/4" CTS	Adapter jaws for MetFit v-tool	1594206
727131	1" IPS - 1-1/4" CTS	Adapter jaws for MetFit v-tool	1594203
727112	3/4" IPS	Adapter jaws for MetFit v-tool	1594205
727121	1" CTS	Adapter jaws for MetFit v-tool	1594204
727206	1-1/4" IPS	Hydraulic adapter jaws for MetFit	1594202
727207	2" IPS	Hydraulic adapter jaws for MetFit	1594201

Permasert® XL PE-to-PE Mechanical Couplings

Non-corrosive and require no cathodic protection or protective coatings.



Mfr. Model #	Pipe Size	SDR	BSE Part #
55182	6 IPS	11.5	2567927
55196	8 IPS	11	2567951

Permasert® Mechanical Couplings

Non-corrosive and require no cathodic protection or protective coatings.

» PE4710/Bimodal PE3408 material



Mfr. Model #	Pipe Size	SDR	BSE Part #
50030	3/4 IPS	11	1751487
50601	1 IPS	11	1751504
50361	1-1/2 IPS	11	2694417
50035010	1-1/4 IPS	9.3/10	2694416
50031	1-1/4 IPS	11	1751473
50314	2 IPS	11	2694418

Permasert® Ells

Allows for installation of 90° elbows or branches in gas lines.

» Non-corrosive, PE4710/Bimodal PE3408



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
50294	1/2 CTS	0.062"	2729085
51620	3/4 IPS	SDR 11	1751482
51333	1 CTS	0.090/0.099/0.102"	2653874
50636	1 IPS	SDR 11	1751516
50325010	1-1/4 IPS	SDR 10	2694419
50988	1-1/4 IPS	SDR 11	1751474
50315	2 IPS	SDR 11	2694420

Permasert® Tees

Allows for installation of 90° elbows or branches in gas lines.

» Non-corrosive, PE4710/Bimodal PE3408



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
50199	1/2 CTS	0.090"	2653871
50929	3/4 IPS	SDR 11	2653873
50292	1 CTS	0.090/0.099/0.102"	2653872
50634	1 IPS	SDR 11	1751515
50327010	1-1/4 IPS	SDR 10	2694422
50989	1-1/4 IPS	SDR 11	1751510
50316	2 IPS	SDR 11	2694423

Permasert® Reducing Couplings

Non-corrosive and require no cathodic protection or protective coatings.

» Non-corrosive, PE4710/Bimodal PE3408 material



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
50129	1/2 CTS x 1/2 CTS	0.09"; 0.062"	2697072
50149	1/2 CTS x 1 CTS	0.09"; 0.09/0.099/0.102"	2429227
50751	1/2 IPS x 1/2 CTS	SDR 9.3; 0.09"	1993101
50969	3/4 IPS x 1/2 CTS	SDR 11; 0.09"	1751521
50148	3/4 IPS x 1 CTS	SDR 11; 0.09/0.099/0.102"	1974705
50641	1 IPS x 1/2 CTS	0.090"; 0.09/0.099/0.102"	1751495
51432	1 IPS x 3/4 IPS	SDR 11; SDR 11	1751486
50623	1 IPS x 1 CTS	SDR 11; 0.09/0.099/0.102"	1974706
51677	1-1/4 IPS x 3/4 IPS	SDR 11; SDR 11	2697069
50194	1-1/4 IPS x 1 CTS	SDR 11; 0.09/0.099/0.102"	2653870
50643	1-1/4 IPS x 1 IPS	SDR 11; SDR 11	1751517
51480	2 IPS x 1-1/4 IPS	SDR 11	1751519

PermaLock® Mechanical Tapping Tees

Offers safety, integrity and speed when connecting a service line to a gas main.

» PE4710/Bimodal PE3408



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
55702	2 IPS x 1/2 CTS	0.090"	1751518
55951	2 IPS x 1 IPS	SDR 11	1751520
55901	2 IPS x 3/4 IPS	SDR 11	1751511
55979	2 IPS x 1-1/4 IPS	SDR 11	1751514
55716	4 IPS x 1/2 CTS	0.090"	1751508
55902	4 IPS x 3/4 IPS	SDR 11	1751479
55953	4 IPS x 1 IPS	SDR 11	1751488
55987	4 IPS x 1-1/4 IPS	SDR 11	1751489
55992	4 IPS x 2 IPS	SDR 11	1751491
55401	6 IPS x 3/4 CTS	0.090"	1751484
55441	6 IPS x 3/4 IPS	SDR 11	1751477
55461	6 IPS x 1 IPS	SDR 11	1751492
55471	6 IPS x 1-1/4 IPS	SDR 11	1751480
55491	6 IPS x 2 IPS	SDR 11	1751493
55651	-	Test cap assembly	1751478

Blind End Cap

Cap signifies that both ends of the product are functional, one end showing and one end covered by cap.

» PE4710/Bimodal PE3408



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
50026	3/4 IPS	SDR 11	1974704
50045	1 CTS	0.09/0.099/0.102"	1477141
51501	1 IPS	SDR 11	1751505
50027	1-1/4 IPS	SDR 11	1751523
50317	2 IPS	SDR 11	2303941

Blind End Stubs

May be used at the end of a service line or to permanently shut off a service.

» Non-corrosive, PE4710/Bimodal PE3408



Mfr. Model #	Pipe Size	SDR / Wall Thickness	BSE Part #
50015	1/2 CTS	0.09"	1751525
50809	3/4 IPS	SDR 11	1751494
50612	1 IPS	SDR 11	1751501
50028	1-1/4 IPS	SDR 11	1751509



Chamfering Tools and Tool Kits

Create a proper O.D. chamfer allowing for stabbing of the PE piping into Permasert couplings.



Mfr. Model #	Pipe Size	Description	BSE Part #
51016	1/2 CTS x 3/4 IPS	Chamfering tool	1751483
51004	1/2 CTS x 1 CTS	Chamfering tool	2262867
51008	3/4 IPS x 1 IPS	Chamfering tool	1751500
51028	1-1/4 CTS x 1-1/4 IPS	Chamfering tool	1751476
51040	2 IPS	Chamfering tool	1751512
51070	-	Replacement blade for 1/2 CTS – 1-1/4 IPS tools	1751507
52427	-	Replacement blade for 2 IPS tools	1751496

LYCOFIT® Fittings

The safest, most cost effective solution for field assembly and repair of natural gas and propane gas polyethylene (PE) pipe distribution systems.



Couplings

Mfr. Model #	Pipe Size	Wall Thickness	BSE Part #
LC010B-DER	1/2 CTS	.09/SDR 7	1672696
LC-060Y-DER	3/4 IPS	SDR 11	1672694
LC020B-DER	3/4 CTS	.09	2110388
LC030D-DER	1 CTS	.099/SDR 11.5	1672695
LC-070Y-DER	1 IPS	SDR 11	1672693
LC200Y-DESR	2 IPS	SDR 11	2034453

End Caps

Mfr. Model #	Pipe Size	SDR	BSE Part #
LC070Y-ECR	1 IPS	SDR 11	2107417

Single Ratchet Press

Lightweight, durable, single ratchet field assembly tool that installs couplings from 1/2" CTS/IPS through 1" IPS.

- » Provides perfect alignment and precision installation



Mfr. Model #	Pipe Size	BSE Part #
QRP-100	1/2 CTS – 1 IPS	2303848

Single Ratchet Press

Lightweight, durable, single ratchet field assembly tool that installs couplings from 1/2" CTS/IPS through 1" IPS.

- » Provides perfect alignment and precision installation



Mfr. Model #	Pipe Size	BSE Part #
QRP-100	1/2 CTS – 1 IPS	2303848

Single Ratchet Press

Installs medium to large sized piping systems, couplings from 3/4 – 2 IPS

- » Provides perfect alignment and precision installation



Mfr. Model #	Pipe Size	BSE Part #
QRP-200	3/4 IPS – 2 IPS	2303849

Fusion

EQUIPMENT

OutRider 1500 Sidewall Fusion Machine

Designed for quick and accurate fusing of 1/2" – 4" sidewall fittings and outlets on all sizes and densities of polyolefin pipe.

- » True centerline fusion force is applied through the centerline of the fitting
- » Fitting holder can be positioned quickly and easily
- » Accommodates an impress ranges of sizes 1/2" and larger
- » Standard 4" pivoting fitting holder
- » No maintenance intensive threaded rod



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Mfr. Model #	Description	Pressure Gauge	Weight	BSE Part #
28-0602-8452-40	Fitting holder	300 lbs	21 lb	1594931
28-0602-8612-40	Chain shell	300 lbs	31 lb	1793002
28-0602-8442-40	4 R shell	300 lbs	33 lb	1594933
28-0602-8450-40	Fitting holder	600 lbs	21 lb	1594932
28-0602-8610-40	Chain shell	600 lbs	31 lb	1594928
28-0602-8440-40	4 R shell	600 lbs	33 lb	1594935
28-0602-8441-40	4 R shell	1500 lbs	33 lb	1594934

Combination Tapping Tee Face Sets

Two piece male and female.



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Tapping Tee Face Sets

Mfr. Model #	Pipe Size	Description	BSE Part #
28-0101-2000-40	2 IPS	Low profile smooth	1595068
28-0101-2500-40	3 IPS	Low profile smooth	1595067
28-0101-3000-40	4 IPS	Low profile smooth	1595066
28-0101-3500-40	6 IPS	Low profile smooth	1595065
28-0101-4000-40	8 IPS	Low profile smooth	1595064
28-8101-8650-30	2 IPS	Serrated	1594873
28-8101-8700-30	3 IPS	Serrated	1594872
28-8101-8750-30	4 IPS	Serrated	1594871

Combination Tapping Tee Face Sets

28-0101-8000-40	1 1/4 x 1/2 CTS	Low profile smooth	1595063
28-0101-8150-40	1 1/4 x 3/4 IPS	Low profile smooth	1595062
28-0102-8050-40	2 x 1/2 IPS	Low profile smooth	1595051
28-0102-8000-40	2 x 1/2 CTS	Low profile smooth	1595052
28-0102-8150-40	2 x 3/4 IPS	Low profile smooth	1595050
28-0102-8200-40	2 x 1 CTS	Low profile smooth	1595049
28-0102-8250-40	2 x 1 IPS	Low profile smooth	1595048
28-0103-8000-40	3 x 1/2 CTS	Low profile smooth	1595018
28-0103-8200-40	3 x 1 CTS	Low profile smooth	1595042
28-0104-8000-40	4 x 1/2 CTS	Low profile smooth	1595041
28-0104-8200-40	4 x 1 CTS	Low profile smooth	1595040
28-0104-8250-40	4 x 1 IPS	Low profile smooth	1595039
28-8102-9100-30	2 x 3/4 IPS	Serrated	1594861
28-8102-8540-30	2 x 1/2 CTS	Low profile serrated	1594864
28-8102-8560-30	2 x 3/4 IPS	Low profile serrated	1594863
28-8102-8570-30	2 x 1 CTS	Low profile serrated	1594862

High-Volume Punch Tee Face Sets

28-0103-0300-40	2 IPS	Low profile smooth	1595047
28-0103-0330-40	3 IPS	Low profile smooth	1595046
28-0103-0360-40	4 IPS	Low profile smooth	1595045
28-0103-0390-40	6 IPS	Low profile smooth	1595060

Fitting Line Holders

For the SA140 and OutRider1500 Sidewall Fusion Machines.

+GF+

Mfr. Model #	Size	BSE Part #
28-0602-8820-40	2.75 x 2"	1594927
28-0602-8590-40	4.5 x 2.375"	1681294
28-0602-8550-40	4.5 x 2.46/2.4"	1594929
28-0602-8500-40	4.5 x 3.55/3.5"	1594930

Rounding Shell Liners

For the SA140 and OutRider1500 Sidewall Fusion Machines.

+GF+

Mfr. Model #	Size	BSE Part #
28-0602-4770-40	2 x 1 1/4 IPS	1594939
28-0602-2340-40	4 x 1 1/4 IPS	1594943
28-0602-2310-40	4 x 2 IPS	1594944
28-0602-2410-40	4 x 3 IPS	1594942

SA140 Spacers

For the SA140 Sidewall Fusion Machine.

+GF+

Mfr. Model #	Size	BSE Part #
28-0602-1100-40	0.875"	1594945
28-0602-1080-40	1.375"	1594946
28-0602-1040-40	4.25"	1594947

Chain Shell Bolster Plates

For the SA140 and OutRider1500 Sidewall Fusion Machines.

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Mfr. Model #	Description	BSE Part #
28-8602-8720-20	2 Chain shell bolster	1594547
28-8602-8730-20	3 Chain shell bolster	1594546
28-8602-8740-20	4 Chain shell bolster	1594545
28-8602-8750-20	6 Chain shell bolster	1594544

CF14 Butt Fusion Machine

A highly versatile butt fusion machine that uses centerline applied force. This equipment is able to fuse IPS, metric and DIPS pipe as well as fittings, valves, tees, elbows and pups.

- » True centerline fusion force provides even loading around the circumference of the pipe ends for symmetrical bead formation
- » Detachable handles can be arranged to permit fusion from either side of the joining assembly
- » Limited three-year warranty



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Mfr. Model #	IPS Range	BSE Part #
28-0204-3020-40	3/4" - 4"	1595012



14M Replacement Parts and Accessories

For the CF14 Butt Fusion Machine.

+GF+

Mfr. Model #	Description	BSE Part #
28-8204-7200-30	Facer assembly (120 V AC)	1594780
28-8204-5000-30	14M Cart assembly	1594777
28-8204-4400-30	Outrigger assembly (set of 2)	1594781
28-8204-7951-30	Heater assembly 120 V (with removable butt plates)	1594766
28-0204-4560-40	Facer blade set	1595015
28-8153-3230-30	Butt plate set	1594792
28-0153-5000-40	TD3 adapter to MAC 14 BF machine	1704573
28-8204-4010-20	Centrefuse base	1594788
28-8204-3550-10	Heater bag	1594789

14M Liners

Butt fusion liners for the CF14 Butt Fusion Machine.

» Requires 2 IPS Master



+GF+

Mfr. Model #	Description	BSE Part #
280204615040	1" IPS 14M Butt fusion liners	1595008
28-0204-6110-40	1-1/4" IPS 14M Butt fusion liners	1595009
28-0204-6090-40	1-1/2" IPS 14M Butt fusion liners	1595010
28-0204-6070-40	2" IPS Liners for 14M CF 14 Butt fusion	1595354
28-0204-6030-40	3" IPS 14M Butt fusion liners	1595017
28-0204-6010-40	4" IPS Liners for 14M Butt fusion, set of 4	1595016
28-0204-6170-40	1" CTS 14M Butt fusion liners	1595007
28-0204-6390-40	1-1/2" CTS 14M Butt fusion liners	2089143
28-0204-6350-40	25 mm 14M Butt fusion liners	1594998
28-0204-6330-40	32 mm 14M Butt fusion liners	1594999
28-0204-6310-40	40 mm 14M Butt fusion liners	1595000
28-0204-6290-40	50 mm 14M Butt fusion liners	1595001
28-0204-6270-40	63 mm 14M Butt fusion liners	1595002
28-0204-6250-40	75 mm 14M Butt fusion liners	1595003
28-0204-6230-40	90 mm 14M Butt fusion liners	1595004
28-0204-6210-40	100 mm 14M Butt fusion liners	1595005
28-0204-6190-40	110 mm 14M Butt fusion liners	1595006

NOTES

28EP (CF-28) Butt Fusion Machine

Fuses an impressive range of polyolefin IPS, metric and DIPS pipe sizes. It can also fuse a variety of polyvalves, pups and mitered elbows. Offers three pressure settings for facing, heating and fusing and its joining assembly can deliver 7,000 pounds of centerline-applied cylinder force.

- » True centerline fusion force provides even loading around the circumference of the pipe ends for symmetrical bead formation
- » Ported for DataConnect or other competitive data recorders
- » Three-clamp unit quick-releases for in-the-ditch work
- » Hydraulic front pipe lifter with an option rear manually operated pipe lifter
- » Includes joining assembly, facer assembly, heater assembly with butt plates, hydraulic power unit, 8 DIPS to 8 IPS liners and a heater/facer carrier
- » Miter joint capability handles up to an 8" IPS and DIPS sizes



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Mfr. Model #	IPS Range			BSE Part #
28-0208-9400-40	2 - 8"			1594982
Specifications	Length	Width	Height	Weight
Carriage unit	28.88"	31.06"	23.75"	173 lb
Carriage mounted on frame	62.25"	36.88"	42.56"	590 lb
120 V AC Single Phase		Watts	Amps	
Heater		2200	18.3	
Hydraulic pump motor		2047	17	
Total power consumption		4247	35.3	

28EP Replacement Parts and Accessories

Replacement parts for the 28EP (CF-28) Butt Fusion Machine.

+GF+

Mfr. Model #	Description	BSE Part #
28-0208-3570-40	Butt plate set	1800718
28-0208-4560-40	Facer blade set	1594994
28-8208-3500-30	Heater assembly 120 V (with removable butt plates)	1594764

28EP Liners

Butt fusion liners for the 28EP (CF-28) Butt Fusion Machine.

» Requires 4 DIPS Master



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Mfr. Model #	Description	BSE Part #
28-0208-6070-40	2 IPS Liners	1594988
28-0208-6030-40	3 IPS Liners	1594990
28-0208-6010-40	4 IPS Liners	1594991
28-0208-6100-40	6 IPS Liners	1594987
28-0208-6000-40	8 IPS Liners	1594993
28-0208-6200-40	4 DIPS (Master) Liners	1594985
28-0208-6050-40	6 DIPS Liners	1594989

314EP Butt Fusion Machines

One of the most versatile electric machines on the market today. Its sturdy rectangular frame design provides a rigid and safe fusion platform from which it can handle most fittings, including the fabrication of 12" elbows.

- » Unique manifold system with a frame-integrated fluid tank prevents overheating of hydraulic oil
- » Ball bearing facer design driven by a durable electric motor beefy enough to cut thick walled pipe
- » Includes joining assembly, facer assembly, heater assembly with butt plates, electric hydraulic system, and insulated heater storage bag
- » Preset three individual pressure zones for facing, heating and fusion cycles



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Mfr. Model #	Description		Force		BSE Part #
100600	240 V configuration with electric hydraulic system		Limited to 14,136 lb total interfacial force		1595412
Specifications	Length	Width	Height	Weight	Ground Clearance
Carriage unit	31.5"	33.5"	24.7"	267 lb	4.7"
Carriage mounted on frame	65.9"	44.2"	38"	810 lb	-
240 VAC Single Phase		Watts			Amps
Facer motor		1152			4.8
Heater		2500			10.4
Hydraulic motor		1495			6.9
Total power consumption		5195			22.1

Replacement Parts and Accessories

Replacement parts for the 314EP Butt Fusion Machine.

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Mfr. Model #	Description	BSE Part #
500299	Facer blade set	1594429
600210	Heater iron, 120 V	1594286

314 Liners

Butt fusion liners for the 314HP and 314EP Butt Fusion Machines.



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Mfr. Model #	Description	BSE Part #
900472	3 IPS fusion liners	1594094
900473	4 IPS fusion liners	1594093
900476	6 IPS fusion liners	1594092
900478	8 IPS fusion liners	1594091
900479	10 IPS fusion liners	1594090
900480	12 IPS fusion liners	1594089
900491	8 DIPS fusion liners	1594088
900493	12 DIPS fusion liners	1594087

314HP Butt Fusion Machines

Powered by an easy to maintain hand pump and pressure gauge. Its sturdy rectangular frame design provides a rigid and safe fusion platform.

- » Ported for the DataConnect or other competitive data recorders
- » Three-clamp unit quick-releases for in-the-ditch butt or side fusion work
- » Ball bearing facer design driven by a durable electric motor beefy enough to cut thick walled pipe
- » Includes joining assembly, facer assembly, heater assembly with butt plates, hand pump hydraulic system and insulated heater storage bag



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Mfr. Model #	Description	Force			BSE Part #
100421	120 V configuration with hand pump hydraulic system	Limited to 2,940 lbs total interfacial force			1595413
Specifications		Length	Width	Height	Weight
Carriage unit		31.5"	33.5"	24.7"	267 lb
Carriage mounted on frame		35.9"	44.2"	38"	556 lb
120 V AC Single Phase		Watts			Amps
Facer motor		1200			10
Heater		2500			20.8
Total power consumption		3700			30.8

314 Replacement Parts and Accessories

Replacement parts for the 314 HP Butt Fusion Machine.

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Mfr. Model #	Description	BSE Part #
500299	Facer blade set	1594429
600210	Heater iron, 120 V	1594286

314 Liners

Butt fusion liners for the 314 HP and 314EP Butt Fusion Machine.

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Mfr. Model #	Description	BSE Part #
900472	3 IPS fusion liners	1594094
900473	4 IPS fusion liners	1594093
900476	6 IPS fusion liners	1594092
900478	8 IPS fusion liners	1594091
900479	10 IPS fusion liners	1594090
900480	12 IPS fusion liners	1594089
900491	8 DIPS fusion liners	1594088
900493	12 DIPS fusion liners	1594087

Universal Electrofusion Barcode Processor

Universal electrofusion processor with attached barcode wand. Operating modes: barcode and manual.

- » Fusion storage: 300 fusions
- » Operating temperature: 0 – 120° F



Mfr. Model #	Dimensions	BSE Part #
10EF-969-0001	14.25 x 11 x 13"	1675405

Phoenix Battery Processor

- » Can fuse up to 4" couplers at voltages ranging from 8 – 48 V
- » Splash proof and highly shock-resistant
- » 9 Ah lead acid pack power source



Mfr. Model #	Dimensions	BSE Part #
10EF-806-0007	19.125 x 15.5 x 7.5"	2038149

MSA 340 Electrofusion Machine

- » New software is able to decipher the ASTM barcodes and document data in .PDF or .CSV memory downloads, equipped with barcode reader
- » Robust, cast aluminum housing, made of high quality components
- » Selectable menu language, clear and explicit error messages
- » USB interface for memory download and software update
- » 3 operating modes: Auto-ID, Barcode and Manual
- » Full traceability including GPS
- » Prevention of electrical damage



Mfr. Model #	Description	BSE Part #
10010411	MSA340 electrofusion processor	3013412
10011438	Protective case for MSA340	3013417

Socket Fusion Joining Kits

Socket fusion joining kits contain all the tools required to fuse join one size pipe with couplings and fittings.

- » Kit includes; fusion kit box, heater, clamp style heater holder, socket heater faces (two sets), combination chamfer tool/depth gauge (two sizes), cold ring (two sizes), tubing cutter, electronic timer, hex driver (3/16"), screw driver, heater face towel, auxiliary handle (supplied on 3" and 4" sets), fitting holder (supplied on 3" and 4" sets) and heater bag
- » Socket fusion joining tools can be purchased as a kit or as separate components
- » All socket surfaces are coated



Mfr. Model #	Pipe Size	BSE Part #
28-0152-7000-40	1/2 IPS - 2 IPS	1595020
28-0152-9200-40	3 IPS - 4 IPS	1595019

Heater Tools

Socket fusion heater tools.



Mfr. Model #	Description	BSE Part #
28-8153-0300-30	120 V heating tool	1594798
28-0153-3000-40	TD-3 heater with a 20' cord, 120 V	1595014

Socket Fusion Faces

- » Two piece - male and female
- » Black teflon coating
- » F1056 ASTM specifications



Mfr. Model #	Pipe Size	BSE Part #
28-0150-8050-40	1/2 IPS	1595033
28-0150-8150-40	3/4 IPS	1595031
28-0150-8250-40	1 IPS	1595029
28-0150-8350-40	1-1/4 IPS	1595043
28-0150-8450-40	1-1/2 IPS	1595026
28-0150-8550-40	2 IPS	1595025
28-0150-8800-40	3 and 4 IPS	1595022
28-0150-8650-40	3 IPS	1595024
28-0150-8750-40	4 IPS	1595023
28-0150-8000-40	1/2 CTS	1477052
28-0150-8100-40	3/4 CTS	1595032
28-0150-8200-40	1 CTS	1476909
28-0150-8300-40	1-1/4 CTS	1595028

Combination Chamfering Tool and Depth Gauges

Conventional fusion tools and depth gauges.

- » Aluminum body, replaceable blades
- » F1056 ASTM specifications



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Mfr. Model #	Pipe Size	Description	Weight	BSE Part #
10006070	1/2 IPS	Chamfering tool and depth gauge	0.2 lb	1594814
10006069	1/2 CTS	Chamfering tool and depth gauge	0.2 lb	1476965
10006071	3/4 IPS	Chamfering tool and depth gauge	0.2 lb	1477189
28-8151-4100-30	3/4 CTS	Chamfering tool and depth gauge	0.2 lb	1594813
10006073	1 IPS	Chamfering tool and depth gauge	0.3 lb	1594810
10006072	1 CTS	Chamfering tool and depth gauge	0.2 lb	1476978
10006074	1-1/4 IPS	Chamfering tool and depth gauge	0.4 lb	1594808
28-8151-4300-30	1-1/4 CTS	Chamfering tool and depth gauge	0.4 lb	1594809
10006075	1-1/2 IPS	Chamfering tool and depth gauge	0.4 lb	1594807
10006076	2 IPS	Chamfering tool and depth gauge	0.4 lb	1594806
28-0151-0000-40	-	Replacement blade kit	-	1595021

Chamfering Tools

Socket fusion chamfering tools.

- » Aluminum body, replaceable blades
- » F1056 ASTM specifications



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Mfr. Model #	Pipe Size	Weight	BSE Part #
28-8151-4600-30	3" IPS	3.3 lb	1594805
28-8151-4650-30	4" IPS	3.7 lb	1594804

Depth Gauge Tools

Conventional socket fusion depth gauges.

- » F1056 ASTM specifications



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Mfr. Model #	Pipe Size	BSE Part #
28-8108-8050-10	1/2 IPS	1594830
28-8108-8000-10	1/2 CTS	1594838
555DG1750000	3/4 IPS	1594829
28-8108-8100-10	3/4 CTS	2073457
555DG1010000	1 IPS	1594827
28-8108-8200-10	1 CTS	1594828
555DG1120000	1-1/4 IPS	1594826
28-8108-8300-10	1-1/4 CTS	2073458
555DG1150000	1-1/2 IPS	2073459
555DG1020000	2 IPS	1594825
28-8108-8800-23	-	1594824

Cold Rings (Grip Style)

Conventional fusion socket cold rings.

- » F1056 ASTM specifications



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Mfr. Model #	Pipe Size	BSE Part #
550CR0500000	1/2 IPS	1594847
550CR0620000	1/2 CTS	1476916
550CR0750000	3/4 IPS	1476928
28-8107-1400-30	3/4 CTS	1594846
550CR0010000	1 IPS	1594843
550CR0110000	1 CTS	1594844
550CR0120000	1-1/4 IPS	1594841
28-8107-2700-32	1-1/4 CTS	1594842
550CR0150000	1-1/2 IPS	1594840
28-8107-2720-32	1-1/2 CTS	2073455
550CR0020000	2 IPS	1594839
28-8107-2740-32	2 CTS	2073456

Cold Rings (Clamp Style)

Conventional fusion socket cold rings.

- » F1056 ASTM specifications



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Mfr. Model #	Pipe Size	BSE Part #
000500	1-1/4 IPS	1671874
000501	1-1/2 IPS	1671875
000502	2 IPS	1671989
28-8107-4110-34	2 IPS	1594834
000503	3 IPS	1671990
550CR0030000	3 IPS	2073453
000504	4 IPS	1671991
550CR0040000	4 IPS	2073454
000505	6 IPS	1671992

Socket Fitting Holders

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Mfr. Model #	Pipe Size	BSE Part #
000235	2" IPS	1671892
000327	3" IPS	1671893
000330	4" IPS	1671894



Clamp Kits and Liners

Pipe clamp kits and liners.



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Mfr. Model #	Pipe Size	Description	BSE Part #
5750048	8 IPS	Pipe clamp kit	2752212
5750066	6 IPS	Pipe clamp kit, set of 2 clamps, does not include base	2049711
5750262	-	Dovetail connecting bar kit, does not include base	2107466

Aldyl-A Tap Tee Repair Kit

Fusion repair kit.



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Mfr. Model #	Pipe Size	BSE Part #
10007584	1" CTS	2746380

Pencil Scrapers

Electrofusion pencil scrapers.



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Mfr. Model #	Pipe Size	BSE Part #
5752125	3/4 IPS	2839826
5752159	1/2 CTS	2653851
10007609	1 CTS	2653827
5752143	1-1/4 IPS	2275271
5752128	1-1/4 CTS	2752519
5752139	1-1/2 IPS	2275272
5752142	2 IPS	2106080
5752092	2 CTS	2103314

Large Diameter Scrapers

Electrofusion large diameter scrapers.



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Mfr. Model #	Pipe Size	BSE Part #
5752278	RITMO 2 – 6 IPS/DIPS	2275273
5752206	RITMO 3 – 12 IPS/DIPS	2275274

Calibration Mandrel/Scraper Gauges

Replacement blades for pencil scrapers.



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Mfr. Model #	Pipe Size	BSE Part #
5752225	1-1/4 IPS	2752525

Molded Scrapers

Electrofusion molded scrapers.



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Mfr. Model #	Pipe Size	BSE Part #
5752120	1-1/4 IPS	1720201
5752118	2 IPS	1720200
5752122	3 IPS	1720198
5752119	4 IPS	1720196
5752150	Red devil or equal	2445405

Processor Lead Tips and Tip Sets

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Mfr. Model #	Size	Description	BSE Part #
5900028	3 mm (pair)	-	2727812
10001005	4.7 / 4 mm (1 pair) easy fuse	Pin adapter set	2699255

Tubing Alignment Clamps

- » Reducing or standard style
- » Classification: Type II Class B Grade P24 Category 5 resins conforming to ASTM D 3350 Classification 234433E
- » Classified to ASTM D-1248



Mfr. Model #	Pipe Size	BSE Part #
12ERDCLM34112C	3/4 IPS x 1/2 CTS	1593989
12ERDCLM34112I	3/4 IPS x 1/2 IPS	1593988
12ERDCLM1C34I	3/4 IPS x 1 CTS	1593987
12EPIPECLM12C	1/2 CTS	1593994
12EPIPECLM12I	1/2 IPS	1593993
12EPIPECLM34I	3/4 IPS	1593992
12EPIPECLM1C	1 CTS	1593991
12EPIPECLM1I	1 IPS	1593990

Main Size Alignment Clamps

2" IPS adjustable main size alignment clamp. For coiled or stick pipe and HVSPT outlet.

» Classification: Type II Class B Grade P24 Category 5 resins conforming to ASTM D 3350 Classification 234433E

» Classified to ASTM D-1248



Mfr. Model #	Pipe Size	BSE Part #
12ECLAMP02	2"	1594029
12ESHELLS114	1-1/4" shells	1594026
ANA1-40-02	Hex handle assembly	1594039
12ECLAMPREPK	2" clamp repair kit	1594028

Short Clamps



Mfr. Model #	Pipe Size	BSE Part #
12ECLAMPUSH0114	1-1/4" shells	1594032
12ECLAMPUSH02	2 shells	1594033
12ECLAMPUSH03	3 shells	1594038
12ECLAMPUSH04	4 IPS clamp	1594040
2ECLAMPUSH0608	6 shells	1594035
12ECLAMPUSH08	8 IPS clamp	1594037

Reducing Clamps



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Mfr. Model #	Pipe Size	BSE Part #
5752010	1 IPS x 1/2 CTS	2730687
10000474	1 CTS x 1/2 CTS	2107405
10000476	1 CTS x 3/4 IPS	2653812
5752007	1 IPS x 1 CTS	2729076

Coupling Clamps

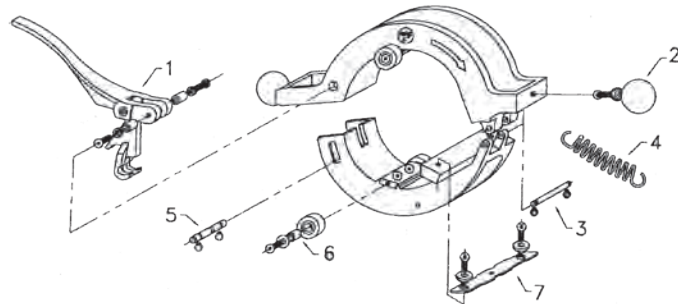
Electrofusion coupling clamps.



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Mfr. Model #	Pipe Size	Description	BSE Part #
5752006	1/2 CTS	Mini clamp	2653848
5752004	3/4 IPS	Mini clamp	2752522
5752003	1 CTS	Mini clamp	2653847
5752001	1-1/4 IPS	Locking plier style	2752521
5752098	2 IPS	Locking plier style	2653849

Electrofusion Main Scraper Parts and Accessories



Latch Assembly Kits



Mfr. Model #	Length	Item Number	BSE Part #
12ELATCHK11402	1-1/4" - 2"	1	1594012
12ELATCHK0304	3" - 4"	1	1594011
12ELATCHK0608	6" - 8"	1	1594010

Knob Assembly Kits

Mfr. Model #	Length	Item Number	BSE Part #
ANA7-35	1-1/4" - 2"	2	1594009
ANA7-36	3" - 8"	2	1594008

Main Hinge Kits

Mfr. Model #	Length	Item Number	BSE Part #
ANA7-51	1-1/4" - 4"	3	1594000
ANA7-52	6" - 8"	3	1593999

Spring

Mfr. Model #	Description	Item Number	BSE Part #
ANA7-56	1-1/4" - 2"	4	1593997

Spring

Mfr. Model #	Description	Item Number	BSE Part #
12ESPRING0308	3" - 8"	4	1593996

Spring Guide Pins with Retainers

Mfr. Model #	Item Number	BSE Part #
ANA7-58	5	1593995



Wheel Kits



Mfr. Model #	Length	Item Number	BSE Part #
12EWHEELK11402	1-1/4 – 2"	6	1594004
12EWHEELK0304	4"	6	1594003
12EWHEELK06	6"	6	1594002
12EWHEELK08	8"	6	1594001

Main Scraper Blades



Mfr. Model #	Length	Item Number	BSE Part #
12EBLADE1140203	1-1/4 – 3"	7	1594016
12EBLADE04	4"	7	1594015
12EBLADE0608	6 – 8"	7	1594014

IPS Electrofusion Main Scraper

Full encirclement aluminum body scraper.

- » Classification: Type II Class B Grade P24 Category 5 resins conforming to ASTM D 3350 Classification 234433E
- » Classified to ASTM D-1248



Mfr. Model #	Pipe Size	BSE Part #
12EMS0114	1-1/4 IPS	1594022
12EMS02	2 IPS	1594021
12EMS03	3 IPS	1594020
12EMS04	4 IPS	1594019
12EMS06	6 IPS	1594018
12EMS08	8 IPS	1594017

NOTES

Electrofusion SPT/HVSPT Tapping Tools



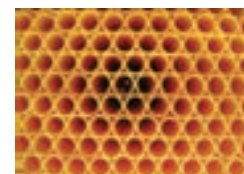
Mfr. Model #	Pipe Size	Description	BSE Part #
713315	-	HVSPT hex tool	2238003
12ESPTHEXT	-	SPT hex tool	2238002
713273	6" IPS	Quick connect 1/4" NPT female x female quick connector	1594218
713275	8" IPS	Hole assembly 713273 and 713274 assembled	1594217

PIPE

Yellow PE 2406 Polyethylene Piping

High quality pipes and tubing, which are manufactured using state-of-the-art production facilities and meet or exceed all industry and federal standards.

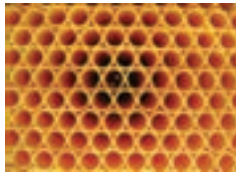
- » Can easily be joined by socket fusion, butt fusion, saddle fusion, mechanical fittings or electrofusion



Mfr. Model #	Pipe Size	Length	SDR	BSE Part #
UAA1-02	1/2 IPS	500'	9.3	2462075
UAF2-01	1/2 CTS	500'	7	2462084
55699	1/2 CTS	1,000'	7	2462085
UAA2-01	1/2 IPS	1,000'	9.3	1593516
UAA4-01	3/4 IPS	500'	11	2462076
56085	3/4 IPS	500'	11	2709347
UAA7-01	1 IPS	500'	11	2462077
57067	1 CTS	500'	11.5	2062543
223479	1-1/4 IPS	20'	10	2462340
UAA8-01C	1-1/4 IPS	250'	10	1593513
55731	1-1/4 IPS	500'	10	2462078
UAB1-05	1-1/2 IPS	500'	11	1593479
223529	1-1/4 IPS	1,500'	10	2462436
55848	2 IPS	20'	11	2461628
55855	2 IPS	40'	11	2456447
UAB5-01	2 IPS	250'	11	1593478
55889	2 IPS	500'	11	2462079
55970	3 IPS	40'	11.5	1984658
UAC5-01	3 IPS	500'	11.5	1593508
UAD1-02	4 IPS	40'	11	2462082
56028	4 IPS	40'	11.5	2462081
56036	4 IPS	500'	11.5	2462140
56051	6 IPS	40'	11.5	2462083
UAD5-01	6	40'	11.5	2462083
57125	8 IPS	40'	11	2457933

6500 Series MDPE Pipe

PE2406/2708 material.



Mfr. Model #	Pipe Size	Length	SDR	BSE Part #
1107345	1/2 CTS	500'	7	2702866
1108402	1/2 CTS	1,000'	7	2747015
1008487	3/4 IPS	10'	11	2683283
1107289	3/4 IPS	500'	11	2467891
1109368	1 CTS	250'	11.5	2702868
1107240	1 CTS	500'	11.5	2702867
1002263	1-1/4 IPS	500'	11.5	2468358
1104996	1-1/4 IPS	1,500'	10	2461889
1098373	2 IPS	20'	11	2970848
1098382	2 IPS	40'	11	2970849
1098341	2 IPS	500'	11	2970850
1002323	3 IPS	40'	11.5	2747017
1098339	4 IPS	40'	11.5	2970852
1098340	4 IPS	500'	11.5	2970853
1047033	4 IPS	500'	11.5	2747018
1010590	4 IPS	1,000'	11.5	2694447
1002373	6 IPS	40'	13.5	2683276
1002363	6 IPS	500'	11.5	2730260
1002381	8 IPS	40'	11	2747021
1113944	8 IPS	40'	11	2970855
1113945	8 IPS	40'	11.5	2970856
1098338	8 IPS	40'	13.5	2970858
1098389	12 IPS	40'	13.5	2970859

8300 Series HDPE Pipe

PE3407/4710 material.



Mfr. Model #	Pipe Size	Length	SDR	BSE Part #
1113958	2 IPS	20'	11	2970862
2970861	2 IPS	40'	11	1098386
2970860	2 IPS	500'	11	1109405
2970863	3 IPS	40'	11	1098388
2970865	4 IPS	40'	11	1098377
2970864	4 IPS	500'	11	1098374
2970894	6 IPS	40'	11	1098378
1057099	8 IPS	40'	11	2865158
1066888	8 IPS	40'	13.5	2683290
1099622	12 IPS	40'	13.5	2840063

NOTES

Natural Gas
catalog

METER SETS and METER CONNECTION products



In this section

Meter valves	76
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Meter **VALVES**

Luboseal® H11175 Series Meter Valves

- » Special lubrication system can be re-lubricated under pressure
- » Iron body valve, Lockwing head
- » 175 psig, O-ring sealed key
- » Inlet and outlet with female thread
- » Available with 1/8" test port feature

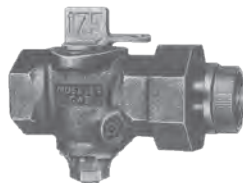


Mfr. Model #	Size	BSE Part #
H11175-250	3/4"	1985469
H11175-1-330	1"	1741109
H11175-420	1-1/4"	1985470
H11175-500	1-1/2"	2456810
H11175-550	2"	1985477

Luboseal® H-11179 Series Meter Valves

Provides superior, maintenance free performance at a price that is competitive with grease sealed plug valves.

- » Meets the test requirements specified in ASME B16.33
- » Special lubrication system—can be re-lubricated under pressure
- » Inlet and outlet with female thread—insulating outlet
- » Iron body valve, Lockwing head
- » Tamper-proof feature
- » 175 psig (1208 kPa), O-ring sealed key



Mfr. Model #	Size	BSE Part #
H11179-250	3/4"	1741078
H11179-330	1"	1765727
H11179-420	1-1/4"	1985471
H11179-1-550	2"	2694440

H-11118 Tamper Proof Meter Valves

- » Iron body, Lockwing head
- » 100 psig, O-ring sealed; Meets ASME B16.33



Mfr. Model #	Size	BSE Part #
H11118B-1-1/4	1-1/4"	1741081
H11118B-1-1/2	1-1/2"	1741079
H11118B-2	2"	1741077

H-11128 Tamper Proof Meter Valves

- » Iron body, Lockwing head
- » Insulating outlet
- » 100 psig, O-ring sealed; Meets ASME B16.33
- » Insulating outlet



Mfr. Model #	Size	BSE Part #
011128-1-250	3/4"	2695787
H11128B-1-1/4	1-1/4"	1741076

Luboseal® H-11185 Meter Valves

- » 500 psig
- » Quad-ring sealed key
- » Can be re-lubricated under pressing
- » Lockwing head
- » Meets ASME B16.33



Mfr. Model #	Size	BSE Part #
H-11185-3/4	3/4"	2683376

Plugging Unit

For changing out 3/4" or 1" meter valves.

- » Fits most roundway and straightway valves
- » 60 psig, O-ring sealed



Mfr. Model #	BSE Part #
H17016	1671985

No-Blo® H-17010 Valve Changers

For meter valves on schedule 40 steel.

- » Fits most roundway and straightway valves
- » Maximum working pressure 60 psig; O-ring sealed body and stem



Mfr. Model #	Ports	Size	BSE Part #
83962	Min: 13/32" width; 23/32" height	3/4"	1686000
83963	Min: 17/32" width; 31/32" height	1"	1672090





GE Dresser™ Style 2275 Gas Stop Valve Changers with Case

Allows for removal of an old valve, re-threading of the service pipe (if necessary), and replacement with a new valve.

- » Procedure is performed safely, under pressure with no escaping gas
- » Can be used with Dresser valves, as well as most other open port isolation valves



Mfr. Model #	Size	BSE Part #
2275-0177-008	5/8"	1675212
2275-0176-008	3/4"	2575767
2275-0184-008	1"	2575771

Female to Female Meter Valves BMI

175 psig valve with flat head locking, for use with natural or manufactured gas only.

- » Brass plug
- » Tamperproof



Mfr. Model #	Thread Size	BSE Part #
4810-166	3/4"	2457097
4812-102	1"	1477172
4812-102	1-1/4"	1477180

3/4" Meter Ball Valve

- » Brass ball
- » 175 psig
- » Flat head locking



Mfr. Model #	Thread Size	BSE Part #
4816-119	3/4"	2078606

NOTES

Meter Bars BMI

3/4" x 1" meter bar black malleable iron.

- » 6" centerline
- » Female noninsulated O-ring union
- » Sprague 1A swivel nut



Mfr. Model #	Description	Size	BSE Part #
4824107	1A	3/4" x 1"	1477030
4823123	20 LT - black	1" x 1"	1672893
6620PFB1x1	20 LT - painted	1" x 1"	1677610
6620PFB1x3/4	20 LT - painted	1" x 3/4"	1677611
4823-133	Sprague 1A	3/4" x 1"	1980053

IPS Style 6266 Meter Stop

Zinc-plated. Tamper-proof valve. 100 PSIG. Flat head lock wing. Inlet: female iron pipe threads. Outlet: insulated union with female iron pipe thread tailpiece.



Mfr. Model #	Thread Size	BSE Part #
4812-104-0	1"	1671717

Double Lockwing Valve



Mfr. Model #	BSE Part #
H11195-330	1980222
H11195-550	1980224
H-11196-1	1980223

RVS 307 AP EX Service Riser Extended Vent Skirt

Vent skirts are extremely durable, inexpensive, easy to install and they blend perfectly with the existing metering equipment.



BENNETT
Regulator Guards, Inc.



Mfr. Model #	Size	BSE Part #
VG-U	1"	1477276
FISHER250	2-3/4 x 7"	2463854

Fisher Vent Skirts

Designed to protect Fisher 250 regulators.

» Prevents ice build up



BENNETT
Regulator Guards, Inc.

Mfr. Model #	Size	BSE Part #
FVS-394	2-3/4 x 7"	2397304
VG-S250	-	1476988

SWIVELS

Offset Reducing Swivels

For gas meter connections.



Mfr. Model #	Pipe Size	Description	Length	Height	BSE Part #
SG7280-137	1/2"	10 x 5 LT	4"	3"	2101009
SG7280-623	3/4"	1A x 10 LT	2-11/16"	1"	1476887
SG7280-923	1"	30 x 20 LT	3-3/4"	1"	2101010
SG7281-477	1-1/2"	20 x 5 LT	3-1/2"	2-7/8"	2101313

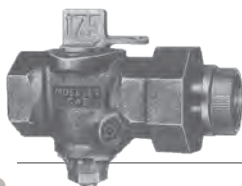
Offset Insulated Meter Swivels

» Complies with ASTM A197,
ANSI B1.20.1 and ANSI B109.1

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Mfr. Model #	Diameter	Offset	Length	Size	BSE Part #
Black malleable iron					
0081202	3/4"	1"	3-3/25"	10 LT	2456177
0081214	3/4"	3.94"	4-3/25"	10 LT	2456555
0081200	1"	1"	3-1/2"	20LT	2274375
0081200	1"	1"	3-1/2"	20 LT	2464797
0081210	1-1/4"	1"	3-3/4"	30 LT	2653804
0081264	1-1/2"	1"	4"	45 LT	2653805



We carry
METER VALVES,
see page 76.

Offset Non-insulated Meter Swivels

» Complies with ASTM A197,
ANSI B1.20.1 and ANSI B109.1



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Mfr. Model #	Diameter	Offset	Length	Size	BSE Part #
Black malleable iron					
0150074	1"	1"	3-1/2"	20LT	2728491
0150082	3/4"	1/2"	2.31"	10 LT	2653807
0150084	1-1/4"	1"	3-3/4"	30 LT	2465419
10003332	3/4"	3-31/50"	3-1/2"	20-10LT	2841308
0150096	1-1/2"	1"	4"	45 LT	2465420
0170018	1/2"	2-3/4"	3.31"	1A	2728493
10003134	1"	1"	2.84"	30-20 LT	2461942
Galvanized malleable iron					
0150097	1-1/2"	1"	4"	45 LT	2653830

Straight Swivels

For gas meter connections.



Mfr. Model #	Size	Description	Length	BSE Part #
Black malleable iron				
SG7021005	1/2"	5 LT	2-7/32"	2100975
SG7271-021	3/4"	1A x 3/4"	1-3/16"	1477246
SG7021010	3/4"	10 LT	2-5/16"	2100976
SG7272115	3/4"	1A x 3/4"	2-3/8"	2100978
SG7021-020	1"	20 LT	2-25/32"	1741090
SG7270-514	1"	1A x 1"	2-13/32"	1477140
SG7021-030	1-1/4"	30 LT	2-7/8"	1676336
SG7270006	1-1/4"	#2	3-1/8"	2101309
SG7021-045	1-1/2"	45 LT	3"	1741092
SG7021060	1-1/2"	60 LT	3"	2101308
SG7210-204	1-1/2"	#3 and #4	3-1/16"	1527330
SG7210-620	2"	#5 (Sprague 1000)	2"	1477020
SG7201217	2"	#5	2-1/16"	2100979
SG7021100	2"	100 LT	3-13/16"	2100977
Galvanized				
SG7121005	1/2"	5 LT	2-7/32"	2100980
SG7371021	3/4"	1A x 3/4"	1-3/16"	2100986
SG7121010	3/4"	10 LT	2 5/16"	2100981
SG7372115	3/4"	1A x 3/4"	2-3/8"	2100987
SG7121020	1"	20 LT	2-25/32"	2100982
SG7370-514	1"	1A x 1"	2-13/32"	1477209
SG7121030	1-1/4"	30 LT	2-7/8"	2100983
SG7370006	1-1/4"	#2	3-1/8"	2101311
SG7121045	1-1/2"	45 LT	3"	2100984
SG7121060	1-1/2"	60 LT	3"	2101310
SG7310204	1-1/2"	#3 and #4	3-1/16"	2100988
SG7310620	2"	#5 (Sprague 1000)	2"	2100989
SG7310217	2"	#5 (American)	2-1/16"	2101312
SG7121100	2"	100LT	3-13/16"	2100985



Straight Insulated Meter Swivels

» Complies with ASTM A197, ANSI B1.20.1 and ANSI B109.1



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Mfr. Model #	Diameter	Length	Size	BSE Part #
Black malleable iron				
0081002	3/4"	2.31"	10 LT	2484013
0081000	1"	2-3/4"	20 LT	2274372
0081008	1-1/4"	2.91"	30 LT	2274373
0081018	1-1/2"	2.94"	45 LT	2274374
0081010	1"	2.84"	30-20LT	2728490
0081014	1-1/4"	2-22/25"	45-30 LT	2653803
0081026	1"	2.41"	1 A	2274376
Galvanized malleable iron				
0081005	3/4"	2.38"	1A	2728497

Insulated Straight Swivels

For gas meter connections.



Mfr. Model #	Description	BSE Part #
Black malleable iron		
SGI7021010	10 LT	2100990
SGI7272-115	1A SPRAGUE x .75 FPT	1477080
SGI7271-021	1A SPRAGUE x .75 FPT	1477323
SGI7270-514	1A SPRAGUE x 1" MPT	1477169
SGI7270234	20 LT x 10 LT FPT	2100991
SGI7270812	20 LT x 10 LT MPT	2100992
SGI7281403	20 LT OFFSET 1-1/2" C TO C	2100993
SGI7290111	20 LT ELLBOW	2100994
SGI7021-020	20 LT	1741011
SGI7021-045	45 LT	1741091
SGI7370192	30 LT	2100996
SGI7121030	45 LT	2100997
SGI7121045	100 LT	2100998
SGI7121100	-	2100999
Galvanized		
SGI7270192	30 LT x 20 LT	2100995
SGI7021-030	30 LT	1741012
SGI7021100	100 LT	2101008
SGI7121010	10 LT	2101000
SGI7372115	1A SPRAGUE x 3/4" MPT	2101001
SGI7371021	1A SPRAGUE x 0.75 FPT	2101002
SGI7370-514	1A SPRAGUE x 1" MPT	1642953
SGI7370234	20 LT x 10 LT FPT	2101003
SGI7370812	20 LT x 10 LT MPT	2101004
SGI7381403	20 LT OFFSET 1-1/2" C TO C	2101005
SGI7390111	20 LT ELLBOW	2101006
SGI7121020	20 LT	2101007

Straight Non-insulated Meter Swivels

» Complies with ASTM A197, ANSI B1.20.1 and ANSI B109.1



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Mfr. Model #	Diameter	Length	Size	BSE Part #
Black malleable iron				
0150078	3/4"	2.31"	10 LT	2653806
0150072	1"	2-3/4"	20LT	2274363
0150072	1"	2-3/4"	20 LT	2465421
0150092	1-1/4"	2.91"	30 LT	2274364
0150094	1-1/2"	2.94"	45 LT	2463154
0150102	1"	2.84"	30-20LT	2728489
0080028	1-1/4"	2-22/25"	45-30 LT	2653801
0170022	3/4"	2.38"	1A	2728498
Galvanized malleable iron				
0080029	1-1/4"	2-22/25"	45-30 LT	2653802

Meter Connection Nuts

For gas meter connections.



Mfr. Model #	Description	Inside Diameter	BSE Part #
Black malleable iron			
SG7260-509	1-1/4" PITTS and #0 EMCO	1-1/4"	2101014
SG7011-005	5 LT	1-5/32"	2101011
SG7011-010	10 LT	1-15/32"	2101012
SG7260-008	1A	1-19/32"	1477111
SG7011-020	20 LT	1-55/64"	1741008
SG7011-030	30 LT	2-5/64"	1741093
SG7011-060	60 LT	2-15/32"	2101315
SG7261-777	#3 and #4	2-1/4"	1477008
SG7011-045	45 LT	2-19/64"	1741009
SG7011100	100LT	3-1/32"	2101013
SG7214-003	#5	3 15/32"	1476910
Galvanized			
SG7111-005	5 LT	1-5/32"	2101015
SG7111010	10 LT	1-15/32"	2101016
SG7360-509	1-1/4" PITTS and #0 EMCO	1-1/4"	2101317
SG7360-008	1A	1-19/32"	2101318
SG7111020	20 LT	1-55/64"	2101017
SG7111030	30 LT	2-5/64"	2101018
SG7111-060	60 LT	2-15/32"	2101316
SG7361-777	#3 and #4	2-1/4"	2101320
SG7111045	45 LT	2-19/64"	2101019
SG7111100	100LT	3-1/32"	2101020
SG7314-003	#5	3 15/32"	2101321

Meters Swivel Nuts

» Complies with ASTM A197, ANSI B1.20.1 & ANSI B109.1

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Mfr. Model #	Size	BSE Part #
Black malleable iron		
0150066	10 LT	2464694
0150068	20 LT	2274358
0150070	30 LT	2465422
0150070	30 LT	2274359
0150086	45 LT	2274362
0150086	45 LT	2465423
0170016	1A	2728495
Galvanized malleable iron		
0150087	45 LT	2653808

ACCESSORIES

Gas Meter Washers

For gas meter connections.



Mfr. Model #	Description	Outside Diameter	Thickness	Inside Diameter	BSE Part #
SG2	2A Sprague washer	1.6875"	0.1"	1-3/16"	1477233
SG3	#3 and #4 washer	2.125"	3/32"	1-15/32"	1476952

Black Malleable Iron Square Head Plugs, Cored

100% gas tested at a minimum of 100 PSI.

- » Class 125 (Standard)
- » Cored plugs should be used with 150# malleable iron and 125# cast iron



Mfr. Model #	Pipe Size	BSE Part #
1/4	1/4"	1935261
1/2	1/2"	1944160
3/4	3/4"	1945382
1	1"	1944158
1-1/4	1-1/4"	1944159
1-1/2	1-1/2"	1945239
2	2"	1945376

NOTES

Natural Gas
catalog

RISERS and TRANSITION fittings



In this section

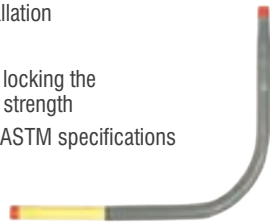
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Anodeless RISERS

Anodeless Service Risers

An easy-to-install method for polyethylene to steel transitions.

- » Variable ground level permits ease of installation
- » Threaded or slip-on moisture seal
- » Incorporates unique pressure seal design, locking the PE tubing in place with pull-to-destruction strength
- » Meets applicable D.O.T. requirements and ASTM specifications
- » Prebent (244504500900 is straight)



Mfr. Model #	Size	V x H	Pigtail Length	SDR	BSE Part #
STDLY050010T	1/2" CTS x 1/2" NPT	22" x 12"	6"	7	2100966
231050630150	1/2" CTS x 3/4" NPT	36" x 16"	10"	7	1595165
STDLY060010T	3/4" NPT x 1/2" CTS	30" x 28"	6"	7	2100974
STDLY060050T	3/4" NPT x 1/2" IPS	30" x 28"	8"	9.3	2100967
STDLY060060T	3/4" NPT x 3/4" IPS	30" x 29"	8"	11	1671900
STDLY070010T	1" NPT x 1/2" CTS	30" x 30"	8"	7	2100968
241321130930	1" CTS x 1" NPT	30" x 17"	10"	11-1/2	1595143
STDLY070030T	1" NPT x 1" CTS	30" x 27"	8"	11-1/2	2100969
STDLY070050T	1" NPT x 1/2" IPS	30" x 28"	8"	9.3	2100970
STDLY070060T	1" NPT x 3/4" IPS	30" x 29"	8"	11	2100971
STDLY070070T	1" NPT x 1" IPS	30" x 28"	8"	11	2100972
STDLY080080T	1-1/4" NPT x 1-1/4" IPS	34" x 34"	7"	11	1593648
STDLY090090T	1-1/2" NPT x 1-1/2" IPS	32" x 34"	8"	11	2100973
STDLY200200T	2" NPT x 1 2" IPS	36" x 35"	10"	11	1672592
242382380840	2" IPS x 2" NPT	36" x 31"	10"	11	1595136
244504500910	4" IPS x 4" NPT	36" x 12"	10"	11-1/2	1595133
244504500900	4" IPS x 4" NPT	30" V	10"	11-1/2	1595134

Anodeless Risers with PE2406/PE2708 Pipe

All parts are protected with an electrostatically applied fusion-bonded epoxy powder coating.

- » Riser design utilizes an O-ring for added security for extreme conditions
- » No gas-carrying welds are utilized in the riser design
- » Can be manufactured to meet custom specifications
- » No cathodic protection required
- » Factory pre-assembly and bundling options available
- » Available in straight or prebent



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Mfr. Model #	Size	V x H	SDR	BSE Part #
6380283	3/4" MPT x 3/4" IPS	30" x 18"	11	1992507
6380282	3/4" MPT x 3/4" IPS	30" x 30"	11	2038181
6380289	1" MPT x 1" IPS	30" x 18"	11	1992509
6380287	1" MPT x 1" IPS	30" x 30"	11	2038182
6380293	1-1/4" MPT x 1-1/4" IPS	30" x 30"	11	1992510
6380305	1-1/2" MPT x 1-1/2" IPS	30" x 24"	11	1992511
6380295	2" MPT x 2" IPS	36" x 34"	11	1992512

Compression RISERS

Compression Risers

Transition PE piping from below ground application to an above ground piping system.

- » Connect or transition PE to steel without the need for fusion equipment
- » One piece design meets applicable D.O.T. requirements
- » CSA approved and IAPMO listed
- » Armored type gasket
- » Supplied with stiffener
- » Material is PE 2406
- » Prebent, threaded end



Mfr. Model #	Size	V x H	SDR	BSE Part #
221051050820	3/4" NPT x 3/4" IPS	30" x 30"	11	1595196
221321320820	1" NPT x 1" IPS	30" x 30"	11	1595194
221661660720	1-1/4" NPT x 1-1/4" IPS	30" x 30"	10	1595193
221901900820	1-1/2" NPT x 1-1/2" IPS	30" x 30"	11	1593787

Compression Risers

All parts are protected with an electrostatically applied fusion-bonded epoxy powder coating.

- » One piece design
- » Pipe threads – ANSI B1.20.1
- » Built in floating stiffener



+GF+

Mfr. Model #	Size	V x H	BSE Part #
610757524000	3/4" MPT x 3/4" IPS	24" x 36"	2796713
610010124000	1" MPT x 1" IPS	24" x 36"	1955504
610010136000	1" MPT x 1" IPS	36" x 24"	1934621
610121224000	1-1/4" MPT x 1-1/4" IPS	24" x 36"	1960920
10002382	1-1/2" MPT x 1-1/2" IPS	36" x 24"	1955503
10002384	2" MPT x 2" IPS	24" x 36"	2036596
10002385	2" MPT x 2" IPS	36" x 24"	1934622

NOTES

Transition FITTINGS

Transition Fittings

Weld end fittings for steel pipe to PE pipe transitions.

- » The external steel surface is coated with a fusion bonded epoxy (FBE) coating offering excellent mechanical and electrochemical properties
- » "Intra-Kote" internal epoxy coating for protection against oil field environments and industrial applications, available in threaded and Victaulic groove styles.
- » Protective sleeves are available and designed for prevention of undue bending stress from soil loading or shifting at rigid tie-in connections
- » Positive bonded seal with double O-rings for additional protection; Meets or exceeds applicable ASTM specifications
- » Weld ends (101321130900 is threaded)



Mfr. Model #	Dimensions	Sleeve	SDR	PE Pipe Length	Steel Pipe Length	BSE Part #
PE 2406 - Yellow						
121051050806	3/4" IPS x 3/4" IPS	Yes	11	12"	12"	1595399
121050630100	3/4" IPS x 1/2" CTS	No	7	12"	12"	1595401
121051050800	3/4" IPS x 3/4" IPS	No	11	12"	12"	1595400
101321130900	1" IPS x 1" CTS	No	11-1/2	-	-	1671906
121661660700	1-1/4" IPS x 1-1/4" IPS	No	10	12"	12"	1595397
121661660800	1-1/4" IPS x 1-1/4" IPS	No	11	12"	12"	1595395
121661660706	1-1/4" IPS x 1-1/4" IPS	Yes	10	12"	12"	1980234
122382380800	2" IPS x 2" IPS	No	11	12"	12"	1595388
122382380806	2" IPS x 2" IPS	Yes	11	12"	13"	1595288
123503500906	3" IPS x 3" IPS	Yes	-	12"	14"	1980236
124504500800	4" IPS x 4" IPS	No	11	12"	14"	1595380
124504500900	4" IPS x 4" IPS	No	-	12"	14"	1595378
124504500906	4" IPS x 4" IPS	Yes	-	12"	14"	1980237
126636630800	6" IPS x 6" IPS	No	11	18"	16"	1595374
126636630900	6" IPS x 6" IPS	No	-	18"	16"	1595373
128638630800	8" IPS x 8" IPS	No	11	24"	19"	1595387
PE 3408 - Yellow stripe						
121661666706	1-1/4" IPS x 1-1/4" IPS	Yes	10	12"	12"	1980243
122382386800	2" IPS x 2" IPS	No	11	12"	13"	1595385
122382386806	2" IPS x 2" IPS	Yes	11	12"	13"	1980241
124504506906	4" IPS x 4" IPS	Yes	-	12"	14"	1980244

NOTES

Transition Fittings

Provides a tamper-proof and gas tight ASTM D2513

Category 1 mechanical joint that exceeds the hydrostatic burst pressure and tensile strength of the polyethylene pipe.

- » All products are protected with an electrostatically applied fusion-bonded epoxy powder coating specifically designed for the exterior of gas petroleum pipelines
- » Transition joint design effectively resists pullout and utilizes a double O-ring design for added protection
- » All gas carrying welds on steel transitions are 100% air tested
- » PE-to-Steel transition joint is stronger than the PE pipe
- » One-piece design eliminates loose parts
- » Minimum shear points



+GF+

Mfr. Model #	Size	Material	Description	BSE Part #
Weld End Type				
6500936	1/2" CTS x 3/4" IPS	2406	With sleeve	2670479
650757500000	3/4" IPS x 3/4" IPS	2406	DR 11 YEL	2653864
6500937	3/4" IPS x 3/4" IPS	2406	DR 11 YEL with 12" sleeve	2670480
6500073	1" IPS x 1" CTS	2406	.099 YEL with 12" sleeve	2464691
6500643	1" IPS x 1" CTS	2406	With sleeve	2672225
6500961	1" IPS x 1" IPS	2406	DR 11 YEL with 12" sleeve	2670481
6500066	1-1/4" IPS x 1-1/4" IPS	2406	DR 10 YEL with 18" sleeve	1985440
6500938	1-1/4" IPS	2406	With sleeve	2670482
6500112	2" IPS x 2" IPS	2406	DR 11 YEL with 28" sleeve	1985441
6500307	2" IPS x 2" IPS	3408	DR 11 BLK with 24" sleeve	2786559
6500939	2" IPS	2406	With sleeve	2670483
6500940	3 IPS	2406	With sleeve	2670484
6500586	3" IPS x 3" IPS	2406	DR 11.5 YEL with 28" sleeve	2604598
6500980	3" IPS x 3" IPS	2406	SDR 11	2700105
650030300000	3" IPS x 3" IPS	2406	DR 11.5 YEL	2586563
6500587	4" IPS x 4" IPS	2406	DR 11.5 YEL with 30" sleeve	1985443
6500308	4" IPS x 4" IPS	3408	DR 11 with 30" sleeve	2786560
650040400810	4" IPS x 4" IPS	3408	DR 11 BLK	2244166
6500891	4" IPS x 4" IPS	2406	DR 11 YEL	2716002
6500587	4" IPS x 4" IPS	2406	DR 11.5 YEL with 30" sleeve	1985457
650060600810	6" IPS x 6" IPS	3408	DR 11 BLK	2244165
6500588	6" IPS x 6" IPS	2406	DR 11.5 YEL with 36" sleeve	2670486
650101000810	10" IPS x 10" IPS	3408	DR 11 BLK	2220777
6500589	8" IPS x 8" IPS	2406	DR 11.5 YEL with 48" sleeve	2670488
Threaded End Type				
6500546	3/4" IPS x 3/4" IPS	2406	DR 11 YEL	1992513
6500564	1" MPT x 1" IPS	2406	DR 11 YEL	1992514
6500565	1-1/4" MPT x 1-1/4" IPS	2406	DR 10 YEL	1992515
6500566	1-1/2" MPT x 1-1/2" IPS	2406	DR 11 YEL	1992516
6500561	2" MPT x 2" IPS	2406	DR 11 YEL	1992517

Support BRACKETS

Riser Support Brackets

- » Wide variety of designs for foundation or remote installations
- » More than 30 sizes in production
- » Manufactured from hot rolled steel
- » Epoxy or polyester coated for superior corrosion resistance
- » Standoffs ranging from 4" – 12"
- » Fixed and adjustable styles available
- » Universal 4 slot (3/8 wide) mounting system



Adjustable bracket

- » Powder coated finish
- » Accommodates 1/2" – 1-1/4" flex risers
- » Carriage bolts supplied for ease of assembly
- » Full 6-3/4" diameter base for positive mounting
- » High strength steel construction
- » No sharp corners (reduces potential for injuries)
- » Universal 4 slot (3/8 wide) mounting system

Mfr. Model #	Length	BSE Part #
T-41	6 – 9"	1672586

T-3 model bracket

- » Powder coated finish
- » Accommodates 1/2" – 1-1/4" flex risers (can accommodate up to 3" riser with optional cover bolts - contact factory or our local representative for details)
- » Drivepost-60 and flex riser shown sold separately

Mfr. Model #	Length	BSE Part #
T-3	8"	1672587

T-2H and T-41AS model brackets

- » 8" standoff from wall
- » Accommodates all riser casings from 3/4" O.D. – 2-3/8" O.D.
- » Fusion bonded epoxy coating.
- » Used for foundation applications

Mfr. Model #	Length	BSE Part #
T-41AS	5"	1672585
T-2H	8"	1672588

NOTES

Natural Gas
catalog

STEEL PIPING

and fittings



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BUSHINGS

Reduces internal diameter of threaded fittings.
More sizes available.

Black Malleable Iron Hex Bushings



Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	1935263
3/8X1/4	3/8" x 1/4"	2463826
3/8X1/8	3/8" x 1/8"	2463637
1/2X1/4	1/2" x 1/4"	2463712
1/2X1/8	1/2" x 1/8"	2463997
1/2X3/8	1/2" x 3/8"	2463713
3/4X1/2	3/4" x 1/2"	1812896
3/4X1/4	3/4" x 1/4"	1812897
3/4X1/8	3/4" x 1/8"	1812898
3/4X3/8	3/4" x 3/8"	1803485
1X1/2	1" x 1/2"	1812902
1X1/4	1" x 1/4"	1812900
1X3/4	1" x 3/4"	1812903
1-1/4X3/4	1-1/4" x 3/4"	1812885
1-1/4X1	1-1/4" x 1"	1812884
1-1/4X1/4	1-1/4" x 1/4"	1765604
1-1/4X1/2	1-1/4" x 1/2"	1812886
1-1/2X1/4	1-1/2" x 1/4"	1827310
1-1/2X3/8	1-1/2" x 3/8"	1827312
1-1/2X1/2	1-1/2" x 1/2"	1814583
1-1/2X3/4	1-1/2" x 3/4"	1812399
1-1/2X1	1-1/2" x 1"	1812368
1-1/2X1-1/4	1-1/2" x 1-1/4"	1812883

NOTES

Black Cast Iron Hex Bushings



Mfr. Model #	Size	BSE Part #
2X3/4	2" x 3/4"	1481008
2X1	2" x 1"	1481009
2X1-1/4	2" x 1-1/4"	1812219
2X1-1/2	2" x 1-1/2"	1812881
2-1/2X1	2-1/2" x 1"	1812851
2-1/2X1-1/4	2-1/2" x 1-1/4"	1827293
2-1/2X1-1/2	2-1/2" x 1-1/2"	1827276
2-1/2X2	2-1/2" x 2"	1812879
3X1/2	3" x 1/2"	1827275
3X1	3" x 1"	1827273
3X2	3" x 2"	2463716
3X2-1/2	3" x 2-1/2"	1825688
4X2	4" x 2"	2463717
4X2-1/2	4" x 2-1/2"	1825697
4X3	4" x 3"	2463718

Forged Steel Hex Bushings



Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	2463724
3/8X1/8	3/8" x 1/8"	2730793
3/8X1/4	3/8" x 1/4"	2463999
1/2X1/8	1/2" x 1/8"	1825801
1/2X1/4	1/2" x 1/4"	2463731
1/2X3/8	1/2" x 3/8"	2463732
3/4X1/2	3/4" x 1/2"	2463737
3/4X1/4	3/4" x 1/4"	2463736
3/4X3/8	3/4" x 3/8"	2463996
1X1/4	1" x 1/4"	2463744
1X3/8	1" x 3/8"	1825850
1X1/2	1" x 1/2"	1480991
1X3/4	1" x 3/4"	2463745
1-1/4X1/4	1-1/4" x 1/4"	1825798
1-1/4X1/2	1-1/4" x 1/2"	1825864
1-1/2X3/4	1-1/2" x 3/4"	1825854
2X1/4	2" x 1/4"	1825796
2X1/2	2" x 1/2"	2463752
2X3/4	2" x 3/4"	1825859
2X1	2" x 1"	2463753

**Galvanized Malleable Iron Hex Bushings**

Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	1935267
1/2X1/4	1/2" x 1/4"	1935269
1/2X3/8	1/2" x 3/8"	1935271
3/4X1/8	3/4" x 1/8"	1812877
3/4X1/4	3/4" x 1/4"	1812876
3/4X3/8	3/4" x 3/8"	1812875
3/4X1/2	3/4" x 1/2"	1812874
1X1/4	1" x 1/4"	1812873
1X3/8	1" x 3/8"	1812620
1X1/2	1" x 1/2"	1812871
1X3/4	1" x 3/4"	1812610
1-1/4X3/8	1-1/4" x 3/8"	1812887
1-1/4X1/2	1-1/4" x 1/2"	1812619
1-1/4X3/4	1-1/4" x 3/4"	1812609
1-1/4X1	1-1/4" x 1"	1812608
1-1/2X1/2	1-1/2" x 1/2"	1814590
1-1/2X3/4	1-1/2" x 3/4"	1812405
1-1/2X1	1-1/2" x 1"	1812494
1-1/2X1-1/4	1-1/2" x 1-1/4"	1812882
2X1/2	2" x 1/2"	1806206
2X3/4	2" x 3/4"	1806076
2X1	2" x 1"	1945254
2X1-1/2	2" x 1-1/2"	1812880
3X2-1/2	3" x 2-1/2"	1805473
4X2-1/2	4" x 2-1/2"	1825696

Black Steel Hex Bushings

Mfr. Model #	Size	BSE Part #
3/4X1/4	3/4" x 1/4"	1803979
3/4X3/8	3/4" x 3/8"	1812895
3/4X1/2	3/4" x 1/2"	1803480

Black Malleable Iron Face Bushings

Mfr. Model #	Size	BSE Part #
1-1/2X1-1/4	1-1/2" x 1-1/4"	1826753
1-1/4X1	1-1/4" x 1"	1826243

Galvanized Malleable Iron Face Bushings

Mfr. Model #	Size	BSE Part #
2-1/2X1-1/2	2-1/2" x 1-1/2"	1826241
2-1/2X2	2-1/2" x 2"	1826240
3X2	3" x 2"	1827064

Forged Steel Flush Bushings

Mfr. Model #	Size	BSE Part #
1-1/4X3/4	1-1/4" x 3/4"	1827771
2X3/4	2" x 3/4"	1827772
3/4X3/8	3/4" x 3/8"	1827770

ANVILETS**Universal Forged Steel Weldolet Standard Butt Weld**

To extend main and services.



Mfr. Model #	Size	Run	BSE Part #
36-2X1	1"	36 – 2"	2463765
36-8X2	2"	36 – 8"	2463766
18-16X8	8"	18 – 16"	1815097

Universal Forged Steel Thredolet Class 3000 Threaded

Thredolets provide a strong branch pipe connection, considerably stronger than a welded pipe-to-pipe connection.

» ASTM A105, ANSI B16.9



Mfr. Model #	Size	Run	BSE Part #
36-1/2X1/4	1/4"	36 – 1/2"	2463757
36-1-1/2X3/4	3/4"	36 – 1-1/2"	2463759
3-1/2-2X1-1/4	1-1/4"	3-1/2 – 2"	2454671
36-4X1-1/4	1-1/4"	36 – 4"	2567981
36-6X1-1/2	1-1/2"	36 – 6"	1944987
36-8X2	2"	36 – 8"	1765456
36-3/4X1/2	1/2"	36 – 3/4"	2457931
36-3X1	1"	36 – 3"	2477113

Plugs and **CAPS**

To seal pipe ends. More sizes available.

Black Steel Threaded Pipe Caps Class 150



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1942396
1/4	1/4"	1481034
3/8	3/8"	2463710
3/4	3/4"	1988590

Forged Steel Pipe Cap Class 3000 Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1828223
1/4	1/4"	2465160
3/8	3/8"	2467816
1/2	1/2"	2465164
3/4	3/4"	1765513
1	1"	2463738
1-1/4	1-1/4"	1765515
1-1/2	1-1/2"	2463176
2	2"	1765516
3	3"	1828206

Black Malleable Threaded Iron Threaded Pipe Cap Class 150



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1816587
3/4	3/4"	1816560
1	1"	1481031
1-1/4	1-1/4"	1481036
1-1/2	1-1/2"	1812980
2	2"	1805964
2-1/2	2-1/2"	1805892
3	3"	1805902
4	4"	1805097

Forged Steel Socket Weld Pipe Caps



Mfr. Model #	Size	BSE Part #
3/4	3/4"	2457963
1	1"	2461781
1-1/4	1 1/4"	2463641
2	2"	2463177

Galvanized Malleable Iron Pipe Caps



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1816585
3/4	3/4"	1806973
1	1"	1816526
1-1/4	1-1/4"	1812948
1-1/2	1-1/2"	1812977
2	2"	1805886
2-1/2	2-1/2"	1805896
3	3"	1805908
4	4"	1805110

Galvanized Steel Caps



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1943164
3/4	3/4"	1803662

NOTES



Forged Steel Hex Head Plug Class 3000

Stop the flow of gas in female fittings.



Mfr. Model #	Pipe Size	BSE Part #
1/4	1/4"	2463722
3/8	3/8"	2463725
1/2	1/2"	2465591
3/4	3/4"	2463734
1	1"	2465592
1-1/4	1-1/4"	2463621
1-1/2	1-1/2"	2463748
2	2"	2463622
2-1/2	2-1/2"	1826035

Forged Steel Square Head Plug Class 3000



Mfr. Model #	Pipe Size	BSE Part #
1/8	1/8"	1826092
1/4	1/4"	1772974
3/8	3/8"	1993106
1/2	1/2"	1993107
3/4	3/4"	1772975
1	1"	1765548
1-1/4	1-1/4"	2463822
1-1/2	1-1/2"	2463994
2	2"	1765547
2-1/2	2-1/2"	2463823
3	3"	2463824

Galvanized Cast Iron Square Cored Head Plugs

Stop the flow of gas in female fittings.



Mfr. Model #	Size	BSE Part #
1	1"	1944195
1-1/2	1-1/2"	1945255
1-1/4	1-1/4"	1945434
2	2"	1945435

Square Head Plugs Cast Iron Threaded Class 125

Stop the flow of gas in female fittings.



Mfr. Model #	Pipe Size	BSE Part #
Solid		
1/8	1/8"	1480970
3/8	3/8"	1945379
1/2	1/2"	1480961
1/4	1/4"	1480969
3/4	3/4"	1944848
Cored		
1	1"	1481013
1-1/2	1-1/2"	1481017
1-1/4	1-1/4"	1481018
2	2"	1481016
2-1/2	2-1/2"	1945377
3	3"	1964532
4	4"	1945380

Bull Plugs



Mfr. Model #	Description	Size	BSE Part #
PLG-BULL-CS-BP-SOLID-1/2	-	1/2"	1817194
PLG-BULL-CS-BP-XH-1/2	Extra heavy	1/2"	1825841
PLG-BULL-CS-BP-SOLID-3/4	-	3/4"	1817186
PLG-BULL-CS-BP-SOLID-1IN	-	1"	1817176

Forged Steel Socket-Weld Reducer Inserts

Enable standard socket-weld fittings to be used for making any combination of pipe line reductions quickly and economically.



Mfr. Model #	Size	BSE Part #
3/4X1/4	3/4" x 1/4"	1827766
1X3/4	1" x 3/4"	2463840
1-1/4X3/4	1-1/4" x 3/4"	2463841
1-1/4X1	1-1/4" x 1"	2463842
1-1/2X1	1-1/2" x 1"	2463843
2X1-1/4	2" x 1-1/4"	2464682
2X1-1/2	2" x 1-1/2"	2463844
2X1	2" x 1"	1827785

COUPLINGS

Join two lengths of pipe together. More sizes available.

Black Malleable Iron Coupling Extra Heavy



Mfr. Model #	Size	BSE Part #
1/8	1/8"	2463829
1/4	1/4"	2463830
3/8	3/8"	2463638
1/2	1/2"	2463639
3/4	3/4"	2462279
1	1"	2462280
1-1/4	1-1/4"	2462281
1-1/2	1-1/2"	2463832
2	2"	2463159

Forged Steel Coupling Threaded Class 3000



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1828194
1/4	1/4"	2463719
3/8	3/8"	1828196
1/2	1/2"	2463726
3/4	3/4"	2463733
1	1"	2463739
1-1/4	1-1/4"	2463620
1-1/2	1-1/2"	2463747
2	2"	2463749

Forged Steel Socket Weld Coupling Class 3000



Mfr. Model #	Size	BSE Part #
3/4	3/4"	1825794
1	1"	1825793
1-1/4	1-1/4"	2463694
1-1/2	1-1/2"	2463178
2	2"	2463179

Forged Steel Half Coupling Threaded Class 3000



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1828143
1	1"	1828145
1-1/4	1-1/4"	2463869
2	2-1/2"	2576042

Black Malleable Iron Couplings Right Hand Class 150 Standard



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1801685
1/4	1/4"	1801697
3/8	3/8"	1801656
1/2	1/2"	1801670
3/4	3/4"	1801266
1	1"	1801258
1-1/4	1-1/4"	1801404
1-1/2	1-1/2"	1801411
2	2"	1801418
2-1/2	2-1/2"	1801396
3	3"	1801401
4	4"	1801443

Galvanized Malleable Iron Right Hand Couplings Class 150



Mfr. Model #	Size	BSE Part #
1/8	-	1801691
1/4	1/4"	1801704
3/8	3/8"	1801663
1/2	1/2"	1801246
3/4	3/4"	1801254
1	1"	1801260
1-1/4	1-1/4"	1801407
1-1/2	1-1/2"	1801416
2	2"	1801390
2-1/2	2-1/2"	1801399
3	3"	1801436



Black Malleable Iron Reducing Couplings



Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	1801450
3/8X1/8	3/8" x 1/8"	1801272
3/8X1/4	3/8" x 1/4"	1801277
1/2X1/8	1/2" x 1/8"	1801288
1/2X1/4	1/2" x 1/4"	1801321
1/2X3/8	1/2" x 3/8"	1801303
3/4X1/4	3/4" x 1/4"	1801274
3/4X1/2	3/4" x 1/2"	1801214
3/4X3/8	3/4" x 3/8"	1801234
1X1/4	1" x 1/4"	1828516
1X3/8	1" x 3/8"	1805212
1X1/2	1" x 1/2"	1805224
1X3/4	1" x 3/4"	1805236
1-1/4X1/2	1-1/4" x 1/2"	1805312
1-1/4X3/4	1-1/4" x 3/4"	1805332
1-1/4X1	1-1/4" x 1"	1805349
1-1/2X1/2	1-1/2" x 1/2"	1805281
1-1/2X3/4	1-1/2" x 3/4"	1805293
1-1/2X1	1-1/2" x 1"	1806124
1-1/2X1-1/4	1-1/2" x 1-1/4"	1806930
2X1/2	2" x 1/2"	1805373
2X3/4	2" x 3/4"	1805385
2X1	2" x 1"	1805476
2X1-1/4	2" x 1-1/4"	1805493
2X1-1/2	2" x 1-1/2"	1805437
2-1/2X1	2-1/2" x 1"	1828518
2-1/2X1-1/2	2-1/2" x 1-1/2"	1828522
2-1/2X2	2-1/2" x 2"	1805252
3X1	3" x 1"	1828524
3X1-1/2	3" x 1-1/2"	1828498
3X2	3" x 2"	1812924
3X2-1/2	3" x 2-1/2"	1812930
4X1-1/2	4" x 1-1/2"	1828482
4X2	4" x 2"	1828484
4X2-1/2	4" x 2-1/2"	1828444
4X3	4" x 3"	1557442
6X4	6" x 4"	1828450

NOTES

Galvanized Malleable Iron Reducing Couplings



Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	1801422
3/8X1/8	3/8" x 1/8"	1806759
3/8X1/4	3/8" x 1/4"	1801281
1/2X1/8	1/2" x 1/8"	1801318
1/2X1/4	1/2" x 1/4"	1801328
1/2X3/8	1/2" x 3/8"	1801307
3/4X1/4	3/4" x 1/4"	1801230
3/4X3/8	3/4" x 3/8"	1801219
3/4X1/2	3/4" x 1/2"	1801223
1X3/8	1" x 3/8"	1805216
1X1/2	1" x 1/2"	1805232
1X3/4	1" x 3/4"	1805308
1-1/4X1/2	1-1/4" x 1/2"	1805318
1-1/4X3/4	1-1/4" x 3/4"	1805340
1-1/4X1	1-1/4" x 1"	1805275
1-1/2X1/2	1-1/2" x 1/2"	1805287
1-1/2X3/4	1-1/2" x 3/4"	1805299
1-1/2X1	1-1/2" x 1"	1816877
1-1/2X1-1/4	1-1/2" x 1-1/4"	1805269
2X3/4	2" x 3/4"	1805470
2X1/2	2" x 1/2"	1805379
2X1	2" x 1"	1805487
2X1-1/4	2" x 1-1/4"	1805497
2X1-1/2	2" x 1-1/2"	1805443
2-1/2X1-1/4	2-1/2" x 1-1/4"	1828521
3X1-1/4	3" x 1-1/4"	1828497
3X1-1/2	3" x 1-1/2"	1828499
3X2-1/2	3" x 2-1/2"	1812928
4X3-1/2	4" x 3-1/2"	1828447

ELBOWS

All elbows and tees 3/8 and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar). More sizes available.

Galvanized Malleable Iron 45° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1808203
1/2	1/2"	1808161
3/4	3/4"	1805785
1-1/4	1-1/4"	1805710

Black Malleable Iron 45° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1808206
1/4	1/4"	1808204
1/2	1/2"	1808178
3/4	3/4"	1808160
1	1"	1480913
1-1/4	1-1/4"	1480912
1-1/2	1-1/2"	1805717
2	2"	1805672

Black Malleable Iron 45° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1808578
1/4	1/4"	1808536
3/8	3/8"	1808534
1/2	1/2"	1808532
3/4	3/4"	1808530
1	1"	1808579
1-1/4	1-1/4"	1808566
1-1/2	1-1/2"	1808564
2	2"	1808562
2-1/2	2-1/2"	1808560
3	3"	1808585

Galvanized Malleable Iron 45° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1808559
1/4	1/4"	1808535
3/8	3/8"	1808533
1/2	1/2"	1808531
3/4	3/4"	1808529
1	1"	1943154
1-1/4	1-1/4"	1808565
1-1/2	1-1/2"	1808563
2	2"	1808561
2-1/2	2-1/2"	1808586

Galvanized Malleable Iron 90° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1812786
1/2	1/2"	1812891
3/4	3/4"	1812868
1	1"	1812578
1-1/4	1-1/4"	1812617
1-1/2	1-1/2"	1812615
2	2"	1812613
2-1/2	2-1/2"	1812606
3	3"	1812584
4	4"	1812583

Black Malleable Iron 90° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1812787
3/8	3/8"	1812894
1/4	1/4"	1812785
1/2	1/2"	1812892
3/4	3/4"	1812890
1	1"	1812849
1-1/4	1-1/4"	1812618
1-1/2	1-1/2"	1812616
2	2"	1812614
2-1/2	2-1/2"	1812612
3	3"	1812587
4	4"	1812582

Class 3000 Forged Steel 90° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	2864767
1/4	1/4"	2463721
1/2	1/2"	2463729
3/4	3/4"	2467794



Class 3000 Forged Steel 90° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
3/8	3/8"	1825417
1	1"	2492418
1-1/4	1-1/4"	1828044
1-1/2	1-1/2"	1828045

Class 3000 Forged Steel 45° Elbows - Socket Weld



Mfr. Model #	Size	BSE Part #
3/4	3/4"	2463758
1	1"	2463845
1-1/4	1-1/4"	2463846
1-1/2	1-1/2"	2465165
2	2"	2463847

Galvanized Malleable Iron 90° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1808112
3/8	3/8"	1808108
1/2	1/2"	1808194
3/4	3/4"	1808192
1	1"	1808190
1-1/4	1-1/4"	1808188
1-1/2	1-1/2"	1808186
2	2"	1808184
2-1/2	2-1/2"	1808114

Class 3000 Forged Steel 45° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1828051
1/2	1/2"	2465167
3/4	3/4"	1828054
1	1"	2463741
1-1/2	1-1/2"	2465162

Class 3000 Forged Steel 90° Elbows - Socket Weld



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1828122
1/2	1/2"	2465163
3/4	3/4"	2457964
1	1"	2463180
1-1/4	1-1/4"	2463848
1-1/2	1-1/2"	2463181
2	2"	2463849
3	3"	1828102

Black Malleable Iron 90° Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1808113
1/2	1/2"	1808200
1/4	1/4"	1808111
3/8	3/8"	1808109
3/4	3/4"	1808193
1	1"	1808191
1-1/4	1-1/4"	1808189
1-1/2	1-1/2"	1808187
2	2"	1808185
2-1/2	2-1/2"	1808195
3	3"	1808098
4	4"	1808100

NOTES

Class 3000 Forged Steel 90° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1825448
1/4	1/4"	2463720
3/8	3/8"	1825666
1/2	1/2"	2465161
3/4	3/4"	2465169
1	1"	1765546
1-1/4	1-1/4"	1765532
1-1/2	1-1/2"	1825423
2	2"	1765531

Black Malleable Iron 90° Elbows - Extra Heavy



Mfr. Model #	Size	BSE Part #
1161-MI-BLK-1/2	1/2"	1828513
1161-MI-BLK-3/4	3/4"	1828443
1161-MI-BLK-1IN	1"	1828741
1-1/4	1-1/4"	1828743
1161-MI-BLK-2IN	2"	1828723

Class 2000 Forged Steel 45° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
3/4	3/4"	1828072
1	1"	1828073
2	2"	1828106

Class 3000 Forged Steel 45° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1828050
3/8	3/8"	1828052
1-1/4	1-1/4"	1828080

Class 2000 Forged Steel 90° Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/2	1/2"	2463727
3/4	3/4"	1828085
1	1"	2463740
2	2"	2463750

Black Malleable Iron 90° Reducing Street Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1-1/4X3/4	1-1/4" x 3/4"	1826304
1-1/4X1	1-1/4" x 1"	1826282
1-1/2X1	1-1/2" x 1"	1826284

Black Malleable Iron 90° Reducing Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/4X1/8	1/4" x 1/8"	1812579
3/8X1/4	3/8" x 1/4"	1808163
1/2X1/4	1/2" x 1/4"	1808356
1/2X3/8	1/2" x 3/8"	1808576
3/4X1/2	3/4" x 1/2"	1808572
3/4X1/4	3/4" x 1/4"	1826784
3/4X3/8	3/4" x 3/8"	1808574
1X1/2	1" x 1/2"	1808570
1X3/4	1" x 3/4"	1808568
1-1/4X1/2	1-1/4" x 1/2"	1808150
1-1/4X3/4	1-1/4" x 3/4"	1808148
1-1/4X1	1-1/4" x 1"	1480897
1-1/2X3/4	1-1/2" x 3/4"	1808144
1-1/2X1	1-1/2" x 1"	1808171
1-1/2X1-1/4	1-1/2" x 1-1/4"	1808169
2X3/4	2" x 3/4"	1826764
2X1	2" x 1"	1808167
2X1-1/4	2" x 1-1/4"	1808173
2X1-1/2	2" x 1-1/2"	1811424
2-1/2X2	2-1/2" x 2"	1826768
3X2	3" x 2"	1826740
4X3	4" x 3"	1826744



Galvanized Malleable Iron 90° Reducing Elbows - Threaded



Mfr. Model #	Size	BSE Part #
1/2X3/8	1/2" x 3/8"	1808575
3/4X1/2	3/4" x 1/2"	1808571
1X1/2	1" x 1/2"	1808569
1X3/4	1" x 3/4"	1808164
1-1/4X3/4	1-1/4" x 3/4"	1808147
1-1/4X1	1-1/4" x 1"	1808145
1-1/2X1-1/4	1-1/2" x 1-1/4"	1808168
1-1/2X1	1-1/2" x 1"	1808170
2X1-1/2	2" x 1-1/2"	1811421

MISCELLANEOUS

Black Malleable Iron Floor Flanges



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1805832
3/4	3/4"	1805917
1	1"	1805935
1-1/2	1-1/2"	1804993
1-1/4	1-1/4"	1805951
2	2"	1945373

Black Malleable Iron Companion Flanges



Mfr. Model #	Size	BSE Part #
2-1/2X7	2-1/2" x 7"	1945369
1011-CI-BLK-3X7-1/2	3" x 7-1/2"	1827213
4X9	4" x 9"	1827219

Malleable Iron Extension Piece Standard Class 150

» 100% gas tested at a minimum of 100 PSI



Mfr. Model #	Pipe Size	Size	BSE Part #
3/4	3/4"	3/4"	2463870

Pipe and SWAGE NIPPLES

Pipe Nipples

External male threaded fittings used to connect two pieces of pipe together.

- » Welded meet ASTM A53, seamless meet ASTM A106
- » ASTM A733 Minimum wall thickness at any point to be not more than +/- 10% nominal wall thickness specified for that size pipe
- » Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 specification



Material	Style	NPT size	Length	Pipe schedule	BSE Part #
Black steel or galvanized steel	Welded or seamless	1/8 – 6"	1-1/2 – 12"	40 or 80	Contact BSE to order

Standard Black Steel Swage Nipple Sch 40

To reduce inlet or outlet to nominal pipe size.



Mfr. Model #	Length	Size	BSE Part #
1/8X1-1/2	1-1/2"	1/8" x 1-1/2"	1815008
2X1	6"	2" x 1"	2463780
1/8X2	1-1/2"	1/8" x 2"	1815016
2X1-1/4	6-1/2"	2" x 1-1/4"	2463686
3X2	8"	3" x 2"	2463164
1/8X3	2-1/2"	1/8" x 3"	1815158
4X2	9"	4" x 2"	2465301
1/8X3-1/2	3"	1/8" x 3-1/2"	1815167
4X3	9"	4" x 3"	2463165
1/8X4	3-1/2"	1/8" x 4"	1815055
1/8X4-1/2	4-1/2"	1/8" x 4-1/2"	1815062
1/8X5	5"	1/8" x 5"	1815070
1/8X5-1/2	5-1/2"	1/8" x 5-1/2"	1814985
1/8X6	6"	1/8" x 6"	1814992

Extra Heavy Zinc Coated Swage Nipple Sch 80

To reduce inlet or outlet to nominal pipe size.



Mfr. Model #	Length	Size	BSE Part #
3/4X1/4	3"	3/4" x 1/4"	2463774
3/4X1/2	3"	3/4" x 1/2"	2463775
2X3/4	6-1/2"	2" X 3/4"	2463782

Extra Heavy Seamless Swage Nipple Sch 80

To reduce inlet or outlet to nominal pipe size.



Mfr. Model #	Description	Length	Size	BSE Part #
1/2X1/4	Galvanized	2-3/4"	1/2" x 1/4"	2463773
1X1/2	Black Steel	3-1/2"	1" x 1/2"	2463777
1X1/4	Black Steel	3-1/2"	1" x 1/4"	2463776
1-1/4X1	Black Steel	4"	1-1/4" x 1"	2463779
2X1-1/4	Galvanized	6-1/2"	2" x 1-1/4"	2463781
2X1-1/2	Galvanized	6-1/2"	2 x 1-1/2"	2477149
2X1	Black Steel	6-1/2"	2" x 1"	2463783
4X3	Galvanized	9"	4" x 3"	2463784

Extra Heavy Black Steel Swage Nipple Sch 80

To reduce inlet or outlet to nominal pipe size.



Mfr. Model #	Length	Size	BSE Part #
1X3/4	3-1/2"	1" x 3/4"	2463998
1-1/4X1	4"	1-1/4" x 1"	2465032
1-1/4X3/4	4"	1-1/4" X 3/4"	2463668
1-1/4X3/4	4"	1-1/4" X 3/4"	2463778

Crosses and TEES

All elbows and tees 3/8 and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar). More sizes available.

Black Malleable Iron Crosses



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1805565
3/4	3/4"	1805575
1	1"	1805593
1-1/4	1-1/4"	1805538
1-1/2	1-1/2"	1805547
2	2"	1805638

Class 3000 Forged Steel Straight Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1828056
3/8	3/8"	1828058
3/4	3/4"	1765522
1-1/4	1-1/4"	1828062
1-1/2	1-1/2"	1828063

Black Malleable Iron Straight Tees Schedule 80



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1480962
1164-MI-BLK-1/2	1/2"	1828619
3/4	3/4"	1828621
1164-MI-BLK-1IN	1"	1828599
1164-MI-BLK-2IN	2"	1828605



Class 2000 Forged Steel Straight Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/4	1/4"	2465170
1/2	1/2"	1828111
3/4	3/4"	2463735
1	1"	2463742
2	2"	1828092

Class 3000 Forged Steel Straight Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/4	1/4"	2463723
1/2	1/2"	2463730
1	1"	2463743
2	2"	2463751

Class 3000 Forged Steel Straight Tee - Socket Weld



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1828172
3/4	3/4"	2463182
1	1"	2463183
1-1/2	1-1/2"	2463851
1-1/4	1-1/4"	2463850
2	2"	2463852

NOTES

Galvanized Malleable Iron Straight Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1805690
1/4	1/4"	1805777
3/8	3/8"	1805790
1/2	1/2"	1805802
3/4	3/4"	1805750
1	1"	1805771
1-1/4	1-1/4"	1801367
1-1/2	1-1/2"	1801430
2	2"	1801345
3	3"	1801359
5	5"	1826221

Black Malleable Iron Straight Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1805686
1/4	1/4"	1805698
3/8	3/8"	1805788
1/2	1/2"	1805796
3/4	3/4"	1805808
1	1"	1480920
1-1/4	1-1/4"	1805555
1-1/2	1-1/2"	1801427
2	2"	1801432
2-1/2	2-1/2"	1801347
3	3"	1801355
4	4"	1801337

Black Malleable Iron Straight Street Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1480902
3/4	3/4"	1480952
1	1"	1826296
1-1/4	1-1/4"	1826298
1-1/2	1-1/2"	1826300
2	2"	1826302

Black Malleable Iron Reducing Tee - Threaded



Mfr. Model #	Size	BSE Part #
1/2X3/8X1/2	1/2" x 3/8" x 1/2"	1825627
1/2X1/2X1/4	1/2" x 1/2" x 1/4"	1812244
1/2X1/2X3/8	1/2" x 1/2" x 3/8"	1812281
1/2X1/2X3/4	1/2" x 1/2" x 3/4"	1950624
1/2X1/2X1	1/2" x 1/2" x 1"	1825625
3/4X1/2X1/2	3/4" x 1/2" x 1/2"	1812320
3/4X1/2X3/4	3/4" x 1/2" x 3/4"	1812327
3/4X3/4X1/4	3/4" x 3/4" x 1/4"	1822543
3/4X3/4X3/8	3/4" x 3/4" x 3/8"	1822479
3/4X3/4X1/2	3/4" x 3/4" x 1/2"	1824832
3/4X3/4X1	3/4" x 3/4" x 1"	1824770
1X1/2X1/2	1" x 1/2" x 1/2"	1825565
1X1/2X3/4	1" x 1/2" x 3/4"	1825581
1X1/2X1	1" x 1/2" x 1"	1811297
1X3/4X1/2	1" x 3/4" x 1/2"	1823183
1X3/4X3/4	1" x 3/4" x 3/4"	1823178
1X3/4X1	1" x 3/4" x 1"	1823216
1X1X1/2	1" x 1" x 1/2"	1823123
1X1X3/4	1" x 1" x 3/4"	1823134
1X1X1-1/4	1" x 1" x 1-1/4"	1823108
1X1X1-1/2	1" x 1" x 1-1/2"	1825576
1X1X2	1" x 1" x 2"	1825574
1-1/4X1/2X1	1-1/4" x 1/2" x 1"	1825572
1-1/4X1/2X1-1/4	1-1/4" x 1/2" x 1-1/4"	1822114
1-1/4X3/4X1	1-1/4" x 3/4" x 1"	1825570
1-1/4X3/4X3/4	1-1/4" x 3/4" x 3/4"	1822122
1-1/4X1X1/2	1-1/4" x 1" x 1/2"	1825569
1-1/4X1X3/4	1-1/4" x 1" x 3/4"	1825549
1-1/4X1X1	1-1/4" x 1" x 1"	1807139
1-1/4X1X1-1/4	1-1/4" x 1" x 1-1/4"	1823164
1-1/4X1-1/4X1/2	1-1/4" x 1-1/4" x 1/2"	1823329
1-1/4X1-1/4X3/4	1-1/4" x 1-1/4" x 3/4"	1823308
1-1/4X1-1/4X1	1-1/4" x 1-1/4" x 1"	1823316
1-1/4X1-1/4X1-1/2	1-1/4" x 1-1/4" x 1-1/2"	1825546
1-1/2X3/4X1-1/2	1-1/2" x 3/4" x 1-1/2"	1825586
1-1/2X1X1	1-1/2" x 1" x 1"	1825584
1-1/2X1X1-1/2	1-1/2" x 1" x 1-1/2"	1823405
1-1/2X1-1/4X3/4	1-1/2" x 1-1/4" x 3/4"	1825428
1-1/2X1-1/4X1	1-1/2" x 1-1/4" x 1"	1825378
1-1/2X1-1/4X1-1/4	1-1/2" x 1-1/4" x 1-1/4"	1822794
1-1/2X1-1/4X1-1/2	1-1/2" x 1-1/4" x 1-1/2"	1825376
1-1/2X1-1/2X1/2	1-1/2" x 1-1/2" x 1/2"	1822821
1-1/2X1-1/2X3/4	1-1/2" x 1-1/2" x 3/4"	1822827

Cont. Black Malleable Iron Reducing Tee - Threaded

Mfr. Model #	Size	BSE Part #
1-1/2X1-1/2X1	1-1/2" x 1-1/2" x 1"	1822807
1-1/2X1-1/2X1-1/4	1-1/2" x 1-1/2" x 1-1/4"	1480955
1-1/2X1-1/2X2	1-1/2" x 1-1/2" x 2"	1825374
2X1X2	2" x 1" x 2"	1825446
2X1-1/4X1-1/4	2" x 1-1/4" x 1-1/4"	1825444
2X1-1/4X2	2" x 1-1/4" x 2"	1825440
2X1-1/2X1	2" x 1-1/2" x 1"	1825439
2X1-1/2X1-1/4	2" x 1-1/2" x 1-1/4"	1825437
2X1-1/2X1-1/2	2" x 1-1/2" x 1-1/2"	1825435
2X1-1/2X2	2" x 1-1/2" x 2"	1825434
2X2X1/2	2" x 2" x 1/2"	1825433
2X2X3/4	2" x 2" x 3/4"	1823378
2X2X1	2" x 2" x 1"	1823483
2X2X1-1/4	2" x 2" x 1-1/4"	1823489
2X2X1-1/2	2" x 2" x 1-1/2"	1823515
2-1/2X2-1/2X1-1/2	2-1/2" x 2-1/2" x 1-1/2"	1825368
3X3X1-1/2	3" x 3" x 1-1/2"	1825676
3X3X2	3" x 3" x 2"	1825674
4X4X2	4" x 4" x 2"	1825648

Galvanized Malleable Iron Reducing Tee - Threaded



Mfr. Model #	Size	BSE Part #
3/4X1/2X1/2	3/4" x 1/2" x 1/2"	1812324
3/4X1/2X3/4	3/4" x 1/2" x 3/4"	1812329
1X3/4X3/4	1" x 3/4" x 3/4"	1823211
1X3/4X1	1" x 3/4" x 1"	1823221
1X1X1/2	1" x 1" x 1/2"	1823128
1-1/4X1-1/4X1/2	1-1/4" x 1-1/4" x 1/2"	1823334
1-1/4X1-1/4X3/4	1-1/4" x 1-1/4" x 3/4"	1823312
1-1/4X1-1/4X1	1-1/4" x 1-1/4" x 1"	1823320
1-1/2X1/2X1-1/2	1-1/2" x 1/2" x 1-1/2"	1825589
1-1/2X1-1/4X1-1/4	1-1/2" x 1-1/4" x 1-1/4"	1822780
1-1/2X1-1/2X1/2	1-1/2" x 1-1/2" x 1/2"	1822824
1-1/2X1-1/2X3/4	1-1/2" x 1-1/2" x 3/4"	1822830
1-1/2X1-1/2X1	1-1/2" x 1-1/2" x 1"	1822811
1-1/2X1-1/2X1-1/4	1-1/2" x 1-1/2" x 1-1/4"	1823502
2X2X1/2	2" x 2" x 1/2"	1823374
2X2X3/4	2" x 2" x 3/4"	1823480
2X2X1	2" x 2" x 1"	1823486
2X2X1-1/4	2" x 2" x 1-1/4"	1823512
2X2X1-1/2	2" x 2" x 1-1/2"	1823519
3X3X2	3" x 3" x 2"	1825673



UNIONS

To join threaded male pipe/pipe nipples. More sizes available.

Black Malleable Iron Union Class 150



Mfr. Model #	Size	BSE Part #
1/4	1/4"	1801588
3/8	3/8"	1801578
1/2	1/2"	1801566
3/4	3/4"	1801614
1	1"	1801604
1-1/4	1-1/4"	1801592
1-1/2	1-1/2"	1801528
2	2"	1801802
2-1/2	2-1/2"	1801714
3	3"	1801750



Forged Steel Union Threaded Class 3000



Mfr. Model #	Size	BSE Part #
1/8	1/8"	2864769
1/4	1/4"	2463785
3/8	3/8"	1826050
1/2	1/2"	2463787
3/4	3/4"	2463788
1	1"	2463790
1	1"	1827775
1-1/4	1-1/4"	1825848
1-1/2	1-1/2"	1825847
2	2"	2463793



Forged Steel Union Threaded Class 6000



Mfr. Model #	Size	BSE Part #
1/2	1/2"	1828188
3/4	3/4"	1828189
1	1"	1828190



Galvanized Malleable Iron Unions Class 150



Mfr. Model #	Size	BSE Part #
1/8	1/8"	1801828
1/4	1/4"	1801582
1/2	1/2"	1801562
3/4	3/4"	1801607
1	1"	1801598
1-1/4	1-1/4"	1801532
1-1/2	1-1/2"	1801522
2	2"	1801720
2-1/2	2-1/2"	1945489
3	3"	1801741



Galvanized Malleable Iron Locknuts



Mfr. Model #	Size	BSE Part #
1	1"	1805844
1-1/2	1-1/2"	1805817
2	2"	1805826

Small STEEL FITTINGS

CBC-LOK® Female Elbow Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat Code traceable
- » ASTM material construction



Mfr. Model #	Size	Thread Size	Material	BSE Part #
S-6-DFE-4	3/8"	1/4-18 NPT	Stainless steel	2465521



NOTES

CBC-LOK® Male Elbow Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction
- » ABS approved



Mfr. Model #	Size	Thread Size	Material	BSE Part #
S-6-DME-8	3/8"	1/2-14 NPT	Steel	2465134
SS-6-DME-4	3/8"	1/4-18 NPT	Stainless steel	2466115
SS-6-DME-6	3/8"	3/8-18 NPT	Stainless steel	2466116
S-10-DME-8	5/8"	1/2-14 NPT	Steel	2597212

CBC-LOK® Union Fittings



Mfr. Model #	Size	Material	BSE Part #
SS-6-DU	3/8"	Stainless steel	2465784

CBC-LOK® Female Branch Tee Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction



Mfr. Model #	Size	Thread Size	Material	BSE Part #
SS-6-DTTF-4	3/8"	1/4-18 NPT	Stainless steel	2466117
SS-8-DTTF-8	1/2"	1/2-14 NPT	Stainless steel	2467604

CBC-LOK® Male Run Tee Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction



Mfr. Model #	Size	Thread Size	Material	BSE Part #
S-6-DTMT-4	3/8"	1/4-18 NPT	Steel	2463754
SS-6-DTMT-6	3/8"	3/8-18 NPT	Stainless steel	2484021

CBC-LOK® Union Elbow Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction
- » ABS approved



Mfr. Model #	Size	Thread Size	Material	BSE Part #
S-6-DELU-6	3/8"	3/8-18 NPT	Steel	2465522

CBC-LOK® Male Branch Tee Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction



Mfr. Model #	Size	Material	Thread Size	BSE Part #
S-6-DTMT-4	3/8"	Steel	1/4-18 NPT	2465523
SS-6-DTMT-4	3/8"	Stainless steel	1/4-18 NPT	2466118

CS-LOK® Male Branch Tee Fittings

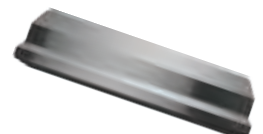
Fully interchangeable with Parker CPI™.

- » Single ferrule swaging action
- » More tolerant of vibrations
- » ASTM material construction



Mfr. Model #	Size	Material	Thread Size	BSE Part #
S-6-SMC-4	3/8"	Steel	1/4-18 NPT	2597210

CBC-LOK® Rear Collets



Mfr. Model #	Material	Size	BSE Part #
SS-DRC-8	Stainless steel	1/2"	2597209



CBC-LOK® Male Connector Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction
- » ABS approved



Mfr. Model #	Size	Material	Thread Size	BSE Part #
S-4-DMC-4	1/4"	Steel	1/4-18 NPT	2597211
SS-4-DMC-4	1/4"	Stainless steel	1/4-18 NPT	2465135
S-6-DMC-8	3/8"	Steel	1/2-14 NPT	2465133
SS-8-DMC-8	1/2"	Stainless steel	1/2-14 NPT	2466119
S-10-DMC-8	5/8"	Steel	1/2-14 NPT	2465213

CBC-LOK® Female Connector Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction



Mfr. Model #	Size	Material	Thread Size	BSE Part #
S-6-DFC-4	3/8"	Steel	1/4-18 NPT	2465132
S-6-DFC-6	3/8"	Steel	3/8-18 NPT	2466114

CBC-LOK® Bulkhead Union Fittings

Fully interchangeable with Swagelok® and Parker A-Lok®.

- » Double ferrule swaging action
- » Total component interchangeability
- » Heat code traceable
- » ASTM material construction



Mfr. Model #	Size	Material	Thread Size	BSE Part #
S-6-DBHU-6	3/8"	Steel	3/8-18 NPT	2465131

Stainless Steel Male Elbows

Swagelok® tube fitting connection on one end and a male NPT connection on the other.



Mfr. Model #	Size	Thread Size	BSE Part #
SS-400-2-2	1/4"	1/8 NPT	2862846
SS-400-2-4	1/4"	1/4 NPT	1980095
SS-400-2-8	3/8"	1/2 NPT	1980094
SS-600-2-2	3/8"	1/8 NPT	2978576
SS-600-2-4	3/8"	1/4 NPT	1980092
SS-600-2-8	3/8"	1/2 NPT	1980097
SS-810-2-4	1/2"	1/4 NPT	2978573
SS-810-2-8	1/2"	1/2 NPT	1980093
SS-810-2-12	1/2"	3/4 NPT	2978574
SS-1210-2-8	3/4"	1/2 NPT	1980096

Carbon Steel Male Elbows

Swagelok® tube fitting connection on one end and a male NPT connection on the other.



Mfr. Model #	Size	Thread Size	BSE Part #
S-600-2-4	3/8"	1/4 NPT	2464063
S-810-2-4	1/2"	1/4 NPT	1765401
S-810-2-8	1/2"	1/2 NPT	1765402
S-1210-2-8	3/4"	1/2 NPT	2978564
S-1210-2-12	3/4"	3/4 NPT	2978565

Brass Male Elbows

Swagelok® tube fitting connection on one end and a male NPT connection on the other.



Mfr. Model #	Size	Thread Size	BSE Part #
B-1010-2-12	5/8"	3/4 NPT	2785756

Stainless Steel Female Elbows

Swagelok® tube fitting connection on one end and a female NPT connection on the other.



Mfr. Model #	Size	Thread Size	BSE Part #
SS-600-8-2	3/8"	1/8 NPT	2978575
SS-600-8-4	3/8"	1/4 NPT	1980100

Stainless Steel Union Elbows

Swagelok



Mfr. Model #	Size	BSE Part #
SS-400-9	1/4"	1980098
SS-600-9	3/8"	1980099
SS-810-9	1/2"	2785758

Carbon Steel Union Elbows

Swagelok



Mfr. Model #	Size	BSE Part #
S-1210-9	3/4"	2978566

Stainless Steel Union Crosses

Swagelok



Mfr. Model #	Size	BSE Part #
SS-600-4	3/8"	2978572
SS-810-4	1/2"	2978571

Union Tees

Swagelok



Mfr. Model #	Size	BSE Part #
SS-400-3	1/4"	2862848
SS-810-3	1/2"	2862864

Carbon Steel Straight Unions

Unions with Swagelok® tube fitting connections.

Swagelok



Mfr. Model #	Size	BSE Part #
S-600-6	3/8"	1980112
S-810-6	1/2"	1765400

Stainless Steel Straight Unions

Unions with Swagelok® tube fitting connections.

Swagelok



Mfr. Model #	Size	BSE Part #
SS-400-6	1/4"	1980109
SS-600-6	3/8"	2862859
SS-810-6	1/2"	1980108
SS-1010-6	5/8"	1980111
SS-1210-6	3/4"	1980110

Stainless Steel Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Description	Size	Thread Size	BSE Part #
SS-200-1-4	-	1/8"	1/4 NPT	1477135
SS-400-1-2	-	1/4"	1/8 NPT	2862828
SS-400-1-4	-	1/4"	1/4 NPT	1477159
SS-400-1-4BT	Bored-through	1/4"	1/4 NPT	2785757
SS-400-1-8	-	1/4"	1/2 NPT	1980086
SS-600-1-2	-	3/8"	1/8 NPT	2978569
SS-600-1-4	-	3/8"	1/4 NPT	1477015
SS-600-1-4BT	Bored-through	3/8"	1/4 NPT	2978570
SS-600-1-6	-	3/8"	3/8 NPT	1980091
SS-600-1-8	-	3/8"	1/2 NPT	1980089
SS-600-1-12	-	3/8"	3/4 NPT	1980090
SS-810-1-4	-	1/2"	1/4 NPT	1980085
SS-810-1-8	-	1/2"	1/2 NPT	1980084
SS-810-1-12	-	1/2"	3/4 NPT	1477352
SS-810-1-12BT	Bored-through	1/2"	3/4 NPT	2727335
SS-1010-1-4	-	5/8"	1/4 NPT	1980082
SS-1010-1-12	-	5/8"	3/4 NPT	1980083
SS-1210-1-8	-	3/4"	1/2 NPT	1980081
SS-1210-1-12	-	3/4"	3/4 NPT	1980088
SS-1210-1-16	-	3/4"	1 NPT	1980079

Brass Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
B-400-1-4	1/4"	1/4 NPT	2785762
B-600-1-4	3/8"	1/4 NPT	2587002
B-810-1-8	1/2"	1/2 NPT	3001463



Carbon Steel Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
S-400-1-2	1/4"	1/8 NPT	2467623
S-600-1-4	3/8"	1/4 NPT	2464062
S-600-1-8	3/8"	1/2 NPT	2978561
S-810-1-4	1/4"	1/2 NPT	1765396
S-810-1-8	1/2"	1/2 NPT	1765403
S-1210-1-8	3/4"	1/2 NPT	2978562
S-1210-1-12	3/4"	3/4 NPT	2978563

Stainless Steel Straight Female Connectors

Swagelok® tube fitting connection on one end and a female NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
SS-400-7-2	1/4"	1/8 NPT	2862869
SS-600-7-2	3/8"	1/8 NPT	2978568
SS-600-7-4	3/8"	1/4 NPT	1980078
SS-600-7-8	3/8"	1/2 NPT	2978567
SS-810-7-8	1/2"	1/2 NPT	2862870

Stainless Steel Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Description	Size	Thread Size	BSE Part #
SS-200-1-4	-	1/8"	1/4 NPT	1477135
SS-400-1-2	-	1/4"	1/8 NPT	2862828
SS-400-1-4	-	1/4"	1/4 NPT	1477159
SS-400-1-4BT	Bored-through	1/4"	1/4 NPT	2785757
SS-400-1-8	-	1/4"	1/2 NPT	1980086
SS-600-1-2	-	3/8"	1/8 NPT	2978569
SS-600-1-4	-	3/8"	1/4 NPT	1477015
SS-600-1-4BT	Bored-through	3/8"	1/4 NPT	2978570
SS-600-1-6	-	3/8"	3/8 NPT	1980091
SS-600-1-8	-	3/8"	1/2 NPT	1980089
SS-600-1-12	-	3/8"	3/4 NPT	1980090
SS-810-1-4	-	1/2"	1/4 NPT	1980085
SS-810-1-8	-	1/2"	1/2 NPT	1980084
SS-810-1-12	-	1/2"	3/4 NPT	1477352
SS-810-1-12BT	Bored-through	1/2"	3/4 NPT	2727335
SS-1010-1-4	-	5/8"	1/4 NPT	1980082
SS-1010-1-12	-	5/8"	3/4 NPT	1980083
SS-1210-1-8	-	3/4"	1/2 NPT	1980081
SS-1210-1-12	-	3/4"	3/4 NPT	1980088
SS-1210-1-16	-	3/4"	1 NPT	1980079

Brass Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
B-400-1-4	1/4"	1/4 NPT	2785762
B-600-1-4	3/8"	1/4 NPT	2587002
B-810-1-8	1/2"	1/2 NPT	3001463

Carbon Steel Straight Male Connectors

Swagelok® tube fitting connection on one end and a male NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
S-400-1-2	1/4"	1/8 NPT	2467623
S-600-1-4	3/8"	1/4 NPT	2464062
S-600-1-8	3/8"	1/2 NPT	2978561
S-810-1-4	1/4"	1/2 NPT	1765396
S-810-1-8	1/2"	1/2 NPT	1765403
S-1210-1-8	3/4"	1/2 NPT	2978562
S-1210-1-12	3/4"	3/4 NPT	2978563

Stainless Steel Straight Female Connectors

Swagelok® tube fitting connection on one end and a female NPT connection on the other.

Swagelok



Mfr. Model #	Size	Thread Size	BSE Part #
SS-400-7-2	1/4"	1/8 NPT	2862869
SS-600-7-2	3/8"	1/8 NPT	2978568
SS-600-7-4	3/8"	1/4 NPT	1980078
SS-600-7-8	3/8"	1/2 NPT	2978567
SS-810-7-8	1/2"	1/2 NPT	2862870

QC Quick Connector Male Thread Bodies

- » No twisting, turning or wrenching necessary
- » Stainless steel

Swagelok



Mfr. Model #	Size	BSE Part #
SS-QC4-B-4PMSS	1/4"	2682597

Miniature QM Quick-Connect Male Thread Bodies

- » Lightweight, compact design



Mfr. Model #	Material	Thread Size	BSE Part #
SS-QM2-B-2PM	Stainless steel	1/8 MPT	2680650

QTM PTFE-Sealed Quick Connect Female Thread Bodies

- » Flush valve design reduces air inclusion
- » Recessed seals
- » Locking dog mechanism



Mfr. Model #	Material	Thread Size	BSE Part #
SS-QTM8A-B-8PF	Stainless steel	1/2 FPT	2680653

QC Quick-Connect Fitting Stems

- » No twisting, turning or wrenching necessary
- » Stainless steel



Mfr. Model #	Style	Flow	Size	BSE Part #
SS-QC4-D-400	Double end shut off	Coefficient: 0.2	1/4"	2784387

QC Quick-Connect Male Thread Stems

- » No twisting, turning or wrenching necessary
- » Stainless steel



Mfr. Model #	Style	Flow	Size	BSE Part #
SS-QC4-S-4PM	Single end shut off	Coefficient: 0.3	1/4"	2715009

Miniature QM Quick-Connect Fitting Stems

- » Lightweight, compact design



Mfr. Model #	Material	Style	Flow	Size	BSE Part #
SS-QM2-S-200	Stainless steel	Single end shut off	Coefficient: 0.06	1/8"	2680651

Stainless Steel Female Tube Adapters

Fractional Swagelok® tube adapter connection on one end and a female NPT connection on the other.



Mfr. Model #	Size	Thread Size	BSE Part #
SS-6-TA-7-2	3/8"	1/8 NPT	2978578
SS-6-TA-7-4	3/8"	1/8 NPT	2449315

QTM PTFE-Sealed Quick Connect Female Thread Stems

- » Flush valve design reduces air inclusion
- » Recessed seals
- » Locking dog mechanism



Mfr. Model #	Material	Size	BSE Part #
SS-QTM8-D-8PF	Stainless steel	1/2"	2796339

Mud Dauber Vent Protectors

Protects open ends of instruments, tubing, outlet vents and bleed-off lines.

- » 40 mesh stainless steel wire screen



Mfr. Model #	Material	Thread Size	BSE Part #
B-MD-4	Brass	1/4 NPT	1765399

Dielectric Fittings

Isolates monitoring instruments from the effects of electrical current.

- » Swagelok tube fitting end connections
- » 5000 psig rating
- » -40 – 200° F operating range



Mfr. Model #	Size	BSE Part #
SS-4-DE-6	1/4"	2231633
SS-6-DE-6	3/8"	2449317

Snubber Adapter Fittings



Mfr. Model #	Material	Style	Flow	Thread Size	BSE Part #
B-4-SA-EW	Brass	For water, light oils from 75 – 250 SUS	3.3 L/min at 25 psig	1/4 MPT; 1/4 FPT	2680660
SS-4-SA-EW	Stainless steel	For water, light oils from 75 – 250 SUS	3.3 L/min at 25 psig	1/4 MPT; 1/4 FPT	2680865



Stainless Steel Caps



Mfr. Model #	Size	BSE Part #
SS-400-C	1/4"	2862855
SS-600-C	3/8"	2862861
SS-810-C	1/2"	2862865



Stainless Steel Plugs



Mfr. Model #	Size	BSE Part #
SS-400-P	1/4"	2862856
SS-600-P	3/8"	2862862
SS-810-P	1/2"	2862866



Brass Front Ferrules



Mfr. Model #	Size	BSE Part #
B-603-1	3/8"	2785759



Brass Back Ferrules



Mfr. Model #	Size	BSE Part #
B-604-1	3/8"	2785760
B-814-1	1/2"	2786301



Stainless Steel Back Ferrules



Mfr. Model #	Size	BSE Part #
SS-814-1	1/2"	2465817
SS-1214-1	3/4"	1980077



Stainless Steel Ferrule Sets

10 sets of front ferrules and back ferrules.

- » 316 stainless steel
- » Packaged on arbor



Mfr. Model #	Size	BSE Part #
SS-400-SET	1/4"	1980102
SS-600-SET	3/8"	1980103
SS-810-SET	1/2"	1980101



Nut-Ferrule Sets

Replacement parts for use with only Swagelok bodies, fittings, valves, and hose products.

- » Available in brass, steel or stainless steel



Mfr. Model #	Material	Size	BSE Part #
SS-400-NFSET	Stainless steel	1/4"	2449330
B-810-NFSET	Brass	1/2"	3001464
S-810-NFSET	Carbon Steel	1/2"	1765397



Brass Female Nuts

Tube fitting provides a leak-tight seal without the use of inserts.



Mfr. Model #	Size	BSE Part #
B-402-1	1/4"	2785761
B-602-1	3/8"	2790059
B-812-1	1/2"	2673724



Stainless Steel Female Nuts

Tube fitting provides a leak-tight seal without the use of inserts.



Mfr. Model #	Size	BSE Part #
SS-402-1	1/4"	1980105
SS-602-1	3/8"	1980106
SS-812-1	1/2"	1980104



Stainless Steel 60 Series Ball Valves

Valves with quarter-turn actuation.

- » Stainless steel ball and stem
- » 100 psig at 450° F, 2200 psig at 100° F
- » Reinforced PTFE seats



Swagelok

Mfr. Model #	Description	Connection	Size	BSE Part #
SS-62TF4-JL	With locking lever bracket handle	Female threaded	1/4"	2695442
SS-63TF8	-	Female threaded	1/2"	1558242
SS-63TF8-JL	With locking lever bracket handle	Female threaded	1/2"	2695443
SS-65TF12	-	Female threaded	3/4"	2697000
SS-65TF12-JL	With locking lever bracket handle	Female threaded	3/4"	2702899
SS-65TF16	-	Female threaded	1"	2697001

Carbon Steel 60 Series Ball Valves

Valves with quarter-turn actuation.

- » Stainless steel ball and stem
- » 100 psig at 450° F, 2200 psig at 100° F
- » Reinforced PTFE seats



Swagelok

Mfr. Model #	Connection	Size	BSE Part #
S-65TSW16P	Socket weld	1"	1980113
S-68TSW32P	Socket weld	2"	1980114

Integral-Bonnet Needle Valves

Stainless steel valves with live-loaded packing system.

- » Compact design
- » Temperatures up to 600° F
- » Soft seat stem



Swagelok

Mfr. Model #	Connection Type	Flow	Size	BSE Part #
SS-1RS4	Fractional Swagelok	Coefficient: 0.37	1/4"	2862857
SS-1RS6	Fractional Swagelok	Coefficient: 0.73	3/8"	2862863
SS-1RS8	Fractional Swagelok	Coefficient: 0.73	-	2862867

Stainless Steel Seamless Jacketed Tubing

Helps provide increased protection against galvanic and atmospheric corrosion.

Swagelok



Mfr. Model #	Length	Wall Thickness	Tube Size	BSE Part #
SS-JT6-S-049-100	100 ft	0.049"	3/8"	2681567
SS-JT8-S-035-250	250 ft	0.035"	1/2"	2682194

Stainless Steel Seamless Tubing

Swagelok



Mfr. Model #	Length	Wall Thickness	Tube Size	BSE Part #
SS-T6-S-035-20	20 ft	0.035"	3/8"	2671389
SS-T8-S-035-20	20 ft	0.035"	1/2"	2489853

Stainless Steel Braided PTFE Lined Hose

PTFE hose with permeation-resistant features.

- » Smooth-bore PTFE core
- » Single braid layer of stainless steel

Swagelok



Mfr. Model #	Length	Size	BSE Part #
SS-6BHT-12	12"	3/8" tube adapters	2673726

P Clamp Supports

An economical way to support tube or hose runs.

- » Installs easily with single screw
- » Stainless steel



Swagelok

Mfr. Model #	Size	BSE Part #
SS-TBP8	1/2"	2680655

Cushioned Clamp Tube Supports

Provides channel mounted tube support.

- » Dampens shock
- » Stainless steel
- » Resist corrosion



Swagelok

Mfr. Model #	Size	BSE Part #
SS-TBC8	1/2"	2680654
SS-TBC6	3/8"	2727334



Jacket Patch Kits

Used to seal a splice in tubing or to repair any incidental field damage to insulation and jacket.

- » Contains thermal insulation, fiberglass tape and 10 self-sealing patches


Mfr. Model #
BSE Part #

MS-JP-KIT

2682594

Tube Cutters

Cuts stainless steel, soft copper and aluminum tubing from 3/16 – 1" outside diameter.

- » Flare-out and work hardening of tube end is reduced
- » Knobs on handle provide easy reference when advancing cutter wheel


Mfr. Model #
Description
BSE Part #

MS-TC-308

Tube cutter

1955997

MS-TCW-308

Replacement cutter wheel

1955998

Tube Deburring Tools

Deburrs stainless steel, steel and hard alloy tube ends ranging 3/16 – 1-1/2".

- » Steel blades for long life
- » Rugged, heavy-duty die-cast housing


Mfr. Model #
BSE Part #

MS-TDT-24

2857110

Female Nut Gap Inspection Gauges

Assures that the fitting has been sufficiently pulled up on initial installation.


Mfr. Model #
Size
BSE Part #

MS-IG-600

3/8"

1955991

MS-IG-810

1/2"

1955992

MS-IG-1210

3/4"

1955989

MS-IG-1610

1"

1955990

Bolted Plastic Clamp Supports

Offer versatility for mounting tubing and pipe.

- » Absorb shock and vibration
- » Resist chemicals
- » Reduce stress on components
- » Enhance reliability



Mfr. Model #	Description	Pipe Size	Style	Tube Size	BSE Part #
304-S1-PP-4T	-	-	Group 1	1/4"	2682591
304-S1-PP-6T	-	-	Group 1	3/8"	2682592
304-S3-PP-8T	-	1/2"	Group 3	1/2"	2682595
304-S1-WP	Long mounting plate for S1 series	-	Group 1	-	2682593
304-S3-WPE	Long mounting plate for S3 series	-	Group 3	-	2682596

Ratchet Wrenches

Designed for use on Swagelok nuts for fitting installation.

- » 1/12 turn ratchet for use in close quarters
- » Black-oxide plated steel jaws and handle



Mfr. Model #	Length	Tube Size	BSE Part #
MS-RW-810	10.1"	1/2"	1955996

SWAK Anaerobic Pipe Thread Sealants

Compatible with a wide range of chemicals, enabling leak-tight sealing.

- » Allows low breakaway torque
- » Prevents thread damage
- » Resists vibration
- » 24 hour cure time
- » Temp rating: -65 – 350° F



Mfr. Model #	Container Size	BSE Part #
MS-PTS-50	1.69 oz	2680661

PTFE Tape Pipe Thread Sealants

Works at temperatures up to 450° F.

- » Do not use on flared, coned or tube fitting ends

Swagelok



Mfr. Model #	For Use With	Size	BSE Part #
MS-STR-8	Male threads 1/2" and up	1/2 x 288"	2727563

Snoop® Liquid Leak Detectors

Detect gas leaks even on very small leaks and vertical surfaces.

- » Sustained bubble action
- » Works from -27 – 200° F
- » Flexible snooper tube extends for hard-to-reach areas
- » Noncorrosive, nonflammable formula
- » Contains corrosion inhibitor
- » Formula dries clean

Swagelok



Mfr. Model #	Container	BSE Part #
MS-SNOOP-80Z	8 oz bottle	2464877

Real Cool Snoop® Liquid Leak Detectors

Detect gas leaks at temperatures as low as -65° F, even on very small leaks and vertical surfaces.

- » Sustained bubble action
- » Works from -65 – 200° F
- » Flexible snooper tube extends for hard-to-reach areas
- » Noncorrosive, nonflammable formula
- » Contains corrosion inhibitor
- » Formula dries clean

Swagelok



Mfr. Model #	Container	BSE Part #
MS-RC-SNOOP-80Z	8 oz bottle	2466084

Advanced Products

ORDERING GUIDE

GASKET TYPE

- E= Full face with bolt holes
- F= Ring (raised face, no bolt holes)

GASKET STYLE

- T= Trojan
- N= Buna-N faced phenolic

WASHERS

- SW= Single washers

Gasket Kit Type E ENSW

Facilitates proper alignment of the gasket during installation and foreign material is prevented from shorting the flange insulation

- » Available in plain face or Neoprene face phenolic, as well as a variety of high temperature materials
- » Gasket style: Buna-N faced phenolic
- » Gasket type: Full face with bolt holes
- » Single washers



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
2ENSWI01300	1"	300	1672950
ENSWI0125150	1 -1/4"	150	1476951
ENSWI0125300	1-1/4"	300	1477103
ENSWI02150	2"	150	1477184
2ENSWI02300	2"	300	1671782
ENSWI03150	3"	150	1477287
2ENSWI03300	3"	300	1671783
ENSWI04150	4"	150	1477102
2ENSWI04300	4"	300	1672948
2ENSWI06150	6"	150	1671785
2ENSWI06300	6"	300	1672947
ENSWI08150	8"	150	1477249
2ENSWI08300	8"	300	1672945
2ENSWI10150	10"	150	1671759
2ENSWI10300	10"	300	1672944
2ENSWI12150	12"	150	1672943
2ENSWI12300	12"	300	1672942
ENSWI16150	16"	150	1909442

Type E Gasket Kit ESW

Facilitates proper alignment of the gasket during installation and foreign material is prevented from shorting the flange insulation

- » Available in plain face or Neoprene face phenolic, as well as a variety of high temperature materials
- » Gasket type: Full face with bolt holes
- » Single washers



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
ESWI02150	2"	150	1719109
ESWI03150	3"	150	1719118
ESWI04150	4"	150	1719126
ESWI06300	6"	300	1719132
ESWI08150	8"	150	1719135

Radolid Black Protective Cap

- » Further resistance properties can be given upon request
- » Resistant to water, brine, hydraulic fluid, diesel, greases, gasoline and hydrochloric acid concentrate
- » Type 1, Type 2 and Type 3 caps available
- » 3/4" bolt diameter, reusable
- » For standard nuts or bolts without washers



Mfr. Model #	BSE Part #
SW320G37	1672002

Type F Gasket

Made to fit the raised face portion of the flange only. As there are no bolt holes in the F gasket, the inside diameter of the bolt hole circle is slightly smaller than the outside diameter of the gasket, assuring an exact, automatic positioning of the gasket.



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
FDWP04300	4"	300	1674825

Insulating Flange Gasket Kits

By encapsulating the flange cavity with a flange protector and injecting corrosion inhibitor grease, the cathodic protection system will provide years of trouble free service.

- » Eliminates any possibility of foreign material lodging between the faces of your flange or corrosion bridging across and creating a short



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
FNDWI02150	2"	150	1980056
FNDWI03150	3"	150	1980057
FNDWI04150	4"	150	1980058
FNDWI06150	6"	150	1980059
FNDWI08150	8"	150	2110299

Gasket Kit ETSW

Full face with bold holes

- » Trojan style
- » Single washers



Mfr. Model #	Trade Size	ANSI Code	BSE Part #
ETSWI0125300	1-1/4"	300	1672736
ETSWI075300	3/4"	300	1672735

Flange Insulating Gasket Kit

Flanges, the most common trouble area, need to be sealed properly to prevent leakage and must also be cathodically insulated to prevent stray currents which cause under corrosion and eventual breakdown of the metal.

- » Eliminates any possibility of foreign material lodging between the faces of your flange or corrosion bridging across and creating a short



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
FNDWMY06150	6"	150	1946522

Trojan Sealing Gaskets

Near zero leakage static sealing

- » Can be used in place of RTJ or BX rings
- » Can be used with misaligned and mismatched flanges
- » Large selection of materials available
- » Little initial torque required, no retorquing required
- » Low installation and maintenance costs
- » Seal design tested from 0 – 100,000 psi
- » Sealing ring cannot be left out



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
ETDWMY02600	2"	600	1674826
ETDWMY03150	3"	150	1672739
ETDWMY04600	4"	600	1671938
ETDWMY08600	8"	600	1672738

Gasket Ring

Raised face with no bolt holes



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
GFN02150	2"	150	1980060
GFN03150	3"	150	1980062
GFN04150	4"	150	1980064
GFN06150	6"	150	1980067
GFN08150	8"	150	1980070
GFN03300	3"	300	1476881
GFN04300	4"	300	1980065
GFN06300	6"	300	1980068
GFN02300/600	2"	300-600	1980061
GFN03300/600	3"	300-600	1980063
GFN02600	2"	600	1476963
GFN04600	4"	600	1980066
GFN06600	6"	600	1980069

Gasket with Screen

Raised face with no bolt holes



Mfr. Model #	Trade Size	ANSI Code	BSE Part #
GET/S02150	2"	150	2258256
GET/S03150	3"	150	1674808
GET/S04150	4"	150	2258259

Link Seals

Rubber sealing element designed to form a mechanical seal between pipes going through walls, floors, vaults, tanks and pipeline casings

- » Model IL-Plain is a standard innerlynx system without centering blocks



Mfr. Model #	Description	BSE Part #
IL-CB	Centering block feature	2101267
IL-C	Insulating type plate	2101268
IL-S304/S316	Provided with a stainless steel pressure plate	2101269
IL-T	Silicone, high temperature of up to 400 F fire seal	2101270

FLANGES

Designed to form a rim or close the end of a pipe.
More sizes available.

Raised Face Weld Neck Flange



Mfr. Model #	Pipe Size	ANSI Code	BSE Part #
1500	2"	150	1980196
2700	4"	150	2667791
3300	6"	150	1980199
3600	8"	150	2355885

Weld Neck Reducing Flanges



Mfr. Model #	Size	Type	ANSI Code	BSE Part #
11500	2"	SCH40	300	2463839
12100	3"	SCH40	300	2465080
12700	4"	SCH40	300	2465079
13300	6"	SCH40	300	2465078
13600	8"	SCH40	300	2465072
31502	2"	SCH80	600	2468783
32102	3"	SCH80	600	2464957
32702	4"	SCH80	600	2465074
33302	6"	SCH80	600	2465088
33602	8"	SCH80	600	2465073



Threaded FF Forged Steel Flanges



Mfr. Model #	Size	ANSI Code	BSE Part #
307	3/4"	150	2463794
607	1"	150	2467612
907	1-1/4"	150	2463795
1507	2"	150	2463798
2707	4"	150	2463670
2107	3" x 7-1/2"	150	2463801

Forged Steel Slip-On Flanges



Mfr. Model #	Size	ANSI Code	BSE Part #
304	3/4"	150	2465194
2104	3"	150	2465068
3605	8"	150	2465086

Blind Reducing Flange



Mfr. Model #	Size	ANSI Code	BSE Part #
10904	1-1/4"	300	2465071
1205	1-1/2" x 5"	150	2465067
31504	2"	600	2467613
12104	3"	300	2611750
2704	4"	150	2464958
12704	4"	300	2465076
13304	6"	300	2464961



Mfr. Model #	Size	ANSI Code	BSE Part #
11509	2"	300	2465075
12109	3"	300	2465082
12709	4"	300	2611751
13309	6"	300	2465136
13609	8"	300	2465070

Forged Steel Blind Reducing Flanges



Mfr. Model #	Size	ANSI Code	BSE Part #
905	1-1/4"	150	2463796
1505	2"	150	2463799
1536	2" x 1"	150	2463836
2105	3"	150	2463802
2142	3 x 2"	150	2463837
2705	4"	150	2463671
2742	4" x 2"	150	2464192
2746	4" x 3"	150	2463838
3305	6"	150	2464960
4205	12" x 12.88"	150	2465085



Mfr. Model #	Size	ANSI Code	BSE Part #
30609	1"	600	2467611
1509	2"	150	2667792
31509	2"	600	2667793
2109	3"	150	2667794
32109	3"	600	2467614
2709	4"	150	2667795
32709	4"	600	2775312
3309	6"	150	2667796
33309	6"	600	2667797
3609	8"	150	2840151
3909	10"	150	2667790

Blind FF Flange



Mfr. Model #	ANSI Code	Size	BSE Part #
3310	150	6"	2464959
3610	150	8" x 13-1/2"	2465087

Tee Strainer Weld x Weld

Offers a flexible and economical means of removing particulates from piping systems

- » Materials of body construction: carbon steel A234-WPB and A106-B
- » Maximum differential pressure: 20 PSID



Apollo Engineering Company

Mfr. Model #	Pipe Size	Material	Service Access	BSE Part #
02-TSW-275	2"	Carbon steel frame 40 mesh 304 stainless steel screen	2" NPT malleable iron threaded cap	1673031
02-TSW-1500-S	2"	Carbon steel frame 24 mesh 304 stainless steel screen	2" NPT threaded cap forged steel ASTM 105	1477248

ANSI 300 Pipeline Insulator

- » API 5 L grade B steel standard, x42, x52, x60, x65 and x70 available
- » Designed according to ASME VIII, Division 1
- » For all nominal pipe sizes up to 96" diameter
- » High pressure ratings upto ANSI 2500# and over
- » Mainline joints ANSI 150 through 2500 available
- » Meter service joints upto 150 PSI available
- » Temp ratings over 160° F
- » Volt ratings over 5 kV



Mfr. Model #	Pipe Size	Weight	BSE Part #
INS2-30WW40	2"	11 lbs	1972633
INS3-30WW40	3"	21 lbs	2074073
INS4-30WW40	4"	35 lbs	1972636
INS6-30WW40	6"	68 lbs	2074074
INS8-30WW40	8"	-	2074075
INS10-30WW40	10"	-	2074076
INS12-30WW40	12"	-	2074077

NOTES

Natural Gas
catalog

LINE STOPPER

fittings



In this section

Line stopper fittings **114**

GE Dresser™ LS-2 Weld Fittings

Pressure rated 285 PSI maximum allowable operating pressure at 100° F with completion plug and cap or blind flange installed in class 1, 2, 3 and 4.

- » Pressure control fittings for steel piping
- » 1-1/4 – 3" threaded fittings with completion plug, O-ring and cap
- » 4 – 12" flanged fittings with completion plug, O-ring and blind flange
- » No special adapters required
- » Other sizes also available



Mfr. Model #	Fitting Size	Height	Weight	BSE Part #
6501-1513-00	1.25"	2-3/4"	1.8 lbs	1672868
6501-1515-00	1.5"	2-3/4"	2 lbs	2101294
6501-1502-00	2"	2-3/4"	2.3 lbs	1672874
6501-1503-00	3"	2-3/4"	7.2 lbs	1674775
6501-1504-00	4"	5-3/4"	20 lbs	1674776
6501-1506-00	6"	6-1/2"	55 lbs	1672869
6501-1508-00	8"	7-1/8"	90 lbs	1681295
6501-1510-00	10"	7-3/16"	145 lbs	2101295
6501-1512-00	12"	7-1/4"	190 lbs	2101296

GE Dresser™ LS-2 Weld Fittings with Side Outlet

Pressure rated 285 PSI maximum allowable operating pressure at 100° F with completion plug and cap or blind flange installed in class 1, 2, 3 and 4 locations.

- » 1-1/4 – 3" threaded fittings with completion plug, O-ring and cap
- » 4 – 12" flanged fittings with completion plug, O-ring and blind flange
- » No special adapters required
- » Pressure control fittings for steel piping
- » Other sizes also available



Mfr. Model #	Fitting Size	Length	Height	Weight	BSE Part #
6511-1513-00	1.25"	2.62"	4-3/4"	4 lbs	1674816
6511-1515-00	1.5"	2.56"	6"	4 lbs	2101297
6511-1502-00	2"	3-1/4"	5-1/4"	5.5 lbs	1672867
6511-1503-00	3"	4-3/4"	8"	14 lbs	1672870
6511-1504-00	4"	6-3/4"	9.8"	35 lbs	1672871
6511-1506-00	6"	8.81"	13.32"	55 lbs	1677142
6511-1508-00	8"	10-3/4"	14.81"	130 lbs	2101298
6511-1510-00	10"	14.88"	19"	185 lbs	2101299
6511-1512-00	12"	17.38"	21-1/2"	280 lbs	2101300

GE Dresser™ LS-2 Spherical Fittings

Pressure rated 285 PSI maximum allowable operating pressure at 100° F with completion plug and cap or blind flange installed in class 1, 2, 3 and 4 locations.

- » Side outlets are of sufficient length to accommodate welding line-up clamps
- » 1-1/4 – 3" threaded fittings with completion plug, O-ring and cap
- » 4 – 12" flanged fittings with completion plug, O-ring and blind flange
- » 4" and smaller spherical fittings have a flat faced weld prep on each end
- » 6" and larger have back bevel weld prep on each end
- » Other sizes also available



Mfr. Model #	Fitting Size	Weight	BSE Part #
6523-1504-00	4"	45 lbs	1672873
6523-1506-00	6"	80 lbs	1677256
6523-1508-00	8"	120 lbs	2101301
6523-1510-00	10"	190 lbs	1681284
6523-1512-00	12"	300 lbs	2101302

GE Dresser™ T-O-R Fittings

Designed for use with hot tapping and line stopping equipment.

- » Meets DOT 192
- » Nonscarfed
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Fitting Size	BSE Part #
6600-6002-00	285 PSI	2"	1674828

GE Dresser™ Completion Plug Holder

- » Other sizes also available



Mfr. Model #	Type	Fitting Size	BSE Part #
5900096	SQ	2"	1703959





No-Blo® H-17500 Series Service Tee Weld x Weld

Used to make a main to service connection.

- » Butt weld same size as outlet and socket weld one size smaller than outlet
- » Forged steel body ASTM A105
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Type	Cap Material	Size	BSE Part #
H-17501-1	1,440 psig	-	Steel	1"	2683407
H-17503	250 psig	-	Cast iron	4"	2840042
H-17504	100 psig	Weld x PE fusion	Cast iron	3"	2840035
H17510-2	250.0 psig	Extended for compression coupling	-	2"	2467691

No-Blo® H-17800 Series Curb Stop Tee Weld x Weld

Used to make main to service connections and also offer a means to control service line flow at the main.

- » Butt weld same size as outlet and socket weld one size smaller than outlet
- » Forged steel body ASTM A105, steel completion cap ANSI 12L14
- » Steel perforator specially heat treated - 3/8" tip
- » Weld inlet
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Size	BSE Part #
H17800-99002-330	1440 psig	1"	2727915

Autoperf® Transition Tee Weld x Fusion

Dependable connections from steel gas mains to plastic service lines.

- » Conforms to ASTM D638 and DOT192.285
- » Forged steel body ASTM A105, steel completion cap ANSI 12L14
- » Steel perforator specially heat treated - 5/16 - 3/8" tip
- » Fusion epoxy coating resists corrosion
- » Other sizes also available



Mfr. Model #	BSE Part #
H1810402-250	2794439

No-Blo® Flanged Tees

Available with contoured bottom to fit pipe one size larger than nominal size of tee.

- » O-ring sealed completion plug, forged steel body and flange
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Style	Cap Material	Size	BSE Part #
ANSI Class 150 Flange					
H-17505-00	275 psig	Flat bottom	Cast iron	3"	2683405
H-17505-00	275 psig	Flat bottom	Cast iron	4"	2694452
H-17505-00	275 psig	Flat bottom	Cast iron	6"	2683406
H-17505-00	275 psig	Flat bottom	Cast iron	8"	2683404
H-17505-3	275 psig	Contoured bottom	Cast iron	3"	1477270
H-17505-4	275 psig	Contoured bottom	Cast iron	4"	1476867
H-17505-6	275 psig	Contoured bottom	Cast iron	6"	2683403
ANSI Class 300 Flange					
H17506-4	720 psig	Contoured bottom	Forged steel	4"	1477349

No-Blo® Save-A-Valve® Drilling Nipples - Welding Type

Designed for use with Mueller tools and machines and use the proven Mueller NO-BLO® method to make safe installations and stop offs under pressure with no blowing of gas.

- » For use on steel pipe only
- » Nipple body is forged steel (ASTM A105)
- » Completion plug makes primary seal
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Cap Material	Size	BSE Part #
H-17491-3/4X3	1,440 psig	Steel	3/4" x 3"	2683401

No-Blo® Save-A-Valve® Drilling Nipples

Used for purging and bypassing.

- » O-ring sealed completion plug
- » Body and flange are forged steel
- » ANSI Class 150 flange
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Cap Material	For Use With	Size	BSE Part #
H-17495-6X12	275 psig	Cast iron	Steel pipe	6" x 12"	2683402

No-Blo® Line Stopper Fittings - Welding Type

Designed to make safe installations and stop offs under pressure with no blowing of gas.

- » For use on steel pipe only
- » Fitting top and bottom halves are forged steel (ASTM A105)
- » Completion plug makes primary seal, cast iron completion cap makes secondary seal
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Size	BSE Part #
H17156-2	1,440 psig	2"	1557434

No-Blo® Mechanical Joint Line Stopper Fittings

- » O-ring sealed completion plug
- » Flange, fitting top and bottom halves are cast iron
- » ANSI Class 150 flange
- » For use with steel pipe
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Type	Cap Material	Size	BSE Part #
H-17285-6	175 psig	Thin wall pipe	Cast iron	6"	2683392

No-Blo® Standard Split Line Stopper Fittings - Welding Type

Designed to make safe installations and stop offs under pressure with no blowing of gas.

- » Use on steel pipe only
- » O-ring sealed completion plug
- » Cast iron cap makes secondary seal
- » ASTM A105
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Size	BSE Part #
H-17125-2	250 psig	2"	2683377

Bottom-Out Line Stopper Fittings - Welding Type

Designed to make safe installations and stop offs under pressure with no blowing of gas.

- » Flange, fitting top and bottom halves are forged steel (ASTM A105)
- » Variety of wall types, pressure ratings, and flange classes
- » For use on steel pipe only
- » O-ring sealed
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Type	Cap Material	Size	BSE Part #
ANSI Class 150 Flange					
H-17260	275 psig	Standard wall pipe x standard wall outlet	Cast iron	12"	2683382
H-17270-10	275 psig	Standard wall pipe x thin wall outlet	Cast iron	10"	2683384
H-17270-12	275 psig	Standard wall pipe x thin wall outlet	Cast iron	12"	2683385
H-17270-3	275 psig	Standard wall pipe x thin wall outlet	Cast iron	3"	2683386
H-17270-4	275 psig	Standard wall pipe x thin wall outlet	Cast iron	4"	2683387
H17286-744	275 psig	Thin wall pipe x thin wall outlet	Cast iron	6"	1980216
H-17286-8	275 psig	Thin wall pipe x thin wall outlet	Cast iron	8"	2683393
ANSI Class 300 Flange					
H-17261-22	720 psig	Standard wall pipe x standard wall outlet	Cast steel	4" x 3"	2683383
H17261-4	720 psig	Standard wall pipe x standard wall outlet	Cast steel	4"	1476912
H-17271-4	275 psig	Standard wall pipe x thin wall outlet	Cast steel	4"	2683388
H17281-8	720 psig	Thin wall pipe x standard wall outlet	Cast steel	8"	1477014
H-17287-6	720 psig	Thin wall pipe x thin wall outlet	Cast steel	6"	2683394
H-17287-8	720 psig	Thin wall pipe x thin wall outlet	Cast steel	8"	2683395
ANSI Class 400 Flange					
H17264-10	960 psig	Standard wall pipe x standard wall outlet	-	10"	1558232
H-17264-12	960 psig	Standard wall pipe x standard wall outlet	-	12"	2105227
H17264-4	960 psig	Standard wall pipe x standard wall outlet	-	4"	1476877
H-17282	960 psig	Thin wall pipe x standard wall outlet	-	6"	2450563
H-17282	960 psig	Thin wall pipe x standard wall outlet	-	8"	2450564
ANSI Class 600 Flange					
H-17269	1,440 psig	Standard wall pipe x standard wall outlet	-	4"	2445854
H-17269-799	1,440 psig	Standard wall pipe x standard wall outlet	-	4" x 3"	2450565



Line Stopper Fitting - Welding Type

For stopping off 3 – 12" gas mains, make fast, safe and reliable stop-offs.

- » For use on steel pipe only, O-ring sealed
- » Flange, fitting top and bottom halves are forged steel (ASTM A105)
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Style	Cap Material	Size	BSE Part #
ANSI Class 150 Flange					
H17255-748	275 psig	Standard wall	Cast iron	10"	2694445
H-17275-6	275 psig	Thin wall	Cast iron	6"	2683389
H-17275-8	275 psig	Thin wall	Cast iron	8"	2683390
ANSI Class 300 Flange					
H-17256-3	720 psig	Standard wall	Cast steel	3"	2683379
H-17256-4	720 psig	Standard wall	Cast steel	4"	2683380
H-17276-6	720 psig	Thin wall	Cast steel	6"	2683391
H17276-8	720 psig	Thin wall	Cast steel	8"	2465101
ANSI Class 400 Flange					
H-17257	960 psig	Standard wall	Forged steel	10"	2057767
H-17257-12	960 psig	Standard wall	Forged steel	12"	2683381
H17257-4	960 psig	Standard wall	Forged steel	4"	1477157
ANSI Class 600 Flange					
H17258-4	1,440 psig	Standard wall	Forged steel	4"	1985571
H-17258-4X3	1,440 psig	Standard wall	Forged steel	4" x 3"	1985570

No-Blo® Bottom Out Line Stopper Fittings - Welding Type

Designed to make safe installations and stop offs under pressure with no blowing of gas.

- » Fitting top and bottom halves are forged steel (ASTM A105)
- » Completion plug makes primary seal, steel completion cap makes secondary seal
- » For use on steel pipe only
- » Bottom out feature
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Size	BSE Part #
H17160-550	250 psig	2"	1477096

NOTES

No-Blo® Spherical Line Stopper Fittings - Welding Type

Available in a variety of sizes and pressure ratings.

- » O-ring sealed completion plug
- » Flange, fitting top and bottom halves are forged steel
- » Other sizes also available



Mfr. Model #	Maximum Operating Pressure	Cap Material	For Use With	Size	BSE Part #
ANSI Class 150 Flange					
H-17470-4	285 psig	Cast iron	Steel pipe, with side/bottom pipe stub sized for thin wall	4"	2683396
H-17486-6	285 psig	Cast iron	Thin wall steel pipe	6"	2683398
H-17486-8	285 psig	Cast iron	Thin wall steel pipe	8"	2683399
ANSI Class 300 Flange					
H-17471-4	740 psig	Steel	Steel pipe, with side/bottom pipe stub sized for thin wall	4"	2683397
H-17487-6	740 psig	Steel	Thin wall steel pipe	6"	2683400
H-17487-8	740 psig	Steel	Thin wall steel pipe	8"	2694449

Transition Fittings with 112® Compression Connection

With insert for CTS/IPS plastic tubing having 0.09" wall thickness.

- » Other sizes also available



Mfr. Model #	Type	Size	BSE Part #
H13140-250	Weld (3/4" butt weld or 1/2" socket weld)	Threaded: 3/4"; Compression: 3/4"	1985476
H13143-250	Weld (3/4" butt weld or 1/2" socket weld)	Threaded: 3/4"; Compression: 5/8"	1985475

H-10917 Slide Gate Valves

Ductile iron body.

- » 275 psig (1896 kPa) maximum working pressure at 100° F
- » Test plug allows for stack pressurization
- » O-ring sealed
- » Low profile
- » Other sizes also available



Mfr. Model #	Size	BSE Part #
H10917-550	2"	1672024
H10917-650	3"	1672039
H10917-740	4"	1672040

Control Valve

» Other sizes also available



Mfr. Model #	Size	BSE Part #
H-10914	2"	2840054
H-10914	3"	2840041

Shell Cutter Complete

» For low pressure line stopper fittings



Mfr. Model #	OD Shell Cutter	Size of Fitting	BSE Part #
580678	13/16"	3/4"	2840118
580679	15/16"	1"	1677617
580680	1-1/4"	1-1/4"	2840121
089350	1-3/4"	2"	2840033
89351	2-3/4"	3"	1672103
89352	3-3/4"	4"	1672104

Completion Plug Wrench

» For Mueller® No-Blo® Line Stopper



Mfr. Model #	Size of Fitting	BSE Part #
581264	2"	1672141

Completion Plug Wrench

» Used to "final" tighten the completion plug before the cap is attached



Mfr. Model #	Size of Fitting	BSE Part #
36404	4"	2840044

Test Cap

» For use on schedule 40 steel pipe only



Mfr. Model #	Size of Fitting	BSE Part #
79160	1"	1672130
079161	1-1/4"	2840025
36811	2"	1672121
36813	3"	2840037
502929	4"	1672119

Reseating Reamer

» For Mueller® No-Blo® service stop tees; Mueller® No-Blo® curb stop tees; Mueller® No-Blo® excess flow valves



Mfr. Model #	Pipe Size	BSE Part #
72240	1"	1672053
072241	1-1/4"	2840023
501754	2"	1672008

Rubber Stopper Holder

» For low pressure line stopper fittings



Mfr. Model #	Size for Fitting	BSE Part #
503431	3/4 and 1"	1680911
503433	1-1/4"	2840026
502900	2"	2840034
580900	2"	1672128
502937	3 and 4"	1672084

Chip Sweeper Bushing

» For low pressure line stopper fittings



Mfr. Model #	Size for Fitting	BSE Part #
51062	3"	1672140
502939	4"	1672052

Extracting Tool

» For Mueller® No-Blo® service stop tees



Mfr. Model #	Size for Fitting	BSE Part #
80088	3/4 and 1"	1672080
088279	1"	2840021
081499	1-1/4"	2840053
083212	1-1/4"	2840030
089061	1-1/4"	2840019
580602	2"	1671981
88384	2"	1672068
580919	3"	2840062
580913	4"	2840048



Chip Sweeper

- » For low pressure line stopper fittings



Mfr. Model #	Fitting	BSE Part #
580902	2"	2840038

No-Blo® H-17010 Valve Changers

For meter valves on schedule 40 steel.

- » Fits most roundway and straightway valves
- » O-ring sealed body and stem
- » Maximum working pressure 60 psig



Mfr. Model #	Description	BSE Part #
503723	Rubber plug for 1/2" assembly	3075248
581352	1/2" Complete plugging unit	3075247

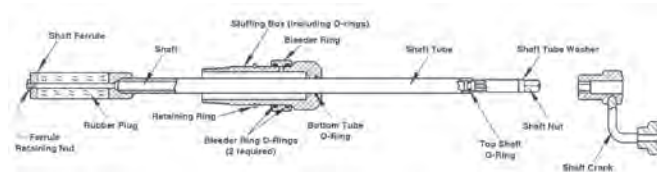
Autoperf® Tee Operating Wrenches and Crimping Tools

Autoperf operating wrenches are used to perforate holes in mains under pressure. Crimping Tools are used to form the top of a steel Autoperf tee body to retain perforator and prevent unintentional removal.



Mfr. Model #	Description	Size	BSE Part #
H-18090-122	Mueller NO- BLO Operating Wrench with ratchet handle	Wrench size: 3/4" x 3/8"	3010565
H-18092-250	Crimping Tool with ratchet handle	Crimping tool sizes 1/2" and 3/4"	3010563
H-18093-250	Same as H-18092 but less ratchet handle	Crimping tool sizes 1/2" and 3/4"	3010564
H-18097-250	To be used before the main is perforated	Crimping tool size: 3/4"	3010562

H-17012 Valve Changer Replacement Parts



Mfr. Model #	Description	BSE Part #
083928	2" Complete plugging unit	3080493

Kravitech PE, Pipe Re-Rounding Tools

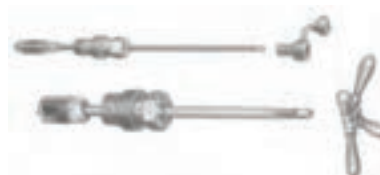
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Mfr. Model #	Size	BSE Part #
228271	6-12" IPS	3079465

No-Blo® H-17012 Valve Changers

For changing out 1-1/2" and 2" Meter Valves installed on schedule 40 steel pipe.

- » Fits most roundway and straightway valves
- » O-ring sealed body and stem
- » Includes two plugging units, safety clamp, wooden storage chest (680288) and operating instructions (Form 8540)
- » Maximum working pressure 60 psig** (414 kPa)



Mfr. Model #	Size	BSE Part #
H17012	1-1/2"-2"	3080492

No-Blo® H-17010 Valve Changers

For meter valves on schedule 40 steel.

- » Fits most roundway and straightway valves
- » O-ring sealed body and stem
- » Maximum working pressure 60 psig



Mfr. Model #	Ports	Size	BSE Part #
83962	Min: 13/32" width; 23/32" height	3/4"	1686000



Solid Rubber Stopper

» For low pressure line stopper fittings



Mfr. Model #	Fitting Size	BSE Part #
089130	1-1/4"	2840027
580917	3"	2840039
580905	4"	2840046

Boring Bar Adapter Extension

» For Mueller® No-Blo® line stopper fittings



Mfr. Model #	Length	Fitting	BSE Part #
064297	5"	2"	2840061

Control Valve

» For Mueller® No-Blo® service tees



Mfr. Model #	Length	Fitting	BSE Part #
H10914	1-1/4"	1"	2023108
H10914	1-1/2"	1-1/4"	2840031



Power Operator

» For use with B-101 tapping and drilling machine



Mfr. Model #	Used with	BSE Part #
H-604	3/4, 1, 1-1/4, 2, 3, 4"	2840071



No-Blo® H-17010 Valve Changers

For meter valves on schedule 40 steel.

- » Fits most roundway and straightway valves
- » O-ring sealed body and stem
- » Maximum working pressure 60 PSIG



Mfr. Model #	Ports	Size	BSE Part #
H17010	Min. width: 11/16" Min. height: 1-9/32"	1-1/4"	1671765



Plugging Unit

For changing out 3/4 or 1" meter valves installed on 1/2" CTS PE Risers.

- » 60 PSIG
- » O-ring sealed
- » Fits most roundway and straightway valves



Mfr. Model #	BSE Part #
H17016	1671985



SHORTSTOPP® Welding Fittings

For use with SHORTSTOPP® 60, SHORTSTOPP® II and SHORTSTOPP® 275 Plugging Machines.

- » Other sizes also available



Mfr. Model #	Size	BSE Part #
06-1179-0000-00	1-1/4"	1671927
26-0211-0000-00	1-1/2"	1671932
26-0212-0000-00	2"	1671729
26-0213-0000-00	3"	1671744
06-7213-0000-00	4"	1671742
06-7214-0000-00	6"	1671743
06-7215-0000-00	8"	1671730
06-7216-0000-00	10"	2457444
06-7217-0000-00	12"	2457445



Flat-Bottomed Tees

Designed for hot tap tie-ins of lateral taps and crossover connections, eliminating need for a valve on the connection.

- » All fittings are compatible with most ASME Class 150 applications
- » Other sizes also available



Mfr. Model #	Description	Type	Size	BSE Part #
26-0220-0000-00	Schedule 40	Threaded	2"	1671812
06-7239-0400-01	Schedule 40	Flanged	4"	1671803
06-7240-0600-01	Schedule 40	Flanged	6"	1671804





THREAD-O-RING™ Fittings

Used with TDW STOPPLE® Plugging machines as purge and equalization fittings. They can also be installed during new construction and used for blowdown connections on either side of a block valve.

- » Consists of: cap, plug, O-ring, and nipple
- » Other sizes also available



Mfr. Model #	Size	BSE Part #
TR-0000-0001-00	2"	2486840

3-Way™ Tee

Used for main relocations, equipment tie-ins, lateral connections, line extensions and for making crossovers, all without shutdown.

- » Includes threaded completion plug and cap
- » Other sizes also available



Mfr. Model #	Type	Size	BSE Part #
06-6741-0000-00	Threaded	1-1/4"	1671920
26-0217-0000-00	Threaded	2"	1671973
26-0218-0000-00	Threaded	3"	1671721
06-7218-0000-00	Flanged	4"	1671964
06-7219-0000-00	Flanged	6"	1671965
06-7220-0000-00	Flanged	8"	1671966
06-7221-0000-00	Flanged	10"	2461722
06-7222-0000-00	Flanged	12"	2464804

Spherical 3-WAY™ Tee

Full-encirclement, low-profile Spherical 3-WAY™ Tee is designed for use with the TDW SHORTSTOPP® Plugging Machine system.

- » All fittings are compatible with most ASME Class 150 applications
- » Other sizes also available



Mfr. Model #	Type	Size	BSE Part #
06-7224-0000-00	Flanged	6"	1671928
06-7225-0000-00	Flanged	8"	1671929
06-7226-0000-00	Flanged	10"	2467637
06-7227-0000-00	Flanged	12"	1671921

SHORTSTOPP® 300D Spherical 3-WAY™ Tee

Furnished with a flange, drilled, faced and pressure-rated to match ASME Class 300 flanges. Used with TDW plugging machines to temporarily plug the line, without shutdown, while installing a permanent bypass.

- » All fittings are stamped with a code number for material identification
- » Other sizes also available



Mfr. Model #	Type	Size	BSE Part #
26-0937-0000-00	Flanged	4"	2464997

Drilling Machines

Used to make connections to pipelines, tanks and plant piping without shutdown.

- » Versatile 1/2" through 4" taps
- » Operates to 1480 psi
- » 32 pounds



Mfr. Model #	BSE Part #
05-1028-0000-00	2840697

Shortstopp Plug Machine Set

Plugs in lines of up to 200 psi and has a maximum operating temperature of 180° F.

- » Set contains: shortstopp machine with plugging head; chip sweep and completion plug holder; sealing cup



Mfr. Model #	Description	Size	BSE Part #
08-0351-0000-00	With 1.2" plugging head and nose	1-1/2"	2840711
08-3309-0000-00	Plugging machine	2"	1671959
08-1682-0000-00	Plugging machine	3"	2840717
08-3501-0304-00	Reduced branch plugging machine	3" x 4"	2989333
07-1034-0000-00	Completion machine	-	2840705
08-0100-0000-00	Plugging machine	4"	2840708
00-6390-0001-00	Purge valve, replacement	0.25 male NPT	2989335

Jackscrew Actuators

Capable of plugging 4" through 12" lines up to 500 psi

- » Maximum working pressure is 500 psi at 100F, 440 psi at 180F



Mfr. Model #	Description	Weight	BSE Part #
08-0940-0000-00	Shortstopp 500	70 lbs	2840713

Tapping Adapter



Mfr. Model #	Description	BSE Part #
00-0706-0015-00	2" tapping adapter for T-101 DM	2840695
06-1302-0015-00	4"-150# RF tapping adapter F/T-101	1671908
06-1303-0001-02	3" threaded tapping adapter F/T-101	2840699
06-5724-0001-00	4" valve-to-fitting adapter	1671919

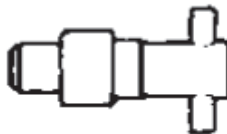
Holder Pilot



Mfr. Model #	Description	Diameter	Weight	BSE Part #
05-0204-0000-00	For size on size taps only	2 - 3"	1/2 lb	1671914
05-0205-0000-00	For size on size taps only	4"	-	1671942
05-0275-0000-00	For size on size taps only	1-1/2"	-	2783609

Completion Plug Holder

- » 275 series stopoff equipment



Mfr. Model #	Description	Diameter	BSE Part #
07-0974-0000-00	2" and 3" plug holder assembly with Shortstopp 275	2"	2840704
07-0334-0000-00	4"-8" fuse with Shortstopp 275	4"	2840701
08-0121-0000-00	4" plug holder assembly	4"	2840710

Sealing Cups

- » 275 series stopoff equipment



Mfr. Model #	Description	Diameter	BSE Part #
08-0947-0002-00	For standard wall pipe	2"	2840716
08-0947-0003-00	For standard wall pipe	3"	2840714
08-0114-0003-00	For 60 psi MWP Pipe 3.062-3.188	3"	1671807
08-0502-0003	For 60 psi MWP Pipe 3.188-3.260	3"	2089033
08-0114-0004-00	For standard wall pipe	4"	1671808
08-0947-0004-00	For standard wall pipe	-	2747529

Plugging Heads

Inserted into pipe and the void between the two plugging heads can be bled down to provide a "zero energy" zone.

- » 275 series stopoff equipment

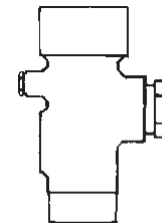


Mfr. Model #	Description	Diameter	Weight	BSE Part #
08-2252-0000-00	500 psi	2"	2 lbs	2840735
08-2253-0000-00	500 psi	3"	4 lbs	2840736
08-1744-0000-00	-	4"	6 lbs	2840718

Plugging Head Housings

Houses and protects the plugging head

- » 275 series stopoff equipment



Mfr. Model #	Description	Diameter	Weight	BSE Part #
08-1746-0000-00	500 psi/07-1034-0000-00	2"	6 lbs	2840727
08-1747-0000-00	500 psi/07-1034-0000-00	3"	10 lbs	2840728
08-1748-0000-00	275 psi/07-1034-0000-00	4"		2840730



Side Outlet Pluggers

Can be installed on the end of either SHORTSTOPP® Plugging Machine and is used on 3-Way tees to plug the tapped hole in the main line.

» 275 series stopoff equipment



Mfr. Model #	Diameter	Weight	BSE Part #
08-1872-0000-00	2"	2.2 lbs	2840731
08-1873-0000-00	3"	5 lbs	2840732
08-1874-0000-00	4"	7.5 lbs	2840734

Shortcut Valves

Temporary compact valves that reduce the travel required for the drilling machine's boring bar to make taps.



Mfr. Model #	Description	Diameter	Weight	BSE Part #
09-0758-0000-00	-	2"	8.5 lbs	1671752
09-0759-0000-00	-	3"	21 lbs	2840738
09-0040-0000-00	245 psi	4"	25 lbs	2840739

Speed Tapper Accessories



Mfr. Model #	Description	BSE Part #
00-0003-0011-00	Esna nut (10-24NC)	1671734
00-0204-0400-08	Shoulder screw (10-24NC)	2919859

U-SEAL™ Casing Seals for Cased Crossings

Allows maximum flexibility for carrier pipe movement and concentric installations.

» Seal is held firmly in place by stainless steel bands and clamps



Mfr. Model #	Type	Size	BSE Part #
10-0093-0001-00	U-1 seal	2" x 4"	2463168
10-0093-0010-00	U-1 seal	4" x 6"	2489897
10-0093-0005-00	U-2 seal	6" x 10"	2568374

SHORTSTOPP® PE Plugging and Branching Fittings

These fittings are easy to install and eliminate the need for a squeeze-off operation.

» Completion plug installation, permitting removal of the valve

» The best isolation option

» Branching and branch plugging capability

» Bypass capability, stainless steel blind flange



Mfr. Model #	Type	Size	BSE Part #
26-1315-0608-00	Plugging	6" x 8"	2470356
26-1315-0608-01	Branching	6" x 8"	2470355
26-1315-0812-00	Plugging	8" x 12"	2487939
26-1315-0812-01	Branching	8" x 12"	2470354

Hole Saws

» For T-101 drilling machines; model T-101B and T-101B-XL



T.D. Williamson, Inc.

Mfr. Model #	Hole Saw Size	Actual OD Diameter	Diameter	BSE Part #
00-1151-0005-00	1-1/4"	1.312"	1-1/4"	1671869
05-0179-0002-00	2"	1-7/8"	2"	1671850
05-0179-0003-00	3"	2-7/8"	3"	1671851
05-0179-0004-00	4"	3-7/8"	4"	1671852

NOTES

LINE STOPPER FITTINGS

NOTES

Natural Gas
catalog

VALVES and **VALVE BOXES**



In this section

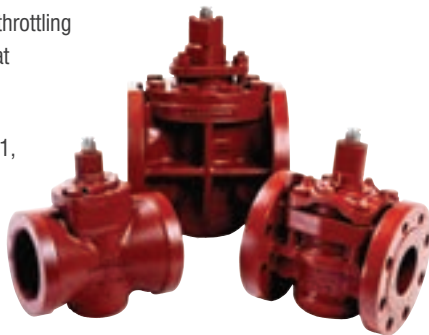
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Plug VALVES

Iron Plug Valves

Made in a variety of patterns that assure maximum economy and efficiency for the full range of valve services. Suitable for air conditioning and heating services, oil and gas applications and water treatment installations.

- » Valve seat never exposed
- » Positive quarter-turn operations
- » No part vibration when throttling
- » Instant, push-button seat replacement
- » Drop-tight seating
- » Standards: ANSI B1.20.1, B16.1, B16.10, API 5B, ASTM A125, Class B, 125 and MSS SP-78



Mfr. Model #	Size	Length	Description	BSE Part #
Flanged end configuration				
115-2	2"	7-1/2"	Screwed gland	1595402
115-3	3"	7-1/2"	Screwed gland	1595371
115-4	4"	7-1/2"	Screwed gland	1595370
143-1	1"	5-1/2"	Includes Super Nordstrom two bolt cover	1595317
143-1-1/2	1-1/2"	5-1/2"	Includes Super Nordstrom two bolt cover	1595316
143-1-1/4	1-1/4"	5-1/2"	Includes Super Nordstrom two bolt cover	1477297
143-2	2"	5-1/2"	Includes Super Nordstrom two bolt cover	1477362
143-2-1/2	2-1/2"	5-1/2"	Includes Super Nordstrom two bolt cover	1595313
143-2/12183	2"	5-1/2"	Includes Super Nordstrom two bolt cover, 2" square adapter	1595314
143-3	3"	5-1/2"	Includes Super Nordstrom two bolt cover	1477012
143-4	4"	5-1/2"	Includes Super Nordstrom two bolt cover	1680306
143-4/12185	4"	5-1/2"	Includes Super Nordstrom two bolt cover, 2" square adapter	1595309
143-5	5"	5-1/2"	Includes Super Nordstrom two bolt cover	1595308
143-6	6"	5-1/2"	Includes Super Nordstrom two bolt cover	1476902
143-8	8"	5-1/2"	Includes Super Nordstrom two bolt cover	1595321
149-6	6"	10-1/2"	Available with Worm Gear operator	1595279

Iron Plug Valves (continued)

Mfr. Model #	Size	Length	Description	BSE Part #
Threaded end configuration				
149-8	8"	10-1/2"	Available with Worm Gear operator	1595303
149-12	12"	14"	Available with Worm Gear operator, 2" square adapter	1680375
305-2	2"	7-1/4"	Screwed gland	1741019
305-3	3"	9-1/4"	Screwed gland	1594526
305-4	4"	10-1/2"	Screwed gland	1594525
525-4	4"	12"	500 CWP Screwed gland regular pattern	1594355
525-1	1"	6-1/4"	Screwed gland regular pattern	1594357
1585-6	6"	15-7/8"	-	1595301
142-1-1/2	1-1/2"	5"	-	1843992
142-1-1/4	1-1/4"	5"	-	1595325
142-1/2	1/2"	4-1/2"	-	1595326
142-2	2"	5-22/25"	-	1477129
142-2-1/2	2-1/2"	7"	-	1595322
142-3	3"	7-31/50"	-	1595320
142-3/4	3/4"	4-1/2"	-	1595319
142-4	4"	9"	-	1595318
824-3/4	3/4"	8.13"	800 CWP screwed gland regular pattern	1720012

Bolted Gland Steel Plug Valve Weld x Weld

- » ANSI 150
- » Conforms to the following standards: ANSI B1.20.1, B16.5, B16.10, B16.11, B16.25, B16.34, B18.2.1 and B18.2.2
- » Weld x Weld end configuration



Mfr. Model #	Description	Pipe Size	Length	BSE Part #
4185-1/2-6	-	6"	13"	1671881
4185-1/2-6/1277	2" adapter	6"	13"	1476895
4185-1/2-8	-	8"	15-1/2"	1477013
4189-1/2-6	Hand wheel operated	6"	13"	1594482

NOTES



Super Nordstrom Steel Plug Valve

Complements the dynamic balance plug valve line, offering the benefits of predictable low torque, at a competitive price.

- » Broad range of applications in gas distribution and general services
- » Available sizes: 1/2" – 4" ASME pressure classes 150, 300, and 600; 3/4" – 4" 200 CWP pressure rating



Mfr. Model #	Size	Length	ANSI Class	Description	BSE Part #
Weld x Weld end configuration					
1925-1/2-2	2"	10-1/2"	150	Short pattern	1595275
1925-1/2-3	3"	10-1/2"	150	Short pattern	1595274
1942-1/2-1-1/4	1-1/4"	5"	150	Short pattern, socket weld	1477182
1942-1/2-3/4	3/4"	5"	150	Short pattern, socket weld	1477339
1943-1/2-2	2"	5"	150	Short pattern, socket weld	1595277
1943-1/2-2/12183	2"	5"	150	Short pattern, socket weld, includes 2" square adapter	1477056
1943-1/2-4/12185	4"	5"	150	Short pattern, socket weld, includes 2" square adapter	1477329
1943-1/2-4	4"	5"	150	Short pattern, socket weld	1671855
2025-1/2-2	2"	10-1/2"	300	-	1595246
2025-1/2-2/12183	2"	10-1/2"	300	Short pattern, includes 2" square adapter	1477084
2025-1/2-4	4"	10-1/2"	300	-	1595245
2025-1/2-4/12186	4"	10-1/2"	300	Short pattern, includes 2" square adapter	1477316
Flange x Flange end configuration					
1925-2	2"	7"	150	Short pattern, raised face	1595272
1925-3	3"	7"	150	Short pattern, raised face	1595273
1925-4	4"	7"	150	Short pattern, raised face	1595276
2025-1	1"	6-1/4"	300	Short pattern, raised face	1477357
2025-2	2"	6-1/4"	300	Short pattern, raised face	1595244
2025-2/12183	2"	6-1/4"	300	Short pattern, raised face, includes 2" square adapter	1477067
2025-3	3"	6-1/4"	300	Short pattern, raised face	1595243
2025-4	4"	6-1/4"	300	Short pattern, raised face	1595242
2025-4/12186	4"	6-1/4"	300	Short pattern, raised face, includes 2" square adapter	1477002
Threaded end configuration					
2024-2	2"	7-1/4"	300	Short pattern	1595248
2024-1/2-1-1/4	1-1/4"	5-1/2"	300	Short pattern	1476875
2024-1/2-3/4	3/4"	5-1/2"	300	Short pattern	1477356
2224-1	1"	4-1/2"	600	Regular pattern	1671887
2224-2	2"	7-1/4"	600	Regular pattern	1671888

Dynamic Balance Steel Plug Valve

A pressure-balanced plug assures predictable torque, even under high pressure differential, vibration, and thermal cycling. Pressure energized stem seals eliminate external adjustments and the stem and cover weatherseal provides superior corrosion resistance in hostile environments.



Mfr. Model #	Size	Length	ANSI Class	Description	BSE Part #
63532	1.06"	18"	300	Venturi pattern	1594249
63533	1-1/4"	18"	300	Venturi pattern	1594248
63588	1.44"	18"	300	Venturi pattern	1594247
63589	1.59"	18"	300	Venturi pattern	1594278
Flange x Flange end configuration					
1945-6	6"	10-1/2"	150	Short pattern, raised face	1595278
2045-2	2"	8-1/2"	300	Short pattern, raised face	1595235
2045-4	4"	12"	300	Short pattern, raised face	1595234
2045-6	6"	15-22/25"	300	Short pattern, raised face	1477224
2049-6	6"	15-22/25"	300	Short pattern, raised face, hand wheel operated	1595230
2245-2	2"	11-1/2"	600	Raised face, regular pattern	1595191
2245-3	3"	14"	600	Raised face, regular pattern	1595142
2245-4	4"	17"	600	Raised face, regular pattern	1741003
2245-6-W/12185	6"		600	Raised face, regular pattern, 2" square adapter	1680305
2349-6	6"	24"	900	Raised face, regular pattern, hand wheel operated	1675205
4245-6	6"	15-22/25"	300	Raised face, venturi pattern	1594477
4245-8	8"	16-1/2"	300	Raised face, venturi pattern	1594476
4249-12	12"	19-3/4"	300	Raised face, venturi pattern	1594471
Weld x Weld end configuration					
2045-1/2-2	2"	11-1/2"	300	Short pattern	1595241
2045-1/2-4	4"	11-1/2"	300	Short pattern	1595207
2245-1/2-2	2"	11-1/2"	600	Regular pattern	1557454
2245-1/2-4	4"	17"	600	Raised face, regular pattern	1595183
2245-1/2-3	3"	14"	600	Raised face, regular pattern	1595184
Weld x Flange end configuration					
2045-1/4-2	2"	11-1/4"	300	Short pattern, raised face	1595237
2045-1/4-4	4"	11-1/4"	300	Short pattern, raised face	1595236
2245-1/4-2	4"	11-1/2"	600	Raised face, regular pattern	1595181
2245-1/4-3	3"	14"	600	Raised face, regular pattern	1595179
2245-1/4-4	4"	17"	600	Raised face, regular pattern	1595176

Polyethylene VALVES

Polyethylene Valves

- » For use in natural gas distribution, natural gas gathering, landfill gas-methane, hydrocarbon fuel gases, hydrogen, air, other inert gases- helium-argon-neon
- » Standards: ANSI B16.40, ASTM D-2513, US Dept. of Transportation 49CFR-Part 192



Mfr. Model #	Size	Description	Material	SDR	BSE Part #
Full Port Type					
BV0010B-TFNO-000	1/2 CTS	Full port	PE 2406	.9	1946710
C84111-3/4	3/4 IPS	Maximum allowable service pressure at 74° F, 80 PSIG	PE 2406	11	1593954
66211-1	1 IPS	Maximum allowable service pressure at 74° F, 160 PSIG; Poly water valves	PE 3408	11	1594230
BV0070Y-TFNO-000	1 IPS	IPS medium density ball valve, full port	PE 2406	11	1720223
BV0030D-TFNO-000	1 CTS	Full port	PE 3408	0.9	1720805
66111-2	2 IPS	Maximum allowable service pressure at 74° F, 160 PSIG; Poly water valves	PE 3408	11	1594237
BV0200Y-TFNO-000	2 IPS	-	PE 2406	11	1718769
66111-3	3 IPS	Maximum allowable service pressure at 74° F, 160 PSIG; Poly water valves	PE 3408	11	1594236
BV0300Y-TFNO-000	3 IPS	-	PE 2406	11	1741147
88111-4	4 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1557418
BV0400Y-TFNO-000	4 IPS	-	PE 2406	11	1927638
88111-6	6 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1594112
88193-3	6 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	9.3	1594110
84111-8	8 IPS	Maximum allowable service pressure at 74° F, 80 PSIG	PE 2406	11	1594138
84113-8	8 IPS	Full port yellow polyvalve	PE 2406	13	1594137
BV0800R-TFNO-000	8 IPS	Full port	PE 2406	13.5	1975743
84111-12	12 IPS	Maximum allowable service pressure at 74° F, 80 PSIG	PE 2406	11	1594142
88111-8	20 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1594111
Reduced Port Type					
C88211-1	1 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1593946
C84211-1	1 IPS	Maximum allowable service pressure at 74° F, 80 PSIG	PE 2406	11	1593853
C88211-1-1/4	1-1/4 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1593945
C85211	1-1/4 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1593948
C84210-1-1/4	1-1/4 IPS	Maximum allowable service pressure at 74° F, 80 PSIG	PE 2406	10	1593953

Polyethylene Valves (continued)

Mfr. Model #	Size	Description	Material	SDR	BSE Part #
Reduced Port Type					
C85211-2	2 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1593947
88211-6	6 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1594107
88211-8	8 IPS	Maximum allowable service pressure at 74° F, 100 PSIG	PE 3408	11	1594106
84213-8	8 IPS	Reduced port yellow polyvalve, trade size: 8"	PE 2406	13	1594130
Standard Port Type					
BV0080X-TSNO-000	1-1/4 IPS	Standard port	PE 2406	10	1927636
BV0080Y-TSNO-000	1-1/4 IPS	Standard port	PE 2406	11	1719972
BV0200Y-MFNO-000	2 IPS	Standard port	PE 3408	11	1843989
BV0200Y-TSNO-000	2 IPS	-	PE 2406	11	1928675
BV0400Y-TSNO-000	4 IPS	-	PE 2406	11	1927639
BV0600Y-TSNO-000	6 IPS	-	PE 2406	11	1927640
BV0400Y-MFNO-000	14 IPS	Standard port	PE 3408	11	1891198

Ball VALVES

Series-F Raised Face Valve

Ductile Iron, flanged end.

- » Bolted construction, built-in locking devices, fire safe design
- » Multi-seal seats, requires no lubrication



BALON.

Mfr. Model #	Size	ANSI	Maximum Operating Pressure	Port Type	Weight	BSE Part #
2R-F12-RF	2"	150	225 psi	Regular	17 lbs	2053355
2F-F13-RF	2"	150	285 psi	Full	28 lbs	2048375
4F-F13-RF	4"	150	285 psi	Full	79 lbs	2048373
6F-F13-RF	6"	150	285 psi	Full	111 lbs	2053351
2F-F33-RF	2"	300	740 psi	Full	37 lbs	2048374
4F-F33-RF	4"	300	740 psi	Full	122 lbs	2048372
6F-F33-RF	6"	300	740 psi	Full	336 lbs	2062388
2F-F63-RF	2"	600	1,480 psi	Full	47 lbs	2062389
4F-F63-RF	4"	600	1,480 psi	Full	240 lbs	2048366
6F-F63-RF	6"	600	1,480 psi	Full	461 lbs	2062387

Series-US Weld X Flange Valves

- » Maximum operating pressure 285 psi
- » Full port type
- » ANSI 150

BALON.

Mfr. Model #	Size	Weight	BSE Part #
2F-US13-WF	2"	29 lbs	2053360
4F-US13-WF	4"	83 lbs	2053362





Series-US Weld X Weld Valves

Carbon steel, heat dissipating fins.

- » Heavy-duty forged components and stainless stop
- » 2" square nuts
- » Multi-seal seats
- » No maintenance required


BALON.

Mfr. Model #	Size	ANSI	Maximum Operating Pressure	Port Type	Weight	BSE Part #
2R-US13-BW	2"	150	285 psi	Regular	16 lbs	2053357
2F-US13-BW	2"	150	285 psi	Full	22 lbs	1980228
3F-US13-BW	3"	150	285 psi	Full	44 lbs	1980229
4R-US13-BW	4"	150	285 psi	Regular	45 lbs	2053358
4F-US13-BW	4"	150	285 psi	Full	69 lbs	1980230
6R-US13-BW	6"	150	285 psi	Regular	71 lbs	2053359
2F-US33-BW	2"	300	740 psi	Full	23 lbs	2062390
4F-US33-BW	4"	300	740 psi	Full	69 lbs	2048371

Series-LM Carbon Steel Valves

Screwed end with bolted construction.

- » 316 stainless ball and stem built-in lock device
- » Maximum operating pressure 3,000 psi
- » Regular port type
- » Fire safe design, low operating torque
- » Multi-seal seats
- » No maintenance required


BALON.

Mfr. Model #	Size	Weight	BSE Part #
LM-05361	1/2"	1 lb	2053349
LM-10361	1"	3-1/2 lbs	2062391

Ballomax® Floating Ball Valve with Weld End

Fully welded carbon steel valves with regular opening.

- » Locking plate with POWERSTOPPS™ 600 ft/lbs
- » Zinc coated stem bearings, above or below ground applications
- » 304 stainless steel
- » 1/4 turn operations


BROEN

Mfr. Model #	Size	Port Size	Weight	BSE Part #
125BMW740RP	1-1/4"	0.98"	8 lbs	1673003
2BMW285RP	2"	1"	10 lbs	1681442
3BMW740RP	3"	2.56"	25.2 lbs	1594495
4BMW285RP	4"	3.15"	35.3 lbs	1594447

Ballomax® Floating Ball Valves with Flange x Flange End

Fully welded carbon steel valves with regular opening.

- » Locking plate with POWERSTOPPS™ 600 ft/lbs
- » Zinc coated stem bearings
- » Above or below ground applications
- » 304 stainless steel
- » 1/4 turn operations


BROEN

Mfr. Model #	Size	Maximum Operating Pressure	Port Size	Weight	ANSI Class	BSE Part #
4BMF285RP	4"	285 psi	3.15"	43 lbs	150	2042555
2BMF740RP	2"	740 psi	1.57"	24.7 lbs	300	2101156
4BMF740RP	4"	740 psi	3.15"	74.8 lbs	300	2101342
6BMF740RP	6"	740 psi	4.9"	139 lbs	300	2101343
8BMF740RP	8"	740 psi	5-3/4"		300	2101157

Ballomax® Floating Ball Valves with Weld x Flange End

Fully welded carbon steel valves with regular opening.

- » Locking plate with POWERSTOPPS™ 600 ft/lbs
- » Zinc coated stem bearings
- » Above or below ground applications
- » 304 stainless steel
- » 1/4 turn operations


BROEN

Mfr. Model #	Size	Maximum Operating Pressure	Port Size	Weight	ANSI Class	BSE Part #
2BMWF285PLRPCB	2"	285 psi	1.57"	16 lbs	150	2461615
3BMWF285PLRPCB	3"	285 psi	2.56"	25.1 lbs	150	2483664
4BMWF285RP	4"	285 psi	3.15"	25.7 lbs	150	2467544
6BMWF285PLRPCB	6"	285 psi	4.9"	77 lbs	150	2651828

Floating Ball Valves With Weld End

Fully welded carbon steel valves with regular opening.

- » Locking plate shows valve operating position
- » Stem bearings, above or below ground applications
- » ANSI 150
- » Fully welded steel body
- » Max PSI: 285


BROEN

Mfr. Model #	Size	Port Size	Weight	BSE Part #
4BMW285PLRPCB	4"	3.15"	25 lbs	2465932

Gas

CURB BOXES

Gas Curb Boxes

Slip-type design protects the service from downward pressure; the box absorbs the pressure from above. If all the downward adjustment is used and additional pressure causes the box to collapse further, the bell area will collapse damaging the service.

- » A full throat/unobstructed upper tube, allows more room to operate the key
- » A permanent magnet is in every upper tube
- » A metal reflector is included in every plastic lid for easy location with electronic locators
- » Easily adjusts to grade level—no need to dig when grade changes; just step-on to push down or pry it up
- » Made from superior grade ABS plastic that's long lasting and won't rust, rot, or corrode



Code	Description		
Step 1: Lid Lettering			
G	Gas		
V	Vent		
Step 2: Box Size			
2	2"		
Step 3: Lid Material			
I	Iron		
P	Plastic		
Step 4: Upper Tube Style			
C	Plastic flange top with cast Iron Collar		
F	Plastic flange top		
H	Heavy duty iron flange top		
S	Straight top flange		
If you chose Code C, F or S from Step 4, please choose from the following codes:			
If you chose Code H from Step 4, Please choose from the following codes:			
Code	Description	Code	Description
A	21" – 26-3/4"	A	18" – 24"
B	23" – 30-3/4"	B	20" – 28"
C	25" – 34-3/4"	C	22" – 32"
D	27" – 38-3/4"	D	24" – 36"
E	28" – 41-3/4"	E	26" – 39"
F	30" – 44-3/4"	F	27" – 42"
G	33" – 50-3/4"	G	30" – 48"
H	40" – 64-3/4"	H	37-1/2" – 62"
K	54-1/4" – 78-3/4"	K	51-1/2" – 76"
L	66-1/4" – 90-3/4"	L	63-1/2" – 88"
M	78-1/4" – 102-3/4"	M	75-1/2" – 100"
Step 5: Adjustable Range			
Measured from the top of the box to the bottom of the box.			

Gas Curb Boxes (continued)

Code	Description		
Step 6: Support System Modification and Special Bells			
If you are using a support with your Curb Box, one of the codes below is required:			
01	1/2", 3/4", 1", 1-1/4" Handley Plastic Ball Valves		
02	1" Dresser GTO-Coated and Uncoated Valve		
02	1" CTS Kerotest Plastic Plug Valve		
03	1/2", 3/4", 1", 1-1/4" Nordstrom Poly Plug and Stab Valves		
04	3/4" Dresser Coated Valve		
07	1-1/4" Dresser GTO-Coated and Uncoated Valve		
09	2" Lyall Poly Ball Valve (old, see VV37)		
10	1-1/4" Lyall Poly Ball Valve		
14	3/4", 1" Lyall Poly Ball Valves (old, see VC38)		
15	3/4", 1" Dresser Steel Valves w/FPT		
16	1" IPS Kerotest Plastic Plug Valve		
16	1-1/4" Kerotest Plastic Plug Valve		
18	1/2", 3/4", 1", 1-1/4" Perfection Plug Valves		
18	1/2", 3/4", 1", 1-1/4" Kerotest Plug - Fusion and Stab Valves		
21	1" CTS Mueller Brass Compression Valve		
22	1/2", 3/4", 1", 1-1/4" Nordstrom Poly II Ball Valves		
22	1/2", 3/4", 1", 1-1/4" Kerotest Polyball Valves (1-1/4" Reduced-Port)		
22	1/2", 3/4", 1", 1-1/4" Lyall-Polytec Ball Valves		
37	2" Lyall Poly Ball Valve (new, see VC9)		
38	1/2", 3/4", 1", 1-1/4" Lyall Poly Ball Valves (new, see VC14)		
41	1-1/2" Full-Port Lyall-Polytec Ball Valve		
41	2" Reduced-Port Kerotest Polyball Valve		
41	2" Standard-Port Lyall-Polytec Ball Valve		
41	1-1/4", 1-1/2" Full-Port Kerotest Polyball Valves		
51	Snap-on bell for Nordstrom Plug Valves		
Step 7: Lid Color			
Code	Description	Code	Description
No code (Standard)	Yellow	E	White
A	Black	C	Green
B	Blue	F	Orange
D	Red		
Step 8: Flange Color			
Code	Description	Code	Description
No code (Standard)	Silver	H	Yellow
G	White	J	Black
CodeDescription			
Step 9: Tracer Wire Holes (Not available on heavy duty boxes)			
K	Tracer wire holes		
Step 10: Vent Hole			
L	One 3/8" vent hole		
N	Two 3/8" vent holes (Mandatory for step 4, codes C, F and H)		
Step 11: Magnet			
No code (Standard)	One magnet located in the flange		
P	No magnet		
Q	One magnet located in the lower tube		
R	One magnet located in the upper tube and one in the lower tube		



2-1/2" Plastic Curb Boxes

- » Magnetized rim and lid
- » Top tube and bottom section is high-impact resistant plastic
- » Cast iron lid and rim
- » Slide and screw styles available
- » White ABS plastic
- » Vented yellow gas lid and brass bolt on P2TL20GFVWE and P2TLDGFVW



Bingham & Taylor

Mfr. Model #	Description	Length	Style	Support Range	Bell	BSE Part #
P2B205014GWS.5	Complete curb box	-	-	26 – 48"	014	2653891
P2B205G001W	Complete curb box	-	-	26 – 48"	001	2653892
P2E23028	28" extension only	-	-	-	-	2653893
P2TL20GFVWE	Top section	20"	Slide	-	-	2653894
P2TLDGFVW	Top section	20"	Screw	-	-	2653895

Valve BOXES

Valve Boxes

Slip-type design protects the service from downward pressure. The box absorbs the pressure from above. If all the downward adjustment is used and additional pressure causes the box to collapse further, the bell area will collapse before damaging the service. This is a safe installation.

- » A full throat/unobstructed upper tube, allows more room to operate the key
- » A permanent magnet is in every upper tube
- » A metal reflector is included in every plastic lid for easy location with electronic locators
- » Easily adjusts to grade level—no need to dig when grade changes; just step-on to push down or pry it up
- » Made from superior grade ABS plastic that's long lasting and won't rust, rot or corrode



Code	Description
Step 1: Lid Lettering	
G	Gas
S	Sewer
W	Water
Step 2: Box Size	
4	4"
Step 3: Lid Material	
V	Valve box
H	Heavy duty box

Valve Boxes (continued)

Code	Description
Step 4: Arch	
A	Yes
N	No

Step 5: Adjustable Range	
Measured from the top of the box to the bottom of the box. Make your selection from the group that matches your box type for Step 3.	

Valve Boxes	
2	24" – 30"
3	30" – 42"
4	42" – 54"
5	54" – 66"
Heavy Duty Boxes	
2	26" – 32"
3	32" – 44"
4	44" – 56"
5	56" – 68"

Step 7: Support System Modification	
If you are using a support with your valve box, one of the codes below is required:	
05	2" Full-Port Kerotest Polyball Valve
05	2" Full-Port Lyall-Polytec Ball Valve
05	2" Full-Port Nordstrom Poly Ball Valve
05	3" Reduced-Port Kerotest Polyball Valve
05	3" Reduced-Port Nordstrom Poly Ball Valve
05	3" Standard-Port Lyall-Polytec Ball Valve
08	2", 3" Kerotest Poly Butterfly Valves
11	2" Dresser GTO-Coated And Uncoated Valve
24	2" Reduced-Port Nordstrom Poly II Ball Valve
26	2" Handley Plastic Ball Valve
33	2" Perfection Modified Poly Ball Valve (new, see VV25)
42	2" Balon Steel Valve

Step 8: Lid Color	
If you are using a support with your valve box, one of the codes below is required:	
No code (Standard)	Silver
A	Yellow
B	Blue
J	Black

Step 9: Vent Hole	
C	One 3/8" vent hole
Step 10: Magnet (One magnet located in the flange is standard)	
D	No magnet (Heavy duty boxes not supplied with magnet.)

NOTES

VALVES AND VALVE BOXES

NOTES



Valve Boxes

Slip-type design protects the service from downward pressure. The box absorbs the pressure from above. If all the downward adjustment is used and additional pressure causes the box to collapse further, the bell area will collapse before damaging the service. This is a SAFE installation.

- » A full throat/unobstructed upper tube, allows more room to operate the key
- » A permanent magnet is in every upper tube
- » A metal reflector is included in every plastic lid for easy location with electronic locators
- » Easily adjusts to grade level—no need to dig when grade changes; just step-on to push down or pry it up
- » Made from superior grade ABS plastic that's long lasting and won't rust, rot or corrode



Code	Description
Step 1: Lid Lettering	
G	Gas
S	Sewer
W	Water
Step 2: Box Size	
6	6"
Step 3: Lid Material	
V	Valve Box
H	Heavy Duty Box
Step 4: Arch	
A	Yes
N	No
Step 5: Lower Tube Design	
B	9" Bell
Valve Boxes	
2	24" – 30"
3	29" – 42"
4	37" – 54"
5	41" – 66"
Heavy Duty Boxes	
2	26" – 32"
3	31" – 44"
4	39" – 56"
5	43" – 68"

Valve Boxes (continued)

Code	Description
Step 6: Adjustable Range	
Measured from top of the box to the bottom of the box. Make your selection from the group that matches your box type for Step 3.	
Step 7: Lid Type	
Standard	Locking lid
N	Non-locking
Step 8: Support System Modification	
If you are using a support with your valve box, one of the codes below is required:	
06	3" Full-Port Kerotest Polyball Valve
06	3" Full-Port Lyall-Polytec Ball Valve
06	3" Full-Port Nordstrom Poly Ball Valve
06	4" Reduced-Port Kerotest Polyball Valve
06	4" Reduced-Port Nordstrom Poly Ball Valve
06	4" Standard-Port Lyall-Polytec Ball Valve
19	2" Kerotest Poly Plug Valve
20	4" Kerotest Poly Plug Valve
25	2" Perfection Plug Valve (old, see VV33)
28	3" Kerotest Poly Plug Valve
29	2" Frialen-Friatec Poly Ball Valve
30	3", 4" Frialen-Friatec Poly Ball Valves
Step 9: Lid Color	
If you are using a support with your valve box, one of the codes below is required:	
No code (Standard)	Silver
A	Yellow
B	Blue
J	Black
Step 10: Vent Hole	
C	One 3/8" vent hole
Step 11: Magnet	
No code (Standard)	One Magnet located in the flange
D	No magnet (Heavy duty boxes not supplied with magnet.)

NOTES

Valve Boxes

Slip-type design protects the service from downward pressure. The box absorbs the pressure from above. If all the downward adjustment is used and additional pressure causes the box to collapse further, the bell area will collapse before damaging the service. This is a SAFE installation.

- » A full throat and unobstructed upper tube, allows more room to operate the key
- » A permanent magnet is in every upper tube
- » A metal reflector is included in every plastic lid for easy location with electronic locators
- » Easily adjusts to grade level—no need to dig when grade changes; just step-on to push down or pry it up
- » Made from superior grade ABS plastic that's long lasting and won't rust, rot or corrode



Code	Description
Step 1: Lid Lettering	
G	Gas
S	Sewer
W	Water
Step 2: Box Size	
6	6"
Step 3: Lid Material	
V	Valve box
H	Heavy duty box
Step 4: Arch	
A	Yes
N	No
Step 5: Lower Tube Design	
X	12" Straight Bell
Step 6: Adjustable Range	
Measured from top of the box to the bottom of the box. Make your selection from the group that matches your box type for Step 3.	
Valve Boxes	
2	26" – 31"
3	32" – 44-1/2"
4	41" – 57-1/2"
5	54" – 78 5/8"
Heavy Duty Boxes	
2	28" – 33"
3	34" – 46-1/2"
4	43" – 59-1/2"
5	56" – 80-5/8"

Valve Boxes (continued)

Code	Description
Step 7: Lid Type	
Standard	Locking Lid
N	Non-Locking
Step 8: Support System Modification	
If you are using a support with your valve box, one of the codes below is required:	
17	4" Full-Port Kerotest Polyball Valve - (BPA)
17	4" Full-Port Lyall-Polytec Ball Valve - (BPA)
17	4" Full-Port Nordstrom Poly Ball Valve - (BPA)
17	6" Reduced-Port Kerotest Polyball Valve - (BPA)
17	6" Reduced-Port Nordstrom Poly Ball Valve - (BPA)
17	6" Standard-Port Lyall-Polytec Ball Valve - (BPA)
27	4 x 3" Full-Port Perfection Ball Valve - (BPA)
27	4 x 4" Full-Port Perfection Ball Valve - (BPA)
27	4 x 6" Reduced-Port Perfection Ball Valve - (BPA)
31	6", 8" Frialen-Friatec Poly Ball Valves - (BPA)
40	6" Full-Port Kerotest Polyball Valve - (BPA)
40	6" Full-Port Lyall-Polytec Ball Valve - (BPA)
40	6" Full-Port Nordstrom Poly Ball Valve - (BPA)
40	8" Reduced-Port Kerotest Polyball Valve - (BPA)
40	8" Reduced-Port Nordstrom Poly Ball Valve - (BPA)
40	8" Standard-Port Lyall-Polytec Ball Valve - (BPA)
Step 9: Lid Color	
If you are using a support with your valve box, one of the codes below is required:	
No code (Standard)	Silver
A	Yellow
B	Blue
J	Black
Step 10: Vent Hole	
C	One 3/8" vent hole
Step 11: Magnet	
No code (Standard)	One magnet located in the flange
D	No magnet (Heavy duty boxes are not supplied with a magnet.)

NOTES



Valve Supports

Designed to keep the underground valve accessible through the Handley box by:

1. Keeping the box on the valve and helping to hold the box upright during backfill.
2. Preventing the valve from losing its alignment due to frost heaving or ground settlement.
3. Preventing the valve from turning or sliding.

To Order your Handley Valve Supports, specify the application and the support model number. Call for part numbers and additional product information. The following tables highlight the information you need to place your order.



Model Number	Applications
VC1	1/2", 3/4", 1", 1-1/4" Handley Plastic Ball Valves
VC3	1/2", 3/4", 1", 1-1/4" Nordstrom Poly Plug & Stab Valves
VC18	1/2", 3/4", 1", 1-1/4" Kerotest Plug - Fusion & Stab Valves
VC18	1/2", 3/4", 1", 1-1/4" Perfection Plug Valves
VC22	1/2", 3/4", 1", 1-1/4" Kerotest Polyball Valves (1-1/4" Reduced-Port)
VC22	1/2", 3/4", 1", 1-1/4" Lyall-Polytec Ball Valves
VC22	1/2", 3/4", 1", 1-1/4" Nordstrom Poly II Ball Valves
VC38	1/2", 3/4", 1", 1-1/4" Lyall Poly Ball Valves (new) - (see VC14)
VC4	3/4" Dresser Coated Valve
VC14	3/4", 1" Lyall Poly Ball Valves (old) - (see VC38)
VC15	3/4", 1" Dresser Steel Valves w/FPT
VC2	1" Dresser GTO-Coated & Uncoated Valve
VC2	1" CTS Kerotest Plastic Plug Valve
VC16	1" IPS Kerotest Plastic Plug Valve
VC21	1" CTS Mueller Brass Compression Valve
VC7	1-1/4" Dresser GTO-Coated & Uncoated Valve
VC10	1-1/4" Lyall Poly Ball Valve
VC16	1-1/4" Kerotest Plastic Plug Valve
VC41	1-1/4", 1-1/2" Full-Port Kerotest Polyball Valves
VC41	1-1/2" Full-Port Lyall-Polytec Ball Valve
VC9	2" Lyall Poly Ball Valve (old) - (see VV37)
VV37	2" Lyall Poly Ball Valve (new) - (see VC9)
VC41	2" Reduced-Port Kerotest Polyball Valve
VC41	2" Standard-Port Lyall-Polytec Ball Valve
50	Snap-On Bell for a Variety of Water Valves
51	Snap-On Bell for Nordstrom Plug Valves
52	Water and Sewer Arch for the 1-1/4" Cepex Valve and Other Larger Curb Valves
53	Minneapolis Base for 2" Threads
54	Minneapolis Base for 1-1/2" Threads
VV5	2" Full-Port Kerotest Polyball Valve

Valve Supports (continued)

Mfr. Model #	Applications
VV5	2" Full-Port Lyall-Polytec Ball Valve
VV5	2" Full-Port Nordstrom Poly Ball Valve
VV11	2" Dresser GTO-Coated & Uncoated Valve
VV19	2" Kerotest Poly Plug Valve
VV24	2" Reduced-Port Nordstrom Poly II Ball Valve
VV25	2" Perfection Plug Valve (old) - (see VV33)
VV26	2" Handley Plastic Ball Valve
VV29	2" Frialen-Friatec Poly Ball Valve
VV33	2" Perfection Modified Poly Ball Valve (new) - (see VV25)
VV42	2" Balon Steel Valve
VV8	2", 3" Kerotest Poly Butterfly Valves
VV5	3" Reduced-Port Kerotest Polyball Valve
VV5	3" Reduced-Port Nordstrom Poly Ball Valve
VV5	3" Standard-Port Lyall-Polytec Ball Valve
VV6	3" Full-Port Kerotest Polyball Valve
VV6	3" Full-Port Lyall-Polytec Ball Valve
VV6	3" Full-Port Nordstrom Poly Ball Valve
VV28	3" Kerotest Poly Plug Valve
VV30	3", 4" Frialen-Friatec Poly Ball Valves
VV6	4" Reduced-Port Kerotest Polyball Valve
VV6	4" Reduced-Port Nordstrom Poly Ball Valve
VV6	4" Standard-Port Lyall-Polytec Ball Valve
VV17	4" Full-Port Kerotest Polyball Valve - (BPA)
VV17	4" Full-Port Lyall-Polytec Ball Valve - (BPA)
VV17	4" Full-Port Nordstrom Poly Ball Valve - (BPA)
VV20	4" Kerotest Poly Plug Valve
VV27	4" x 3" Full-Port Perfection Ball Valve - (BPA)
VV27	4" x 4" Full-Port Perfection Ball Valve - (BPA)
VV27	4" x 6" Reduced-Port Perfection Ball Valve - (BPA)
VV17	6" Reduced-Port Kerotest Polyball Valve - (BPA)
VV17	6" Reduced-Port Nordstrom Poly Ball Valve - (BPA)
VV17	6" Standard-Port Lyall-Polytec Ball Valve - (BPA)
VV40	6" Full-Port Kerotest Polyball Valve - (BPA)
VV40	6" Full-Port Lyall-Polytec Ball Valve - (BPA)
VV40	6" Full-Port Nordstrom Poly Ball Valve - (BPA)
VV31	6", 8" Frialen-Friatec Poly Ball Valves - (BPA)
VV40	8" Reduced-Port Kerotest Polyball Valve - (BPA)
VV40	8" Reduced-Port Nordstrom Poly Ball Valve - (BPA)
VV40	8" Standard-Port Lyall-Polytec Ball Valve - (BPA)

P5T 5-1/4" Valve Boxes

» A.B.S. top and bottom sections, screw or slide design



Bingham & Taylor

Mfr. Model #	Material	Length	Type	Style	BSE Part #
P5TL55BGW	White ABS plastic	16"	Top section	Screw	2653901
P5TL56SG	White ABS plastic	26"	Top section	Slide	1672641

P445 4" Valve Boxes



Bingham & Taylor

Mfr. Model #	Description	Bell	Size	BSE Part #
P4B445DT18T5TPSN	Test lid with 5 terminal board, 2-1 pattern with 4/3 pick hole at top	-	18"	2786555
P4B445RPVG2424104	White ABS plastic	104	24"	2794147
P4453RPV-104-2	Extension range of 32 - 46 in	104	-	1593774

12" Cast Iron Valve Boxes



Bingham & Taylor



Mfr. Model #	Material	Support Range	BSE Part #
I8B201G	Cast iron	24 - 37"	2745641

5-1/4" Valve Boxes with Extension

- » A.B.S. top and bottom sections, various bell designs, available extension sections
- » Cast iron lid permanently bonded to plastic top tube
- » P5E65EW has 24" length
- » P5B5663S104GWS4 includes lid, top, bottom and valve support



Bingham & Taylor

Mfr. Model #	Type	Style	For Use With	Bell	BSE Part #
P5B5663S104GWS2	Slide gas lid	-	2" valves	104	2653896
P5B5663S104GWS4	Slide gas lid	-	4" valves	104	2653897
P5B5663S105G	Slide gas lid	-	6" valves	105	2653898
P5B5663S107GW	Slide gas lid	-	8" - 12" valves	107	2445640
P5B63S107W	Bottom section	Slide	-	107	2653899
P5E65EW	Extension	Slide	-	-	2653900

Valve ACCESSORIES

18" Valve Box Extensions



Mfr. Model #	Description	BSE Part #
XTG4AL	Extension for 4" valve box	1672552
XTG6AL	Extension for 6" valve box	1593457

Curb Box Extension



Mfr. Model #	Description	BSE Part #
XTG2A	Extension for 2" curb box	1674832

Series 500 Plastic Valve Boxes

5-1/4" Valve box. 34" - 54" bury depth. Slip-type with 108 bell. PE box with cast iron lid marked GAS.



Bingham & Taylor

Mfr. Model #	Size	Bell	BSE Part #
P5663-S-105DIL	5-1/4"	105	1477127
P5663-S-108DIL	5-1/4"	108	1477285

Barrel Locks and Keys

Special order for gas utility use only.



Mfr. Model #	Description	BSE Part #
93180100-WS	#4 lock with weather seal	1671791
93480130	#4 key regular	2456551
93480132	#4 Lock key modified. For barrel lock	1671899
93180125	#6 lock	2699588
93180124	#6 lock with end cap	3140699
93180124-WS	#6 lock with weather seal	3140700
93480136	#6 key advanced	1672857

Adjustable Valve Key

- » Made from heavy gauge steel mechanical tubing, with other features of strength such as solid steel machined curb key ends
- » T-handles can include different tools on their ends for turning curb stops, and other clip-on tool options can turn small valve wheels, curb box rods, pentagon bolts and Buffalo box lids
- » Under 4' long when telescoped down, Reed keys fit well in today's smaller utility trucks, behind pickup seats, or in car trunks.
- » Telescoping out allows lengths of approximately 5' and 7'



Mfr. Model #	Length	Weight	BSE Part #
02340SP	45-1/2"	14.4 lbs	1595429



NPT Lock Plug

- » Case hardened steel and corrosion-resistant plating


HIGHFIELD

Mfr. Model #	Size	BSE Part #
93280201	3/4"	1672021

Locking Device for Dynamic Balance Straightway Valve

- » Complete assembly consisting of yoke; cover and retainer ring
- » Fits: 4" Class 900-2500; 6 and 8" Class 150-600 valves


FLOWERVE

Mfr. Model #	BSE Part #
482822	1594455

Valve Locking Device

For valves with screwed type gland without stop collars.

- » 200 400 and 500 CWP valves
- » Complete assembly consisting of hood, yoke, capscrew and washer


FLOWERVE

Mfr. Model #	For Valve Type	Description	Size	BSE Part #
20674	Screwed type gland valves	Complete assembly for valves with screwed gland without stop collars	-	1595217
2752670	Super Nordstrom two bolt cover valves	Two-bolt cover valves, 200 CWP. Hood and chain assembly	3/4"	1476922
2752671	Super Nordstrom two bolt cover valves	Two-bolt cover valves, 200 CWP. Hood and chain assembly	1-1/4", 2"	1477243
2752672	Super Nordstrom two bolt cover valves	Two-bolt cover valves, 200 CWP. Hood and chain assembly	3"	1477051
2752673	Super Nordstrom two bolt cover valves	Two-bolt cover valves, 200 CWP. Hood and chain assembly	4"	1476919
58093	Nordstrom Bolted gland type steel valves	Locking device for bolted gland valves. Complete assembly: hood, locking clip, dart and chain	-	1477197

Locking Device for Super Nordstrom Plug Valve

- » ANSI Class 150-600
- » Complete assembly: hood, yoke and retainer ring


FLOWERVE

Mfr. Model #	Description	Pipe Size	Pipe Size [Min]	Pipe Size [Max]	BSE Part #
2765192	-	-	1/2"	1"	1595080
498005	-	-	1/2"	1"	1476900
498006	-	-	1-1/4"	1-1/2"	1557437
498007	Fits: 2 and 2-1/2" ANSI Class 150-300.	-	2"	2-1/2"	1477318
498009	ANSI Class 150-300	4"	-	-	1477213

Square Adapter

For Nordstrom iron plug valves.

- » All adapters have 2" square wrench flat so that all valves fitted with adapters may be operated with a single lever or socket wrench having 2" square opening
- » Also works for iron plug valves with obround wrench heads


FLOWERVE

Mfr. Model #	Size	BSE Part #
12180	0.81"	1595393
12182	0.94"	1699052
12183	1"	1595392
12184	1.12"	1595391
12185	1-1/4"	1595390
12186	1.38"	1477085
1277	1-3/4"	1595372

Square Adapter

- » 2" square adapter for Nordstrom Iron Plug Valves without stop collars

- » All adapters have 2" square wrench flat so that all valves fitted with adapters may be operated with a single lever or socket wrench having 2" square opening.


FLOWERVE

Mfr. Model #	Size	BSE Part #
3714	7/8"	1979849
2755338	1"	1595086
3717	1.12"	1594506
3718	1-1/4"	1594521
3719	1.38"	1594504

Wrenches



Mfr. Model #	Length	Type	Stem Opening	Description	BSE Part #
2756546	15"	SN4	1.82"	For valves with square or obround stems	1595085
3001196	25"	SN3	1.82"	For valves with square or obround stems	1594531
15105	7"	E-9	1.23"	For valves with square heads	1595302
8889	27"	P-2	1.84"	For valves with square heads	1594105
8148	36"	T-2	2.09"	For valves with square heads	1594146

TITAN Surgrip Valve Wheel Wrench

Significantly reduce the chance of injury due to slippage when opening and closing valves. This durable, ductile iron wrench is safer and easier to use because the head design provides a better grip and allows the operator to rest the wrench on top of the wheel when opening stubborn valves.



GEARENCH.

Mfr. Model #	Length	Type	Weight	BSE Part #
VW2SG	27"	Single-end	5 lbs	1685986

Square Wrench Socket

Used in high head extensions for wrench operated valves



Mfr. Model #	Nut Size	BSE Part #
37315	2"	1477353

Square Operating Head

Flowserve® Nordstrom valves are made in a variety of patterns that assure maximum economy and efficiency for the full range of valve services.

- » Suitable for air conditioning and heating services, oil and gas applications, water treatment installations--wherever a rugged, dependable quarter-turn plug valve is needed
- » Valve seat never exposed
- » Drop-tight seating
- » Instant seat replacement
- » No part vibration when throttling
- » Positive quarter-turn operation



Mfr. Model #	Length	BSE Part #
37317	55 mm	1594502

GRE Paving Risers



Bingham & Taylor

Mfr. Model #	Size	BSE Part #
GRE5A1	1"	2653880
GRE5A1.5	1-1/2"	2653881

Repair and Test Lids

Variety of lids for gas applications.

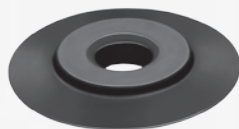


Bingham & Taylor

Mfr. Model #	Description	Includes	BSE Part #
I2LBGFVB	Flush gas with two 1/2" vent holes	Brass bolt	2653884
I2LBGFVB	Flush gas with one 1/2" vent hole	Brass bolt	2653885
I2LBGREP200FV	Flush repair lid with 5/16" vent hole, use with P200 curb box	Brass bolt	2714809
I2LBGREPNNSK1V	Gas repair lid with 1 vent hole	-	2653886
I2LTNFGT2T	Test lid with 2 terminal test board	-	2778573
I3LBGREP2V	3" gas lid, 2 vent holes, with skirt and corten bolt	Corten bolt	2653887
I3LBGRNOSK	3" gas lid, 2 vent holes, with corten bolt	Corten bolt	2653888
I5LTT5T	Test lid with 5 terminal board	-	2653890

Natural Gas
catalog

TOOLS



In this section

Wrenches	140
Vises	141
Cutters, reamers and extractors	141
Additional tools	144

WRENCHES

Heavy-Duty Pipe Wrenches

Sturdy, cast-iron housing and I-beam handle with full floating forged hook jaw, featuring self-cleaning threads with replaceable hook and heel jaws.

- » Heavy-duty pipe wrenches comply with federal specifications GGG-N65IE, Type II, Class A

RIDGID



Mfr. Model #	Model	Trade Size	Pipe Capacity	Weight	BSE Part #
31000	6	6"	3/4"	1/2 lb	2236490
31005	8	8"	1"	3/4 lb	1935081
31010	10	10"	1-1/2"	1-3/4 lbs	1935106
31020	14	14"	2"	3-1/2 lbs	1935115
31025	18	18"	2-1/2"	5-3/4 lbs	1935090
31030	24	24"	3"	9-3/4 lbs	1935095

Aluminum Pipe Wrenches

Professional strength in lightweight aluminum.

- » Offers the same durability and ease-of-use found in all RIDGID heavy-duty wrenches

RIDGID



Mfr. Model #	Model	Trade Size	Pipe Capacity	Weight	BSE Part #
31090	810	10"	1-1/2"	1 lb	2236491
31095	814	14"	2"	2-1/2 lbs	1935070
31100	818	18"	2-1/2"	3-3/4 lbs	1935114
31105	824	24"	3"	6 lbs	1935080

Aluminum Offset Pipe Wrench

Features a jaw opening parallel to the handle and a narrower hook jaw head.

- » Provides easy entry into tight spots

RIDGID



Mfr. Model #	Model	Trade Size	Pipe Capacity	Weight	BSE Part #
31120	14	14"	2"	2 lbs	2236492
31125	18	18"	2-1/2"	3-1/2 lbs	1935121
31130	24	24"	3"	6 lbs	2236493

Aluminum RapidGrip Pipe Wrench

Quick one-handed operation makes your jobs move faster.

- » The spring-loaded jaw design provides rapid ratcheting action
- » 35% lighter than heavy-duty models
- » Ideal for overhead applications

RIDGID



Mfr. Model #	Model	Trade Size	Fitting Size	Pipe Capacity	Weight	BSE Part #
12693	14	14"	1-1/2"	2"	2.1 lbs	2236457

Chain Wrenches

A double fast jaw gives fast, ratchet-like action in either direction.

- » The heavy-duty model has replaceable alloy steel jaws
- » The light-duty model has a one-piece forged alloy steel handle and jaw, ideal for use in close quarters

RIDGID



Mfr. Model #	Model	Description	O.D. Capacity	Pipe Capacity	Weight	BSE Part #
31310	C-10	Light-duty 15-3/4" chain	4"	2"	1-3/4 lbs	2236495
31315	C-14	Heavy-duty 20-1/4" chain	5"	2"	2-3/4 lbs	2236496

Strap Wrenches

Best for polished pipe.

- » Polyurethane-coated strap
- » Strong, woven nylon strap gives tight grip
- » Two models available for plastic pipe

RIDGID



Mfr. Model #	Model	Description	Weight	Pipe Capacity	Strap Size (L x W)	BSE Part #
31335	1	Wrench with strap	1-1/4 lbs	3-1/2"	17 x 1-1/2"	2236497
31355	2-P	Wrench with strap for plastic	1-3/4 lbs	3-1/2"	17 x 1-1/16"	2236498
31360	5	Wrench with strap	2 lbs	7"	29-1/4 x 1-3/4"	2236499
31370	5-P	Wrench with strap for plastic	2.13 lbs	5-1/2"	29-1/4 x 1-3/4"	2236500
32015	-	Replacement strap	-	-	17 x 1-1/8"	2236505
32050	-	Replacement strap	-	-	29-1/4 x 1-3/4"	2236568

Straight Hex Wrench

Hex jaw design gives multi-sided, secure grip on all hex nuts, square nuts, unions and valve packing nuts.

- » Thin, smooth jaws slip into the tightest places

RIDGID



Mfr. Model #	Model	Trade Size	Pipe Capacity	Weight	BSE Part #
31280	25	9-1/2"	1-1/8 - 2-5/8"	4-1/2 lbs	2236494



Spud Wrench

12" spud wrench features narrow jaws to fit into tight places.

- » Smooth, toothless jaws ideal for square or rectangular stock



RIDGID

Mfr. Model #	Trade Size	Pipe Capacity	Weight	BSE Part #
31400	12"	3/8 – 2-5/8"	2-1/2 lbs	1935088

Adjustable Wrenches

High grade chrome-vanadium alloy steel.

- » Cobalt-plated finish to reduce rust and corrosion
- » Forged and heat-treated for durability
- » Jaw scales in SAE and metric for quick adjustment
- » Wide-mouth adjustable wrenches provide extended tapered jaws and a compact handle for hard to reach areas



RIDGID

Mfr. Model #	Model	Description	Trade Size	Pipe Capacity	Weight	BSE Part #
86902	756	6" adjustable	6"	3/4"	1/4 lb	2236527
86907	758	8" adjustable	8"	7/8"	1/2 lb	2236528
86912	760	10" adjustable	10"	1-1/8"	3/4 lb	2236529
86917	762	12" adjustable	12"	1-5/16"	1.13 lbs	2236530
86922	765	15" adjustable	15"	1-1/16"	1.31 lbs	2236531
86927	768	18" adjustable	18"	2-1/8"	2.13 lbs	2236532
86932	774	24" adjustable	24"	2-7/16"	2.44 lbs	2236533
16513	–	10" wide-mouth adjustable	10"	1-5/16"	1-1/2 lbs	2236469

Basin Wrench

Spring-loaded jaws of forged alloy steel provide fast, one-hand ratcheting.

- » Telescopic shanks quickly adjust for lengths from 10 – 17"
- » Tension plug holds head in any position up to 90° angle



RIDGID

Mfr. Model #	Model	Description	Trade Size	Pipe Capacity	Weight	BSE Part #
31175	1017	Telescoping	27"	3/8 – 1-1/4"	2 lbs	1945097

One Stop Wrench

The One Stop wrench is two wrenches in one.

- » It provides the exact size wrench you need to install angle stops and compression couplings



RIDGID

Mfr. Model #	Model	Weight	BSE Part #
97452	2002	0.73 lb	1945094

VICES

Bench Chain Vises

Crank handle is anchored to base.

- » Rugged cast-iron base has handy pipe rest and bender



RIDGID

Mfr. Model #	Model	Description	Pipe Capacity	Weight	BSE Part #
40985	BC-210	Top screw bench chain vice	1/8 – 2-1/2"	25-3/4 lbs	1953059

Cutters, reamers and EXTRACTORS

Heavy-Duty Pipe Cutters

Fast, clean pipe cutting by hand or power.

- » Extra-long shank protects adjustment threads, while an extra-large handle is provided for quick, easy adjustment
- » Can be converted to 3-wheel cutter by replacing rollers with cutter wheel



RIDGID

Mfr. Model #	Model	Pipe Capacity	Weight	BSE Part #
32820	2-A	1/8 – 2"	7 lbs	1945123
32840	4-S	2 – 4"	18 lbs	2236506
32850	6-S	4 – 6"	22 lbs	851510

4-Wheel Pipe Cutter

Designed for work in areas where a complete turn is impossible.

- » Equipped with four heavy-duty wheels
- » Short handle for use in areas where only a 130° turn can be made



RIDGID

Mfr. Model #	Model	Pipe Capacity	Weight	BSE Part #
32870	42-A	3/4 – 2"	6-3/4 lbs	2236507

Hinged Pipe Cutters

Designed for rapid cutting of 2 – 6" steel pipe.

- » Models operate with minimal cutter rotation as necessary for tight quarters



RIDGID

Mfr. Model #	Model	Pipe Capacity	Weight	BSE Part #
73162	424-S	2 – 4"	13-1/2 lbs	2237027
83080	466-S	4 – 6"	28-1/2 lbs	2237028

PC-1375 Plastic Pipe and Tubing Cutters

X-CEL blade for fast single stroke cutting, no ratcheting or twisting required.

- » Ergonomic grips on bottom handle are spaced at 1/2" increments to act as a quick pipe measuring scale
- » Spring-loaded handles provide instant adjustment to any pipe size
- » Durable aluminum construction for heavy-duty use
- » Burrless cutting operation provides a square cut
- » Easy turn-thumb latch for reliable storage
- » Extra large 1.375" O.D. capacity
- » Replaceable, hardened steel cutting blade



RIDGID

Mfr. Model #	Model	Capacity	Weight	BSE Part #
23493	PC-1375	1/8 – 3/8"	0.7 lb	2236487

Plastic Pipe Cutters

Easy-to-use tools that can cut most grades of plastic and rubber pipe and tubing, including Schedule 40 PVC.

- » Spring loaded handles provide instant adjustment to proper pipe size
- » Do not use to cut plastic-coated metallic tubing or pipe
- » Replaceable stainless steel cutting blade folds into handle for safe handling and carrying
- » Small profile makes it ideal for limited working spaces and carrying in back pocket or tool pouch
- » Burr-less cutting operation provides a square cut



RIDGID

Mfr. Model #	Model	Description	Standard Wheel	O.D. Capacity	Weight	BSE Part #
91125	138	Plastic pipe cutter	92170	1/8 – 1-1/2"	1-1/4 lbs	1934772
12831	1493	Plastic pipe cutter	22086	1/8 – 2-3/8"	2-1/2 lbs	2236458
92170	-	Replacement cutting blade for model 138	-	-	-	1934742
22086	-	Replacement cutting blade for model 1493	-	-	-	1674823

Pipe Reamers

- » 2-S spiral ratchet reamer – self-feeding spiral design for extra-fast and easy hand reaming, model 2-S reamer is not suitable for power drive reaming
- » 2 and 3 ratchet reamers – Long taper design will not dig in, suitable for use with power drives



RIDGID

Mfr. Model #	Model	Description	Capacity	Weight	BSE Part #
34955	2-S	Spiral reamer	1/4 – 2"	7-1/4 lbs	2236516
34945	2	Straight reamer	1/8 – 2"	7 lbs	2072188
34950	3	Straight reamer	3/8 – 3"	11-1/2 lbs	1945119

Pipe Extractors

Make easy work of removing broken threaded ends of pipe, pipe plugs and fittings.

- » Each is plainly marked showing drill size used when solid ends of plugs and fittings must be drilled to receive extractor



RIDGID

Mfr. Model #	Model	Pipe Size	Length	Use With	Weight	BSE Part #
35625	86	1-1/4"	3-3/4"	1-3/8" drill	20 lbs	2235814



Close Quarters Tubing Cutters

Specifically designed for use in restricted spaces on small diameter, hard and soft copper, aluminum, brass and plastic tubing; rollers include grooves for close-to-flare cuts.

- » Strong, lightweight slide and wheel housing, large knurled feed screw knob gives easy control of cutting pressure for clean cuts
- » Model 86127 include a self-feeding cutter wheel that automatically cuts after tightening the knob only once



RIDGID

Mfr. Model #	Model	Description	Capacity	Standard Wheel	Weight	BSE Part #
40617	101	Close quarters cutter with spare cutter wheel in knob	1/4 – 1-1/8"	E-3469	1/4 lb	1945152
32985	104	Close quarters cutter	3/16 – 5/16"	E-3469	1/4 lb	1935074
86127	118	Close quarters cutter with spare cutter wheel in knob	1/4 – 1-1/8"	E-3469	1/4 lb	2236526

Quick-Acting Tubing Cutters with New X-CEL Features

All models now include an X-CEL knob and X-CEL pin for quicker cutting and wheel replacement.

- » These cutters are available in models for plastic pipe or metallic tubing
- » Plastic models include spare cutting wheels for cutting copper



RIDGID

Mfr. Model #	Model	Description	Capacity	Standard Wheel	Weight	BSE Part #
31632	151	Quick-acting cutter with fold-away reamers	1/4 – 1 5/8"	E-3469	0.88 lb	1935092
31637	151-P	Same as above with wheel for plastic	1/8 – 1-1/4"	E-2155	0.88 lb	2236501
31642	152	Quick-acting cutter with fold-away reamers	1/4 – 2 5/8"	E-3469	1.88 lbs	1935118
31647	152-P	Same as above with wheel for plastic	1/4 – 2"	E-2155	1.88 lbs	2236502
36592	153-P	Same as above with wheel for plastic	1 – 3"	E-2155	2 lbs	2236517
31652	154	Quick-acting cutter	1-7/8 – 4-1/2"	E-2558	3 lbs	1945144
31657	154-P	Same as above with wheel for plastic	1-1/2 – 4"	E-2156	3 lbs	2236503
31662	156	Quick-acting cutter	4 – 6 5/8"	E-2558	4.13 lbs	2236504

Constant Swing Cutters with New X-CEL Features

Telescoping feed screw design keeps the cutter at the same length regardless of tubing diameter—good for tight spaces.

- » Cuts copper, brass aluminum tubing and thin-wall conduit
- » Features an enclosed feed screw to eliminate clogging and jamming, grooved rollers for close-to-flare cuts and a fold-away reamer
- » Made from high-strength zinc alloy
- » Now includes X-CEL knob and X-CEL pin for quicker cutting and wheel replacement
- » Spare cutter wheel included in the knob



RIDGID

Mfr. Model #	Model	Cut Type	Capacity	Standard Wheel	Weight	BSE Part #
31622	150	Feed cutter	1/8 – 1-1/8"	E-3469	0.88 lb	1935067

Pipe Cutter Replacement Wheels

Wheels are precision-machined from high-grade steel and are engineered for long life and maximum cutting accuracy.

- » Match model number with standard wheels for cutters



RIDGID

Mfr. Model #	Model	Description	BSE Part #
33135	E-1962	Grey cast iron	2236509
33105	F-3	Steel and ductile iron	1935096
33110	F-35	Stainless steel pipe	1945122
33125	F-229	Steel and ductile iron	1935100
33130	F-229F	Stainless steel pipe	2236508
33145	F-367	Steel and ductile iron	2236510
33150	F-367S	Stainless steel pipe	2236511
33100	F-514	Steel and ductile iron	1945141
33120	F-515	Steel and ductile iron	1945143

Tubing and Conduit Cutters

Clean, square cuts are easily made on copper, brass, aluminum and thin-wall conduit.

- » Now includes X-CEL knob for quicker cutting
- » Model 30 is rated for larger diameter steel and stainless steel tubing
- » Models 10 and 20 feature a convenient fold-away reamer
- » Spare cutter wheels included for maximum uptime
- » Screw feed cutter



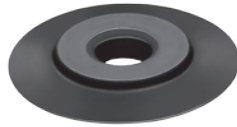
RIDGID

Mfr. Model #	Model	Capacity	Standard Wheel	Weight	BSE Part #
32910	10	1/8 – 1"	F-158	0.88 lb	2086182
32920	15	3/16 – 1-1/8"	F-158	1-1/4 lbs	1935117
32930	20	5/8 – 2-1/8"	F-158	1-3/4 lbs	1945126
32940	30	1 – 3-1/8"	E-2558	3-1/2 lbs	1945127

Tubing Cutter Replacement Wheels

Wheels are precision-machined from high-grade steel and are engineered for long life and maximum cutting accuracy.

- » Match model number with standard wheels for cutters



RIDGID

Mfr. Model #	Model	Description	BSE Part #
33165	E-1240	Steel - SS	1935101
33200	E-1740	Soft flexible pipe	2236513
74720	E-2155	PE, PB, PP, Std. and heavy wall	2236525
74730	E-2156	PE, PB, PP, Std. and heavy wall	1935119
33175	E-2191	Steel tubing	1935087
33170	E-2558	Aluminum and copper	1945133
33205	E-2990	Steel, aluminum and copper	2236514
33185	E-3469	Aluminum and copper	1935107
33190	E-4546	Steel - SS	1935071
33195	E-5272	Aluminum	2236512
33180	E-5299	PVC, ABS, Std. wall	1952590
33160	F-158	Aluminum and copper	1935093

Additional TOOLS

Deburring Tools

Deburring tools for plastic pipe and tubing.

- » Ideal for removing outside ridges and inside burrs on plastic pipe and tubing
- » Made of high-grade steel with specially-designed, long-lasting cutting edges
- » Slip-resistant vinyl hand grip



RIDGID

Mfr. Model #	Model	Pipe Capacity	BSE Part #
64962	73	1-1/2" - 3"	2236523
64967	74	4"	2236524

Bolt Cutters

Hardened alloy steel jaws are designed and manufactured to assure the longest possible blade life.

- » Handles and grips designed to allow greater mechanical advantage for crisp, controlled cutting
- » One-step internal cam mechanism provides the quickest and simplest way to keep the cutting blades precisely aligned



RIDGID

Mfr. Model #	Model	Length	Cutting Capacity	BSE Part #
14213	S-14	15"	Up to 5/16" (soft), 1/4" (medium) and 3/16" (hard)	2236459
14223	S-24	26"	Up to 7/16" (soft), 3/8" (medium) and 5/16" (hard)	2236460

Snips

Snips feature forged, heat-treated blades for increased quality and performance.

- » Aviation snips threaded jaw bolt allows the blades to be realigned after prolonged use
- » Compound action results in maximum jaw power with minimum effort
- » Ideal for cutting 18-gauge or lighter cold-rolled sheet steel



RIDGID

Mfr. Model #	Model	Type	Length	Capacity	Weight	BSE Part #
54125	788	Snip - straight cut	10-1/2"	1-1/2"	1 lb	2236520
16202	796	Offset snip - cuts right	10-1/2"	1-1/2"	1 lb	2236461
16207	797	Offset snip - cuts left	10-1/2"	1-1/2"	1 lb	2236462

Pliers

Professional quality tools, precision crafted for ultimate balance, high strength and exacting performance.

- » Cushioned grips are designed for comfort only, they are NOT intended as insulation against electric shock
- » Forged and heat-treated for extended life and durability
- » Slip joint and tongue and groove pliers feature a flush rivet design which provides a stronger tool and allows access to tighter areas



RIDGID

Mfr. Model #	Model	Description	Trade Size	Weight	BSE Part #
16493	763	Linesman pliers	9"	3/4 lb	2236468
16458	767	Slip-joint pliers	8"	1/2 lb	2236463
16483	761	Wide-jaw pliers	7"	1/2 lb	2236466
16488	766	Long-nose pliers	8"	1/2 lb	2236467
62347	707	Tongue-and-groove pliers	7-1/2"	3/4 lb	2236521
62352	709	Tongue-and-groove pliers, 1-3/16" capacity	9-1/2"	1 lb	2236522
16468	710	Wide-mouth tongue-and-groove pliers, 2-1/4" capacity	10-1/2"	1 lb	2236464

Multi-Purpose 6-in-1 Screwdriver

Contoured cushioned grip for increased grip and torque.

- » Ball and spring retention shaft with positive snap-fit locking handle
- » Includes: #1 and #2 Phillips tip, 3/16" and 1/4" flat tip and 5/16" and 1/4" nut drivers in the shaft
- » Full RIDGID lifetime warranty



RIDGID

Mfr. Model #	Model	Trade Size	Weight	BSE Part #
16573	1974	8"	1/4 lb	2236470



Tape Measures

Blade locks in place, rewinds automatically, chromium-plated, inside-outside case has button control for tape locking and power rewinding.

- » Tempered steel blade is finished in yellow enamel and coated with Mylar® for lasting protection
- » Reinforced blade prevents breakage at the tip
- » Removable belt clip
- » Self-adjusting inside-outside end hook
- » Stud marks every 16"



RIDGID

Mfr. Model #	Model	Length	Width	Weight	BSE Part #
20213	636	16'	3/4"	10 oz	2236472
20218	671	25'	1"	17.13 oz	2236473
20208	632	100'	1"	14-3/4 oz	2236471

Pro Arc Aluminum Hack Saw

Designed to offer superior strength and maximum control in a lightweight professional hack saw.

- » Blade replacement is a snap with the large tensioning knob and the rubberized hand grips fore and aft ensure a controlled and speedy cut
- » In addition, the Pro Arc provides two positions for mounting the blade (either 45° or 90° cut angles) to handle the job
- » The bow frame casting provides both greater strength and improved work piece access



RIDGID

Mfr. Model #	Model	Description	Weight	BSE Part #
20238	212	45° or 90° cutting angle	0.88 lb	2236474

No. 345 Flaring Tools

Precision designed tool for producing 45° flares in soft copper, brass, aluminum and mild steel tubing.

- » A hardened, smooth cone provides fast, 45° flares either single or double lap
- » A single clamp screw provides for easy clamping and removal of tubing



RIDGID

Mfr. Model #	Model	Description	Size	Weight	BSE Part #
23332	345	45° SAE flares	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"	2-3/4 lbs	2236485
23337	345-DL	45° SAE double flares	Above with adapters for double lap flares; 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" O.D. tubing	3 lbs	2236486

Cutting, Stripping and Crimping Combo Tools

Complete lineup of heavy-duty cutting, stripping and crimping tools for electrical and other applications.

- » Deluxe cushion grips that include clear application markings
- » Black oxide finish to resist rust and corrosion
- » Innovative RIDG-BACK™ technology reduces cutting force up to 50%
- » Serrated pliers nose for working small nuts and pulling wire
- » Steel wire shear and bolt cutting stations for extra versatility
- » Holes included for quick wire looping
- » Return spring action speeds up work



RIDGID

Mfr. Model #	Model	Description	Weight	BSE Part #
21393	83-E	Cutter/stripper: 10 – 18 AWG solid, 12-20 AWG stranded copper	1/2 lb	2236476
21398	84-E	Cutter/stripper: 20 – 30 AWG solid, 22-32 AWG stranded copper	1/2 lb	2236477
21433	90-E	Cutter/stripper: 10-2 Romex NM-B, 10 AWG solid copper	1/2 lb	2236481
21423	81-E	4-in-1 multi-purpose cutter: 5/8" capacity, electrical copper wire and cable and multi-conductor wire	1/2 lb	2236479
21428	89-E	Fiber-optic stripper: 900 μm/250 μm buffer coating, 3 mm fiber jacket	1/2 lb	2236480
21418	80-E	Coax cable tool for RG-6, RG-6 quad, RG-59	1/2 lb	2236478

Shovels

Shovel blades and shanks are one-piece, rust-proofed, 14-gauge steel, taper-formed and then heat treated.

- » Burnished, lacquered ash handles are double-riveted to blade socket
- » Round blades have a slip-resistant, turned step



RIDGID

Mfr. Model #	Model	Description	Handle Length	Weight	BSE Part #
52300	170	8-5/8 x 11-1/2" blade	47"	3.8 lbs	2236518

Hammers

Features high-quality steel heads.

- » Claw hammers feature impact-resistant fiberglass handles with no-slip cushion grip
- » Individual sections are tempered steel for strength, hardness and resiliency
- » Wood handles are select grain burnished hickory



RIDGID

Mfr. Model #	Model	Length	Head Weight	Weight	BSE Part #
52485	216	13-1/4"	16 oz	1-1/2 lbs	2236519

HT50 Hacksaw Frame

Allows a blade to tension up to 50,000 PSI, resulting in fast straight cuts.

- » No tool needed to store up to 5 extra blades
- » Accepts any LENOX reciprocating saw blade
- » Rubberized handles allow for confident handling even in wet or cold environments



LENOX

Mfr. Model #	Blade Length	BSE Part #
HT50-12132	12"	2400943

Professional Grade Fiberglass Shovels

Minimum breaking strength of 261 lbs per DTH6950-1.

- » Shovel and grip ends are larger to provide leverage and control
- » Does not absorb moisture and resists industrial chemicals
- » Ergonomically designed grip, safe from electric shock
- » Made in U.S.A.



Mfr. Model #	Type	Handle Length	BSE Part #
SHR	#2 round type	48"	113497
SHTR4	4" trenching	48"	113523

Reflex™ Super T®-Stripper Wire Strippers

- » Textured sleeves extend to stripping head to cushion thumb and fingers
- » 6-32 and 8-32 self-chasing screw cutting holes.
- » Locking latch keeps stripper in closed position
- » Ergonomic curved handles



Mfr. Model #	Stranded Wire Range	Solid Wire Range	Category	Handle Color	BSE Part #
45-615	10 – 18 AWG	8 – 16 AWG	—	Yellow	800390
45-616	16 – 26 AWG	14 – 24 AWG	Static dissipative grips	Black	800391
45-618	8 – 16 AWG	8 – 14 AWG	—	Red	800393

Cushion-Grip 10-in-1 Screwdriver and Nut Driver

- » Features 5/16" and 1/4" nut drivers, #1 and #2 Phillips screwdrivers, 1/4" and 3/16" slotted screwdrivers, #10 and #15 TORX® screwdrivers and #1 and #2 square-recess screwdrivers
- » Handle end marked to quickly identify tool



KLEIN TOOLS



Mfr. Model #	Description	Category	BSE Part #
32477	10-in-1 screw and nut driver	—	765125
32482	#1 Phillips and 3/16" slotted	Replacement bits	783652
32483	#2 Phillips and 1/4" slotted	Replacement bits	783651
32484	#1 square and #2 square	Replacement bits	783650
32485	#10 TORX® and #15 TORX®	Replacement bits	783649

FatMax™ Tape Rule With Blade Armor™ Coating

Blade Armor™ is a patented industrial thermoplastic coating. It is on the first 6" of the FatMax™ tape rules for maximum durability and reduced blade breakage.

- » Exclusive cushion grip built into the dual material case for a comfortable slip-resistant grip and impact-resistance
- » Top forward blade lock makes it easier to lock and unlock the blade
- » Stainless steel wearplate protects case from being cut by blade
- » Strong spring for smooth retraction



STANLEY

Mfr. Model #	Blade Width	Blade Length	BSE Part #
J33-725	1-1/4"	25'	1083021

Pump Pliers

Secure tongue and groove design for nonslip grip, even with heavy pressure.

- » JOURNEYMAN™: Tension-loaded joint reduces handle wobble; induction-hardened jaws
- » Wide range of versatile jaw positions



KLEIN TOOLS



Mfr. Model #	Length	Handle Finish	Handle Color	BSE Part #
D502-10	10"	Plastic-dipped	Yellow	129242
D502-12	12-1/4"	Plastic-dipped	Yellow	129244
D502-6	6-1/2"	Plastic-dipped	Yellow	129240
J502-10	10-1/4"	Journeyman™	Yellow with black	1312799

Hazardous Location Portable Floodlights

Sanchion mount light for hazardous locations.

- » Articulating, adjustable heads
- » Rugged cast aluminum enclosure
- » NEMA 4X
- » Easy lamp replacement



Woodhead
from **molex**

Mfr. Model #	Lamp Type	Lamp Wattage	Voltage	Cord Length	BSE Part #
S2300-HZX050163	RSC-double ended	300 W	120 V	50'	2643613

Industrial-Duty Fluorescent Hand Lamp

Ideal for task lighting applications.

- » On/off switch in handle
- » Rubber handle, remains cool to the touch



Woodhead
from **molex**

Mfr. Model #	Lumens	Lamp Wattage	Voltage	Lamp Type	Cord Length	BSE Part #
1045	95	4 W	120 V/60 Hz	F4T5	18'	131329

Natural Gas
catalog

SQUEEZE tools



In this section

Squeeze tools **148**

Small Service Squeeze Tool

Provides a quick emergency shut-off of polyethylene pipe until permanent repairs can be made, gap setting for various size lines: 1/2" CTS; 1/2" IPS; 3/4" IPS; 1" CTS; 1" IPS; and 1-1/4" CTS.

- » Both small and mid-range sizes have gap settings for various size pipe and SDR ratings
- » More than adequate pressure is available for any pipe within the model range
- » Units operate mechanically



+GF+

Mfr. Model #	Pipe Size Range	Weight	BSE Part #
28-0004-0000-41	1/2 – 1-1/4 CTS, 1/2 – 1 IPS	2.4 lb	1595070

Mid-Range Service Squeeze Tool

Provides a quick emergency shut-off of polyethylene pipe until permanent repairs can be made, gap settings for various size lines, 1" IPS, 1-1/4" IPS, 1-1/2" IPS and 2" IPS.

- » Both small and mid-range sizes have gap settings for various size pipe and SDR ratings
- » More than adequate pressure is available for any pipe within the model range
- » Units operate mechanically



+GF+

Mfr. Model #	Pipe Size Range	Weight	BSE Part #
28-0108-0210-40	1 – 2 IPS	12.3 lb	1595037

Hydraulic PolySqueeze Tool for Plastic Pipe

Provides a quick emergency shutoff of polyethylene pipelines until permanent repairs can be made.

- » 20' hydraulic hoses allow operation from outside the excavation for added safety or where access is limited
- » Comes with easy-to-use mechanical safety rods designed to prevent tool reopening in the event of hydraulic failure
- » Gap settings for various size lines
- » Special swing latch design for easy usage in smaller and narrower trenches



+GF+

Mfr. Model #	Pipe Size Range	Weight	BSE Part #
28-1004-2000-00	2 – 4"	69 lbs	1594910
28-1006-4010-00	1-1/4 – 6"	70 lbs	1594906
28-1006-2000-00	4 – 6"	75 lbs	1594908
28-1008-3000-00	6 – 8"	145 lbs	1594904
28-1012-3000-00	10 – 12"	245 lbs	2073452

Mechanical PolySqueeze Tool for Plastic Pipe

Provides a quick emergency shut-off of polyethylene pipelines until permanent repairs can be made

- » Gap settings for various pipe and SDR ratings
- » More than adequate pressure is available for any pipe within the model range
- » Special swing latch design for easy use in narrow trenches Connectra offers a convenient carrying case for the Mechanical PolySqueeze tool
- » Specially designed squeeze bar and machined stops protect against pipe damage
- » Unit operates mechanically



+GF+

Mfr. Model #	Pipe Size Range	Weight	Includes	BSE Part #
28-1002-1000-10	1/2 – 2"	7 lb	–	1594917
28-1002-1000-00	1/2 – 2"	7 lb	Socket and case	1594918
28-1004-1000-00	2 – 4"	14 lb	–	1594912

Individual Vise Grip Squeeze Tool

Provides a quick emergency shut-off of polyethylene pipe until permanent repairs can be made.

- » Both small and mid-range sizes have gap settings for various size pipe and SDR ratings
- » More than adequate pressure is available for any pipe within the model range
- » Units operate mechanically



+GF+

Mfr. Model #	Wall Thickness	Weight	BSE Part #
28-0600-5010-30	0.062"	2.6 lb	1594951
28-0600-5020-30	0.077"	2.6 lb	1594950
28-0600-5030-30	0.09 – 0.095"	2.6 lb	1594949
28-0600-5040-30	0.099 – 0.104"	2.6 lb	1594948

Tools and Accessories



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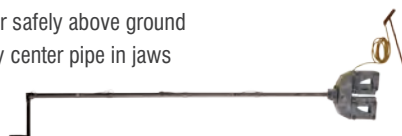
Mfr. Model #	Description	BSE Part #
5750007	Standard punch tool for tapping tees	2653845
5758595	Wide body HVTT test cap with 1/8" NPT male, "new style"	2234917



TR-270 Pipe Squeeze-Off Tool

Designed for top-down access, for PE up to 2".

- » Rotating handle allows operator maximum control
- » Long handle keeps operator safely above ground
- » Engineered to automatically center pipe in jaws



Mfr. Model #	Length	Width	Weight	BSE Part #
TR-270	6-1/2'	10-1/2"	19 lbs	2730367

TC1-S PE Pipe Squeeze-Off Tool

- » Designed for top-down application, eliminating the need for costly under-the-pipe excavation.
- » Effective on pipe sizes: 1/2 – 1" IPS, 1/2 – 1-1/4" CTS
- » Made of aircraft grade aluminum for high strength, corrosion-resistance and durability.
- » Used for routine maintenance as well as emergency squeeze-off



Mfr. Model #	Length	Width	Weight	Sleeve	BSE Part #
TC1-S	15"	5-1/2"	3 lbs	With sleeves	2785911

TC2 PE Pipe Squeeze-Off Tool

Allows one person to squeeze-off PE pipe in one simple operation.

- » Used for routine maintenance as well as emergency squeeze-off
- » Designed for top-down application, eliminating the need for costly under-the-pipe excavation
- » Effective on pipe sizes 1/2 – 2" IPS, 1/2 – 2" CTS and 12-1/2 – 63 mm
- » Made of aircraft grade aluminum for high strength, corrosion-resistance and durability



Mfr. Model #	Length	Sleeve	Weight	BSE Part #
TC2-S	26"	Custom size sleeves	12 lbs	2107803
TC2-SR	26"	Custom sleeve with slow release	12 lbs	2107804

Accessories for TC2-SR

Grounding rod and security pin.



Mfr. Model #	Description	BSE Part #
TCGR	Copper grounding rod	1672579
TCSP	Security locking pin	1672578

Pipe Squeeze-Off Tool for PE from 3 – 6"

Engineered of lightweight aluminum, lets one operator easily and effectively squeeze-off PE pipe.

- » Engineered to automatically center pipe in jaws
- » Long handle keeps operator out of the trench
- » Operates in an 18" (46 cm) diameter "keyhole"
- » Used for routine maintenance, as well as emergency squeeze-off
- » Specify required pipe size and SDR at time of order



Mfr. Model #	Length	Used With	Weight	BSE Part #
TR150	6-1/2'	PE pipe up to 1"	7 lb	2107806
TR250	6-1/2'	PE pipe up to 2"	23 lb	1672576
TR650	6-1/2'	PE pipe for 3 – 6"	60 lb	2107811

TR650 Pipe Squeeze-Off Tool for PE from 3"–6"

Engineered of lightweight aluminum, lets one operator easily and effectively squeeze-off PE pipe.

- » Engineered to automatically center pipe in jaws
- » Long handle keeps operator out of the trench
- » Operates in an 18 inch (46 cm) diameter "keyhole"
- » Used for routine maintenance, as well as emergency squeeze-off



Mfr. Model #	Description	BSE Part #
9TR650SJ	3" Jaws for TR650	3074089

TC1 PE Pipe Squeeze-Off Tool

- » Designed for top-down application, eliminating the need for costly under-the-pipe excavation.
- » Effective on pipe sizes: 1/2 – 1" IPS 1/2 – 1-1/4" CTS
- » Made of aircraft grade aluminum for high strength, corrosion-resistance and durability
- » Used for routine maintenance as well as emergency squeeze-off
- » Specify required pipe size and SDR at time of order



Mfr. Model #	Length	Width	Weight	Sleeve	BSE Part #
TC1-G	15"	5-1/2"	3 lb	Standard size sleeves	1672582
TC1-S	15"	5-1/2"	3 lb	Custom size sleeves	1672581
TC1-SR	15"	5-1/2"	3 lb	Custom sleeve with slow release	1672580
TC1-S	15"	5-1/2"	3 lb	With sleeves	2785911

Extension Handles for TC Squeeze-Off Tools

Extension handles for TC1 and TC2 clamps.



Mfr. Model #	Description	BSE Part #
TC1EX12	12" extension handle for TC1 clamps (pair)	2107807
TC1EX24	24" extension handle for TC1 clamps (pair)	2107808
TC1EX36	36" extension handle for TC1 clamps (pair)	2107809
TC2EX36	36" extension handle for TC2-S clamps (pair)	2107810

Mustang, DBS-20C and DBS-24C Mid-Range Squeeze Tools

Can be used on service pipe up to medium size distribution pipe with ease and safety.

- » A large, heavy-duty frame designed to withstand the greater force needed to squeeze today's PE pipe, while retaining the double-bar jaw design for greater contact area



Mfr. Model #	Height	Weight	Size	BSE Part #
DBS-20C	13 1/2"	15 lb	Accommodates pipe sizes from 1/2" CTS to 2" IPS maximum	3025383
DBS-24C	14 3/4"	19 lb	Accommodates pipe sizes from 1/2" CTS to 2" IPS maximum with PSCO SDR stops	3025387
DBS-24C	14 3/4"	19 lb	Accommodates pipe sizes from 1/2" CTS to 2" IPS maximum with NSP SDR stops	3025386

Mustang, Huskie PS-62B Emergency Steel Pipe Squeeze Tools

Control hazardous gas leaks quickly with our compact, hand-operated, emergency squeeze tool.

- » Features a redesigned rounded jaw which lessen the chances of severing brittle pipe or pipe of unknown chemistry
- » Rapid closure is achieved with short pump strokes that deliver 18-tons of controlled force in a matter of seconds
- » To release, simply turn the release knob



Mfr. Model #	Description	Dimensions	Weight	Size	BSE Part #
PS-62B/775	Tool with gauge assembly	28.6 x 6.9"	29 lb	Jaw size: 4.68 x 2.63"	3075380

Mustang, Huskie PS-75 Emergency Steel Pipe Squeeze Tools

In natural gas distribution systems steel pipe can produce difficult to squeeze properties that require a super tool. The PS-75, with its massive 34-ton force, is a new design which meets the need for a 2" IPS super tool.

- » Incorporates newly redesigned rounded jaws which lessen the chances of severing brittle pipe or pipe of unknown chemistry
- » Rapid closure is achieved with short pump strokes that deliver 34-tons of controlled force in a matter of seconds
- » To release, simply turn the release knob



Mfr. Model #	Description	Dimensions	Weight	Size	BSE Part #
PS-75/PS-88	Tool with gauge assembly	34 x 9"	49.00 lb	Jaw size: 4.68 x 2.63"	3025379

Mustang, SEG-30 Static Electric Grounding Devices

Adapts to all Mustang Squeeze Tools manufactured since 1972. An adapter is screwed into the upper jaw grease fitting tapped hole which provides a grounding strap terminal and a passageway for lubrication grease.

- » The SEG-30 terminal lug provides a large area path to ground and should be permanently attached to the tool
- » Use of alligator clamp attachment is not recommended due to minimal contact area of the clamped teeth

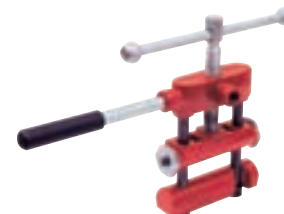


Mfr. Model #	Length	BSE Part #
SEG-30	5 ft	3025381

PE Squeeze-Off Tool

1/2 – 2" IPS squeeze-off tool. Has an affixed bottom bar that swings open to fit over any location on the pipe.

- » Specify required pipe size and SDR at time of order
- » Conforms to ASTM F1041



Mfr. Model #	Length	Capacity	Pipe/SDR Stops	Weight	BSE Part #
04302	12"	1/2 – 2"	6	11.6 lb	1673021

Natural Gas
catalog

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ABBREVIATIONS

%	percent	ga	gauge
<	less than	gal	gallon
≤	less than or equal to	H₂S	hydrogen sulfide
>	greater than	h	height
≥	greater than or equal to	hr	hour
°	degree	Hz	Hertz
Ω	Ohm	I.D.	inside diameter
μ	micrometer or micron	I/O	input/output port
'	foot (see also ft)	ID	identification
"	inch (see also in)	IEC	International Electrotechnical Commission
A	amp	IEEE	Institute of Electrical and Electronics Engineers
AC	alternating current	in	inch (see also ")
Ah	ampere-hour	in lb	pounds per square inch
Al	aluminum	INT	internal
ANSI	American National Standards Institute	IPS	iron pipe size
ASTM	American Society for Testing and Materials	K	Kelvin
avg	average	kg	kilogram
AWG	American wire gauge	kV	kilovolt
C	Celsius	l	length
cm	centimeter	L	large or liter
CO₂	carbon dioxide	lb	pound
CO	carbon monoxide	lbf	pounds of force
cPs	centipoise	LCD	liquid crystal display
CSA	Canadian Standards Association	LED	light emitting diode
CTS	copper tube size	m	meter
cu	cubic	M	medium
Cu	copper	mA	milliamp
cu ft	cubic foot	max	maximum
cu yd	cubic yard	mil	milli-inch
d	depth	min	minute or minimum
DC	direct current	mL	milliliter
DFT	dry film thickness	mm	millimeter
dia	diameter	mV	millivolt
DIPS	ductile iron pipe size	NEC	National Electrical Code
doz	dozen	NEMA	National Electrical Manufacturers Association
EMT	electrical metallic tubing	NPT	national pipe thread
EXT	external	O.D.	outside diameter
F	Fahrenheit	oz	ounce
fl oz	fluid ounce, fluid ounces	PE	polyethylene
FM	Factory Mutual	psi	pounds per square inch
FR	flame-resistant	pt	pint
ft	foot (also see')		
g	gram		

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	500PLUSF20 16	PB400PLUSF80 17	FLK-TI125-30HZ 48	150072 79	6500307 83
	600PLUSF20 16	PB45PLUSF80 17	FLK-VT02 48	150074 78	6500308 83
	65PLUSF20 16	PB500PLUSF80 17	FLUKE-116/62MAX+ 48	150078 79	6500546 83
	65PLUSXF19 16	PB65PLUSF80 17	FLUKE-435-II/BASIC 48	150082 78	6500561 83
	90PLUSF20 16	PB90PLUSF80 17	FLUKE-574 48	150084 78	6500564 83
	CA15 17	PLUSCU 17	FLUKE-62-MAX 48	150086 80	6500565 83
	CA15PLUSF33 16	PLUSCU15L 17	GE Dresser	150086 80	6500566 83
	CA25PLUSF33 16	PLUSCULD 17	5900096 114	150087 80	6500586 83
	CA25PLUSXF19 16		2275-0176-008 77	150092 79	6500587 83
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6.10758E+11.....	82	28-0102-8200-40.....	66	28-0602-1080-40.....	66	550CR0150000.....	70	727006.....	63	5.13238E+11.....	59
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6.5004E+11.....	83	28-0103-0300-40.....	66	28-0602-2310-40.....	66	550CR0620000.....	70	727100.....	63	5.1345E+11.....	59
6.50061E+11.....	83	28-0103-0330-40.....	66	28-0602-2340-40.....	66	550CR0750000.....	70	727101.....	63	5.1345E+11.....	59
6.50101E+11.....	83	28-0103-0360-40.....	66	28-0602-2410-40.....	66	Handley		727102.....	63	5.13664E+11.....	59
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503.....	70	28-0150-8050-40.....	69	28-0602-8590-40.....	66	93480132.....	136	5.00084E+11.....	56	5.14663E+11.....	59

It's easy to find the PRODUCTS continued

5.15166E+11	59	6.04113E+11	63	3909	111
5.15238E+11	59	6.04113E+11	63	4205	111
5.1535E+11	59	6.04132E+11	63	10904	111
5.1545E+11	59	6.04132E+11	63	11500	110
5.1545E+11	59	6.04166E+11	63	11509	111
5.15663E+11	59	6.04166E+11	63	12100	110
5.15863E+11	59	6.04238E+11	63	12104	111
5.47238E+11	56	6.04238E+11	63	12109	111
5.47238E+11	57	6.05063E+11	62	12700	110
5.47238E+11	56	6.05063E+11	62	12704	111
5.47238E+11	56	6.05084E+11	62	12709	111
5.47238E+11	57	6.05105E+11	62	13300	110
5.47238E+11	56	6.05113E+11	62	13304	111
5.47238E+11	57	6.05113E+11	62	13309	111
5.47238E+11	56	6.05166E+11	62	13600	110
5.47238E+11	57	6.05238E+11	62	13609	111
5.47238E+11	56	ANA1-40-02	72	30609	111
5.47238E+11	57	UAA1-02	73	31502	110
5.4735E+11	56	UAA2-01	73	31504	111
5.4735E+11	57	UAA4-01	73	31509	111
5.4735E+11	57	UAA7-01	73	32102	110
5.4735E+11	56	UAA8-01C	73	32109	111
5.4735E+11	57	UAB1-05	73	32702	110
5.4735E+11	56	UAB5-01	73	32709	111
5.4735E+11	56	UAC5-01	73	33302	110
5.4735E+11	57	UAD1-02	73	33309	111
5.4735E+11	56	UAF2-01	73	33602	110
5.4745E+11	57	Kerkau		Klein Tools	
5.4745E+11	57	304	111	32477	146
5.4745E+11	57	307	111	32482	146
5.4745E+11	56	607	111	32483	146
5.4745E+11	57	905	111	32484	146
5.47663E+11	57	907	111	32485	146
5.47663E+11	57	1205	111	D502-10	146
5.57238E+11	59	1500	110	D502-12	146
5.5745E+11	59	1505	111	D502-6	146
5.5745E+11	59	1507	111	J502-10	146
5.5745E+11	59	1509	111	Knapp	
6.00063E+11	62	1536	111	STYLE1-A-1	52
6.00084E+11	62	2104	111	STYLE1-A-1-1/2CTS	52
6.00105E+11	62	2105	111	STYLE1-A-1-1/4CTS	52
6.00113E+11	62	2107	111	STYLE1-A-2	52
6.00113E+11	62	2109	111	STYLE1-A-4	52
6.00132E+11	62	2142	111	STYLE1-A-6	52
6.01166E+11	62	2700	110	STYLE1-A-8	52
6.01166E+11	62	2704	111	STYLE1-B-1	53
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6.02113E+11	63	2709	111	STYLE1-B-2	53
6.03063E+11	63	2742	111	STYLE1-B-4	53
6.03105E+11	63	2746	111	STYLE1-B-6	53
6.03113E+11	63	3300	110	STYLE1-B-8	53
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6.03238E+11	63	3310	112	STYLE1-C-11/4	51
6.04063E+11	63	3600	110	STYLE1-C-2	51
6.04084E+11	63	3605	111	STYLE1-C-4	51
6.04105E+11	63	3609	111	STYLE1-C-6	51
6.04105E+11	63	3610	112	STYLE1-C-8	51

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